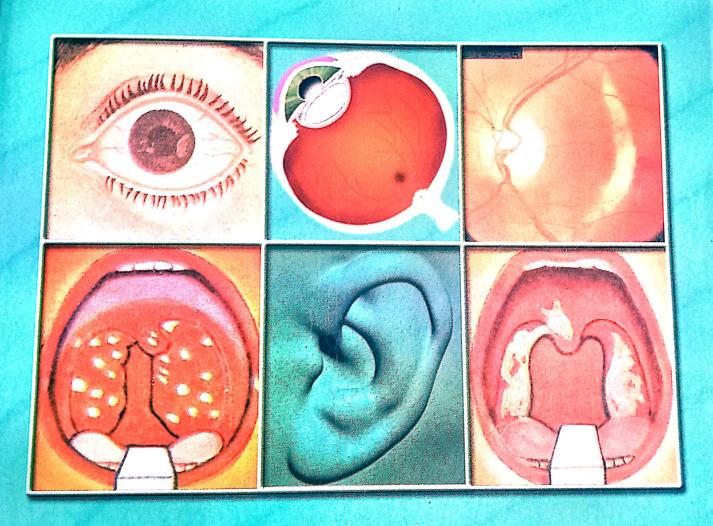
# The Shalakya Tantra

DISEASES OF EYE, HEAD & E.N.T.



Dr. Dingari Lakshmana Chary



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\* K Landy appears ( ) The



Bieseings from
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Best Wishes from
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energitically and patiently. I wish him all success and hope that he will congratulate the young author for this onerous task which he completed experience, I feel honoured to write this foreword for the book brought out continue to write many more books on various subjects in future with this by Dr. Chary who was my student. I wish him success in all his future endeavour. I welcome this publication on "Shalakyatantra" subject and

With love and blessings

Prof. Dr. V.S. PATIL

N.K.J. Ayurvedic Medical College, Bidar, Karnataka. Principal, G.C. I.M; M.D (B.H.U) The Shalakya Tantra is an important Branch of Ayurveda dealing

syllabus contents of B.A.M.S. degree course. This book is helpful not only B.A. M.S; M.D; (Ph.D) Shalakya, in English language is based on the with the diseases of E.N.T. and eye, written by Dr. D. Lakshmana Chary.

to the students of Ayurveda but also to the teachers of Shalakya Tantra.

The work of Dr. Chary is really appreciable. He has taken great pains

understanding of the subject. His work is the need of the hour, particularly compare and contrass them to elucidate the real interpretation for better to compile and collect the various scholarly commentaries and tried to

for the students of south where the books in English Language are very

few. This work fullfils the long felt need of the students.

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#### वाल आंजनेय स्वामि (शेषु) प्रसन्न गणेश स्तुति

शुक्लाम्बरधरं विष्णुं शशिवर्णम चतुर्वुजम् प्रसन्न वदनम ध्ययेतसर्व विघ्नोपशांतये

#### धन्वंतरि प्रार्थन

नमामि धन्वंतरि मादिदेवम सुरा सुरैवंन्दित पाद पद्मम लोके जारा रुग्भय मृत्युनाशम दातार मीशं विविधौशधीनाम

रागादि रोगाः सहजाः समूला येनाशु सर्वे जगातोप्यपास्तः तमेक वैद्यं शिरसा नमामि वैद्याग मजाश्चां पितामहादीन

# SHIRO ROGA **DISEASES OF HEAD**

प्राणः प्राणभृतां यत्र श्रिताः सर्वेन्द्रियाणि च। यदुत्तमाङ्गमङ्गाना शिरस्तदभिधीयते॥

शिरों रुजित मर्त्यानां वातापित्तकफैस्त्रिभि:॥

(च. सू. अ. 17) (सु. उ. अ. 25)

हृदये मूर्ध्न वस्तौ च नृणां प्राणाः प्रतिष्ठिताः। तस्मातेषां सदा यत्नं कुर्वीत परिपालने॥ आवाधवर्जनं नित्यं स्वस्थवृत्तानुवर्त्तनम्। उत्पन्नार्त्तिविघातश्च मर्मणां परिपालनम्॥

(च. सि. अ.9)

सुश्रुत के मत से शिरोरोग

शिरो रुजित मर्त्यानां वातापित्तकफै स्त्रिभिः सन्निपातेन रक्तेन क्षयेन क्रिमिभिस्तथा॥ सूर्यावर्त्तानन्तवातार्धावभेदकशङ्खकैः। एकादशप्रकारस्य लक्षणं सम्प्रवक्ष्यते॥

शिरोरोग के कारण

धूमातपतुषाराम्बुक्रीडातिस्वप्नजागरै:। उत्स्वेदाधिपुरोवातवाष्पनिग्रहरोदनै:॥ अत्यम्बुमद्यपानेन कृमिभिर्वेगधारणै:। उपधानमृजाभ्यङ्गद्वेषाधःप्रततेक्षणैः॥ असात्म्यगन्धदुष्टामभाष्याद्यैश्च शिरोगाताः। जनयन्त्यामयान् दोषाः

(अ. ह्र. उ. अ. 23)

1. वातिक शिरोरोग लक्षण

यस्यानिमित्तं शिरसो रुजश्च भवन्ति तीव्रा निशि चातिमात्रम्। वन्धोपतापैश्च भवेद्विशेष: शिरसोभिताप: स समीरणेन॥

(सु. उ. अ. 25/5)

निस्तुद्येते भृशं शंखौ घाटा सम्भिद्यते तथा। भुवोर्मध्यं ललाटं च पततीवातिवेदनम्॥ वाध्येते स्वनतः श्रोत्रे निष्कृष्येते इवाक्षिणी। घूर्णतीव शिरः सर्व सनिधभ्य इव मुच्यते॥ स्पुरत्यति सिराजालं कन्धराहनुसांग्रहः। प्रकाशासहता घ्राणस्रावोकस्माद् व्याथाशमौ॥ मार्दवं मर्दनस्नेहस्वेदबन्धेश्च जायते। शिरस्तापोयम्

(अ. ह. उ. अ. २३)

2. पैत्तिक शिरोरोग

यस्योष्णमङ्गारचितं यथैव दह्येत धूप्येत शिरोक्षिनासम्। शीतेन रात्रौ च भवैद् विशेषः शिरोभितापः सतु पित्तकोपात्॥

(सु. उ. अ. 25/6)

शिरोभितापे पितोत्थे शिरोधूमायनं ज्वर:। स्वेदोदिहनं मूर्च्छा निशि शोतैश्च मार्दवम्॥

(अ. ह. उ. अ. २३)

3. कफज शिरोरोग

शिरोगलं यस्य कफोपदिग्धं गुरुप्रतिष्टब्धमथो हिमं च। शूनाक्षिकूटं वदनं च यस्य शिरोभितापः स कफप्रकोपात्॥

(सु. उ. अ. 25/7)

4. रक्तज शिरोरोग

रक्तात्मकः पित्तसमानलिङ्गः स्पर्शासहत्वं शिरसो भवेच्च॥

(सु. उ. अ. 25/8)

5. त्रिदोषज शिरोरोग

शिरोभितापे त्रितयप्रवृत्ते सर्वणि लिङ्गानि समुद्भवन्ति॥

(सु. उ. अ. 25/8)

<sub>6. क्ष्</sub>यज शिरोरोग बसाबलासक्षतसम्भवानां शिरोगतानामिह संक्षयेण। क्षयप्रवृत्तः शिरसोभितापः कष्टो भवेदुग्ररुजोतिमात्रम्॥ क्षयप्रयः संस्वेदनच्छर्दनधूमनस्येरसृग्विमोक्षेश्च विवृद्धिमेति।

(सु. उ. अ. 25/9)

7. कृमिज शिरोरोग निस्तुद्यते यस्य शिरोतिमात्रं संभक्ष्यमाणं स्फुदतीव चान्तः। घ्राणाच्च गच्छेत् सलिलं सरकंशिरोभितापः कृमिभिः स घोरः मंकीणेभोजनैंमूर्ध्न क्लेदिते रुधिरामिषे। कोपिते सन्निपाते च जयन्ते मूर्ध्न जन्तवः॥ शिरसस्ते पिबन्तोस्रं घोराः कुर्वन्ति वेदना।: चित्तविभ्रंशजननीर्ज्वरः कासो बलक्षयः॥ रौक्ष्यशोफव्यधच्छेददाहस्फुरणपूरिताः। कपाते तालुशिरसोः कण्डूः शोफः प्रमीलकः॥ ताम्राच्छसिङ्घाणकता कर्णनादश्च जन्तुजे।

(अ. ह. उ. अ. २३)

८. सूर्यावर्त्त

सूर्योदयं या प्रतिमन्दमन्दर्माक्षभुवं रुक् समुपैति गाढम्॥ विवर्धते चांशुमता सहैव सूर्यापवृत्तो विनिवर्तते च। शीतेन शान्तिं लभते कदाचिदुष्णेन जन्तुः सुखमाजुयाच्य॥ तं भास्करावर्त्तमुदाहरन्ति सर्वात्मकं कष्टतमं विकारम्।

चरक का मत से सूर्यावर्त्त-निदान और समप्राप्ति

सन्धारणादजीर्णाद्यैमीस्तष्कं रक्तमारुतौ। दुष्टौ दूषयतस्तच्च दुष्टं ताभ्यां विमूर्च्छितम् सूर्योदयेशुंमंतापाद्रवम विष्यन्दते शनै:। ततो दिने शिर:शूलं दिनवृद्धया विवर्धते॥ दिनक्षय ततः स्त्याने मस्तिष्के संप्रशाम्यति। सूर्यावर्तः स तत्र स्यात्

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(च. सि. अ.९)

विदेहमत में सूर्यावर्त्त-विपर्यय

तत्र वातानुगं पित्तं चिते शिरसि तिष्ठति। मध्याह्ने तेजसार्कस्य तद् विवृद्धं शिरोरुजम्॥ करोति पैत्तिकीं घोरां सम्प्रशाप्यति दिनक्षये। अस्तं गते प्रभाहीने सूर्ये वायुर्विवर्धते॥ पित्तं शान्तिमवाप्नोति ततः शाम्यति वेदना। एष पित्तानिलकृतः सूर्यावर्त्त-विपर्ययः॥

वाग्भट के मत से सूर्यावर्त्ता

पित्तानुबद्धः शंखास्थिभूललाटेषु मारुतः। रुजं सस्यन्दनां कुर्यादनुसूर्योदयोदयाम्॥ आमध्याहं विवाधिष्णुः क्षुद्धतः सा विशेषतः। अव्यवस्थितशीतोष्णसुखा शाम्यत्यतः परम्॥ सुर्यावर्तः स इत्युक्ता दश रोगा शिरोगताः।

(अ. ह. उ. अ. २३)

#### ९. अनन्तवात

दोषास्तु दुष्टास्त्रय एव मन्यां संपीड्य घाटासु रुजां सुतीव्राम्॥ कुर्वन्ति साक्षिभुवि शंखदेशे स्थितिं करोत्याशु विशेषतस्तु। गण्डस्य पार्श्वे तु करोति कम्पं हनुग्रहं लोचनाजांश्च रोगान्॥ अनन्तवातं तमुदाहरन्ति दोषत्रयोत्थं शिरसो विकारम्

(सु. उ. अ. 25/13,14)

(उपवासातिशोकातिरूक्षशीताल्पभोजनैः) दुष्टा दोषास्त्रयोमन्यापश्चाद्घाटासु वेदनाम्॥ तीवां कुर्वन्ति सा चाक्षिभुशंखेष्ववतिष्ठते। स्पन्दनं गण्डपार्श्वस्य नेत्ररोगं हनुग्रहम्॥ सोनन्तवातस्तं हन्यात्

(च. सि. अ.९)

10. अर्धावभेदक या अर्धभेद अधायः । यस्योत्तमाङ्गार्धमतीव जन्तोः संभेदतोदभ्रमशूलजुष्टम्॥ यस्याः .... यक्षाह्शाहादथवाप्यकस्मात्तस्यार्धभेदं त्रितयाद् व्यवस्थेत्।

(सु. उ. अ. 25/15)

पक्षात् कुप्यति मासाद् वा स्वयमेव च शाम्यति। अतिवृद्धस्तु नयनं श्रवणं वा विनाशयेत्॥

(अ. ह्र. उ. अ. २३)

<sub>11.</sub> शङ्खकरोग

र'ख शंखांश्रितो वायुरुदीर्णवेगः कृतानुचात्रः कफपित्तरकै:॥ राज्याः प्रतनोति मूर्धिन विशेषतश्चापि हि शंखयोस्तु। सुकष्टमेनं खलु शंखकाख्यं महर्षयो बेदविदः पुराणाः॥ ज्याधि वदन्त्युद्गतमृत्युकल्पं भिषक्सहसैरपि दुर्निवारम्।

(सु. उ. अ. 25/16,17)

रत्तपित्तानिला दुष्टाः शंखदेशे विमूछिंताः। तीव्ररुग्दाहरागं हि शोफं कुर्वन्ति दारुणम्॥ स शिरो विषवद्वेगी निरूध्याशु गलं तथा। त्रिरात्राज्जीवितं हन्ति शंखको नाम नामत: ॥ परं त्र्यहाज्जीवति चेत् प्रत्याख्यायाचरेत् क्रियाम्।

(च. सि. अ.९)

#### DISEASES OF HEAD (SHIRO ROGAS.)

Synonyms of Shiras :- Mastaka 2) Urdwa Kaya 3) Urdwanga 4) Synonyms of Shiras :- Mastaka 2- Ordan Adya 9) Ordwanga 4)
utthamanga 5) Munda 6) Sheersha 7) urdwa Hrudaya 9) Urdwa Kaphaashaya
utthamanga 5) Munda 6) Sheersha 11) Manomaya Kosha 12) Shiro bruda utthamanga 5) Munda o) Sheersha 77 Mahamanga 6) Shawa Raphaash 9) Urdwajathru 10) Dova kosha 11) Manomaya kosha 12) Shiro hrudaya,

Importance of Shiras :-

Importance of Shiras:-Shiras (head) is known as utthamanga for Existing vital organs like prana, Shiras (head) is known as unuamanga panahara marma, pranavata, sadaka pitta, Indria. Prana vaha srotas, sadyo pranahara marma, pranavata, sadaka pitta, Indria. Prana vaha srotas, sadyo pranahara marma, pranavata, sadaka pitta, Indria pranahara marma, pranahara m mona. Franka valla. Tarpaka sleshma and it is the seat for all gyanavah (sensory) Chestavah (motor) prayatna etc,

#### REFERENCES EXPLAINING THE IMPORTANCE OF SHIRAS :-

- It is the seat of prana and all indrias (prana = Agni + soma + Vayu + Satwaguna + Rajoguna + Tamoguna + Indrias + Pancha maha bhootha) (Charak Sutra Sthana.)
- Description of purusha sooktha starts with shiras.
- In "Atharvana veda" shiras is explained as " Devakosha".
- In "Thiitthareya upanishad" shiras is explained as " Manomaya Kosha".
- "Shakthyopanishad" explained the importance of the Bhru of Shiras. 5)
- In yoga shastra, shiras is explained as the seat of "Sahasrara Chakra" 6)
- In "Amarkosha" for shiras synonyms like " Utthamanga, Sheersha, shira" are given.
- According the Bhela samhitha shiras is named as "Shiro Hrudaya". 8)
- Shiras is the seat for pranavata, sadaka pitta, Alochaka pitta and 9) Tarpaka Sleshma.
- Shiras is the controlling Centre for 10)

Prana,

3 Shareera dosha.

3 Mano dosha

Ekadasha Indria.

Pancha maha bhuta

11) While explaining the importance of Shiras, Vagbhata described the body as Urdwa moola (Shiras), Adah shaaka (Limbs Trunk), If root is destructed plant also destructed like wise. If head is injured the Death proceeds. So only it is advised to protect the head from diseases and injuries.

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general while praying the God, Respecting the Teachers eldere etc.the light is bended sincerely to thank them, even for extream punishments had discount as implemented (Removing the hair from the head) and when shire dusted to present their shire vestana, These incidents also assure the dealled used to Shires. Shiron Book. illmost nurse pofination of Shiro Roga:pofination of Shiro Roga:pofination roga shabdena shirogath shoola rupa ruja abhideeyatha"
"Shiro roga sheases in which head only the shirogath shirogath

"Shiro rogu shabsas in which head ache (shirah shoola) is the prime symptom
The diseases in which head ache (shirah shoola) is the prime symptom
Those are named as shiro roga. The name is giver not according to the site of the
disease, like other, so only sushrutha not mentioned 9 Kapala rogas in Shiro
disease for not existing Shirah shoola But Vagbhata explained these 9 diseases in
Roga for not existing Shirah shoola But Vagbhata explained these 9 diseases in
shiro roga as Kapala roga. Roga for not existing shirth roga as Kapala roga.

Classification of Shiro Roga:

Classification of State 19 According to Sushrutha, 11 diseases, they are 1) According to Sushrutha, 11 diseases, they are 1) According to Sushrutha, 11 diseases, they are

- Pittaja Shiro Roga Raktaja" Krimija " Kaphaja 4) 3) Sannipataja 6) 5) Suryaavartha" Kshayaja
- 7) Anantha Vata " 10) Arthavabhedak.

Shankhaka 11)

2) According to Vagbhat 19 diseases, 10 Shiro roga + 9 Kaphala roga.

a) 10 Shiro Rogas: among 11 diseases of sushrutha. Vagbhata not explained the Kshayaja Shira shoola and Anantha Vata (so 11-2=9) And added Shiro Kampa as 10th disease.

b) 9 Kapala rogas: These are not explained by Sushrutha in Shiro roga they are

Upa Sheershak 2) Aroomshika 4) Indraluptha Darunaka 3) 6) Phalitha Khalithya 5) 8) Shiro Arbuda Shiro grandhi 7)

Shiro vidradi

3) According to Charak, 5 diseases, they are:

2) Pittaja Shira shoola Vataja Shira shoola 1) 4) Tridoshaja Shira shoola Kaphaja Shira shoola 3)

Krimija Shira shoola. 5)

Note: Charaka explained suryavartha, Anantha Vata, Arthaava bhedak, shankhark etc., diseases in charak siddhistana.

4) According to some other authors shiro Rogas are 10 only

From sushrutha's classification they have omitted "Ananthavata" for having similarity with Anyatho vata of sarvagath netra roga.

# NIDANA - SAMPRAPTHI OF SHIRO ROGAS.

		NIDANA	Description	Vitiation
	SI.	Lakshanas	Description	
	No.		smoking or exposure to	Pitta Raktha and
	1)	Dhooma paana	smoke	allergic disorders
	2)	Rajo sevan Aatapa Sevan	Exposing to dust Exposing to sun light	-do-
	3) !) i)	Atisweda Jala Kreeda	Excessive sudation Swimming or diving or staying in water for long time	-do- Kapha vitiation head injury.
6) 7)		Tushaara Sevan Diwa Swapna	Exposing to snow Or Moisture Sleeping in day time	-do- -do-
8)		Poorva Vata Sevan	Exposure to Air coming from east	-do-
9) 10) 11) 12) 13) 14) 15) 16) 17) 18) 19)	Pr Att (M Ab	Nishi Jaagara Shashpa Nigrah ti rodan egadharan ralapa cchiir bhashana rdwa-Adah ratatekshaniihi i Vyayama Vyavaya iithuna) highata rambu paana nadya paana	night arousal Suppression of tears Excessive weeping Supression of natural urges prolonged irrelavant talking Loud talking Looking Upwards Or down wards for a long time. Excessive exercise Indulging more sex Head injury ExcessiveFluids in take Excessive intake of	Vata Vitiation.  -dodododododo- Shukra, Ojo Kshaya Tridosha vitiation. Vata vitiation, death Malnutrition Dhathu, Ojo kshaya
!1)	Aan	na	alcoholic drinks Indigested infected food	Obstruction of tissue channels.
2)	Krin	ni	Worm infestation	Infection.

23.	<sub>Asatm</sub> ya gandha sevan	Inhaling bad or Nasal allergy unsuitable smell
24.	Abhyanga dwesha	Rajecting head Neuralgias
25.	Dusta pratishyaya	nasal paranasal Chronic infections.
	Atiyoga Or Ayoga of	Excess Or Inada b) Non Meningeal
26.	Nasya Karna Vikar	quate Nasya Middle, and internal   c) Neurological
27.		ear complication. d) Vascular.
28.	Vatanadi Vikar Raktha Vikar	Cranial neuralgias Complications arises Vascular problems
29. 30.	Not wearing	Not wearing cap to Head injury the head.
30.	shirastrana By not conducting	Rejecting shodhan
31.	Shirah shodhan	karma Tridosha vitiation. mental worries Vitiation of mano
32	Mano Klesha	dosha
33.	Bhaya, Krodha	Fear and anger Stress strain aggravates pitta.
34.	Other diseases	Eye problems, Tridosha Crainal, Nasal etc., vitiation Disorders.

Due to above causes vatadi doshas vitiate, reaches the shiras and produces different types of diseases in the Shiras.

# SHIRO ROGA SAMANYA CHIKITSA

### Common treatment Principles of Shiro Rogas:-

- Nidana Parivarjan (Avoiding the causative factors)
  Exposure to dust smoke moisture causes allergic disorders so care should be taken to prevent the diseases.
  Wearing of Shiro strana (helmet Or Cap) is needed to protect the head from injuries especially in open air, cool places, early mornings and while traveling atte 1)
- 2) travelling etc.
- Regular practice of Shiro Abhyanga (head massage with Oils) can prevent the diseases of head, Eye, Nose, hair etc., 3)
- Care should be taken about Nasal paranasal infections, allergic conditions, stress strain, ophthalmic problems etc those cause shiro rogas. 4)

- To prevent the seasonal doshic variations, shira shodhan (Nasya) should
- practice, regularly.

  Nasya karma is having utmost importance in the preservation of health Or Nasya karma is having utmost importance in the preservation of health Or practice, regularly. Nasya karma is having utmost important to the only gate way to elimitreating the Shiro rogas why because Nose is the only gate way to elimitreating the Shiro rogas why because Nose is the only gate way to elimit nate the doshas outside form the shiras.
- Nose is the major source for the infection to enter in to the Shiras, so Nose is the major source for all mass and source should be taken against dust cold smoke etc., allergic factors, care should be taken against dust cold smoke etc., allergic factors.
- Vitiated Dosha should be identified for giving treatment primarily. Vitiated Dosha should be ludaritied to 3 and 5 and pittala Rakthaja Ex. Vataja Kaphaj disorders get relief by hot therapy and pittaja Rakthaja disorders get relief by cool therapy.
- Treatment principle.

Sneha (bahya, Abhyantar) sweda, Lepa, nasya, dhooma pana, vaman. Virechan, Vasti, gandoosha, Kavalagrah and Rakthamokshan.

#### 10) Some common external Applications (Lepa)

a) Gunjadi lepam:- Gunja, Karanja, Brungaraj Maricha + Water, should be grinded and applid to the shiras. b) Marichadi Lepam -Krishna Maricha, rakta Maricha + Snuhiksheera - Should be grinded and applied to the shiras c) Muchakunda pushpa should grind with water and applied to the shiras. d) Pathaadi Lepam :- Patha, Patola Patra, shunti, Erenda moola. Shigrubeeja, Chakramarda beeja, and Kusta.e) Agaru, neelotphala, swetha chandan, Kusta + Ghritha.f) Prapoundareeka, suradaaru, Kusta, Yastimadu Ela. Rakta Kamala, Neelakamala + ghritha. g) Navasagar + Water.

#### Some important common Nasya Yoga.

Fine powders of a) 250 mg. Yastimadu+ 250 mg Vatasanaabhi, should be used for pradaman nasya. b) Navasagar + sudha Churna + water-should inhale. c) Nasya with Karanja, shigrubeeja, Patri, Twak, and swetha sarshapa. d) Guda, ardraka, pippali, saindhava lavan + water, for nasya.e) Kumkuma fry in ghritha, add sugar and used for nasya. f) Guda + Shunthi, for nasya. g) The medicated oil prepared with Neela uthphala, pippali, Yastimadu,chandana, pundareeka, Amalaki, tila taila - is used. for nasya. h) Karpasabeeja, Dalchini, Musta, Jathi patra and pushpa Avapeedan Nasya. i) Aparajitha moola, phala swa rasa nasya. j) Shunti 3 Grams, Milk 192 grams - Bhavana and then Nasya. k) Artha naareeshwara rasa disolved in water and used for Nasya. I) Spatica churna + Karpoora as Nasya.

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Ghrita and Taila .:-

Ghrita and Taila."

1) Shat bindu taila for nasya 2) Doshamoola taila (Tila taila Ajaksheera 1) Rys, Brungaraj swaras 4 kg, kalka drugs total 250 gram, (Erenda mola, 189ara, shata pushpi, Jeevanthi, Rasna, Lavana, dalchini, vidanga - Yastimadu shunthi) for abhyanga and Nasya- (Sarshapa taila 2 kg, Dashamoola quatha 8 kg widhi) 3) Dathura taila for abhyanga (Sarshapa taila 2kg, Dathura quath 8 kg kg, dashamoola Kalka 1/2 kg - oil should prepare according to taila paka vidhi) 3) Dathura quath 8 kg dathura Kalka 1/2 kg and oil should prepare according to Taila naka vidhi) 4 kg dathura Kalka 1/2 kg and oil should prepare according to Taila naka vidhi) 4 kg dathura Kalka 1/2 kg and oil should prepare according to Taila naka vidhi) 4 kg dathura Kalka 1/2 kg and oil should prepare according to Taila naka vidhi) 4 kg dathura Kalka 1/2 kg and oil should prepare according to Taila naka vidhi) 4 kg dathura Kalka 1/2 kg and oil should prepare according to Taila naka vidhi) 4 kg dathura Kalka 1/2 kg and oil should prepare according to Taila naka vidhi) 4 kg dathura Kalka 1/2 kg and oil should prepare according to Taila naka vidhi) 4 kg dathura Kalka 1/2 kg and oil should prepare according to Taila naka vidhi) 4 kg dathura Kalka 1/2 kg and oil should prepare according to Taila naka vidhi) 4 kg dathura Kalka 1/2 kg and oil should prepare according to Taila naka vidhi) 4 kg dathura Kalka 1/2 kg and oil should prepare according to Taila naka vidhi) 4 kg dathura Kalka 1/2 kg and oil should prepare according to Taila naka vidhi) 4 kg dathura Kalka 1/2 kg and oil should prepare according to Taila naka vidhi) 4 kg dathura Kalka 1/2 kg and oil should prepare according to Taila naka vidhi) 4 kg dathura Kalka 1/2 kg and oil should prepare according to Taila naka vidhi) 4 kg dathura Kalka 1/2 kg and oil should prepare according to Taila naka vidhi) 4 kg dathura Kalka 1/2 kg and oil should prepare according to Taila naka vidhi) 4 kg and taila 2 kg and oil should prepare according to Taila naka vidhi) cow ... and so a dual a kg on the should prepare according to talia paka vidhi) 3) Dathura taila for abhyanga (Sarshapa taila 2kg, Dathura quath 8 kg, dathura Kalka 1/2 kg and oil should prepare according to Taila paka vidhi) 4) gunja taila for a bhyanga and Nasya (Tila taila, Kanji, Brungaaraj swarasa each 375 grams, gunja kalka 95 grams - oil should prepare according to Taila paka vidhi) 5) Himamshu taila 6) Kumari taila 7) Kanak Taila 8) Rudra taila 9) grungaraj taila 10) Mayuradya ghrita 11) Maha Mayaradya ghrita etc. are used for abhyanga and Nasya

12) Kwatha.

12) Kwariba. Pathya Shadanga Kwata. Paretaki, Vibheetaki, Amalaki, Kiratatikta, Nimba, Amruta - 8 times water added and is boiled and reduced to half, Then it is used for oral administration. 13) Rasa Aushada - Vati - Capsules and churna :-

13) Rasa Austraua - vau - vapsures and churna :1) Shira shooladri vajra ras 2) Maha Lakshmi Villas ras 3) Lagu suthasekara ras, 1) Snira sutha sekara ras , 5) Chandra Kantha ras, 6) Chandanadi vati, 7) Siddhamruta ras, 8) Suryavarthi ras, 9) Triphala guggulu, 10) Kanchanara guggulu Churnas :-

1. Ashwagandhadi churna

2. Shatavaryadi Churnam

3. Talisadi Churnam

4. Sitophaladi churna

5 Chopachenyadi Churna

6. Yastimadhu Churna

7. Triphala Churna 8. Trikatu Churna

9. Shunti Churna

10. Haridra Khanda

11. Nimbadi Churna

12. Vyshwanar churna etc.

Pathya:-Shiro abhyanga, shiro vestana, sheetajala shira snana, sweda, nasya, Dhoomapana, Virechan, Lepa, Seka, Upavasa, Shiro Vasti, Raktamokshan, Agnikarma, Upanaha, puranaghritha, shalidhaanya, Shastika dhaanya, Yusha, Ksheera, Jangala Mamsa, patola, Shigru, Drakasha, Vastuka, Kaaravellak, Godanthi, Amra phala, Amalaki, Trikatu, Dadima Phala , Mathulunga, Haridra, Yastimadu, Tulasi, Vasa, Dathura, Taila, Takra, Kaanji, Narikela, hareetaki, Kusta, Brungaraj, Dashamoola., Kumari, Musta, usheera, Chandana, Karpoora, Chandrakiran, Hingu, Navasagar etc.,

Apathya: - Abhyanga-dwesha, shiro abhighata, Shiro abhitapa Vegavarodha (Supressing natural urges), Viruddha bhojana (eating the uncompatible food), Jala Kreeda (Swimming Or Exposure to water), Diwa Swapna (Daytime sleeping), Nishi jagara (Night arousal), Ajeerna (Indigestion), Exposure to dust, smoke etc., neglecting the Nasal, ear, teeth and eye diseases etc.,

# 1) VATAJ SHIRA SHOOLA (NEURALGIC HEAD ACHE)

#### Aetiology By Charak:-

Supressing the natural urges, talking Loudly, Night arousal, indulging moresex, exposure to cold, alcoholism, head injury, fasting, weeping, wait lifting, moresex, exposure to cold, alcoholism to the control to the cold, alcoholism, head injury, fasting, weeping, wait lifting, for a consistent cold, and c rear, anxiety, Aligoya of Shoohan Ramia clos, Cadada and villatio that propogates towards the head and causes vataj shiro Roga.

The Vitiated vata dosha causes head ache without obvious cause, the pain becomes more at nights and reduces by Oleation (Sneha Karma), sudation (Sweda Karma), mardana (Gentle compression), Abhyanga (Oil massage), Bandana (tleing the cloth Or rope around the head), Hot therapy (ushnopachar) and with other Vata hara treatment principles. pain becomes more at nights and reduces by Oleation (Sneha Karma), sudation

#### Vagbhata:

In addition to above description, he explained the affecting site and nature of the head ache in detail as follows.

Severe pricking pain, is experienced at temporal region, back of the neck, Frontal region and at the root of the nose, Associated symptoms are otaligia (Karna shoola), Tinnitus (karna Nada), Pain in the eye ball, vertigo, pulsation of the vessels, neck rigidity, Lock jaw, Photophobia, dislocation of joints, Rhinorrhoea and discomfort in the body.

#### Treatment of Vataj Shira shoola.

1) Shiro abhyanga (Head massage) 2) Sneha pana (Oral intake of Oleous substances), 3) Upanaha sweda (hot applications to head) 4) Seka (pouring the medicine on the head) 5) Lepa (medicated applications to head) 6) Shiro Vasti (keeping of Sneha drugs on the head by special procedure) 7) Vasti (Anuvasan Vasti) 8) Snehika Dhooma pana 9) Snehika Nasya 10) Vata hara Aahara and Vihara

- Charak suggested sneha Sweda and nasya.
- 2. Sushrutha and Vagbhata suggested Vata Vyadhi chikitsa and Snehan Nasya.
- Chakradatta suggested Shiro vasti.

With Nata And Majia, Varunadi ghrita Or taila Kabahasia. Chathur sneha (sarpi, ang and Majia), Varunadi ghrita Or taila Kabahasia. 2) Sneha padata (sarpi, Tajia, vasa and Majja), Varunadi ghrita Or talia, Kakolyadi ghrita Or talia, Maha Mayuradya ghrita, Bala talia, Trivruth talia, cow milk and ghee should niven at nights. be given at nights.

be giver a rusual polication of Medicated paste in hot condition)
3) Upanaha sweda (Application of Medicated paste in hot condition)
1) Agaru, should be fried in Oil and applied. 2) Application of Jeevak, Rushabhak, Meda, Maha Meda, Kakoli, Ksheera Kakoli, mashaparni, mudga parni, Jeevanlhi, Yastimadu etc. 3) Fried flesh of fish (Matsya mamsa) 4) Payasa Krushara Jeevaniin, Tasan Sada Sala Sala Hearn est of tish (Matsand saindhava lavana 5) Other vata hara dravya.

4) Lepa (External applications)

4) Lepa (Externai applications)
1) Kustadi lepam (Kusta, erenda moola grinded with Kanji Or takra). 2)
Muchakunda pushpa kalka (Paste) 3) Kusta, erenda moola shunthi + takra. 4)
Devadarvyadi Lepa (Devadaru, Tagara, Kusta, jatamamsi, Shunthi + Kanji Or
Gheb). 5) Chandanadi Lepa (Chandan, Kamala, Kusta, Pippali + water) 6) Erenda beeja, Chakra marda beeja + Kanji.

5) Nasya Yogas.

- 1) Snehan Or Brumhana nasya. 2) Anu taila, 3) Shatbindu taila, 4) Swaskutar rasa + water. 5) Rasnadi Taila. 6) Mayur- Maha Mayura Ghrita 7) Bruhat pancha moola Ksheera 8) Varunadi Ksheera sarpi 9) Karpasabeeja, lavanga, Musta, Jathipatra + Hot water 10) The medicated oil prepared with yastimadu madhuksar, vidari, chandana Neelothphala, jeevak, rushabhak, Draksha, Ksheera, Mamsa, Sharkara, Taila.
- 6) Dhooma Pana Snehika dhooma pana.
- 7) Shiro Vasti and anuvasan vasti with vata hara taila Or ghritha.

8) Seka : - With Bhadradharvyadi Ksheera

- 9) Oral remedies Like Rasnadiguggulu Triphala guggulu vata vidwamsini , Neurotics like bala, Ashwagandha, shatavari, Erenda, Nigundi, Rasna, Devadaru shigru, Yastimadu, Dashamoola, Masha, Rasona, Sariba, Tila Brahmi etc., are
- 10) Vata hara Aahara And Vihara should be given

#### 2) PITTAJA SHIRAH SHOOLA.

A person who takes katu Amla kshara food excessively, and have the anger and fear, exposure to over heat etc. causes the pitta dosha vitiation and manifest severe burning pain in the head eyes nose and throat "Dhoomayan Agnidagdha Vath Peeda". The patient feels comfort by cool therapy (Sheetopachar) and at

Additional points of Vabhata-Burning pain, Fever, Virtigo, Sweating and Finally causes unconsciousness.

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Note:- Pittaja and Raktaja shirah shoola contain similar treatment principles ja and Raktaja shiran shuola Contain Shirana Modarient principles.
Rakta and pitta dosha hara Chikitsa .
Panchakarma except Vamana.
Panchakarma except Vamana.
Seka:- with ghee Or Milk Or sugar cane juice Or Honey Or

2)

3) Seka:- with gnee of Nilling of Sogar date Juice Or Honey Or sugarwater OrKanji Or decoctions of Sheetha Veerya Aushada Like uthpaladi, Kakolyadi drugs.

Lepa:- (External application of the medicine)

a) Amalakyadi Lepa. b) With the paste of Nala, Vetas, Uthphala, musta a) Amaiakyaui Lepu. 27 Swetha chandan, Padmaka, Vamshi, Doorva, Yastimadu, Kamala + Water + Ghee, Swetha chandan, Padinaka, variesis, Bala, Waghranakhee, ushera, Kaco) With the paste of Chandana Yastimadu, Bala, Waghranakhee, usheera, Kaco) With the paste of Chandana Yastimadu, Bala, Waghranakhee, usheera, Kaco) c) With the paste of Chandana rasininadu, bala, Fasa, Krishna tila, yastimadu, mala + Water + Milk. d) With the paste of Shatavari, Kusta, Krishna tila, yastimadu, mala + water + will. a) With the paste of Lamajjak, usheera, Chandana, Kamala, punarnava + Milk. e) With the paste of Kinto Tagana Kamaia, pulialitava + Water. f) with the paste of Kusta, Tagara, uthphala, Anjan, muktha, gyrica + Water. f) with the paste of Kusta, Tagara, uthphala, chandana, + Ghritha.

5) Aastapana Vasti Or Niruha Vasti, with the Milk prepared with uthphaladi drugs.

6) Anuvasan Vasti Or sneha Vasti. a) with Ksheera sarpi b) Kakolyadi Ghritha

7) Mrudu Virchan : -

By the oral administration of Ghee prepared with Draksha, Triphala. Ikshurasa and Milk.

8) Shiro Abhyanga. With Himamshu taila, Himasagar taila and Shatadhoutha

9) Shiro Vasti:- With Ghee Or milk. (Plain or medicated)

#### 10) Panaka ( Drinks)

a) Kesara, Mishree, Ghee and Milk. b) Parpataka 6 grams, dhaniya 6 grams. draksha 6 grams, mishree 48 grams, water 120 grams. and 12 grams Gulab arka. c) Shadanga Paneeya + Sugar. d) Sheeta Kashaya of Draksha Or Kharjura and Sugar.

#### 11) Nasya Yogas.

1) Ksheeri Sarpi. 2) Kakolyadi Ghritha Or taila. 3) Uthphaladi ghritha Or taila. 4) medicated ghee prepared with Vasa of Jangala Animals. 5) Yastimadu Chandan Sariba ksheera Ghritha. 6) Yastimadu Ksheera sarpi., 7) Yastimadu, Draksha, Mishree and Ghee. 8) Shaman Nasya with Brumhana, Sheeta Veerya

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12) Oral Remedies. 1) Swarna Malini Vasant ras. 2) Chandra Kala ras. 3) muktabhasma. 4) 1) Swaria ross... Vosani rds. 2) Chandra Kala ras. 3) muktabhasma. 4) Shunthi bhasma. 6) Makshika bhasma 7) Varata bhasma, 8) The medicated ghee prepared with Sharkara, Kumkum, ghrita etc. 9). Sheetha kashaya prepared with prepared with Chandana Or useera Or Draksha etc. 10). Triphala Guggulu 11) Amrutadi Guggulu. Chandana Or useera Or Draksha etc. 10). Triphala Guggulu 11) Amrutadi Guggulu. 12) Nimbadi guggulu. 13) Lagusuthasekararas. 14) Chandanadi Vati. 15) Yastimadu 12) Nimbadi Churna, Triphala Churna 12) Nimbau yuggama 10) Agusuurasekararas. 14) Chandanadi Vati. 15) Yastimadu churna, Aamalaki churna, Triphala Churna, Pancha Valkala Churna, Truna churna, Ola. Vasa, Nimba, Usheera musta churna, Truna churna, Aanasaa Churna, Pancha Valkala Churna, Truna Panchamoola, Vasa, Nimba, Usheera, musta, amrutha, Chandan, Nagakshara Panchamous, 1997, necessity.

#### 3) KAPHAJ SHIRAH SHOOLA.

(Headache due to Cold and Sinusitis.)

Excessive sleeping, sitting, intake of heavy bulk oily food etc. causes the Kapha dosha vitiation. The Vitiated Kapha dosha causes headache, heavyness rigidity, coldness of hands and body, Oedema of Face and eye ball. The head and throat appears as lined with thick sputum.

The disease (headache) is severe at nights and minimum at day time . it is controlled by Hot therapy (ushnopachar) and by kapha hara treatment prin-

Charak added - Tandra - Alasya and Aruchi

Vagbhat added - Mandaruja, karnaKandooyan and Vaman.

Treatment Principles :-

1) Ghrita pana 2) Upavasa, 3) Ruksha Ushna Sweda, 4) Vaman with Katu Dravya. 5) Pradaman nasya 6) Teekshna Gandoosha 7) Teekshna dhooma pana. 8) Anjan, 9) Lepa, 10) Rakthamokshan 11) Daha Karma, 12) Kapha hara Aahara Vihar (Trikatu, Yava, Yavakshara, Patola, yoosha, Kulutta, Mudga, Purana Ghritha, honey, intake of light non-oleus and hot food, intake of katu Tikta Kashayarasa, doing exercise, avoiding of diva swapna, IceCreams, fridge items, sweets and curd etc. 13) Teekshna Vasti.

I) External applications (Lepa)

1) Saraladi Lepam (sarala Kusta, Devadaru, lata karanja, rohisha truna, Apamarga, Lavan should be grinded with water). 2) Pathyadi, Lepam (Hareetaki shunthi, musta, yastimadu, shatapushpi, neelkamal + water). 3) Devadarvyadi lepam (Devadaru, Tagara, Kusta, jatamamsi, shunthi + Taila Or Kanji). 4) Shunthyadi Lepam (Shunthi, Kusta, Devadaru, Chakramarada beeja + mahisha Mootra). 5) Krushnadi Lepam (Pippali, Shunthi, musta, Yastimadu shatapushpa, Neelkamal , Kusta + Water). 6) Harenu, Tagara, shilajith, Musta, Agaru, Ela, Devadaru, jatamamsi, Rasna, Erenda Moola.

II) Nasya Yoga: Or pradaman Nasya (Teekshna Rechan Nasya) with madhuk sar, churna 2), Ingudi Twacha churna 3) Katphala churna, 4) Mesha Srungi Churna, 5) Arkadi Churna, 6) Trikatu Churna, 7) Vidanga Churna.

ooma Pana:-with the varthi prepared from 1) Ingudee 2) Meshashrungi 3) Erenda moola with the varthi prepared from 1) Ingudee 2) Meshashrungi 3) Erenda moola III) Dhooma Pana:with the variable prepared from 17 angulaes 27 meantastiff.

Agaru, guggulu, chandan, Jatamamsi and kshouma Vastra.

IV) Gandoosha:-with teekshna ushna kaphahara decoctions like Trikatu Kashaya. IV) Gandoosha:- with teeksnia usinia kapinahada doodoosha ina Tinkatu Kashaya, v) Daha Karma:- In vataj and Kaphaj disorders daha Karma is suggested at Bhru Shankha and Lalata.

ıv) Апјан:-Теекshna Anjan Or Lekhana anjan Like Chandrodaya varthi is used.

In Briet:1) Purana ghritha pana, 2) Ruksha Sweda, 3) Vamana, 4) Teekshna nasya, 5)
Teekshna vasti , 6) Teekshna Gandoosha, 7) Dhooma pana 8) Anjan, 9) Daha karma 10) Local applications.

Common Remedies :-

1) Kanchanara guggulu 2) Nimbadi guggulu 3) Triphala guugulu 4) vidangadi guggulu 5) Khadhiradi Vati, 6) Trijathakadi Vati, 7) Eladivati, 8) Ekangaveer Ras, 9) Maha lakshmi vilas ras 10) Sutasekar ras, 11) Godanthi Bhasma + Spatica bhasma. 12) Talisadi Churna 13) Shrungyadi Bhasma 14) Tankan bhasma 15) Arka Lavan, 16) Seetamshu ras, 17) Anand bhiiravi ras , 18) Mruthyumjaya ras. 19) Tribhuvan Keerti ras, 20) Kaphahara Kshara- Lavana - Bhasma etc.,

#### 4) RAKTAJ SHIRAH SHOOLA

(Headache due to acute alcoholism and Hypertension.)

The Vitiated raktha dosha causes the terrific head ache. The signs symptoms and treatment is similar to pittaja shirah shoola. The seveority of the symptoms is more than pittaja shirah shoola (Severe burning pain in the head eyes nose and throat) the additional symptom is tenderness of the head (Sparshasahishnutha) and occassionally epistaxis also occurs. The patient feels comfort by cool therapy and at nights.

A) External applications:-1) Like Pittaja shirah shoola. 2) Ksheeri sarpi. 3) Shigru patra swarasa + Maricha Churna, 4) Pippali, Shunthi, Yastimadu, Shatavari, Musta, Uthphala, Kuruveru + water. 5) Kantakari Phala swarasa 6) Amalaki, Dhava, Khaskhas, Sariba, Kamala, Draksha + Gulabjal.

Nasya; -1) Pippali saindhavalavan + Ghee. 2) Ksheeri sarpi 3) Yastyadi Ghrita g) Nasya 4) Shatbindu taila 5) Yastimadu, Aamalaki swarasa + Honey 6) Shunthi + Ortaila 4) Shatbinda Pushpa Swarasa + Doorva Swarasa 8) Karpoora - milk and Honey g) Uthphaladi ghritha. 10) Vidarigandhadi Ghritha. 11) Doorvadi ghritha.

C) Oral remedies :remedies --1) Udumbara Phala ghritha + Ela + Pippali + Maricha + Sita, 2) nimbadi 20 Aprutadi ququlu 4) Trinhala quagut 5 6) 1) Udumbara Finala Yintina + Ela + Pippali + Maricha + Sita, 2) nimbadi guggulu 3) Amrutadi gugulu 4) Triphala guggulu 5) uthphaladi ghritha 6) Vidari gugdhadi ghritha. 7) Dooravadi ghritha. 8) Vasadi ghritha. 9) Patoladya ghritha 11) Purana ghritha 12) ksheeri Sarpi 13) Lagusutha sekara 10) Triphala ghritha 11) Chandanasav 16) usheerasay 13 Mariata Sekara 70) Triphala yılında (7) Sana yılında (12) ksheeri Sarpi 13) Lagusutha sekara (10) Chandanadi Vati 15) Chandanasav 16) usheerasav 17) Muktha, Pravala, ras. 146 Kaphardak, makshika, Vykranth bhasha and 17) Muktha, Pravala, ras. 14) Charidanadi vadi 13) Onandanasav 16) usheerasav 17) Muktha, Pravala, ras. 14) Charidak, makshika, Vykranth. bhasma and pisti. 18) Tandulodak + shankha, Карпагоак, шакsпіка, Vykranth. bhasma and pisti. 18) Tandulodak + shankha, Kapnaroak, chandan, usheera, yastimadu, kamala, Uthphala pundareeka, Mishri 19) Draksha, chandan, usheera, yastimadu, kamala, Uthphala pundareeka, Vasa, parpataka, dhanyaka, ghritha, mishri etc., 20) Sheeta veerya, Brumhana, Raktha stambana and shaman drugs should be give.

#### 5) SANNIPATHAJ SHIRAH SHOOLA.

All the mixed signs and symptoms of Tridosha present.

1) Tridosha hara Chikitsa 2) Oral intake of purana ghritha Or Triphala Ghritha.

3) Nasya yoga.
1) Hot milk + Shunthi 2) Jeevakadi - Shatahvadi Taila 3) Madan Phala, shigru beeja, Kusta, Tila, jatamamsi, Tutta etc., drugs 4) Karanja, Shunthi, Shigrubeeja, vacha, milk and sugar.

4) Lepa (Luke warm applications) with,

1) Swetha chandana, karpoora, sariba, priyang, haridra, shunthi and Old rice.2) Priyang, Ananthmool, Nishotha, Shunthi, Chandan.3) Kusta, shunthi, Yastimadu, Shatapushpi, kamal, Pippali.

#### 6) KSHAYAJA SHIRO ROGA (SHIRAH SHOOLA )

The Kapha dosha, Raktha dosha and Vasa get reduced (kshayam), head is injured and produces a terrific complicated headache known as Kshayaja

The disease aggravates by sweda (Sudation), Vaman ( Emesis), Nasya, Rakthamokshan (Blood letting process) and Dhoompana (medicated smoking) why because all these are shodhan karma cause depletion of dosha and dhathu, allready there is dhathu kshaya in this disease, so only all the above pancha karma therapies are contra indicated.

According to Charak:

According to Charak:

Vata pitta kapha doshas are depleted and cause derangement of the normal func. vata pitta kapria uushas are ueprotee and uause del tions of Shiras, so only produces terrific headache.

The common symptoms are, headache, bodypains, vertigo, lightness in the head and body, general debility and unconsciousness.

Treatment:1) Brumhana Chikitsa. 2) Oral intake of ghee and milk. 3) Oral administration of Ashwagandadi ghritha, vasaghritha, Pancha tikta Ghritha, Brahmi ghritha, Ghee +

Guda or sharkara. 4) Brumhana or shamana Nasya with Ksheeri Sarpi, Vidarigandhadi, uthphaladi,

Kakolyadi gnritna. 5) Kshayaja Kasa - kshaya (raja yakshma) treatment should be give.

6) Oral remedies : -

6) Oral remedies: 
Muktha bhasma, pravala bhasma, Vajra bhasma, Vykranth bhasma,
Makshika bhasma, Godanthi bhasma, Abraka bhasma, Vasanth Malathi ras, макяліка влавіна, обранін влавіна, люкама влавіна, vasantn Malathi ras, Vasantha Kusumakar ras, Ekangaveeras, Swarna and maha Lakshmi Vilas ras, shilajith, Arogyavardiniras and other Rasayan yogas should be give.

Churna -Ghritha - Avalehya Aasava Arista etc : -

Ashwagandha Churna, shatavari Churna, Vidarikand Churna, Chopacheenyadi Churna, Amrutha Satwa, Kapikacchu Churna, Yastimadu Churna Triphala Churna etc. Neurotic drugs; Vasavalehya Ashagandhava lehya, Herakaprash, chyavanaprash Avalehya; Draksha Khajura etc., mantha; Vasa Patola Ashwagandhadi etc ghritas; usheera Chandana Dhanyaka etc. Sheeta kashaya; Ashwagandharista, Balarista, Rasnadi guath etc. will correct the debilitative factors and promote immunity to the body.

#### 7) KRIMIJA SHIRO ROGA

A person who is habitated to take the food which is uncompatible, indigested undigested, excessive, un hygienic, sweety, sticky, like Tila Guda dadhi Oleus substances etc, causes tridosha vitiation. The vitiated Tridosha produce Krimi in the shiras and causes terrific headache by eroding the soft tissue flesh and blood of shiras.

Sushrutha ;- A person experiences pricking and cutting type of pain in the head and also experiences that Krimi is eroding or eating the brain tissue. The associated symptoms are nasal blood stained discharge and discomfort.

Vagbhata: Tridosha vitiate and produces the krimi in the shiras that destructs the flesh, sort uses the flesh, sort uses the flesh, sort uses the flesh, sort uses are Manovibrama (confusion state) Fever, cough, general debilated symplomes of body, cutting pricking throbbing burning type of pain, ity, on constant at head palate and the scale. itching stained nasal discharge etc.

#### Treatment :-

1) Krimi hara chikitsa 2) Nasya with blood, the Krimi get unconscious and come out through nose, by special techniques Krimi should be removed. 3) Rechan Come out all 3 | Yidangadi Taila (Vidanga, Sarjaras, Danthi, Hing, gomutra and tila Nasya www. And Nasya Ksheera 4) Dhoopan with Krimighna drugs, dried Fish etc., 5) Raktha Mokshana is contra indicated.

#### 8) SURYAAVARTHA OR BHAASKARAAVARTHA RYAAVAR I IIA OI BIIAAONARAAVA (FRONTAL SINUSITIS - MIGRAINE)

It is a special type of headache (Shirah shoola) that changes according to It is a special type of neadache is directly proportionate to the intensity of the sun rays, The headache is directly proportionate to the intensity of the sun rays, The headache is the intensity of the sun rays, The headache is the intensity of the sun rays, The headache is the intensity of the sun rays, The headache is the intensity of the sun rays. the intensity of the sun rays, The Headache is already a popularitate to the intensity of the sun rays so only named as Suryaavartha. The headache starts in the sity of the sun rays so only named as further in the sity of the sun rays so only named as further in the sity of the sun rays so only named as further in the sity of the sun rays so only named as further in the sun rays so only named as Suryaavartha. The headache starts in the sity of the sun rays so only named a noon (miximum at noon or mid day) then gradually increases upto noon (miximum at noon or mid day) then gradually increases upto noon (miximum at night). The pain is experienced morning, gradually increases upto right (minimum at night). The pain is experienced more at ally decreases upto night (minimum at night). The pain is experienced more at ally decreases upto night (minimum at night). ally decreases upto night (milliminaria mgm). The plant is experienced more Eye, root of the nose (bhru), Temporal (Shankha) and frontal region (Lalata). Sushrutha explained it as Tridoshaja disease.

- Vagbhata and madhava charya explained it as pitta predominent, Vata Associated, Tridoshaja diseases (it subsides naturally). 2)
- Charaka explained it as due to the suppression of natural urges. indigestion etc., causes Vata and Raktha doshas vitiate, affects the Mastulunga and causes the disease.
- Videha explained "Suryaavartha Viparyaya" in which symptoms are same as suryavartha but it is Vata predominent, pitta associated sannipataj disease.
- The Author of Gadanigrah explained the "Dwandaja suryavartha" in which the symptoms are opposite to suryaavartha (Pain maxi mum at night and minimum at day time)

#### Description :-

- The sevicrity of the disease reduces some times with hot therapy and some times with cool therapy, this indicates the vata and pitta predominence in
- The seviority of the disease should be judged according to the pitta dosha, at night due to pitta shaman pain is reducing and at day time due to pitta prakopa

Note: - Avapeedan Nasya with Shireesha moola, pippali moola, vacha etc., drugs reducing the disease though the medicines are pitta kara why because the drugs are effective not according to dosha karma But according to prabhava (Vyadhi Prathyaaneeka.).

At night pain is reducing why because the aggravated Kapha not accumulating due to widely opened srotas but at day time due to narrow - Closed srotas Kapha is accumulating and obstructing the channels, so only pain is aggravating (Contraversial description).

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# 4). According to Charak.

The pain is aggravating in day time due to the vitiation of Rakta, Vata and The pain is sage and the pain is reducing at night due to solidification of Mastulunga and the pain is reducing at night due to solidification of liquification of liquidiana. iquilitors mastulunga. Explaination of the Aetio pathology of the disease according to dosha is

very difficult.

A) Treatment Principles :-

A) Treatment 1. Tridosha hara chikitsa (especially pitta - vata hara chikitsa) 2) Oral in-1. Tridosha hara chikitsa (especially pitta - vata hara chikitsa) 2) Oral in-1. Tridosha hara chikitsa) 3) Oral administration of Ghritha after meals. 4) Meals with take of Ghee + Guda. 5) Oral administration of Ghritha after meals. 4) Meals with milk or milk products. 5) Meals with the Jangala Mamsa rasa. 6) Shiro Vasti with milk or milk productions and in the bangala Mamsa rasa. 6) Shiro Vasti with chattur Snehas sarpi (ghee), Taila (Oil), Vasa (Fat,) Majja (bone marrow). 7) Lepa chatture in the chatture of the chathur Silestions), 8) Seka with ghee or milk, 9) Kayalgrah (medicated gargles) (Logal applications), 8) Seka with ghee or milk, 9) Kayalgrah (medicated gargles) (Logal application therapov) 11) Vaeti (modicated gargles) (Local application for Joseph Manus (Local application therapy) 11). Virechan (Purgation therapy) 11). Vasti. (medicated enema) 12) Shiro Virechan. 10) Virechan. (Inasya) 13) Upanaha sweda with jangata Mamsa. (Hot applications) 14) Raktha (nasya) 13) Upanaha sweda with jangata Mamsa. (Hot applications) 14) Raktha Mokshan, (Blood letting process)

B) Nasya yogas for Suryaavartha

1) Ksheeri sarpi (Ghee prepared from milk) 2). Brungaraj swarsa + goat's milk. 3) apamarga swarasa 4) Shireesha moola, pippalimoola, vacha, Avapeadan Nasya 5) Jeevaneeya Ghritha Nasya. 6) Katphala churna pradamanNasya. 7) Vacha + Pippali 8) Yastimadu + Honey. 9) Manahshila +Water. 10) Chandan + Honey. 11) Shireesha beeja + Moolak beeja + water . 12) Vamshi beeja + Moolak beeja + Karpoora.13) Inhalation of gas releasing from Navasagar + Sudha churna. 14) Masha Moola, swetha aparajitha moola, Gunja moola, Shireesha beeja and moola, Rasona Swarasa, Chakramarda beeja, Tulasi beeja Trikatu - Separately Or mixed can be used as nasya 15) Dashamoola kashaya + Saindhava Lavana.

16) Sita (sharkara) + madhanphala churna + cow milk. etc. are used as Nasya in suryaavartha.

C) Lepas (External applications)

1) Suryamukhee beeja + Suryamukhee Swarasa. 2) sarivadi Lepa (Sariva,) uthphala, Kusta, Yastimadhu, Should be grinded with Kanji and applied to the shiras, 3) Tila + milk.

D) Rasaushadhies (oral remedies)

1) Suryavarthiras 2) Danthi bhasma 1 gram. + Praval bhasma 125 mg with ghee. 3) Shira shooladri Vajra ras tablets. 4) Guggulu Preparations. 5) Chandanadi Vati

6) Godanthi Bhasma+ spatica bhasma, equally.

7) Vata roga hara yogas like Vata Vidwamsini etc., 8) Strength, promoting medicines like Ashwagandha, Shatavari, Vidarikand, Bala , Yastimadu, draksha, mukta,

Pravala, Guduchi etc.

Pravala, Guduchi etc. present existing science.

#### 9) ANANTHA VATA

# 9) ANALYLIA VAIG (Trigeminal neuralgia - sinusitis - Referred headache etc.)

(Trigeminal includes in which tridoshas vitiate the manya or Greeva parshwalt is a disease in which tridoshas vitiate the manya or Greeva parshwalt is a disease in the party of pack) (due to excessive weening It is a disease in which muosilas vitale and many of cheeva parshwa (The two nadies on either sides of neck) (due to excessive weeping, anger (The two nadies on either sides of raking less food etc., Causes) and pro-Rough and cool items eating, fasting or taking less food etc., Causes) and pro-Rough and cool items at the back of the neck, in the evehall in the Rough and cool items eating, rashing lost look, dauses) and pro-duces severe untolerable pain at the back of the neck, in the eyeball, in the frontal duces severe untolerable pain at the back of the neck, in the eyeball, in the frontal duces severe untolerable pain at the back of the frontal degree untolerable pain at the back of the frontal region (shankha). It also region (Lalata), root of the nose (Bhru) and in temporal region (shankha). It also region (Lalata), root of the nose (office) and in comparative good (Ganda causes lockjaw (hanugraha), Eye diseases and shivering of Jaws (Ganda

Paarshwa Kampa).

Note: - Some authors not mentioned this disease in shiro rogas for having simi-Note: - Some aumors not mentioned this disease. But by the following explanalarity with anyathovata of sarvaggatha netra disease. But by the following explanation it is clear that they are different not one. Anyathovata

1. Netra roga

3. Vataj disease.

2. Eye problem is the main symptom.

4. Common symptoms are vitiation

of manya and pain rediating

5. These symptoms are absent

6. Vata hara, Netra Brumhana

Treatment should be given.

to Temporal and orbital region.

#### Anantha Vata

- 1. Shiro Roga
- 2. Headache is the main symptom
- 3. Tridoshaj disease
- 4. Common symptoms are vitiation of manya and pain radiating to temporal & Orbital region.
- 5. Additional Lesions are Lockjaw, Shivering of jaws.
- 6. Tridosha hara, Suryavartha Treatment should be given.

#### Treatment Principles:

1) Like Suryaavartha, 2) Tridosha hara Chikitsa, especially Vata and Pitta dosha chikitsa. 3) Meals with milk, Ghee and its products. 4) Oral administration of Ghee after meals. 5) Upanaha Sweda (Hot applications) 6) Snehika dhooma pana (medicated smoking) 7) Mrudu Virechana (Light Purgation) 8) Sneha Vasti (Anuvasan Vasti). 9) Shiro Vasti (Keeping of Oleus substances on head by special procedure). 10) Raktha mokshan (Blood letting process). 11) Lepa (External Applications). 12) Periseka- (Pouring medicated Warm liquids). 13) Gandoosha (Gargling with medicated liquids). 14) Snehan Nasya. (Nasal drops) 15) Anjan (application of collirium) 16) Daha Karma. (Cauterisation) 17) Oral intake of sweets, Oleus substances and nutritive food

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Nasya Yogas for Anantha Vata:-1) Snehan Nasya 2) Ksheeri Sarpi (Ghee prepared from milk) 3) 1) Snehan Nasya 2) Ksheeri Sarpi (Ghee prepared from milk) 3) 1) Sheeri (Gheeri Sheeri S Dhanwantari (ali 4) i Soliceta bala taila 5) Sha Dhanwantari (ali 4) Shunti + Aja Ksheera Jeevaneeya ghritha 8) Shunti + Aja Ksheera

Anjana yogas:B) Anjana yogas:B) Chandrodaya Varthi 2) Nagarjuna Varthi
1) Chandyogas (External Applications)
C Lepa yogas (External Applications)
C Lepa yo haridradi Lepam

p) Oral neineales .p) Shira Shoooladri Vajra ras. 2) Ekaanga veer ras 3) Sudhanidhi ras, 4) Godanthi
1) Shira Shotica bhasma (equally) 5) Guggulu preparations 6) Sapthamruta
2) Vata Vidwamsini Ras etc., Vatahar Aushadas 9) Roussa shiriba 3) Taylada Bhasma + Spatica phasma (equally) 5) Guggulu preparations 6) Sapthamruta loha. 7) Vata Vidwamsini Ras etc., Vatahar Aushadas 8) mayura ghritha 9) Triphala loha. 7) Vatodaya ghritha 11) Pathyadi quath 12) Maha Rasnadi quath 13) ghritha 10) Patoladya ghritha 11) Pathyadi quath 12) Maha Rasnadi quath 13) Neurotic drugs like Ashwagandha shatavari Yastimadu Bala Rasna Kapikacchu Neurotic Devadaru Nirqundi etc.. drug preparations can be situa Neurotic urugo inica na pasalata di matayan Tasiiniadu Bala Hasha Vidarikand Devadaru Nirgundi etc., drug preparations can be given. Vidarikand Devadaru Ringunur etc., drug preparations can be given.

Note:-It can be corlated to Trigeminal neuralgia, referred head ache upto some

#### Arthaavabhedak (Migraine)

It is termed as Half head ache by the common public, it is a severe interrupted head ache, teases once in 3-5-10-15 or 30 days.

rupteo nead acre, 150000 cito in 150 in 50 uays. 1) According to charak and Madhavacharya, it is Vataj or Vata Kaphaj disease.

2) According to sushrutha It is Tridoshaj disease.

2) According to Sacrifacia the Indexing disease.
3) According ot vagbhata- It is vataj disease (in Vataj shira shoola head ache is wide spread in the head but in Arthavabhedak it is only in the half part of the head)

#### Aetiological factors and Symptoms-According to Charak.

Suppression of Natural Urges, indulging more exercise and sex, excessive in take of dry rough food. fasting, exposure to fog or cold, talking loudly irrelavantly. Due to all these causes Vata or Vata Kapha doshas vitiate, affects the shiras and produces head ache in posterio lateral aspect of head (Manya), Temporal region (Shankha), frontal region (Lalata), root of the Nose (Bhru), ear, eyeball, and finally causes blindness and deafness as a complication.

#### According to Sushrutha:-

Tridoshas vitiate, affects the half part of the head and causes different types of pain (head ache ) (pricking, cutting, stabbing, tearing, burning type) for a short duration and reccur in 3-5-10-15 -30 days (inturrupted pain), It associates Vagbhata:-He said it is a part of Vataja shira shoola.

Treatment Principles:

1) Like suryavartha. 2) Shiro abhyanga 3) Sneha pana - Oral intake of Chatur 1) Like suryavartha. 2) Shiro abhyanga 3) Sneha pana - Oral intake of Chatur sneha or 10 years Old ghee. 4) Upanaha Sweda Or Nadi Sweda. 5) Shiro Vasii 6) Virechan, 7) Nasya 8) Vasti. 9) Dhooma Pana 10) Oral intake of Milk and Ghee products. 12) Food with Jangala Mamsa rasa. 13) Pratishyaya, chikitisa 14) Shavaasan daliy 15 to 30 minutes. 15) Regular practice of Pranayaama 16) Lepa. 17) Seka 18) Raktha Mokshan 19) Agni Karma at Bhru Lalata and Shankha in Vataj and Kaphaj disorders. 20) Physical and mental rest 21) Vata - Kapha hara Chikitsa.

#### Nasya Yogas :-AVAPEEDAN NASYA WITH

1) Shireesha Moola Or Phala. 2) Vamshi moola, Karpoora + Water, 3) Vacha Pippali + water. 4) Yastimadhu + Honey, 5) Vidanga Krishnattia + Aja Ksheera. 6) Milk + Sugar. 7) Chandana, manashila + Honey, 8) Katphala churna. 9) Arka patraswarasa. 10) Yastimadu, Yava, Vacha, Pippali + Water + Honey. 11) Shireesha beeja, Apamarga moola, Bidalavan 12) girikarnee phala Or moola + Water. 13) Madhura Brumhana Ghritha. 14) Tuvareedala + Doorva Swaras. 15) Gandhaathee + Jatamamsi + Ghritha (Pakwa.) 16) Kumkum + Ghee. After shodhan daninaline + valanianis + dinina ( danina ) - ya kanina ( danina ) danina danin

5) Anu taila 6) Shatbindu taila etc.,

#### Lepa yogas - (External Applications):-

1) Sarivadi Lepam (Sariva, Neelkamal, Kusta, Yastimadu Vacha, Pippali, Kanji, Taila and ghee.) 2) Vidanga, Krishna tila + Aja Ksheera. 3) Tiladi Lepam (Tila, Jatamamsi, Saindhava Lavan, Shrunga bhasma + Honey.4) Application of Haridra Or Sariva. 5) maricha + Brungaraja Swarasa. 6) Shunti + Water.

#### II) SHANKHAKA

#### (Lateral Sinus thrombosis, Mastoid abscess, Encephalitis)

1) Charak :- Raktha, pitta and Vata doshas Vitiate and produces a painful red swelling at temporal region with severe burning sensation, it spreads very quickly like the poison, obstruct the chanels of head throat and kills the person

2) Sushrutha: - Vata predominent Tridoshas and Raktha vitiate and produces unbearable pain in the head, especially at temporal region, it is incurable and kills the person within 3 days.

3) Vagbhata: Pitta Predominent tridoshas and Raktha vitiate and produces a Terrific Painful swelling at temporal region, associated with burning sensation fever thirst vertigo yellowish face, bitter taste of mouth, with irrelavant talking and kills the person within 3 days.

A) Madhava Kara: - It is due to the vitiation of Raktha, pitta and Vata. doshas.

- Raktha predominent, pitta and Vata associated. Charak :-
- Sushrutha:- Vata predominent, pitta Kapha and Raktha associated.
- Pitta predominent; Vata kapha and Rakta associated. Vagbhata:-
- Madhava Kara: Raktha predominent, pitta and Vata associated.

All the people accepted it as a terrific disease that kills the person within 3 days.

#### Treatment Principle :-

It is incurable but can try like suryavartha. 2) Oral intake of Ghee and milk products. 3) Oral intake of ghee and milk after meals. 4) Food with Jangala mamsa rasa 5) Ushna Sweda is not advisable. 6) Sira Vyadana at (Shankha) temporal region. 7) Local applications as follows.

a) Shatavari, Tila, Yastimadu, Neelothphala, Doorva, punarnava with Kanji Or milk. b) Vidarigandhadi Or Kakolyadi Or uthphaladi Lepa Or seka. C) Daru haridra, Manjista, Nimba Twak, Ushera, Padmaka. d) Sariba, Nishotha, Priyang, Sarpagandha, with Kanji, e) Bala Moola, Neela Kamal, Dhoorva, Krishna tila, Punarnava with Water. f) Ksheeri Vruksha Lepam.

Avapeedan Nasya those explained in Suryaavartha. 1)

2) Girikarna Moola or phala Swarasa nasya.

#### SHIRO KAMPAM

It is explained by vagbhata in shiro roga. Vata Predominent. Tridoshas vitiate and produces (Kampam) shivering in the shiras, is known as shiro Kampa.

Treatment :- Like Vataj Shiro Roga.

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ADDITIONAL 9 DISEASES OF VAGBHATA (KAPAALA ROGA).

Upasheershak.
 During the pregnancy a painless, same coloured Oedema Or cyst develouring the pregnancy a painless, same coloured Oedema Or cyst developing the pregnancy a painless, same coloured Oedema Or cyst developing the pregnant mother).

 Upasheershak. (Vata vidates due to Midyaahaara vihara of the pregnant mother).

eershaka. (read to 1) Cephal haematoma (effusion of the blood be-It can be co-related to 1) Cephal haematoma (effusion of the blood between the skull and perforanium in the vertex presentation, during delivary, gives rise to soft fluctuant turnour on the parietal bone or occiput) 2) Caput succedenum (Dedema due to compression of superficial vessis during delivary) 3) Hydro (Dedema due to compression pressure gives abnormal big head.) cephally (increased intra cranial pressure gives abnormal big head.) Among these 3 diseases No. 1-2 doesn't need any treatment they resolute naturally inshort time but No. 3 want specific treatment.

Treatment :-

1)

In Non suppurative stage (apakwa grandhi).
Treatment should be given like Vata Vyadhi.
Abhyanga- Gentle massage with medicated Oils etc.

Upanaha Sweda- application of the warm paste of the medicines for light Fomentation effect.

Ex:- 1. Warm paste of Yava-Gudhuma-Mudga+Ghee.

Warm paste of Panchavalkala should be applied to the lesion.

Luke warm Dasha moola quath + Ghee should be poured on the affected area from 2 to 4 inches height.

3) Bandana:-

Tight compression bandage.

Symptomatic treatment like analgesics, anit inflammatory and Antibiotic drugs.

If cyst is infected due to contageous infections, the cyst may suppurate (Pakwa grandhi) with pus collection. Bhedhana puyanirharan and Vrana 5) chikitsa should be done (incision Drainage and wound healing therapy). suppuration of this cyst is uncommon.

2) Shiro Grandhi Or Pitica (Cyst)

It is of 5 tyes 1) Vataj 2) Pittaj 3) Kaphaj 4) Siraja 5) Medoja Grandhi.

3) Shiro Vidradi (Abscess)

It is of 6 types 1) Vataj 2) Pittaj 3) Kaphaj 4) Tridoshaj 5) Kshataja 6) Raktai Vidradi.

4) Shiro Arbuda (Tumours)

It is of 6 types 1) Vataj 2) Pittaj 3) Kaphaj 4) Raktaj 5) Mamsaja 6) Medoja Arbuda.

Note: The aetiology - Pathology - Clinical features and Treatment of Shiro grandhi, Shiro Vidradi and Shiro arbuda is like Shareeraja grandhi arbuda and Vidradi.

5) AROOMSHIKA

Multiple exudative small cysts arise on the scalp by the vitiation of pitta, Raktha dosha and Krimi, it is an irritative disease, discharges yellowish foul sticky secretion, produces inflammatory skin lessions and hair loss.

Treatment Principles :-Treatment Filliopper

Treatment Filliopper coction of Number of Patola patra, Nimba patra and Haridra. 5) Application of the paste of Patola patra, Nimba patra and Haridra. 5) Application of paste prepared with Gomutra, Pinyaka and Kukkuta puressha. 6) Application of Paste property of Charles and Cowder of Kusta + Taila. 7) Application of the condition Paste prepared of Kusta + Taila. 7) Application of the paste of Khadhira nimba. the Fried power or Nasa T laud. /) Application of the paste of Khadhira nimba and Jambu. 8) Application of Jathyadi Tailam. 9) Application of the paste of and Jambus Kasar. Asmalaki + Vasting of the paste of and Jambus Kasar. and Jampu. 6) Oppnession of oathydol (allam. 9) Application of the paste of Neelothphala Kesar, Aamalaki + Yastimadu.10) Application of Triphaladi Taila (Triphala, Yastimadu Brungaraj, uthphala,, sariba, saindhavalavana, Taila).11) (Triphaia, Jacobson With varnan virechan etc., 12) Shiro shodhan with Nasya. Shareer shodhan with varnan virechan etc., 12) Shiro shodhan with Nasya.

6) DARUNAKA

The Vitiated vata and Kapha doshas deranges the skin of the scalp and changes it into dry rough with severe itching sensation and pain. The dried skin of the scalp fall in small pieces, causes loss of sensitivity and hair loss.

Treatment Principles :-

Prakshalana - Seka-Lepa-Abhyanga-Shirovasti Nasya and Rakthamokshana. Praksnalaria to the head with warm water and allow it to dry properly. 2) Raktha mokshan at frontal region. 3) Shiro abhyanga-Oil application to head to bring the Oleusness in the scalp. 4) Shiro Vasti with Vata Kapha hara sneha 5) Local application of the Paste of Priyala beeja, Yastimadu, Kusta, Masha Sarshapa and Honey. 6) Seka Or pariseka (pouring of Medicine) with the solution of the Kshara Prepared with Kodrava and Truna. 7) Application of the paste of Taila, Khas Khas Beeja + Milk, to the scalp. 8) Application of the paste of Kantakari phala ras Or japa Pushpa rasa + Taila to the scalp. 9) Application of the medicated oil prepared with Brungaraj swarara + Loha Kitta + Triphala + Sariba + Taila, to the scalp. 10) Nasya Karma with Brungaraj taila etc.

7) INDRALUPTHA

1) Madhavakara explained the Indraluptha, Khalithya, and Ruhya as synonyms. 2) According to Kartheeka, if hair of scalp fall down known as Khalithya, hair of the body fall down known as ruhya and hair of mushtaches fall down known as Indraluptha. 3) But vagbhata explained that sudden fall of hair is Known as Indralupta and gradual fall of hair is Known as khalithya. 4) vagbhata said that Indraluptha is also called as chacha. 5) Madhava Kara said that Khalithya Or Indralupta doesn't occur in ladies because the the vitiation of the blood is corrected by menstruation in every month. So only If hair fall down that grows without any obstructing lesions. 29

INDRALUPTHA:

The Vitiated Vata and Pitta affects the hair roots and causes loss of hair,

The Vitiated Vata and Faktha obstructs the hair roots, so there is no chance
then the vitiated Kapha and Faktha obstructs the pair roots, by the proper treatment
for the regrowth of hair (if hair roots are partially closed, by the proper treatment
tor the regrowth of hair).

ment Principles:

Sira yadan at the nearer site and application of the paste of Kaseesa Manashila Tutta and maricha Or pippali to the head. Treatment Principles :

Application of Brungaraja taila. Application of the paste of Bruhatiphala + Gunja moola.

Black cow urine + Japa pushpa, Brungaraj swarasa + Taila (Pakwa)

root and fruit of Gunja. Langali root + Milk.

Karaveera Patra Swarasa.

6) 7) 8) 9) Kantakari Swarasa + Honey.

Dathura Patra Swrasa with Honey Or Ghee.
Bhallatak ras with Honey Or Ghee. 10)

Tila pushpa, gokshura with Honey Or Ghee.

12) Hastidantha Masi + Taila (Tila Taila)

14) Upto the completion of the treatment bathing is not advised (Water contact aggravates the vitiation).

#### 8) KHALITHYA OR KHALATHI

Aetiology and pathology of khalithya is like Indraluptha. i.e. Vata and pitta causes hairfall, kapha and Raktha obstructs the hair roots so No chances of regrowth of Hair But in Khalithya hairfall is gradual Or Slow, Not sudden as in Indraluptha.

- If Vata dosha vitiation is predominent, the Skin of the scalp becomes thicker like the scar of burns. (Dagha charma).
- 2) If pitta dosha vitiation is predominent, in the the Skin of the scalp is with venous congestion and sweating.
- 3) If Kapha dosha vitiation is predominent the Skin of the scalp be comes
- If Tridoshas vitiates all the symptoms appears (If the scalp Skin is like the nail, burnt scar and with tridosha vitiation it is said as asadya.).

ing principles.

1) Mukha and shiro Abhyanga. 2) Shodhan therapy - Vaman Virechan and Nasya etc., 3) Oral intake of milk daily. 4) Avoiding of Sex (Brahmacharya) 5) Local application of the paste of Jatamamsi, Kusta Tila Krishna Sariva, Neelothphala + Cow Milk + Honey. 6) Nasya Karma with nimba taila for a month. 7) Nasya with Bruhatyadigana taila Or jeevaneeyagana taila for a month. 8) Laghungalchamoladi taila nasya for a month. 7) Nasya with Brunatyadigana taila Or jeevaneeyagana taila for a month. 8) Laghu parchamoladi taila nasya for a month.
panchamoladi taila nasya for a month.
note: Falling of the hair, occur due to so many aetiological factors but exact cause is obscure.
cause is obscure.
1) Genetic factors 2) emotional factors. 3) Mental Worries. 4) Chronic head ache.
2) genetising regular head massage with nutrient oils 6) Becaused hard hard.

changes in the separations sected in sor scalp. 8) Skin lesions of scalp (connective tissue disorders). 9) Unhygienic conditions of scalp. 10) Irritative inflammatory lesions of scalp. 11) Fungus infective lesions of scalp. 12) Ulcerative lesions of scalp. 12 Ulcerative lesions of scalp. 13 Ulcerative lesions of scalp. 14 Ulcerative lesions of scalp. 15 Ulcerative lesions of scalp. 15 Ulcerative lesions of scalp. 15 Ulcerative lesions of scalp. 16 Ulcerative lesions of scalp. 16 Ulcerative lesions of scalp. 19 Ulcerative lesions of scal tory lesions of occupantly and inneurve resions of scalp. 12) Ulcerative lesions of scalp by alcolles, acids, injuries, contagious infections, burns, drug toxicity, of scale by the scale chronic discourses. of scalp by alcoholo, acids, injuries, contagious intections, burns, allergic disorders and chronic diseases etc., causes the hair loss.

#### 9) PHALITHA OR PHALITHYA

Depigmentation of the hair occuring due to physical strain, mental strain, exessive anger, weeping etc., the over heat is produced in the body that propogates exessive angle, and along with vitiated pittat dosha, affects the hair roots and causes the disease, known as phalitha, 1) In Vata predominence hair becomes rough dry brittle and brownish, 2) In pitta predominence hair becomes Yellowish with burning sensation, 3) In Kapha predominence hair becomes whitish Oily thicker and Lengthy, 4) In Tridoshaja vitiation all the above symptoms togetherly present and it is said as Asadya.

- Note:-1) Phalitha If occurs due to headache contain tendernes of the scalp,
  - 2) Phalitha if occurs due to Old age, is Yapya and need Rasayana Therapy.
  - 3) Tridoshaja Phalitha is said as Asadya.

#### Phalitha Chikitsa :-

1) sannipathaj Phalitha is Asadya. 2) Phalitha of Old age is Yapya. 3) Shiro Abhyanaga (Oil applications) 4) Shiro lepa (Medicine application) 5) Shodhan Karma (Vaman Virechan-Nasya). 6) Oral intake of Cow Milk, 7) Avoiding of Sex (Brahmacharya) etc are benificial.

#### Nasya Togas : -

1) Bruhatyadi Jeevaneeya taila nasya. 2) Nimba taila nasya for a month. 3) Prapoundareekadi taila nasya. (Medicated oil prepared with Amalaki, Tila taila, prapoundareeka, Yastimadu pippali, chandana, Neelothphala, Taila, has to prepare according to taila paka vidhi) 4) Shatavaryadi taila Nasya. (medicated oil prepared from Shatavari, Jeevanthi decoctions, cow milk, yamaka sneha, Jeevaneeya Kalka - taila). 5) Neelinyadi taila nasya.

6) Ksheeradi taila Nasya. (medicated oil prepared from cow milk, sahachara, Brungaraja, Tulasi swarasa, tila taila and Yastimadu taila.) 7) Mundee taila for oral brungaraja, Tulasi swarasa, tila taila and Satishindu ghritha nasya. (medicated and for nasya. 8) Mayuradi ghritha nasya. 9) Shatbindu ghritha nasya. 1) Mayuradi ghritha nasya. 1) Mayuradi ghritha prepared from yastimadhu, Vidanga, shunti, bringaraj, madhuka and ghritha.)

ghritha.)

B) External applications (Lepa).

1) Haridra, daruharidra + Navaneetha. 2) Neelothphala, Tila, Yastimadu, sarshapa, 1) Haridra, daruharidra + Navaneetha. 2) Neelothphala, Tila, Yastimadu, sarshapa, angakesar, and Aamalaki. 3) Aja Shrunga masi + Tila taila. 4) Karpasa beeja nagakesar, and Aamalaki. 3) Aja Shrunga masi + Tila taila. 4) Priyaladi Lepam, majja + Arka ksheera. 5) Dugdika, Karaveera + Cow Milk, 6) Priyaladi, (Priyala, Yastimadu, Jeevaneeya dravya, tila taila and Cow milk) 7) Tila, Amalaki, (Priyala, Yastimadu, Henoy. 8) Jatamamsadi Lepam. (Jatamamsi, Kusta, Padmakinjalka, Yastimadu + Honey. 8) Jatamamsadi Lepam. (Jatamamsi, Kusta, Krishna Sariba, Neelothphala + Cow Milk + Honey.) 9) Aayushchumadi Jepam (Joha Churma, Brungaraja, Triphala, Krishna Mruttika, ikshurasa - should Jepam (Joha Churma, Brungaraja, Triphala, Krishna Mruttika, ikshurasa - should Jepam (Joha Churma, Brungaraja, Triphala, Krishna Mruttika, ikshurasa - should Jepam (Joha Churma, Brungaraja, Triphala, Krishna Mruttika, ikshurasa - should Jepam (Joha Churma, Brungaraja, Tiphala, Krishna Mruttika, ikshurasa - should Jepam (Joha Churma, Brungaraja, Tiphala, Krishna Mruttika, ikshurasa - should Jepam (Joha Churma, Brungaraja, Tiphala, Krishna Mruttika, ikshurasa - should Jepam (Joha Churma, Brungaraja, Tiphala, Krishna Mruttika, ikshurasa - should Jepam (Joha Churma, Brungaraja, Tiphala, Krishna Mruttika, ikshurasa - should Jepam (Joha Churma, Brungaraja, Tiphala, Krishna Mruttika, ikshurasa - should Jepam (Joha Churma, Brungaraja, Tiphala, Krishna Mruttika, ikshurasa - should Jepam (Joha Churma, Brungaraja, Tiphala, Krishna Mruttika, ikshurasa - should Jepam (Joha Churma, Brungaraja, Tiphala, Krishna Mruttika, ikshurasa - should Jepam (Joha Churma, Brungaraja, Tiphala, Krishna Mruttika, ikshurasa - should Jepam (Joha Churma, Brungaraja, Tiphala, Krishna Mruttika, ikshurasa - should Jepam (Joha Churma, Brungaraja, Tiphala, Krishna Mruttika, Ikshurasa - should Jepam (Joha Churma, Joha Churma, Joha Churma, Joha Churma, Joha Ch

C) Ghritha yogas:Mayuradya ghritha, maha mayuradya ghritha etc., can be used for oral administration, massage, vasti and Nasya.

#### HEAD ACHE

Head ache is a term commonly used for "Pain felt anywhere in the head". It is observed as a symptom in most of the diseases. The signs, symptoms, nature, seviority, duration and prognosis of the diseases etc., depends upon the aetiological factors and affected part. Some of the factors responsible for producing headache are hereunder.

1) Referred pain 2) Extra cranial Lesions. 3) Cranial neuralgias 4) Meningeal irritation. 5) Vascular changes 6) Traction and distortion, of the intra Cranial structures. 7) Psychogenic 8) Headache in association with other, systemic diseases.

#### I) Reffered Head Ache :-

Pain in the head experienced because of the lesions of peripheral structures like ear, nose, paranasal sinuses, teeth, tonsils etc.,

#### a) Head Ache in Frontal Area Of the Head :-

Frontal head ache Occurs in glaucoma, iritis, frontal and maxillary sinusitis (behind the eyes in ethmoidal sinusitis) Chronic Rhinitis, ice cream head ache due to Cold stimulus to palate, in Temparo mandibular joint lesion (Facial neuraliga) and in the the involvement of ophthalmic branch of Trigeminal nerve in Trigeminal B) HEADACHE IN OCCIPITAL AREA OF THE HEAD

In cervical spondylosis, sphenoidal sinusitis (to the vertex also pain radiales), in refractive errors with high lesions, Meningitis, encephalitis and in subappoid haemorrhages. ates), ill remactive errors arachnoid haemorrhages.

#### C) HEAD ACHE IN TEMPORAL AREA OF THE HEAD.

In cranial, vascular, dental and Aural lesions

#### D) IN QUINSY (PERITONSILAR ABSCESS )

Hemicranial headache occurs.

2) Head Ache Due to extra Cranial Lesions. :-Spastic Contractions of neck and scalp muscles.

# 3) Head Ache Due to Cranial Lessions.

Extordinary stimulus Or pressure exertion, Or due to un Known causes, severe head ache occurs due to the affection of 5-7-9-10 cranial nerves and cervical 1-2-3 nerves.

Trigeminal neuralgia - Paraxysmal and sharp pain confined to the distribution of 5th Cranial nerve.

Glosso pharyngeal neuralgia -Stabbing pain in pharynx and deep into the ear that aggravates by eating and swallowing.

Facial Neuralgia:-

Pain radiates to the Frontal and Temporal region by the involvement of facial nerve at temporo mandibular joint.

4) Head Ache due to Meningeal Irritation :-

Encephalitis meningitis and sub -arachnoid haemorrhage causes occipital head ache with photo phobia, drowsiness, pyrexia and neck stiffness.

5) Vascular Changes

Throbing type of head ache at temporal area due to the dilatation of intra cranial and extra cranial vessels.

Ex:- In migraine, unilateral periodic cluster head ache occurs.

#### 6) Traction on the intra cranial structures. :-

Cerebral tumours, sub dural haematoma causes increased intra cranial pressure, lumbar puncture causes decreased intra cranial pressure - these two produces severe head ache.The condition aggravates by strain, coughing and 33

- Psychogenic Head ache :-Psychogenic Head acne: Psychogenic Head ache is assoicated with anxiety and in schizophrenia like disorders head ache is assoicated with anxiety depression etc.
- 8) Head Ache In Systemic Diseases:
  1) Chronic nephritis. 2) Uraemia. 3) Hypertension. 4) Hypotension. (Iow B.P.) 5)
  1) Chronic nephritis. 2) Uraemia. 3) Hypertension. 9, Alcoholism 10) CongesPolycythemia 6) Anaemia. 7) Acidosis. 8) Alcolosis. 9) Alcoholism 10) Congespolycythemia 6) Anaemia. 7) Lead Poisoning. 13) Liver disorders. 14)
  Sun Stroke. 15) Syphilis. 16) Disorders of uterus. 17) Disorders of Testicles. 18)
  Sun Stroke. 15) Syphilis. 16) Disorders of uterus. 17) Disorders of Testicles. 18)
  Vata jand Kshayajja Kasa (Dry cough with debilitative diseases.) 19) Vata balasak
  Vataj and Kshayajja Kasa (Dry cough with debilitative diseases.) 19) Vata balasak
  jwara, 20) Vishama Jwara. 21) Antrika Jwara. 22) Masurika Jwara. 23) Peetha
  jwara. 24) Constipation. 25) Apasmara. 26) Vata Raktha. 27) Madhu meha. 28)
  Jwara. 24) Constipation. 25) Apasmara. 26) Usta Raktha pitta poorva rupa. 29) Vata roga. etc. 30) Dusta Pratishyaya etc. Head Ache In Systemic Diseases :-

#### TRIGEMINAL NEURALGIA

It is commonly observed in middle age group, the exact aetiology is obscure but it may be due to Neurological vascular muscular problems, commonly follows after chronic contageous infections, pyogenic infections, Cold wind attacks, genetic and debilitated conditions.

The pain is paroxysmal, sharp and confined to the distribution of 5th nerve. The nerve get stimulated by talking - coldwind- washing and chewing etc., First maxillary and mandibular branches affects then ophthalmic branch. Each paroxysm lasts for only few seconds, with shooting cutting burning and stabbing type of pain. The stab of the pain may be followed by a dull aching. The Pain is precipitated by touching localised trigger zones on the affected side of the face. Paroxysms continue for days or weeks. remission become shorter and less frequent as the disease progresses. On examination of 5th nerve no functional abnormal-

1) Carbamazepine 200mg tabs tid. 2) Phenytoin 100 mg. tid. 3) Clonazepam 1-2mg tid. 4) Alcohol injection into the branch of the nerve Or into Gasserian ganglian.

#### MIGRAINE

Migraine is characterised by periodic headache which is typically unilateral and offen associate with visual disturbance and vomiting. The attacks occur at intervals which vary from a few days to several months.

It is believed to be due to disturbance in the carotid Or vertebro basilar vescular tree by the sudden contraction and dilatation of the vessels. First Vaso constitution causes ischaemic symptoms and followed vaso dilatation, exerts consister on the nerve endings of vessels of intra Or extra crossist actual. vectoristriction causes isunaemic symptoms and followed vaso dilatation, exerts constriction on the nerve endings of vessels of intra Or extra cranial arteries, causes probing pain in the head. Pain may be prolonged by Secondary muscular contractions.

Most of the cases of migraine are observed with the Family history (genetic) it is stimulated Or aggravated during menstruation, exposure to flash lights, actain, anxiety, eating of Chacolate chaese and in the case of the netic) it is summanded or aggregated during menstruation, exposure to flash lights, strain, anxiety, eating of Chacolate cheese and usage of medicines like stress and usage of medicines like stress are transine etc... stress strain, anxiety, earreserpine, tyramine etc.,

The common symptoms are paraesthesiae Or weekness of One half of the body, severe throbing pain in the half part of the head (The affected side is not the body, severe understanding painting real part of the head (The affected side is not constant with each attach) With Vomiting, Photophobia, pallor, sweating and prosconstant which may necessitate the patient taking to bed in a dark oom. The attack tration which may necessitate the patient taking to bed in a dark oom. The attack tration with the few hours to several days and leaves the patient weak and exmay last from the cases hemiplegic migraine occurs.

Treatment :-

Treatment -1) Anti anxiety drugs. 2) Sleep inducing drugs. 3) pain killers. 4) Brain tonics.

#### **EXAMINATION OF HEAD (SHIRAS)**

Sushrutha explained 11 shiro rogas those contain shirashoola (Headache) as the Prime symptom, but vagbhata explained 19 diseases including the scalp and hair lesions. The lesions of scalp and hair can be easily diagnosed, but diagnosis of Head ache is not so easy for containing so many aetiological factors like

1) Disorders of scalp and Hair 2) Brain and Meninges 3) Cranial nerves 4) Intra and Extra cranial blood vessels. 5) Muscles of neck face and scalp 6) Diseases of Eye ear nose sinuses teeth and throat 7) Psycological factors. etc. So, for the proper diagnosis of head ache detailed histry of the case and complete investigations are needed

While taking histry the following points are helpful for the diagnosis.

- Size and Shape of Head :-1)
- Normal Abnormal b) Bilateral Symmetrical or not a)
- Normal Or bigger Or smaller c)

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Note: In congenital abnormalities, Hormonal disorders, the lesions in the size note:- in congenital autormanifes, and shape of the head can be noted.

Examination of the scalp.
Whether normal Or abnormal, if abnormal for the following lesions of scalp 2)

Whether institutions of scalp should be checked.
a) Wounds, b) Scars c) Dandruff d) Inflammatory lesions e) Allergic lesions f) Cysts g) Tumours h) Abscess i) Pigmentory changes of Skin of the Scalp etc.

3) Examination of the Hair.
a) Whether lengthy, thicker Or with loss of hair (Partial or Total)
b) Normal Pigmentation Or depigmentation.

Head Ache (Shira Shoola)

(A) Collection of the associated symptoms of headache

(A) Collection of the associated symptoms of necessary as a Burning sensation b) Itching sensation. c) Heavyness of head d) Nausea-Vomitings. e) Drowsiness f) Photophobia g) Neck pain h) Body pains i) Otalgia j) Eye strain K) Tinnitus l) Hypertension m) Hypotension n) Rhinitis o) Sinusitis p) Carlous teeth q) Neck stiffness r) Giddiness s) Indigestion t) Constipation u) Hyer acidity v) Dysphagia w) Gas abdomen x) Nasal Obstruction, y) Palpitation. z) Oedema of face limbs etc.,

Ex:-1) In cranial lesions associated symptoms are Drowsiness, photophobia and Neck stiffness.

2) In Refractive errors - Eye strain. is associated.

3) In Nasal lesions - Nasal Obstruction - rhinitis. etc associated.

4) In Hyper tension - Burning sensation, giddiness, pulsation of Vessels.

5) In ear disorders - Otalgia, Tinnitus. etc. assoicated.

6) In G.I.T. lesions - Gas abdomen, constipation, Hyperacidity- indigestion etc., associated.

7) Cold allergy - Heavyness of head, itching sensation etc. are associated.

Differentiation of Head Ache for Proper Diagnosis :-

The following data give idea for the diagnosis.

1) Head ache partial Or Localised Or Total

2) Fixed Or spreading.

3) Continuous Or interrupted.

4) Regular Or Irregular.

5) Site of the Pain :- Whether at Frontal region, temporal. parietal, occipital 

Seveority of head ache :-

a) Whether Mild - Moderate or severe b) In the morning - Noon or night c) In summer - Winter or Rainy season. d) Irrelavant or irregular. 6)

Pricking pain-cutting pain-tearing pain, stabbling pain or churning pain etc.,

8) Duration of Pain :-

For - seconds, minutes, hours, days weeks or months etc., For - Secondo, ministed, nours, days weeks or months etc., puration of recurrence for 3 days -5-10-15-30 days. Duration of remission of pain onderate or Long. Duration of Testander for Long.

9) Aggravating Factors :-9) Aggravating 1 action 1999 Aggravating 1 action 299 Aggravating 1 action 299 Aggravating 299 ing, Night and exposure, swallowing, at mornings, Noon or at Nights. Psydust exposure chological etc.,

10) Relieving factors :-

Naturally - seasonally - by rest, Cold therapy - Hot therapy, Oleation, sudation - Pancha Karma therapy- Drugs etc.,

11) Investigations :-

Urine In general a)

Blood for Hb%, CBP, ESR and seriological examination. b)

Stools for Ova and Microbs. c)

X ray - for Nasal sinus - Brain and ear.

CT scan of Brain & E.E.G. e)

E.C.G. and Echo.

Vision tests - Ophthalmo scopic examinations. g)

h) Audio metry

i) Rhinoscopy

j) Pharynogo scopy- Laryngo scopy.

Systemic examinations etc.



क्रांरोगों की सम्प्राप्ति और निदान

गरा'''
अवश्यायजलक्रीड़ाकर्णकण्डूयनेर्मरुत्
अवश्यायजलक्रीड़ाकर्णकण्डूयनेर्मरुत्
भिष्यायोगेन शस्त्रस्य कुपितोन्यैश्च कोपनै:॥
प्राप्य श्रोत्रशिरा: कुर्याच्छूलं स्रोतसि वेगावान्।
ते वै कर्णगता रोगा अष्टाविंशतिरीरिता:॥

(यो॰ : कर्ण)

कर्णरोगों के भेद

कर्णशूलं प्रणादश्च वाधिर्य क्ष्वेड एव च॥
कर्णस्रावः कर्णकण्डुः कर्णवर्चस्तथैव च॥
कृमिक्मंप्रतिनाहौ विद्रधिर्द्विविधस्तथा॥
कर्णपाकः पूतिकर्णस्तथैवाशंश्चतुर्विधम्॥
कार्णार्बुदं सप्तविधं शोफश्चापि चतुर्विधः।
एते कर्णगता रोगा अष्टाविंशतिरीरिताः॥

(सु. उ. 20/3,4,5)

। कर्णशूल

समीरणः श्रोत्रगतोन्यथा चरः समन्ततः शूलमतीव कर्णयोः। करोति दोषेश्च यथास्वभावृतः स कर्णशूलः कथितो दुराचरः ॥

(सु. उ. 20/6)

वातिक कर्णशूल

प्रतिश्यायजलक्रीडाकर्णकण्डूयनैर्मरुत्। मिथ्यायोगेन शब्दस्य कुपितोन्यैश्च कोपनैः॥ प्राप्य श्रोत्रसिराः कुर्याच्छूलं स्रोतिस वेगवत्। अर्धावभेदकं स्तम्भं शिशिरानिभनन्दनम्॥ चिराच्च पाकं पक्वं तु लसीकामल्पशः स्रवेत्। श्रोत्रं शून्यमकस्माच्च स्यात् संचारविचारवत्॥

(জ ह॰ उ॰ अ॰ १७)

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पित्तज कर्णशूल शूलं पितात् सदाहोषाशीतेच्छाश्वयथुज्व रम्। आशुपाकं प्रपक्वं च सपीतलसिकासुतिः॥ सा लसीका स्पृशेद् यद्यत् तत्तत्पाकमुपेति च।

(अ॰ ह॰ उ॰ अ॰ १७)

कफज कर्णशूल

कफाच्छिरोहनुग्रीवागौरवमन्दतारुजः। कण्डूश्वयथुउष्णेच्छा पाकाच्छ्वैतघनसृतिः।

(अ॰ ह॰ उ॰ अ॰ १७)

रक्तज कर्णशूल

करोति श्रवणे शूलमभिघातादिदूषितम्॥ रक्तंपित्तसमानार्ति किंचिद् वाधिकलक्षणम्।

(अ॰ ह॰ उ॰ अ॰ १७)

सन्निपातज कर्णशूल

शूलं समुदितैदोंषै: सशोफज्वरतीव्ररुक्॥ पर्यायादुष्णशीतेच्छं जायते श्रुतिजाड्यवत् पक्वं रिसतासितरक्तमनपूयप्रवाहि च॥

(अ॰ ह॰ उ॰ अ॰ १७)

2. बाधिर्य

स एव शब्दानुवहा यदा सिराः कफानुयातो व्यनुसृत्य तिष्ठति। तदा नरस्याप्रतिकारसेविनो भवेतु वाधिर्यमसंशयं खलु॥

(सु॰ उ॰ अ॰ 20/8)

श्लेष्मणानुगतो वायुर्नादो वा समुपेक्षितः। उच्चै: कृच्छृाच्छुतिं कुर्याद् विधरत्वं क्रमेण च ॥

(अ॰ ह॰ उ॰ अ॰ १७)

3. कर्णनाद

यदातु नाड़ीषु विमार्गमागतः स एव शब्दाभिवहासु तिष्ठति । श्रृणोति शब्दान् विविधांस्तदा नरः प्रणादमेनं कय्यन्ति चामयम्॥

(सु॰ उ॰ अ॰ 20)

<sub>शृद्धवाहि</sub>सिरासंस्थे श्रृणोति पवने मुहु:। <sub>नादानकस्माद् विविधान् कर्णनादं वदन्ति॥</sub>

4. कर्णक्ष्वेड

श्रमात् क्षयाद्रूक्षकषायभोजनात् समीरणः शब्दपथे प्रतिष्ठितः॥ विरिक्तशीर्षस्थं च शीतसेविनः करोति हि क्ष्वेडमतीव कर्णयोः

(सु॰ उ॰ अ॰ 20)

(अ॰ ह॰ उ॰ अ॰ १७)

5. कर्णस्राव या कर्णसंस्राव

शिरोभिघातादथवा निमज्जतो जले प्रपाकादथवापि विद्रधे:॥ स्रवेतु पूर्यं श्रवणोनिलावृतः स कर्णसंस्राव इति प्रकीर्त्तितः॥

(सु॰ उ॰ अ॰ 20)

6. कर्णकण्डू

कफेन कण्डू: प्रचितेन कर्णयो: भृशं भवत् स्रोतिस कर्णसंज्ञिते॥

(सु॰ उ॰ अ॰ 20)

7. कर्णगूथक

विशोषिते श्लेष्मणि पित्ततेजसा नृणां भवेत् स्रोतिस कर्णगूथकः॥

(सु॰ उ॰ अ॰ 20)

8. कर्ण-प्रतिनाह

सकर्णविट्को द्रवतां यदा गतो विलायितो घ्राणमुखं प्रपद्यते। तदा स कर्णप्रतिनाहसंज्ञितो भवेद् विकारः शिरसोभितापनः॥

(सु॰ उ॰ अ॰ 20/12)

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वातेन शोषितः श्लेष्मा स्रोतो लिम्पेत्ततो भवेत्। रुग्गौरवं पिधानं च स प्रितिनाहसंज्ञित: ॥ (এ০ ছ০ তত এক १७) 9. कृमिकर्ण यदातु मूर्च्छन्त्यथवापिजन्तवः सृजन्त्यपत्यान्यथवापि मक्षिकाः तदंजनत्वाच्छ्वणो निरुच्यते भिषग्भिराद्यैः कृमिकर्णको गदः॥ (सु॰ उ॰ अ॰ 20/13) वातादिदूषितं श्रोत्रं मांसासृक्क्लेदजारुजम्॥ खादन्तो जन्तवः कुर्युस्तीव्रां सकृमिकर्णकः (अ॰ ह॰ उ॰ अ॰ १७) 10,11) कर्णविद्धि क्षताभिघातप्रभवस्तु विद्रधिर्भवेत्तथा दोषकृतोपरः पुनः। सरक्त पीतारुणमस्रमास्रवेत् प्रतोदधूमायनदाहचोषवान्॥ (सु॰ उ॰ अ॰ 20/14) श्रोत्रकण्डूयनाज्जाते क्षते स्यात् पूर्वलक्षण:॥ विद्रिधः पूर्ववच्चान्यः (अ॰ ह॰ उ॰ अ॰ १७) 12. कर्णपाक भवेत् प्रपाकः खलु पित्तकोपतो विकोथविक्लेदकरश्च कर्णयो:॥ (सु॰ उ॰ अ॰ 20) 13. पूतिकर्ण स्थिते कफे स्रोतसि पित्ततेजसां विलाय्यमाने भृशसंप्रतापवान्।

(सु॰ उ॰ अ॰ 20)

अवेदनो वाप्यथवा सवेदनो घनं स्रवेत् पूति च पूतिकर्णक:

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कफो विदग्धः पित्तेन सरुजं नीरुजं त्वपि॥ घनपूर्तिबहुक्लेदं कुरुते पूरिकर्णम् (अ॰ ह॰ उ॰ अ॰ १७) 14 से 17) चत्वारि अर्शा 18 से 21) चत्वारि शोफा 22 से 28) सप्तार्बुदानिच (सु॰ उ॰ अ॰ 20) 1. कुचिकर्णक और 2. कर्णीपप्पली गर्भेनिलात् संकुचिता शष्कुली कुचिकर्णकः। एकोनीरुगनेको वा गर्भे मांसाङ्कुरः स्थिरः॥ पिप्पली पिप्पलीमानः (अ॰ ह॰ उ॰ १७) 3. विदारिका सवर्णः सरुजः स्तब्धः श्ववथुः, स उपेक्षितः॥ कटुतैलनिभं पक्वः स्रवेत् कृच्छ्रेण रोहति। संकोचयति रूढा च सा ध्रुवं कर्णशष्कुलीम्॥ (জ इ॰ उ॰ अ॰ १७) 4. पालीशोष सिरास्थः कुरुते वायुः पालीशोषं तदाह्वयम्। (জ इ॰ उ॰ अ॰ १७) 5. तन्त्रिका कृशा दृढ़ा च तन्त्रीवत् पाली वातेन तन्त्रिका ॥ (জ হু॰ उ॰ अ॰ १७) 6. परिपोट सुकुमारे चिरोतुसर्गात् सहसैव प्रवर्धिते।

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(ঞ হু॰ उ॰ अ॰ १७)

कर्णशोफः सरुक्पाल्यामरुणः परिपोटवान् ॥

परिपोटः स पवनात्

७. उत्पात

गुर्वाभरणभाराद्यै श्यावोरुग्दाहपाकवान्। श्चयथुः स्फोटपिटिकारागोषाक्लेदसंयुतः ॥

(अ॰ ह॰ उ॰ अ॰ २७)

८. उन्मन्थ

पाल्या शोफोनिलकफात्सर्वतो निर्व्यथः स्थिरः। स्तब्धः सकर्णः कण्डुमान् उन्मन्थो गल्लिरश्च सः।

(अ॰ ह॰ उ॰ अ॰ 27)

9. दुःख वर्द्धन

दुर्विद्धे वर्धिते कर्णे सकण्डुदाहपाकरुक्। श्वयथुः सन्निपातोत्थः स नाम्ना दुःखवर्धन।

(अ॰ ह॰ उ॰ अ॰ 27)

10. लेह पिटिका

कफासृक्कृमिजाः सूज्ञ्माः सकण्डूक्लेदवेदनाः। लेह्याख्याः पिटिकास्ता हि लिह्यः पालीमुपेक्षिताः।

# EAR DISEASES

KARNA SHAREERA. (Anatomy of ear According to Ayurveda)

In Ayurvedic samhitas detailed Anatomical description of ear is not available, some description is here under.

Shrotram

Indrium -1 (Invisible)

1) Karnam 2)

Indria Adhistaanam

(Visible 2 ears)

Aakasham 3)

Indria dravyam.

Shabdam (sound) 4)

Indriaartham

Shroto buddhi 5)

Indria buddhi.(Auditory centre)

Dikh

Indria Devata.

6) 2 ear are grouped under "Nava Dwara" 7)

Shravanendrium is one among "Panchendrias "

9. Karna Pali (Karna Lathika)

It is lobule of external ear, karna vyadana is done (in the diiva krutha Chidra of pali) to it.

10) Karna Peetham (Putrikopari Pradesham). It is the seat of auricle.

11) Karna Putrika (Bahya Karnaavyava) It is the auricle or pinna

12) Karna Shaskuli (karna Gatha Aavarthaka) It is the external auditory meatus.

13) Karna patah (Tympanic Membrane)

The distance between karna and apanga is 5 angula.

It is supplied by 2 damani and 10 sira.

Bahya Karna

External ear.

Madyama Karna

Middle ear

Antah Karna

Internal ear.

Shabdanadi

**Auditory Nerve** 

#### ANATOMY OF EAR

Ear is the organ of hearing and equilibrium. Anatomically it can be divided into 3 parts.

1) External ear 2) Middle ear 3) Internal ear.

# External Ear: It consists of a) Pinna (Auricle ) and b) External auditory canal.

Pinna (Auricle)
 The pinna is composed of a skin covered yellow elastic cartilage. The posterior surface is convex, smooth and with loose skin, the anterior surface is concave with folds and hollows (Csaphoid tossa superiorly and concha medially at the centre) here the skin is directly adherent to the perichondrium.

The anterior external margin of pinna is known as helix, the parallel ridge which is infront is known as anti helix, the protruding cartilage over the external auditory meatus is named as tragus, the parallel protruding cartilage at the lower end of antihelix is known as Anti tragus, at the bottom of pinna there is lobule which is devoid of cartilage and there is another part which is devoid of cartilage is at the junction of root of helix and tragus known as Incisura terminalis (formed by fibrous tissue ) it is utilised for Endaural incision for mastoid surgery

Blood Supply:

1) Anterior surface of pinna is supplied by the branches of the superficial temporal artery, 2) Posterior surface is supplied by posterior auricular artery, a branch of external carotid.

#### Nerve Supply :-

1) Upper 2/3 of Anterior surface of Pinna is supplied by auriculotemporal nerve. 2) Lower 1/3 of Anterior surface of Pinna is supplied by Greater auricular nerve.
3) Lower 2/3 of posterior surface of Pinna is supplied by Greater auricular nerve. 4) Upper 1/3 of posterior surface of Pinna is supplied by lesser occipital nerve.

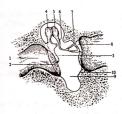
#### b) External auditory Canal:-

It is a tortuous canal, extending from bottom of concha to lateral surface of tympanic membrane (ear drum), approximately 2.4cm. (24mm) in length. The outer 1/3 (8mm area) is cartilagenous portion and inner 2/3 (16mm area) is bony portion. The direction of cartilagenous meatus is inwards upwards and backwards while the bony meatus is inwards downwards and forwards, in total S shape is produced in the meatus. So while examining the ear meatus the pinna must be pulled backwards and upwards in adults and downwards and outwards in children to straighten the canal to visualise the canal and tympanic membrane properly. The walls of the meatus are lined with skin, The skin of the cartilaginous part has hair follicles, sebaceous and ceruminous glands which secrete the ear wax or cerumin, for the protection of ear drum.

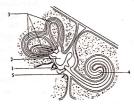




flaccida, 3— brium of the



1—acoustic meatus, 2—tympanic cavity: 2—tympanic membrane, 3—manubrium of the malleus, 4—bead of the malleus, 5—anvil (incus), 6—long process of the anvil, 7—stapes, 8—oval (vestibular) window. 9—tympanic cavity, 10—tound window



Internal ear: 3—semicircular canals, 4—cochlea window 1-oval window, 2-vestibule, 3
5-round

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The skin of bony meatus is thin, firmly adherent to the periostium, contain no hair follicles or glands (The bony part is formed by the tympanic and squamous portions of temporal bone). The narrowest part (isthmus) is situated 5mm lateral to the ear drum where foreign bodies usually get lodged.

Dehiscences in the Anterior wall of cartilaginous meatus (Fissures of Santorini), and at Anteroinferior part of bony meatus (Fissure of Huschke) gives scope for spreading of infection from meatus to parotid gland and vice versa.

Anteriorly meatus is related to temparomandibular joint hence infection of external auditory canal may cause Trismus (Painful Opening of mouth.)

- Blood Supply: 
  1) Auriculo temporal branch of superficial temporal artery.
- Posterior auricular branch of external carotid artery.

#### Nerve Supply :-

- Auriculo temporal nerve for anterior half.
- Auricular branch of Vagus Arnold's nerve for posterior half stimulation this 2) nerve may cause coughing and vasovagal syncope.

#### Lymphatic Drainage:

1) Pre auricular lymph nodes anteriorly, 2) Post auricular lymphnodes posteriorly . 3) Infra auricular lymphnodes inferiorly

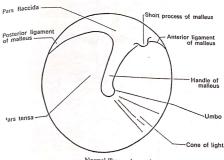
#### Tympanic membrane (Ear Drum)

Tympanic membrane is a thin freely mobile, translucent elliptical, greyish white membrane, set obliquely in the canal and separates the external ear from the middle ear. It is convex towards middle ear and concave towards external ear. It is the lateral wall of tympanic cavity (middle ear). On examination under illumination it appears as pearly grey or mother of pearl with a triangular cone of reflected light in its antero inferior quadrant.

#### Layers :- It consist of 3 layers.

1) Outer epithelial layer which is continuous with epithelium of external ear. 2) Middle fibrous layer, consisting of radial and circular fibres. 3) Inner mucous layer which is continuous with the mucosa of middle ear cavity.

Note: - The upper smallest zone of tympanic membrane (Pars flaccida) contain only 2 layers (devoid of middle fibrous layer). 48



Normal Tympanic membrane.

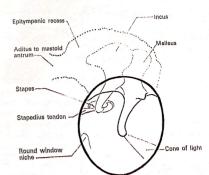
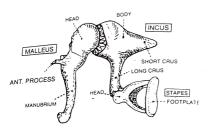
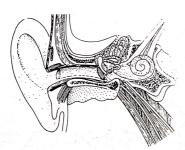


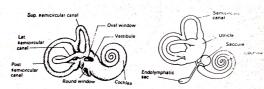
Diagram of Rt. Tympanic membrane showing the relationship of the auditory ossicles.



Bony Ossicles



Section of the external, middle and inner ear



Bony labyrinth

Membranous labyrinth



parts of Ear Drum :- 2 parts

Pars Tensa:

1) Pars Tensa:

It is the largest tense part of tympanic membrane, thickened peripherally into fibro literature which fits into the bony ring or tympanic sulcus. The sulcus is grooved to receive the annulus.

#### 2) PARS FLACCIDA OR SHRAPNELL'S MEMBRANE OR ATTIC PART

It is is devoid of fibrous layer and annulus, it fits into the notch of Rivinus. It is lax or flaccid part.

Size: Approximately 10mm in vertical diameter and 8mm in horizontal diameter.

Shape: It is oval or elliptical in shape.

Position:-The drum is placed obliquely at an angle of 55° with the floor 1) Lateral surface is free and concave.

surfaces: 2) Medial surface is convex.

#### Features:

On examination ear drum appears pearlygrey translucent and concave, pars tensa shows vertical handle of malleus attached to the tympanic membrane at medial surface which passes downwards and backwards from the short or lateral process of malleus to the umbo at thecentre of the drum, the conical light reflex extend from Umbo to the antero inferior quadrant of ear drum, the long process of incus may be visible through the ear drum behind and parallel to handle of malleus. The anterior and posterior. Malleolar folds run forwards and backwards from short process of Malleus by which it is divided into two, smaller above part pars flaccida and larger below part is pars tensa. The pars tensa is divisible into four quadrants by drawing the imaginary lines from Umbo vertically and horizontally, they are 1) antero superior quadrant 2) antero inferior quadrant 3) Postero superior quadrant 4) postero inferior quadrant This description is beneficial for discription of tympanic lesions.

#### Blood Suply ;-

- External surface is supplied by auricular branch of maxillary artery. 2) Inner surface is supplied by
- a) Anterior tympanic branch of maxillary artery b) Posterior tympanic branch of stylomastoid branch of posterior auricular artery. c) Inferior tympanic artery a branch of ascending pharyngeal artery. d) Arteria nutricia incudo mallei a twig of middle meningeal artery. artery. 51

Nerve supply :-Outer surface as like external auditory meatus, inner surface is supplied by tym. panic p'exus.

#### Middle Ear Anatomy ;-

The entire middle ear cavity is lined with respiratory mucous membrane which is an extension of mucosa of Nasopharynx. It is extending from medial suface of tympanic membrane to cochlear promontory of internal ear. (It lies in between external ear and inner ear) it is shaped like a biconcave disc. The vertical and antero posterior diameters are 15mm and transverse diameter is 6mm at upper part, 2 mm at the centre and 4 mm at the lower.

#### panic Cavity :-

- for Cavity 6 walls

  1) Roof 2) Floor 3) Anterior Wall 4) Posterior wall 5) Medial wall 6) Lateral wall.

  4 Chambers:

  1) Meso tympanum 2) Epilympanum 3) Hypo tympanum 4) Posterior tympanum.
- J. Contents: Typanum contains 1) Air 2) Ossicles 3) Tympanic plexus 4) Intra tympanic muscles (tenden of Tensor tympani and stapedious muscles) 5) Chorda tympani nerve 6) Ligaments 7) Arteries and veins.
- 4) Communication:
- 1) Anteriorly to naso pharynx through Eustachian tube 2) Posteriorly to mastoid antrum through the aditus.

#### 1) Walls of the tympanum - 6 They are

1) Roof or tegmental Wall:
Roof separates the tympanum from the middle cranial fossa by a thin bony plate
known as Tegmen tympani chronic inflammatory conditions of middle ear may spread through the tegmen to the meninges of brain.

#### 2) Floor :-

The middle ear cavity is separated from the jugular bulb by a thin bony plate (it is known as jugular wall ) chronic inflammatory conditions of middle ear may spread to jugular vein and may cause thrombosis.

#### 3) Lateral Wall :-

It is formed by the tympanic membrane and partly by bone above behind and below.

#### 4) Anterior Wall or Carotid Wall :-

From above down wards the following openings are present on the anterior wall. 1) Cannal for chorda tympani nerve (canal of Huguier) 2) Canal for tensor tympani muscle. 3) Eustachian tube opening. 4) Giaserian fissure transmit the tympanic artery and the anterior ligament of the malleus. 5) A thin bony plate known as carotid canal wall separates the middle ear cavity from internal carotid artery.

# 5) Posterior wall or Mastoid Wall :-

1) Aditus antrum connects the epitympanum with the mastoid antrum. 2) Below to 1) Must be a bony projection known as pyramid present through the tip of it stapedius tendon and inserts into the neck of stapes, 3) lateral to the aditus a bony projection as pyramid present through the tip of it stapedius tendon passes and inserts into the neck of stapes. 3) lateral to the pyramid is the opening for the neck of facial nerve. passes and most a meck of s chorda tympani nerve of facial nerve.

# 6) Medial Wall or Labyrinthine Wall :-

1) Most obvious feature is promonlory of cochlea formed by the turn of cochlea. 2) Above 1) Most outline or conclusion of contract of the turn of cochlea. 2) Above and behind the promontory there is fenestra ovalis (Oval window) that is closed by foot plate and appular licament. It lies between the contract of and believe and annular ligament. It lies between middle ear and scala vestibuli of the coof stapes and amount against these between middle ear and scala vestibuli of the co-chiea. 3) Below and behind the promontory Round window present that is closed by Secchilea. 3) Below and bosinion are promoning yound window present that is closed by Sec-ordary tympania membrane which separates middle ear from scala tympani of the cochlea (Sinus tympani a depression between the two openings Oval and round ) 4) Above and (Sinus tymperin a spinoson semeen use two openings Oval and round ) 4) Above and posterior to promonlory Fallopian canal with facial Nerve present. 5) Lateral Semi circular posterior promongen present instances the facial canal Prominence present just above the facial Nerve.

#### TYMPANIC CAVITY :-

Middle ear cavity can be divided in to 4, they are

- Meso tympanum:- It is the middle ear proper and the biggest of the 4, it corre sponds with the pars tensa of tympanic membrane.
- Epitympanum:- It is also known as epitympanic recess or Attic, the area above 2) to meso tympanum (the upper part of tympanum)
- Hypo tympanum:-The lower part lying below the tympanic membrane (Or below 3) the meso tympanum).
- Posterior Tympanum: The posterior part lying behind the level of tympanum. 4)

#### COMMUNICATIONS OF MIDDLE EAR CAVITY

(Anteriorly it is having communication with Eustachian tube.)

#### Eustachian Tube :-

It is about 3.5cm in length connects the middle ear with Naso pharynx. The outer third of this is bony, that adjoins with middle ear, The inner 2/3 is cartilagenous and leads in to Nasopharynx. The naso pharyngeal opening lies behind and on a level with the posterior end of inferior turbinate, at rest it remains closed and during Yawning or swallowing opens. In adults the tube is Obliquely placed where as in infants it is short, wide and horizontally placed so Naso pharyngeal infections easily spread to middle ear in infants.

2) Mastold:Posterionly middle ear cavity communicates with mastolic antrum through adj. s. Adibus ad antrum - a short canal connecting epitympanum with mastold antrum. Adibus ad antrum - a short canal connecting epitympanum with mastold antrum. Mastold antrum - it is the largest air ceil in mastold bone. Anteriority:: It receives the actions medially related to horizontal semicircularcanal
Laterally:- formed by the contex of mastoid bone.
Laterally:- formed by the opens of mastoid bone.
Roof:- is formed by the opens plate, postero inferiority antrum communicates with numerous mastoid air Cells:
G. Mastoid Air Cells:Variable in number, size and distribution, these communicate with the matoid variable in number, size and distribution, these communicate with the matoid variable in matoid processes are

1) Cellular 2) Diclocide 5) Scientific.
Contants of middle Ear:S. Ossicies (3 tiny bones) they are
1) Malleus (Hammer) 2) Indus (Arvill.) 3) Stapes (Stirrup) of Massion and Online addus medialy related to horizontal semicircularcanal

Anteriorly: It receives the addus medialy related to horizontal semicircularcanal

 Malleus (Hammer)
 Largest and most lateral ossicle, measuring Smm in length it has a head, handle, anterior and lateral processes Handle is firmly attached to the pars neck, handle, anterior and lateral processes Handle is firmly attached to the pars neck, handle, anterior and lateral processes of ear drum, head is situated in the epitympanum and articulate with body of incus.

Incus (Anvil) It has a body, a short process and long process. Body articulates with head of malleus, short process projects backwards in the attic, long process projects down wards behind the handle of malleus and articulates with the head of stapes.

Smallest Ossicle measuring about 3.5 mm and consists of a head neck, foot plate and also anterior and posterior crura. Head articulates with long process of in cus and Foot plate of stapes is held to the Oval window by the annular ligament.

Tensor tympani is inserted into neck of malleus

The stapedius is inserted into neck of stapes.

These muscles decrease the movements of Ossicles.

Relations of the Middle Ear Cavity :-

Telephone of the model and medically inner ear.

1) Tegmen plate (Roof) separate the tympanum from Temporal Lobe of brain and ny regiment place (moor) separate use symptomic constitution of masterial cells. 3) Horizontal semi meninges. 3) Cere bellum is postero medial to masterial cells. 3) Horizontal semi Circular cenal lies postero superior to facial Nerve. 4) 5-6-th cranial nerves lie close to the Apex of petrouse pyramid. 5) Horizontal part of facial Nerve present back of medial wall. 6) Lateral Sinus is posterior to mastoid cell. 7) Jugular bulb close with Floor of tympanum. 8) Internal carotid artery is anterior to tympanum.

So middle ear chronic inflammatory lesions easily spread to above parts and cause severe complications. 54

supply:-1) Middle meningeal artery 2) Maxillary artery 3) Ascending pharyngeal spood 3(35) o mastoid branch of posterior auricular artery.

Nerve Supply:

Nerve Supply:

Sensory: Tympanic branch of Glosso pharyngeal nerve.

Sensory: Tensor tympani by mandibular Nerve, stapedius by facial nerve.

Motor: Tensor tympani by mandibular lymph nodes. 2) Retro pharyngeal lymph nodes.

Lymphatic Drainage:-1) Pre auricular lymph nodes.

Inner Ear (Labyrinth)
Inner ear is a structure of winding passage, it is also named as labyrinth situated in Inner ear is a structure of winding passage, it is also named as labyrinth situated in Inner early and bone, consists of 2 parts. 1) Bony Labyrinth 2) Membranous labyrinth is covered by bony Labyrinth) Membranous Labyrinth contains endownph and perilymph is present in between bony and membranous labyrinth. Inner Ear (Labyrinth)

Bony Labyrinth :-

Bony Lawy. It has 3 parts. 1) Vestibule 2) Cochlea 3) Semicirular canals.

Vesupure .
It lies in the centre of bony Labyrinth on its lateral wall is the opening of Oval It lies in the centre of bony Labyrinth on its lateral wall is the opening of Oval window which is closed by foot plate of stapes. Postero medially there is an opening for the window which is closed by foot plate of stapes. Willow which a closed by aqueduct of the vestibule.

Bony Cochlea :-

Bony Courses .\* It lies infront of the vestibule and is like a snail shell. It has 2 3/4 turn around a It lies infront of the vestibule and is like a snail shell. It has 2 3/4 turn around a central pillar known as modiolus, an ossco membranous lamina divides the tube lumen into two, the upper one scala vestibuli which communicates with vestibule, the lower one is scala tympani which communicates with tympanic cavity through round window these two cavities are filled with perilymph and are communicated at the apex through a small opening leaves as Halicotrama. known as Helicotrema.

Bony Semicircular Canals:-

These are 3in number 1) Horizontal 2) Superior and 3) Posterior semicircular canals are set at right angles to each other. The 3 canals open by five openings into the vestibule posteriorly.

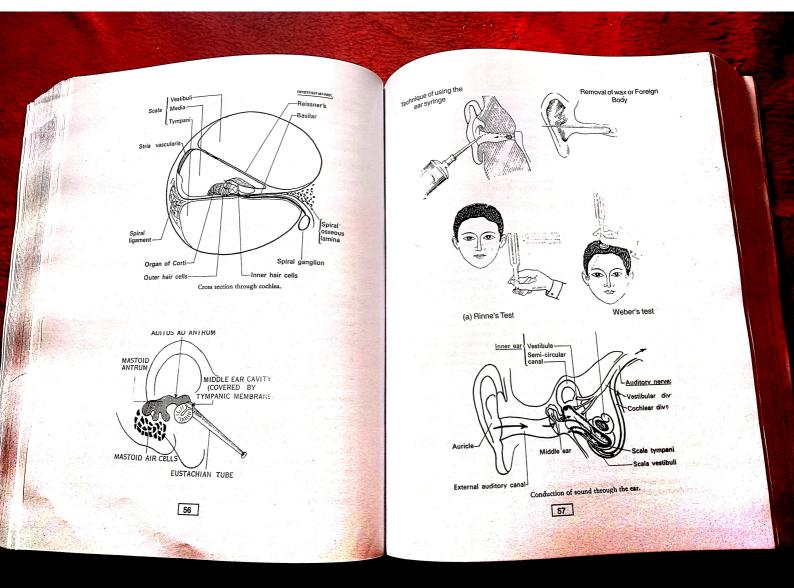
Membranous Labyrinth :-

Membranous labyrinth present in the bony Labyrinth, filled with endolymph and

1) Saccule and utricle present in bony vestibule 2) Membranous semicircular ducts present i) Jacobie and diffice present in bony vestibule 2) mentioral does brisken during present in the bony cochlea. within the corresponding bony canals. 3) Ductus cochlearis present in the bony cochlea.

1) Saccule and Utricle :-

Utricle lies in the upper part of vestibule and is connected with 3 semicircular ducts by five openings while the saccule lies below and infront of utricle and communicate with duct of cochlea. These two join to form endo lymphatic duct which ocupies the bony aque duct of vestibule. There is specialised neuro epithelium known as Macula which is end organ for gravitational pull and Linear accele ration.



2) Membranous semicirular Ducts: These open into utricle by five openings, at near the opening the part is dilated known as ampulla, it contains specialised Neuro epithelium called crista, it is end organ for Angular acceleration and calaric stimulation.

Angular acceptance

3) Ductus Cochlearis - Or scala media :Cochlear duct lying in the bony cochlea it is in between scala vestibuli and scala
tympani, triangular in cross section with Reissner's membrane. The end organ of Cochlea
is the specialised neuro epithelium known as organ of corti present in basilar membrane.

Nerve Supply:

Ampullary neuro epithelium crista and saccular utricular neuroepithelium macula together form vestibular nerve for equilibrium. Organ of corti of cochlea becomes cochlear nerve for hearing. These two nerves vestibular + Cochlear uttimately become vestibula cochlear nerve Orauditory nerve (8th cranial). Auditory centre of hearing present in the superior of the supplement of rior temporal gyris of cerebrum.

Vestibular nuclei situated at pons and medulla and connected with cerebrum cer. ebellum and spinal cord.

Blood supply :-Internal auditory artery

PHYSIOLOGY OF EAR

The ear performs two functions 1) Hearing 2) Maintenance of equilibrium.

Hearing Mechanism:

Hearing mechanism consists of two components

1) The Sound conducting mechanism (Transmission) 2) the perceptive neural mechanism 1) The Sound conducting international (Transduction) of the Sound conducting internation (Transduction) 1) The sound conducting mechanism required apparatus consists of external ear, lympanic membrane, ossicular chain middle ear cleft and eusta chaian tube. (Conduction of sound). 2) The perceptive apparatus consist of cochlea, Labyrinthine fluids, organ of corli, auditory nerve and its central connections (Perception of sound.)

Physiology of Conductive Mechanism:

This consists of conduction of sound through air and bone to the internal ear through external ear, tympanic membrane, ossicles and oval window. Tympanic membrane and ossicles not only conduct the sound but also increases its pressure before it is transmitted to the cochlea. It is needed to over come the impedence (resistance) to the sound transmission and is called impedence matching function of the middle ear. The gain pressure is 22 or 28 db, due to hydraulic effects of middle ear and lever effect of ossicles. Hydraulic effect is due to difference in the vibrating surface area of the drum (55 Sq.m.m.) and foot plate of stapes (3.5 sq. m.m.) which is approximately 17. Lever effect of Ossicles is due to relative difference 1:1.3. Total gain sound pressure transformer ratio is  $17 \times 1.3 = 22$ .

This is how the middle ear functions as the sound pressure transformation mechanism helps in impedence matching of sound.

IMPORTANCE OF ROUND WINDOW:-

The soundwaves which are transmitted through tympanic membrane ossicular chain reaches the Oval window and vibrate the perliymph of cochlea for the stimulation of organ of corti and gives protection to round window (when tympanic membrane is intact) from the direct impact of sound waves thus allow it to function as a release point necessary for fluid displacement of the inner ear (to give phase difference between oval and round window).

Importance of Tympanic Muscles: The muscles restrict the ossicular movement to save the delicate inner ear from loud sounds.

Functions of Eustachian Tube:1) It is Useful for the aeration of middle ear cleft for the proper function. 2) For providing hypo tympanic air bubble for the movement of the membrane of round window. 3) To equalise the air pressure on either sides of tympanic membrane.

Ex: When atmospheric pressure is reduced as during ascent in an aeroplane the air in the Ex: viviet an acceptance the air in the middle ear cavity gets absorbed and a negative pressure develops in side the middle ear cavity that can be equalised by frequent swallowing movements by which eustachian tubes open. Failure to open the tubes causes tympanic rupture and serous offits media.

Function of Mastoid Aircells :-

It is not clear but may serve the following functions.

1) Air reservoir for middle ear cavity. 2) Protect the Labyrinth from temperature variations. 3) provide resonance to sound.

Bone conduction of sounds :-

Bosides air conduction the sound is also transmitted by bone conduction by the vibration of skull bones. Perceptive neural mechanism and apparatus, the sound waves normally enters the cochlea through the Oval windows (through round window and also by

Propogation of sound within the cochlea is controversial But it is clear that the foot plate of stapes causes movement of cochlear fluids, an energy displaces the basilar membrane, the organ of corti gets stimulated which results in generation of cochlear microphonics and the nerve impulses are carried to the central connection.

Hydrodynamics.:-

Sound vibration through stapes movemet will produce a flow of perilymph from scala vestibuli - Helicotrema -scala tympani and vice versa. Accoustic energy displaces the basilar membrane to and fro between the two scaleae.

Mechanical Excitation of The Hair Cells :-

Vibration of basilar membrane results in a sliding or shearing movement between the tectorial membrane and haircells. This results in the development of cochlear microphonic due to electrical potential difference in endolymph, perllymph and organ of conti which help accoustic impulse to be transmitted as neural impulse.

Theories of Hearing:

Resonance theory or place theory of Helmholtz:- The perception of pitch of sound depends upon the selective vibratory action of the basilar membrane. depends upon the estective vibratory action of the basilar membrane. Putherford's telphone theory or Telephone diaphragm theory:
Note basilar membrane vibrates with each sound and perception of pitch is related to the rate of firing of individual nerve fibres.

Volley theory Or Waver's Theroy.

Combined theory of above both.

Combined theory or above poin.

a) higher frequencies are perceived by place theory.
b) Lower frequencies are perceived by telephonic theory.
c) Intermediate frequencies are perceived by both theories.

4) Travelling wave theory or Bekesy's theory. Sound waves travel from basilar membrane to the apex of cochiea, The point of maximum amplitude on the basilar membrane depends upon the frequency of sound, and the final perception of sound occurs in the cerebrum.

Physiology of Equilibrium :-

Physiology of Equilibrium:

Vestibule is very important end organ of the proprioceptive mechanism. Other proprioceptive the body are in muscles tendons, joints, skin and eyes These end organs are connected to cerebellum and cerebrum where the final perception of the sense of equilibrium occurs

### The Vestibular Apparatus :-

It supplies information to the brain about the position and movement of head as a basis for postural adjustments.

### Utricle and Saccule :-

The macule of utricle and saccule get stimulated due to linear acceleration or gravitational pull and in static posture (Rest.

SEMI CIRCULAR CANALS:- The crista of ampulla of semicircular canals gets

2) SEMI CIRCULAR CANALS: The crisa of ampular of semicircular cartals gets simulated by angular acceleration (Kinetic posture produced during movements.)

The three canals on each side of body are arranged at right angles to each other and thus stimulated by movements.

### HISTORY TAKING AND SYMPTOMATOLOGY.-

Before otoscopy and and functional examination of ear, knowing the History of the patient with common symptomatology is very important and gives scope for correct diagnosis.

Age of the patient (for senile degenerative lesion)
Placeof living (At dusty crowdy areas allergic disorders are common).

Occupation (Labours working in noisy surroundings are commonly prone to

deafness etc., disorders).

Personal history - (Smoking, tobacco chewing, swimming and diving, eating of cold items, fridged items, scratching the ear canal with match sticks, Lower socio economic and un hygienic living habits etc.,).

Past history of diseases like diabetes, hypertension, syphilis, Tuberculosis, habit of Ototoxic drugs. injuries, operations etc., Family histroy of deafness otosclerosis etc., History of drug intake like salicylates, aminoglycosides, quinine and cytotoxic

drugs.
History about the present condition or Chief complaint & associated complaints.

origin, duration, severity, progress, nature of the disease, aggravating factors, focal lesions of referred lesions, continuous problem or intermittent, sudden onset or gradual, fixed lesion or spreading type, unilateral or bilateral, congenital or hereditory or developmental or degenerative, or traumatic or inflammatory or Neoplastic or metabolic or Allergic origiopathic - in all these angles case study should be carried that gives perfect scope for diagnosis.

### The common symptoms of ear diseases are :-

The common symptoms of ear diseases are: 1) Earache 2) Itching sensation in the ear canal 3) Deafness, 4) Otorrhoea. 5) Tinnitus 6) Vertigo

General Symptoms:

1) Head ache. 2) Body pains. 3) Fever 4) Nausea. 5) Vomitting. 6) Common Cold and cough. 7) Upper respiratory symptoms. 8) CNS (Central nervous system). 9) Allergic symptoms etc.,

Note: - Enquiry about each symptom indetail is explained in their concerned topics.

### physical Examination of Ear. Auricle or Pinna :-

- a) Appearance Congenital deformities, inflammatory changes, ulcers, swellings, 1) scars are observed
- Mastoid region should be examined for abscess swelling and fistula (Mastoidi 2)
- Position of Pinna It is pushed outwards forwards and downwards by a mastiod 3)
- Tenderness in Acute otitis externa the movements of pinna and tragus are extremely tender.
- Post auricular groove gets obliterated and auricle stands out prominently in 5) furunculosis.

### Otoscopy:

Examination of external auditory canal and tympanic membrane with the help of an

ear speculum or electric otoscope is known as otoscopy.
Electric Otoscope is self illuminated with ear speculum easy for handling and examination but difficult for manupulations with instruments etc.,

Ear speculum needs the support of bright illumination (Bull's eye condensor ) and forehead mirror to focuss the light rays into the ear canal.

3) Forehead mirror with light also available for Otoscopy.



poedure of Oroscopy :Dooter should sit slightly lower than the patient.
Dooter should sit in a chief stang the doctor
Pagent should sit in a chief stang the doctor
Pagent should sit in a chief stang the doctor
Buil's eye consensor (illuminator) should be placed close to the left side of the
Buil's eye consensor (illuminator) should be placed the central apenture of mitroThe Dooter should adjust the head minor and through the central apenture of mitroonly ne should valuate the ear canal with risk ingoint eye.
Onlivers should be proberly examined with the aid of an assistant.
Children should be proberly examined with the aid of an assistant.
Children should be proberly examined with the action of speculum is held between thumb and forefinger, it is
been carefully introduced into the measus up to 8mm depth without touching the
bony part (causes pain and irritability).
At the same time of insection of speculum the pinna is pulled upwards and back
wards in adults and dominators and symbalic mambrane properly.

wards in adults and downwards and backwards in revenue to straighten the canal to visualise the contents and tympanic mambrane property. In the ser canal there may be wax, fungus, foreign bodies, furuncles, polyps, in the ser canal there may be wax, fungus, foreign bodies. Furuncles, polyps, in the ser canal there may be wax, fungus, foreign bodies. Furuncles, polyps, swellings cysts, inflammatory changes and early examination (tympanic membrane) contents should be observed and foreign examination (tympanic membrane) and discharge atts. Should be cleaned with wax removing probe and paracontents should be cleaned with wax removing probe and cotton wax and discharge etc., should be cleaned with wax removing probe and cotton tippped applicato

### Tympanic membrane Norma Findings :-

Norma Findings Greyish white transluscent Obliquely set membrane through which handle of malleus short process of mallus, Anterior and posterior malleolar folds, short and long process of incus, umbo and cone of light are seen.

### Abnormal Findings :-

Integrity of Membrane Should be Examined. A)

Whether it is intact or perforated.

If perforated: - Site (Central or safe, mariginal or unsafe, attic or complicative with cholesteatoma.), Shape (Round or oval or irregular), Size (Small or big.) Number (Single or multiple.) with discharge or without discharge and whether middle ear contents are visible or not (the visible contents are ossicles, or polyps or cholesteatoma or granulations etc.,).

### B) Colour of tympanic membrane :-

Normally greyish white, pale, lustreless in secretory otitis media, congested in Acute offis media, Bluish in haemotympanum etc.,

### C) Position of tympanic membrane :-

Bulged in effusions of middle ear.

Retracted in Eustachian block, serous otitis media and Adhesive otitis media with reduced mobility. 62

pl Mobility of tympanic Mebrane:

Pl Mobility of tympanic Mebrane:

Restricted in Adhesive othis media or effusions of middle ear. Hyper mobile in serving etc... (The mobility of tympanic membrance is examined with siegle's neumatic serving etc... (The mobility of speculum tis second to the ear canal and rubber bulb is pressed for air pressure to cause mobility of reference in the ear canal and rubber bulb is pressed for air pressure to cause mobility of reference in the ear canal and rubber and the ear speculum in bright illumination).

Eardrum should be examined for fluid Levels like in serous offits media.

A test for examine the patency of eustachian tube Ear drops if reaches the throat is the significance of tympanic performation with patent eustachian tube.

patern obtained and discharge suggests the perforated ear drum and patent eusta chian tube.

While closing the mouth and nose if patient is asked to blow out and if the patient hears the air rushing into the middle ear with mobility of ear drum suggestsa patent eustachian tube.

Politzerisation: The nozzle of the politzer bag is inseted into one nostril and the politzerisation: I ne nozzle of the politzer bag is inseted into one nostril and the both nostril should be closed by the patient and asked to make a swallowing movement and the bag is pressed simultaneously if the patient feels air rushing into his ears it is significant of patent eustachian tube (By swallowing movement Estachian tubes open so the released air from politzer's bag enters into middle ear through the patent eustachian tube).

e) Eustachian Catheterisation :- Eustachian catheter is attached to rubber bulb, the tip of e) Eustraction of the opening of eustachian tube through Nasopharynx and the bulb is catheter is inserted at the opening of eustachian tube through Nasopharynx and the bulb is catheter is insorted at the opening or easewheat tube drough Nasopharynx and the bulb is pressed, if the Eustachian tube is patent air rushes into middle ear and causes movement of eardrum.

11) Radigoraphy Confirms the diagnosis.

### FUNCTIONAL EXAMINATION OF EAR:-

The hearing may be tested in number of ways.

1) Voice test.

a) Conversational voice

b) Whispered Voice.

2) Watch test.

3) Tuning fork test

4) Audiometry.

### 1) Voice Test :-

a) Conversational Voice test (C.V)

b) Whispered Voice (W.V.) each ear is tested separetely while the other ear should be masked. These tests are performed in a sound proof quiet room.

a) Normal Conversational Voice can be heard upto a distance of 20 to 40 feet or 12 meters.

b) Normal whispered Voice can be heard upto a distance of 12 feet or 4 meters.

2) Watch Test: -This test is carried out with the help of watches, a normal person hears the ticking This tex sound of watch.

of watch. Above 2 types of methods are not for an accurate assessment of hearing.

3) Tuning fork Test:-These test are carried out by the vibration of tuning forks of Varying frequencies 256, 512, 1024 etc.,

The most useful fork is the 512 CPS (cycles per second)

1) Air conduction (A/C)
The wibrating tuning fork is placed opposite to the ear canal (Sound conduction through air and tympano ossicular chain)

2) Bone Conduction (BC)

2) Bone Conduction (BC)
The vibrating funing fork is placed on the mastoid bone or forehead (Sound conductions).
In this rough skull, cochiea, auditory nerve and central connections).
Note: For vibrating the tuning fork, handle the stem of the fork and strick slightly against knee or Elbow or on soft surfaces like rubber pad or on hypo thenar eminence of palm etc.,

(A) Rinne's Test :-

(A) Rinne's Test:

The comparative assessment of Air conduction with Bone conduction.

Strike the tuning fork and place before the external auditory meatus to hear the vibration of sound through air, ask the patient to raise the finger when he can no longer hear vibration of sound through air, ask the patient to raise the imper when he can no longer hear the vibrations, after the signal place the base of the of the fork or mastoid process and ask him if he again hears the vibrations Rinne's test is Negative, if he cannot hear the vibrations at mastoid Rinne's postive.

 In Normal hearing Air conduction is longer than Bone conduction, this is called Rinne positive.

Normal hearing Rinne positive

= A.C. More than B.C.

2) when Bone conduction is longer than Air conduction it is called Rinne negative - Suggests conductive deafness.

Rinne negative Conductive deafness

= B.C. More than A.C.

3) Air conduction is more than Bone conduction but low volume and shorter duration is called as low positive Rinne, suggests sensori neural deafness.

Low Rinne positive.

Sensori neural deafness

A.C. more than B.C.

4) Rinne equivocal - Air conduction and Bone conduction are equall suggests Low or mild conductive deafness. A.C. = BC

5) False Rinne negative - Suggests unilateral sensori neural deatness. AC and BC are markedly reduced on the diseased side. But B.C appears normal though reduced because the Bone conduction is heard normally by spreading to the normal opposite side. Soonly &A.C. > B.C. - Normal

But both reduced, mild perceptive deafness.

explained as fal A.C. > B.C. -A.C. > B.C. B.C. > A.C. B.C. > A.C. AC = BC

Mild conductive deafness.

No, B.C. - Severe perceptive deafness

No. A.C. - Severe conductive deafness. Only AC, Only BC,

(B) Weber's Test :-

ber's lest." It is useful for testing the unilateral deafness or when there is marked difference in the two ear. Bone conduction of two ear are compared.

Air conduction is not examined.

This test is performed by placing the base of vibrating tuning fork at the centre of In is test is performed by placing the base of vibrating tuning fork at the centre of fore head or vertex or on the upper incissor, the patient is asked in which ear the sound is best heard a) Better hearing on one side b) Equal on both sides c) Not hearing at all, this heavyressed as the lateralisation of Sound (the control of the sound of the control of the sound of the control of the sound best near any expressed as the Lateralisation of Sound (lateralisation occur when there is difference of bone conduction by more than 5 db.) Interpretation :-

1) Normal Person hears equally on both sides.

2) Conductive deafness.

a) Bilaterally equal conductive deafness centralisation of sound.

b) Bilaterally unequal conductive deafness, sound lateralisation towards more deaf

c) In unilateral conductive deafness, sound Lateralisation occur towards affected side.

3) Sensori neural deafness.

a) In bilaterally equal nerve deafness Centralisation of sound.

b) In bilaterally unequal nerve deafness, Lateralisation of sound towards better ear.

c) In unilateral nerve deafness sound lateralisation towards normal ear

c) Absolute Bone Conduction Test (A.B.C.):-

The bone conduction of the patient is campared with that of the examiner, assuming that the examiner has a normal hearing.

For testing A.B.C. the ear canal is blocked by a finger, the vibrating tunic fork is placed on the mastoid process of the patient, As soon as he stops hearing it is transferred to themastoid of the examiner. The process may be tried again in a reverse manner.

1) In Normal and Conductive deafness ABC of patient is equal to ABC of examiner.

2) In Sensori nerve deafness ABC of patient is reduced.

D) Schwabach Test:-This is as like A.B.C. but the test is performed without occluding the meatus, it is less reliable than A.B.C

### TUNIING FORK TEST ANALYSIS

			-
	Rinne	Weber	A.B.C.
A) Non heari		Central heard equally on both sides.	Normal
B) Condu			
a) Right sid	e RT ear negative LT ear positive	Lateralised to right	Normal
b) Left side	RT ear positive LT ear Negative	lateralised to left.	Normal
c) Bilateral	Both ears Negative	Lateralised to deafer side or central if equal on either sides.	
C.) Sensori Neural deafness			
a) Right ea	Positive (Low) Left ear Positive	lateralisation to left ear	RT ear reduced.
b) Left ear	Left ear positive (low) Right ear positive	Lateralisation to right ear.	Left ear reduced.
c) Bilateral	Both ear Positive (Low)	lateralisation to better side or central if equally deaf.	both ear. reduced

4) Audiometry.

Audiometer is an electronic instrument providing uniform standard graphical measurement of hearing qualitatively and quantitatively. It is capable of producing pure tone sounds of different frequencies at variable intensities, pure tones are delivered to the ears by a head phone for A.C. and by a vibrator for B.C.

The frequency ranges from 125 C.P.S. to 8000 C.P.S. (Mainly 500 to 2000). The intensity is measured in decible (dB), ranging from O.dB to 110 dB,

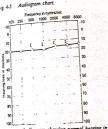
The intensity of sound is increased or decreased for each frequency in A.C. and B.C. is plotted on a graph called audiogram.



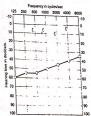


Technique of holding the child for E.N.T. examination









Procedure - Audimeny is performed in a sound proof, quiet room, initially A.C of both ear procedure - Audimeny is performed in are recorded in red continuous line and left earing is recorded, the meshold curve of right ear is recorded in interrupted lines or like brack. Due continuous line whereas B.C. of both ear is recorded in interrupted lines or like brack.

ets.

1) Normal - A direshold between 0 to 20 dB is normal, AC and BC closely follows in

2) Sensori neural deafness:
Threshold levels beyond 200B, deafness more severe in high frequencies, AC and

3) Conductive deafness:
Trreshold levels - AC is beyond 200B, but BC is within normal limits. Loss of hearing by AC is more in lower frequencies - wide gap between AC and BC, hearing by AC is more in lower frequencies.

4) Mixed Destiness:

AC reduced. BC partially reduced with some gap between AC & BC.

BC reduced. BC partially reduced with some gap between AC & BC.

Midd dashess, hearing loss between 20 to 90 dB.

Moderate destiness hearing loss between 60 to 110 dB.

Severe deatness, hearing loss between 60 to 110 dB.

Use:

Permishent recurus contained Diagnosis of qualitative and quantitative deafness is possible, For fitting aproper type of hearing aid. For special test of recruitment.

2

Note: Other types like speech Audiometry (SRT and SD), Impedance audiometry Note: Outer types are specially Evoked response audiometry available for the a esment of deafness.

### FUNCTIONAL TESTS OF THE VESTIBULAR APPARATUS.

Vestibular lesions may produce the following symptoms and response.

A. Symptoms - 1) Vertigo 2) Nausea and vomiting,

Palpitation and perspiration.

B. Response: 1) Nystagmus (Oscillatoy movement of eye ball 2) Fast pointing (the patient feels that the object is moving ) 3) Falling (The patient tries to correct the hallucination of movement and he tends to fall in opposite direction.),

It is the rhythmic oscillatory movement of the eyes, it has two components a) Slow labyrinthine movement b) quick cerebral movement.

### It is of 3 types.

Central

associated with intra cranial lesions.

Order

associated with eye lesions.

Vestibular due to vestibular lesions.

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Vestibular nystagmus is of 2 types.:- 1) Spontaneous 2) Induced

Vestibular ...

1) Spontaneous 2) Induced

1) Spontaneous 2) Induced 2) Induced 3) Induced

bi2nous and straight.

bi2nd degree - Nystagmus produced on looking in the direction of slow component. Induced - Due to stimulant like in caloric test, rotation test, etc.,

looking test (Halipike Test)

caloric test (Halipike Test)

caloric test is a test of the vestibular function based on the principle of stimulating temperature differences. Patient is placed in supine position with the head desired on the principle of stimulating test of the vestibular function as the principle of stimulating test of the vestibular function as the principle of stimulating test of the vestige device of the principle of stimulating test of the vestige develop to the duration of Nystagmus and vertigo develops, the duration of Nystagmus in measured. It is approximately 1 minute and 20 seconds to 2 minutes in control labyrinth.

notification (30 C°) and another with In every ear two reacurings should be measured one with Cold water (30 °C) and another with not water (44°C), cold water causes Nystagmus to opposite side where as hot water causes Nystagmus to the same side. The 4 Values commonly equal.

Nystagrinus In canal paresis the duration of induced Nystagrinus is reduced this is observed in menters disease, post aural vertigo and vestibular neuronitis. Unilateral hypo activity of a Labyrinth with perceptive deafness is highly suggestive of acoustic neuroma. Sometimes particular deafness are enhanced in one particular disease. LaDynamic responses are enhanced in one particular direction that is known as Directional onderance of Nystagmus.

preponderance or reystagrinus.
2) Cold Caloric Test (Kobrak's Test)
About 5CC of Ice cold water is injected into external auditory meatus, Labyrinth is stimulated and nystagmus occurs with 2 minutes duration. (Rough method for testing).

### 3) Cold Air Caloric Test.

3) Cold Air Cainford feet and of the patients, Cold water instillation causes complications so in such cases only cold air is supplied by Dundas Grant apparatus.

4) Fistula Test :-

It is used to detect a fistula in the bony wall of the Labyrinth, on increasing the air pressure in external auditory meatus and middle ear with Siegle pneumatic speculum that is transmitted into Labyrinth through the fistula and causes vertigo and Nystsgmus it suggests fistula test positivie.

5) Rotation test :-

Patient is placed on a revolving baranys chair which is roated at the rate of 10 revolutions per second (10 rps) the chair is then stopped and patient is observed for post rotational nystagmus.

### 6) Romberg's Test :-

Patient is asked to stand with his feet together and arms at his side. He is asked to close the eyes- The patient falls on the side of the lesion in vestibular paresis.

### 7) Opkokinetic Test :-

A white rotating drum with black vertical lines is rotated horizontally and stopped normal person get Nystagmus of both side. but unilateral Nystagmus suggests central vestibular Lesion.

### SAMANYA NIDANA OF KARNA ROGA

(Common aetiological factors of ear diseases)

1) Avashyaya - Exposure to snow Or Cold Items: Exposure to Cold Items gives scope for infection, fungus development, common Cold, pressure differences on either sides of tympanic membrane, and so many cold wind allergic manifestations of External and middle ear.

manifestations of external cut.

2) Jalakreda - Diving or swmming Or exposure to polluted water.

2) Jalakreda - Diving or swmming Or exposure to polluted water.

Water enters into external ear and causes infection, fungus collections water enters into external ear and causes infection, fungus collections. and trauma to tympanic membrane.

and trauma to tympound:

3) Karna Kandooyaya: Picking Or Probing the external auditory canal.

It is common habit to get relief from itching sensation. But it causes it is common habit to get relief from itching sensation. But it causes scratches, ulcers and inflammation in the external auditory canal, which leads to many complications.

4) Mithya yogena Shastrasya ;- Improper instrumentation during the examina-

Improper use of ear wax removing probes, Foreign body removing hooks, syringes Or forceps by untrained persons. It causes severe complications, like sympanic perforation, otitis externa etc.,

- 5) Sound Pollution :- Hearing (high frequency) loud sounds, this causes prob-lems like tympanic rupture (conductive deafness) etc.,
- 6) Abhighata :- Injury to head especially to the temporal bone may cause severe complications of ear and even death.

7) Regular Head Bath (Shira snana)

The water if entered in to the ears, easily cannot come out side because of curved external auditory canal, some water by retaining in side causes fungus infection etc., complications.

- 8) All the aetiological factors explained for Nasal diseases also applicable to ear
- 9) Peripheral or adjascent lesions like scalp infection, pharyngeal lesions and lesions of face may cause ear problems.
- 10) Chronic systemic infections like Tuberculosis, Leprosy, syphilis etc may cause
- 11) Congential (Atresia of external auditory canal), Hereditory, Psychological, Professional (Labour working in mills with sound and dust pollution), Vascular, Neurolgical, Drug induced (Streptomycaetin induced deafness), degenerative by age (senile deafness), Allergic and Idiopathic causes can produce ear diseases.

### SAMANYA SAMPRAPTHI OF EAR DISEASES

samprapthi :- 1) Doshaj 2) Aaganthuja.

- 1) By above causes valadi doshas vitiate the Shabda v callse ear diseases like Kama shoola, Kamanada, Badirya etc., 1) By above causes vatadi doshas vitiate the Shabda vaha srotas and
- 2) Due to traumatic causes also in short time ear diseases like deafnees 2) Duo Amarika (Karna Pranada), karna Pratinaha (Tympanic perforation) may (Eading) and perforation (Eading) and perforat be produced.

### CLASSIFICATION OF EAR DISEASES

- According to Sushrutha and Yogaratnakar ear diseases are = 28 According to vagbhata = 25 ear diseases According to Charaka = 4 Diseases.
- 1) Sushrutha's classification of ear diseases = 28, they are,
- (Otalgia Pain in the ear) 1) Karna shoola
- 2) Karna pranaada (Noises in the ear Tinnitus) (-do-
- 3) Karna Kshweda ( Deafness
- 4) Badirya (Otorrhoea ) 5) Karna Srava
- (Itching Sensation in the ear canal) 6) Karna Kandu
- 7) Karna gootha Or Varcha ( wax in the external auditory canal)
- 8) Karna Pratinaha (Tympanic perforations)
- 9) Krimi Karna (Maggots in the ear)
- 10) Karna Paka (Furunculosis)
- (Suppurative otitis media) 11) Poothi Karna
- 12) and 13). 2 types of Vidradi (Abscess)
- (14 to 17). 4 types of Arsha (Polyps of ear)
- (18 To 21) . 4 types of shopha (Oedema Or Swellings)
- (22 To 28) 7 Types of Arbuda (Tumours)

II Vagbhata's classification of ear diseases = 25 gbnata s classification of call discases = 15 diseases of ear canal (Karna sroto rogas) 10 external ear diseases (Banya Karna rogas)

The 15 Dieseases of Karna srotas are, ine to Dieseases of Karna shoota are, 1 to 5, 5 Types of Karna shoota (Otalgia)

6) Karna Nada (Deafness)

7) Badirya 8) Karna prafinaha 9) Karna Kandu (Tympanic perforations)

(Itching sensation in the ear canal) (Suppurative Otitis media)

10) Poothi Kama 11) Krimi Kama

(Maggots of ear) (Oedema Or swelling of ear)

12) Kama shopha (Polyps of the ear) 13) Kama arsha (Ear abscess) 14) Karna vidradi (Tumours of ear) 15) Kama arbuda

### Bahya Karna Rogas = 10, They are,

1) Kuchi Kamika

2) Kama Pippali 3) Vidarika

4) Pali sosha

5) Tantrîka

6) Paripotha

7) Uthpatha

8) Unmatta Or Gallire

9) Dukha Vardana

10) Lehyaa.

### Asadya Karna rogas According to Vagbhata are 4 in number, they are.

1) Kama Pippali

2) Sannipataj Karna shoola

3) Vidari

4) Kuchi Kamika,

### III) Charaka's Classification of ear diseases 4 in number they are.

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1) Vataj Karna roga

2) Pittaja Kama roga

3) Kaphaj Kama roga

4) Sannipataj Karna roga.

Description of Ear Diseases According to Charaka - 4, they are

Description

1) Vataigh Karna Roga.
1) Vataigh Karna Roga.
The patient complains of different types of sounds in the ear, pain, deafness, dried wax and with scanty thin blackish ear discharge.

2) Pittaja Karna Roga.

2) Pittaja Nama 1094.
The patient complains of red coloured oedema, crustformation, burning sensation and with yellowish foul ear discharge.

3) Kaphaja Karna Roga:-3) Kaphaja Kanna Roga:
The patient complains of deafness, deformity of ear, itching sensation in the ear canal, light pain, immobile swellings and with whitish sticky ear discharge.

4) Sannipathaja Karna Roga:-4) Samuel (mixed type) symptoms are present

### 1) KARNA SHOOLA (Otalgia Or Earache)

Sushrutha explained it without any sub divisions.
Charaka explained 4 sub divisions they are.
1) Vataja Karna shoola
2) Pittaja karna shoola

3) Kaphaja Karna shoola 4) Sannipataj Karna Shoola.

3) Vagbhata explained 5 sub divisions.

nji Vataj Karna shoola 2) Pittaj Karna Shoola 3) Kaphaja Karna shoola 4) Raktaja Karna Shoola 5) Sannipataj Karna Shoola.

a) Karna Shoola according to sushruta.

In the ear canal the vitiated Vata dosha is encircled (Aavarana) by pitta Kapha Rakta and other types of Vata, and causes improper circulation of vata (Vata viloma gathi) and produces untolerable pain in the ear, is known as Karna shoola which is explained as difficult to treatment (Kasta sadya).

1a) Vataja Karna shoola according to Charak :-

Vitiated Vata causes Noises in ear, pain, dried scanty thin ear discharge and deafness.

I.b) Vataj Karna Shoola According to vagbhata:-

Pratishyaya (Rhinitis), jala kreeda (Swimming or diving), Karna Kandooyan (Scratching of ear canal with sticks etc), hearing loud sounds, rest lessness and dieting etc, causes vata vitiation in the auditory canal (shabda vaha srotas)., and causes severe pain in ear. The associated symptoms are Ardhaava bhedak (Migraine), Hanustamba (Lock jaw), loss of appetite, disinterest in cool things, ulceration of ear with watery discharge and intermittent deafness etc.

It can be co-related to Acute otitis externa, Acute serous otitis media etc

### 2 a) Pittaja Karna Shoola By Charak :-

Vitiated pitta causes reddish oedema, cutting and burning type of pain and Vittated pitta causes reduish o yellowish foul discharge from the ear.

### 2. b) Pittaja karna Shoola By Vagbhata :-

b) Pittaja kaina dosha causes pain,fever, burning sensation, quickly suppurative oedema with yellowish watery discharge and shows interest in cool things, (By sticking of the discharge to the other normal site causes progression of the

It can be co-related to Acute offits externa (Furunclosis) Acute serous otitis media etc diseases.

3 a) Kaphaj Karna Shoola by Charak :-The vitiated Kapha dosha causes deformity, deafness, itching sensation, light pain and bigger oedema with whitish sticky discharge from the ear.

### 3. b) Kaphaj Karna Shoola by Vagbhata :-

3. b) Kapha Karna Shoula by Vageriada.

The vitiated Kapha dosha causes light pain in the ear, Heavyness in the head, jaws and neck, itching sensation, sticky white discharge from ear and the patient desires hot things

It can be co-related to chronic otitis externa and chronic otitis media

### 4) Sannipaaja Karna Shoola By Charak and Vagbhata:-

The tridoshas vitiate and produces terrific pain, swelling and multi coloured pus discharge from ear with fever. Symptoms are fluctuating according to dosha predominence. It can be co-related to Acute/chronic otitis media.

### 5) Rakthaja Karna Shoola By Vagbhata, it is not Explaind By Charak.

Raktha dosha vitiates due to injuries (Trauma to ear or head) and produces bleeding ulcer in the ear canal or blood stained ear discharge and signs and symptoms of pittaja karna shoola (signs and symptoms are more severe than pitta Karna shoola).

It can be co-related to traumatic acute otiitis.

### Complications of Karna Shoola :-

If Karna shoola associates with following complications it becomes incurable (Asadya).

1) Moorcha, 2) Burning sensation, 3) Jwara, 4) Kasa, 5) Klama, 6) Vamana.

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### OTALGIA (Pain in ear)

The pain in ear occurs due to lesions of ear and also due to referred causes in the lesions of the organs which have the same nerve supply.

### Local Causes of otalgia

A) a) External ear Lesions which cause Otalgia:1) Furunculosis, 2) Impacted wax in the external ear canal. 3) Foreign bodies, especially Animate Foreign bodies, 4) Perichondritis, 5) Acute otitis externa, 6) Otomycosis, 7) Myringitis, 8) Trauma, 9) Tumours, 10) Ramsay - Hunt's Syn-

b) Middle ear Lesions which cause Otalgia:1) Eustachian catarrh, 2) Acute otitis media, 3) Acute mastoiditis, 4) Complications of otitis media, 5) Trauma, 6) Barotrauma, 7) Tumours.

### B) Referred Otalgia :-

Referred otalgia occurs in the lesions of the organs having following nerves

supply 1) 5th (Trigeminal), 2) 7th (Facial ), 3) 9th (Glossopharyngeal), 4) 10th (Vagus ), 5) Cervical 2nd, 6) Cervical 3rd,

### 1) Via Trigeminal Nerve :-

The auriculotemporal nerve (the branch of mandibular of Trigeminal nerve) supplies to external ear and also to the oral cavity, teeth, nasopharynx, nose, para nasal sinuses and tempero mandibular joint, so in the lesions of these parts, pain referred to ear throgh auriculotemporal nerve.

 $\mathsf{E}_{\mathsf{X}}$ :- in caries teeth, alvoeolar abscess, impacted wisdom tooth, traumatic and inflammatory lesions of mouth, tongue and salivary glands, tempero mandibular joint arthritis, deviated nasal septum, sinustitis and malignancy.

### Via Facial Nerve :-

This nerve supplies face and some sensory fibres to the ear, so in herpes zoster like lesions pain radiates to the ear through facial nerve fibres.

### Via Glossopharyngeal Nerve: -

Tympanic branch of glossopharyngeal nerve supplies to the middle ear and also to oropharynx, tonsils etc., so in

- a) Acute ulcerative tonsilitis b) Peri tonsilar abscess
- c) Retropharyngeal abscess d) Para pharyngeal abscess
- e) Neuralgia etc, lesions pain refers to ear.

4) Via Vags Nerve :-

Auricular branch of Vagus supplies to the external auditory canal, eardrum Auricular branch of Vagus supplies to the external auditory canal, е pharynx, crico pharynx etc, in these lesions pain radiates to ear.

5) Via Cervical 2-3 Nerves:

Lesser occipital and great auricular nerve supply to the external ear and also to the cervical region, so in cervical lesions like a) Spondylosis b) Fibrositis also to the cervical region, so in cervical lesic c) Myositis d) Herpes - Pain refers to the ear.

Neuralgia also cause pain In the ear.

Treatment :
A) For Local otalgia

Avoid the causative factor.

- Cleaning of wax from external audiotroy canal.
- Cleaning of Warning of Honor Removing of Foreign bodies if any.

  Broad spectrum antibiotics Or fungicides, Local and systemic.

  Oral Anti inflammatory drugs and analgesics.
- Anti histamine drugs (Systemic)

B) For referred Otalgia -

The causative disease should be treated.

### 2) KARNA NADA OR KARNA PRANAADA.

(Tinnitus Aurium)

Vitiated Vata dosha either entering into other channels (Vimaarga gaman) or encircled by Kaphadi doshas in shabda vaha srotas (auditory canal) produces defferent types of sounds in the ear like Bheri, mrudanga, shankha etc, is known as karnanada or Karna Pranaada.

### 3) KARNA KSHWEDA

Tinnitus Aurium

The vata etc doshas are vitiated due to Dhaathu Kashaya, taking of cold water after excessive Nasya karma etc, causes the vitiation in the auditory canal (shabda vaha srotas) and produces noises like Flute, in the ear, is known as karna kshweda

(It is not explained by vagbhata)

DIFFERENTIAL DIAGNOSIS OF KARNA NADA AND KARNA KSHWEDA.

<sub>Sl. No. Karna Nada</sub>

Vata dosha only vitiates

Different types of sounds are heard.

It arises due to obstructive lesions of shabda vaha srotas

( external and middle ear)

Treating the Vata dosha cures the disease.

Karna Kshweda

1) Vata and other doshas vitiate (Vata pitta Kapha and Raktha).

2) Only flute noise is heard.

3) It arises due to degenerative lesions (Dhathu Kshaya etc) of shabda vaha srotas (internal ear)

4) Vata etc doshas should be treated for improvement.

### TINNITUS

Tinnitus is defined as an auditory sensation or adventitious sound heard in one or both ears in the absence of any relevant external stimulus to cause it. The sounds are of different types like whistling, hissing, buzzing, steaming ringing, roaring, clicking etc.

Types A) B)

1) Unilateral 2) bilateral 1) Central 2) Peripheral (Functional types.)

1) Subjective tinnitus (Sounds heard only by patient) C) 2) Objective tinnitus (sounds heard by patient and examiner or

1) Intermittent - Tinnitus with gaping

2) Continuous - without gaping

3) Fluctuant - Not uniform with the changes in intensity.

4) Changes in the pitch of tinnitus.

### Causes of Tinnitus :-

### Subjective Tinnitus.

I) Tinnitus with deafness.

All the causative factors responsible for the deafess also produce tinnitus.

Ex:- 1) Impacted wax Or Foreign bodies in ear 2) Secretory otitis media 3) Aero otitis media. 4) Oto Sclerosis 5) Acoustic trauma.

### Tinnitus without Deafness ;-

Ex:-1) Anaemia 2) Hypertension 3) Hypotension 4) Caries teeth Or impacted wisdom teeth.

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III) Functional Tinnitus :-

Due to emotional factors.

IV) Idiopathic causes

B) Objective Tinnitus causes.

1) Clicking tempero madibular joint.2) Clonic contractions of palatal and tympanic muscles. 3) Patulous custachian tube. 4) Live insects in the ear canal, 5) Vascular pathology Ex-Arterio venous shunt. Glomus jugulare tumour, Aneurism of occipital, superficial temporal vessels and arch of Aorta (Around the ear).
6) Intra cranial vascular tumours.

Investigations:

Otological, neurological, cardio vascular, audiological, vestibular and Ra. diological examination are needed for the diagnosis

Treatment :-

Treatment:

1) Cause should be treated 2) Mild sedatives, anxiolytics, vasodilators, 1) Cause should be treated 2) Mild sedatives, anxiolytics, vasodilators, Carbamazepine, vitamins are useful. 3) Reassurance to the patient explaining that it is not dangerous. 4) Masking of the sounds with alarm clock Or radio etc. 5) Surgical treatment -sectioning of cochlear nerve, but is not so beneficial

### 4) KARNA BADIRYA.

(Deafness)

The vitiated vata dosha or vata kapha doshas by deranging or obstructing The vinated value desire or value adjust a social solution of the shabda v. ha srotas (Auditory canal.) or shabda Vaha sira (Vessels) and nerves of the ear or neglecting Kama nada etc. diseases causes difficulty in hearing or in capability of hearing is known as Badirya.

- Kaphaj Badirya can be co-related to conductive deafness Vataj Badirya can be co-related to perceptive deafness
- Vata kaphaj Badirya can be corelated to mixed deafness.

The deafness means impairment of hearing. It can occur at any age, congenital or acquired, and it varies in degree "mild to servere". (Congenital deafness is commonly asso ciate with dumbness)

Types:-1) Conductive deafness 2) Perceptive deafness 3) Mixed deafness.

I) Conductive Deafness :

It is due to defect in the conducting mechanism of the ear (External and middle ears) from external auditory canal to the oval window.

usative Factors of Conductive Deafness :-

a) Causes of External Ear :-

1) Congenital causes (Atresia or Microtia),

1) congenital causes (Auesia of Inficious). 3) Acquired causes like Wax or cerumin, impacted foreign bodies, otomycosis, Otitis externa, Polyps, tumours, myringitis or Tympanic perforations.

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<sub>es of</sub> Middle Ear :-

ges of Middie Edit;
Componital defects of ear drum and ossicles, ossicular discontinuity,
Hamilet lesions like fracture - 15.

Hannolympanum,
Hannolympanum,
Hannolic losions like fracture of Base of skull and Barotrauma
Inflammatic losions like acute of lilis modia, chronic olitis modia, serous of skull and Barotrauma
Inflammatory losions like acute of tilis modia, chronic olitis modia, serous of tilis
modia, adnosivo olitis modia, secratory offits modia, barotraumatic offits modia,
ympano sclerosis, specific offits modia.
Neoplasms
Miscollaneous like otosclerosis,

5.
c) Causes of custachian tube and nasopharynx:
c) Causes of custachian catarrh or obstruction, Eustachian tube dysfunction, Barotrauma, en-Eustachan Calairr or obstruction, Eustaged, adenoids and growths in nasopharynx,

II) Sensory neural deafness or Perceptive deafness II) Sensory neutral deathess of Ferceptive deafness.

The deafness is due to the lesions of Labyrinth (internal ear), 8th cranial nerve (auditory nerve) and central connections. (it includes psychogenic deafness).

The Causative factors of sensory neural deafness :-

1) Congenital causes :-Hereditary developmental defects, consanguineous marriages, Rh incompatability, diseases affecting the pregnant mother (like german measies, diabetes, syphilis, hyperten-sion, pre eclampsia), intake of ototoxic drugs by pregnant women (like thalidomide quinine, sion. Pio tradicing the state of the state o delivery, post natal kernicterus, encephalitis, meningitis, ototoxic drugs, viral infections, head injury etc.,

2) Acquired Local Causes :-

a) Trauma:- Head injury, surgical injury to Labyrinth, loud sounds producing concussion, contusion or laceration of the labyrinth.

b) Infection ;- Like mumps, syphilis Tuberculosis, measles, chicken pox, influ enza, meningitis, enteric fever, labyrinthitis, herpes etc.,

c) Ototoxic Drugs :- Streptomycin, Gentamycin, quinine, salicylates, frusemide

d) Tumours - Acoustic neuroma

e) Meniere's Disease :- Ramsay Hunt syndrome etc.,

f) Degenerative :- Senile deafness or presbyacusis.

3) Acquired General Causes :-

Athero sclerosis, Hypertension, Vasospasm of C.N.S., Labyrinthine artery disseminated sclerosis, cerebro vascular insufficiency due to thrombosis, embolism and haemorrhages, cerebello potine angle tumour.

Diabotos, Hypothyroidism, Avitam<u>inosis,</u> Smoking, Alcoholism, Psychological etc.,

III) Mixed Dealnes: - If both conductive and perceptive dealness are present that is known

as mixed dealness.

Causes: -Blast injuries, Acoustic trauma, Head injuries, Chronic suppurative of this media with Labyrinthitis, senility (Presbyacusis) and otosclerosis.

with Labyrinthitis, senting (cross).

There is no organic cause for this deafness.

IV) Psychogenic Deafness:

1) Psychogenic Dealiness
1) Hysterical: The dealiness is outside conscious control. The patient ceases to listen and so has Patients are usually female (Functional or emotional).

1) A part of the patient of the pat

so fails to hear. Patients are usually and and 2) Malingering: - Patient is conscious of deception. He or she listens intentity but endeavours not to respond. (Pretends to be deaf for personal gains). Causes of sudden Sensory Neural Deafness:

Causes of sudden Sensory Neural Deafness:

1) Vascular: - Spasm, thrombosis, embolism, haemorrhage,

2) Trauma: - Head injury, acoustic trauma, rupture of round window membrane.

3) Infection: - Viral Labyrinthitis, mumps.

4) Meniere's disease. 5) Ototoxicity 6) Central nervous system: - meningitis encephalitis.vascular lesions, trauma. 7) Functional.

### DIFFERENTIAL DIAGNOSIS OF CONDUCTIVE AND PERCEPTIVE DEAFNESS.

where the last new comments about the control of the last specific designs and the control of th	Conductive deafness	Perceptive deafness.
1. Congenital	Less Common	More common
	mainly progressive	Sudden as well as progres
2. History of Viral		
fevers, exanthematous		
fevers, prolonged	Nil	More Common.
medication, sound trauma	•	
4. History of head		
injury, vertigo	Less Common	More Common
5. History of Otorrhoea	Often	Nil
6. Voice	Speaks in Low Voice	Speaks Loudly
7. Noise intolerance	No	Yes
8. Speach discrimination	Good	Poor
9, Recruitment	Absent	present in Cochlear lesion
10. Site of Lesion	External and Middle	Inner ear, 8th nerve
	ears.	with central connections
11. Rinne test	Rinne(-), BC> AC	Rinne positive AC>BC
		But reduced.
2. Weber test	Lateralised to the worse ear	Lateralised to better ear
3. Pure tone Audiometry	BC threshold normal	AC 2015
		AC, BC thresholds both
	micreaseu.	increased.
. Hearing loss	good AC, BC gap.	
-	Not more than 60 dB.	May be more than 60 dB.

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of Deafness:1) Mild deafness 20 to 30 dB.
2) Moderate deafness 30 to 60. dB.
3) Severe deafness:- Above 60. dB.

Investigations.

1) Hearing tests. 2) Audiometry. 3) Caloric tests. 4) V.D.R.L., Blood sugar, serum choles
1) Radiography. 6) Blood pressure. 7) Neurological examination etc.

### ent :-

Treatment; A) Conductive deafness; A) Treating the causative factor
2) Hearing aids.

### B) Sensory Neural Deafness :-

reating the specific causative disease if any like syphilis, Diabetes etc. Vaso dilators for menier's disease like disorders.

Vitamines - B1, B6, B12, A,C.E,
Steroid therapy in sudden perceptive deafness

Tranquilizers, Antidepressants for Tinnitus with deafness.

Hearing aids.

Conversation should be slow, clear and not loud wih the patient. Auditory training and Lip reading.

Presbyacusis: - Senile deafness.
It is a type of sansorineural deafness due to old age, speech discrimination is poor and don't tolerate loud sounds,

### Meniere's Disease

This disease is characterised by a triad of symptoms consisting of 1) Vertigo 2)
Deafness 3) Tinnitus, which occur at irregular and unpredictable intervals. This occurs due to failure of the mechanism regulating the production and absorption of endo lymph.

### Aetiology ;-

1) Exact cause is unknown 2) Vaso spasm (Reduced circulation to Labyrinth)

3) Endo lymphatic hydrops (Increased tension in the endo-lymph of Labyrinth).

4) Emotional factors.5) Sympathetic system over activity causes vasospasm

6) Hormonal disturbances may cause water and electrolyte imbalance in the endo lymph.

7) B. Complex deficiency. 8) Allergy and septic focus.

### Pathology ;-

Increased tension of endo lymph causes distention of membranous labyrinth with degeneration of Labyrinth leads to rupture of mebranous labyrinth, mixing of perymph and endolymph and damage to organ of corti and vestibular neuro epithelium.

Clinical Features:

1) Rodatory type of gliddiness of varying intensity duration and intervals. 2) Fluctuating type of sensor neural deafness, and intolerance to loud sounds. 3) Continuous or ing type of sensor neural deafness and Vomitting present if gliddiness is more. 5) Perspiration, interrupted Tinnitus.4) Nausea and Vomitting present if gliddiness is more. 5) Perspiration, Gastric upset and diarrhoea due to vagal stimulation. 6) Fullness in the affected ear. 7) Read ache 8) Nystagmus. 9) Anxiety 10) First unilateral then becomes Bilateral, Head ache 8) Nystagmus. 9

Diagnostic Criteria:

1) Sensori neural deafness.2) At first deafness present in lower frequencies, latter on at higher frequency. 3) Recruitment present . 4) Speech discrimination reduces. 5) Conal paresis present. 6) Spantaneous nystagmus 7) Directional preponderance present.

Treatment:

1) Reassurance regarding the nature of the disease, 2) Labyrinthine sedatives like
1) Reassurance regarding the nature of the disease, 2) Utamines, 5) Diuretics and Low
prochlorperazine or Dimenhydrinate, 3) Vaso dilators, 4) Vitamines, 5) Diuretics and Low
prochlorperazine or Dimenhydrinate, 3) Vaso dilators, 4) Vitamines, 5) Diuretics and Low prochlorperazine or Dimennyullitate. by vaso Archive and Lot salt diet, 6) Tranquillizers and antidepressants. 7) Avoiding smoking, alcohol, septic focus

Surgery:

1) Decompression or shunt operation of the endo lymphatic sac. 2) Partial destruction of Vestibule 3) Vestibular nerve section. 4) Labyrinthectomy.

Vestibule 3) Vestibule (Lermoyez Syndrome ;- Similar to meniere's syndrome but deafness dominates thevertigo).

### OTO SCLEROSIS

Fixation of the stapes to the oval window due to development of new bone in the annular ligament of stapes. This gives rise to conductive deafness, aetiology is not clear.

s;-1) Deafness 2) Tinnitus 3) Giddiness Signs:-

Flamingo tint - a pink patch may be present on the promontory and may be visible through the drum.

Investigations - Tuning fork test, Gelle test, Audiometry, impedance audiogram confirm the diagnosis

Treatment: - Stapedectomy operation.

### **VERTIGO:**

Vertigo or Giddiness is a disturbance of the sense equilibrium and movements. It is a sense of turning one's body (Subjective vertigo) or the environment (Objective vertigo). Severe vertigo may be accompanied by nausea, vomiting, nystagmus, perspiration, gastric upset and diarrhoea due to vagal stimulation.

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The maintenance of equilibrium depends upon the co-ordination of informations yards of the vestibular apparatus, muscles, joints, tendons, cutaneous touch grow yard visual source. If there is interference with co-ordination of information in the parties are mand cerebellum, then vertigo is experienced.

Causes; Causes; of Ear:

A) Lesions of Ear:

A) Lesions of Lear:

Max, furuncle in the external ear due to vagus stimulation, Eustachian catarrh due manission of negative pressure to inner ear, Labyrinthitis due to A.S.O.M. or, C.S.O.M. or a injury with fracture of Temporal bone and Labyrinth, surgical trauma to vestibule, nead injury herely perilymph fistula due to rupture or viral infections, Vascular changes due of hrombosis or embolism disease, motion sickness and ototoxic drugs.

b) Causes other than Ear :b) Causes other than Eq. :1) hypertension, hypotension, atherosclerosis, aortic stenosis ,mitral regurgita10, cardiovascular lesions diminish blood supply to Labyrinth ,cerebellum and cere101, eq. cause vertigo. tion, etc., cardiovascular lesions diminish blood supply to Labyrinth, cerebellum and cere-brum and cause vertigo.

2) Neurological lesions like vertebro basilar artery syndrome, disseminated sclero-sis, tumour or abscess of cerebellum and brain stem, epilepsy, increased intra -cranial lension, and head injuries causes vertigo.

and head injuries causes vertigo.

3) Metabolic disorders like 8th nerve neuritis due to diabetes, Hypoglycemia etc reduces glucose supply to the vital parts leads to vertigo.

4) Anaemia - Reduced Oxygen supply to Labyrinth and brain stem causes vertigo.

5) Opthalmic lesions like diplopia refractive errors and glaucoma cause vertigo.

6) Cervical spondylosis causes vertigo.

c) Non Patholgical vertigo

Height- Due to unusual visual stimulation from heights causes vertigo.
Spinning movements cause vertigo due to stimulation of semicircular canals.

Sudden changes of Floor texture.

d) Functional vertigo - The causes are still unknown

E) Other causes :

Epilepsy - Hypoglycemia and diabetes (endocrine lesion) Remedies (Ototoxic drugs)

R

Trauma, Tumours, Hypothyroidism

Infection to Labyrinth Glial disease (Multiple sclerosis)

Ocular diseases, other like menier's diseases. 0

Investigations;-

1) History about above lesions. 2) Otoscopy and functional examination of ear. 3) Vascular Examination 4) Radiological Examination. 5) E.C.G. 6) C.T. Scan 7) Pathological investiga-

Treatment :-

1) Cause should be treated 2) Similar to Tinnitus and meniere's syndrome.

### OTOTOXICITY

Ototoxicity is the damage caused by the toxic effects of certain drugs to the

inner ear

Ototoxic Drugs :-

Aninoglycoside antibiotics
Aninoglycoside antibiotics
Cochleo toxic - Neomycin, Kanamycin, Framycetin tobramycin
Vestibulo toxic - Streptomycin, gentamycin.
Diuretics - Frusemide, eithacrymic acid
Saltvulatas

Salicylates
Cytotoxic agents - Nitrogen mustard cisplatinum.
Antiprotozoal - Quinine
Anti epileptic drugs - Phenytoin sodium
Anti epileptic drugs - Phenytoin sodium
Anti heparinzing agents.

Beta blockers - Propranolol.

Clinical Features :

Tinnitus, deafness and vertigo.

Treatment ;- Withdrawl of the medicines.

### POSITIONAL VERTIGO

It is the momentary Vertigo which occurs only in certain positions of the head while changing the position.

Aetiology - Head injury, Labyrinthitis and idiopathic causes.

Aeutougy - Пеад піјиту, Lauyriminus and плюратпіс causes. Pathology - there may be changes in maculae of the utricle or sacule on one side, the otolyth membrane may be damaged. or due to certain brain stem lesions like demyelination or malignant metastasis.

### Clinical Features :-

Momentary or positional giddiness .
No - nausea, Vomiting, deafness and tinnitus.

Treatment - Similar to meniere's disease.

### Vestibular neuronitis.

It is the acute inflammatory condition of the vestibular nerve due to viral infection.

Clinical features:-1) Giddiness, nausea, vomiting present 2) No deafness, tinnitus and recurrence of the dise

Treatment :- Similar to meniere's disease.

### Acoustic Neuroma.

It is the neurofibroma arising from the neurilemma sheath of the 8th cranial nerve in or near the internal auditory meatus.

### Clinical Features :-

1) Unilateral sensori neural deafness and tinnitus 2) Chronic unsteadiness. 3) Trigeminal symptoms 4) Facial paralysis 5) Late Symptoms like intra cranial tumour and headache. 6) Nausea and vomiting absent

### LABYRINTHITIS

Inflammation of inner ear is known as Labyrinthitis, the infection may affect the

Inflammates.

In 3 stages.

In 3 stages.

Circumscribed Labyrinthitis or fistula formation or perilabyrinthine inflammatory process, the infection doesnot reach upto membranous labyrinth.

Diffuse serous labyrinthitis with reversible clinical features. (Mild inflammatory change)

in perliympnauc space)
Diffuse purulent labyrinthitis. Massive purulent infection of perliymph and endo lymphatic space with permanent deafness and loss of vestibular function.
Dead Labyrinth 2)

Clinical Features:

Oliverigo. 2) Deafness. 3) Nystagmus. 4) Nausea Vomitings. 5) Fistula test positive. 6)

Timitus. Treatment:- Labyrinthotomy for the drainage of pus from the labyrinth.

Treatine Labyrinthitis:Infective Labyrinthitis:Infection spread from meningeal route Or haematogenous route.

Viral Labyliniums
Certain viral infections such as measles, mumps, influenza etc may cause destruction of organ of corti and vestibule.

Tox to Labyrinthius.

Layrinthitis occurs by intake of ototoxic drugs like streptomycetin, quinine, diuretics, Tobacco, alchohol etc.,

Traumatic Labyrinthitis. Labyrinthitis due to fracture of skull or temporal bone or due to surgical trauma follows stapedectomy.

Ottic Labyrinthitis

Labyrinthitis due to middle ear infections.

### COMMON TREATMENT PRINCIPLES OF EAR DISEASES (KARNA ROGA)

Oral intake of cow ghee with luke warm milk, especially at night.

Regular usage of Rasayan Yogas like Chyavan prash, Triphala churna 2) with Tila taila, ghritha Or madhu etc.,

Taking rest Or avoiding excessive exertion or strain (Avyaayama ).

Avoiding head bath 4)

Brahmacharya 5)

Avoiding loud or prolonged or irrelavant talking (Pralapa causes vata vitia 6) tion so only mita bhaashan is suggested)

Avoiding the aetiological factors of pratishyaya. 7)

All the treatment principles of pratishyaya. 8)

Vrana hara (ulcer healing therapy) treatment is suggested. 9)

Advised to take mamsa rasa in the meals. 10)

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Advised to take Vata hara, kapha hara ghrithas at nights

12)

Advised to take Vata hara, kapha hara ghrithas at nights.

Advised to take Vata hara, kapha hara ghrithas at nights.

Vegetables like Varthaka, patola, shighru, Karavellaka and food grains like
Goduma, shali, Yava, mugda etc are advised to use,
Goduma, shali, Yava, mugda etc are advised to use,
Systemic treatment principles (Deha shodhan), Abhyanga, sneha pana,
shirovasti, Swedan(nadi Sweda and pinda Sweda), Vaman, virechan,
sharya, vasti, Dhooma and Raktamokshan. etc.
Nasya, Varna prakshalana (Ear wash), Karna dhoopana (Funi
gation), Avadhoolana (Dusting the medicated powders), Karna poorana
(instillation of ear drops) and karna pramarjana (Dry mopping method).
Apathya (contra indications)
Apathya (contra indications)
Alead bath b) Excessive Exercise c) Loud and irrelevant talking (pralapa)
d) Swimming Or diving ) Scratching the skin of external auditory Cangi

a) Head bath b) excessive the skin of external auditory canal discovery and swimming or diving ) Scratching the skin of external auditory canal discovery skin of canal states of heavy bulk food items. g) usage of sticks for the skin of external auditory canal skin of the skin of external auditory canal skin of the skin of external auditory canal skin of external skin of external auditory canal skin of external auditory canal skin of external auditory canal skin of external skin of external auditory canal skin of external skin of externa (karna Kandooyana). I) Oran man or having a cause pratishyaya. i) Vata, Kapha dosha vitating foods or habits which cause pratishyaya. i) Vata, Kapha dosha vitating foods or habits. j) Head injury. k) improper instrumental dosha vitating foods or habits. dosha vitiating loods of historian manupulations. I) Rejecting the head masage. m) Drinking cold water or cool drinks. h) Hearing loud sounds.

1) 2) 3) 4) Karna shoola Karna nada Badirya Karna Kshweda.

These 4 diseases contain similar treatment principles.

### A) The Treatment Principles of Vataj Karna Shoola :-

- Vata hara sneha (Oleus) drugs, for oral administration and for the external applications (Abhyanga- Shiro vasti etc.)
- Nadi sweda Or pinda Sweda with Vata hara drugs.
- Snehika Nasya, virechan, Vasti, Dhoomapana and Karna pooran.
- According to necessity Dosha elimination process (shodhan karma) like Vaman Virechan Nasya Vasti and Rakta mokshan - has to be selected for the therapy.
- According to necessity Local therapies like a) Karna pooran (Filling or dropping the medicine into external ear canal ). b) Karna dhoopan (fumi gation of external ear canal with medicated smoke). c) karna prakshalan (Ear wash.) d) karna mala nirharan (removing wax etc waste material from the ear canal) e) karna pramarjan (Dry mopping
- with cotton tipped sticks or probes), etc has to select for the therapy. Common treatment principles which are explained are also beneficial,
- The following Oleus preparations are advised for oral administration a) cow ghee with Luke warm Milk, especially at night b) Shata Paka Bala taila c) Vata hara snehas like Rasnadighritha, Dashamool taila etc., 86

Bala taila is advised for external applications, Oral administration, Nasya Shiro Vasti and for Karna pooran

Nasya Yogas: Bala taila, Anu taila, Ksheera bala taila, Narayan taila etc.,

9) Nasya Yogas: Bala taila, Anu taila, Ksheera bala taila, Narayan taila etc.,

10) The common drugs used for NADI SWEDA are

10) The genda, Arka, Punarnava, Kapittha, Dathura, Shighru, Agnimantha, Bilwa, Erenda, Tarkeri, Vamshaankur, etc., should grind with Amla Varga drugs Ashwagandha, Tarkeri, Vamshaankur, etc., should grind with Amla Varga drugs like Kaanji, decoction is prepared and is used for Nadi Sweda in Vataj and Kaphaj

 $_{11)}$   $p_{inda}$  sweda is done with the hot bolus of Flesh, packed in cloth pieces (fish  $_{h0}$  , Lavak etc., or with hot solid milk products,)

12) Karna dhoopan with the Kshauma Vastra, guggulu, Agaru and ghritha etc., drugs, The smoke is exposed to the affected site with Dhooma Yantra to dry the infection like fungus.

13) Karna mala nirharan :-

<sub>14)</sub> Karna Prakshalan (ear wash):-

To remove deeply seated foreign bodies, Or to flush out dried ear debris, ear syringing is done with Lukewarm water Or medicated decoctions like Triphala Kashaya etc., drugs.

15) Karna Pramarjan (Dry mopping).

The Oozing ear secretion or Wet ear canal is cleaned Or dried with cotton tipped stick or probe.

16) Karna pooran Yogas :-

a)The extracts of following wet medicines (Swarasa) should put in the ear,

Lashuna, Aardraka, Shigrubeeja, Moolaka, Kadaliphala, Kapittha, Mathulunga, Arkapatra, Suryamukhee, Tila parnee, shyonaka etc., drugs individually or in combination.

b) Puta paka Swarasa of

Ashwatha, Bilwa, Arka, Erenda, Moolaka, shyonaka etc., the drugs are used individually. by the application of lavan and taila the leaves are heated and the juice is extracted by special process and is used for karna pooran

Oil prepared with above 2 groups of drugs, is used (either individually or

in compination). The following Oil preparation are used for karna pooran. d)

Nirgundee taila, Kshara taila, Bilwa taila, Ksheera bala taila, Hingwadi taila Nirgundee taila, Katu taila, Kakajangha taila, Nagaradi taila, Dasha Nirgundee taila, Kshara taila, Juwa taila, Kombola dalla, Hingwadi taila, Apamarga Kshar taila, Katu taila, Kakajangha taila, Nagaradi taila, Dashamoola taila, Katu taila, ghritha, Ashwatta patra Khalla taila, Karnabindu taila etc.

Lashundusers

atc.,

Milk or stanya (Breast Milk) or Kaanji are used for karna pooran

Milk or stanya (Breast Milk) or Kaanji are used for karna pooran

Kama pooran with Lukewaram urine of the 8 types of Animals like 1) cow

2) Sheep 3) Goat 4) Buffallo 5) camel 6) Elephant 7) Horse 8) Donkey etc. (individually)

(Individually)

Karna pooran with the oil prepared with Hingu. tumburu, shunthi and Sarshapa taila etc drugs.

Karna pooran with the Oil prepared with Devadaru, shunthi, Vacha, Kama pooran with the Ull prepared with Devaders, shariffli, vacha, shatahwa, Kusta, saindhava Lavan, sarshap, Aja mutra, taila etc drugs. shatahwa, Kusta, sainonava Lavan, saionap, nga maua, tana etc drugs Kama pooran with Oil prepared with Varata bhasma. agaru (scented items) Rasanjan, Shunthi, Tila taila etc drugs.

Rasanjan, Shunthi, Ilia ialia etc uruge.

Karna pooran with the Oil prepared with decoction of vatahara drugs, 8 types of animals urine, amala varga drugs, and chathur Sneha (Sarpi Taila - Vasa- Maila).

Karna pooran with the Oil prepared with Hingu, Shunthi, Saindhava Lavan k) Sarshapa taila etc drugs.

Karna pooran with the Oil prepared with Samudraphena, Vacha, Shunthi Saindhava lavan, Aardraka Swarasa and Tila taila

Karna pooran with the Ghee prepared with goat's urine, vamsha twak and cow's ghee.

Karna pooran with goat's milk and saindhava Lavan (in Luke warm State).

Karna pooran with the compound formed by Kantakari moola 1 phala Goat's milk 8 phala, Kukkuta Vasa and heated again this can be used for Karna pooran.

g) Karna pooran with Deepika taila.

Bruhat pancha moola or Devadaru or Kusta Or sarala etc, drugs 18" Length root is taken and covered with Kshauma Vastra (Malmal Cloth ) is dipped in medicated Oil and the Lower end of the root is burnt and the drops which are dribling from the flame should be collected for karna pooran.

Vataja pratishyaya Chikitsa - should be given.

18) Vata Vyadhi Chikitsa should be given.

Nidana parivarjana (Avoiding the causative factors or predisposing 19) 88

Giving, shoola hara shotha hara yogas like Triphala guggulu Kanchanara 20) Ekangaveer ras, saribadi vati, Induvati, Lakshmivilas ras, Lagusutha sekara ras, Khadhiradi Vati, etc drugs are beneficial

Preatment principles of Pittaja Karna Shoola.

Most of the drugs of Vataja karna shoola are effective for this disease also Most of the set the following principles are also helpful 1) Pittaja pratishyaya Chikitsa,

Vata Vyadhi chikitsa,

Vata Vyadin Cinimon, Abhyanga Nasya and shiro Vasti are advised with sheeta Veerya snehas. Sneha virechana, Or mrudu Virechana, shaman Nasya, Virechanika

Sneria vinconais, serviced with vinconais, snaman Nasya, Virechanika dhooma, shaman gandoosha etc., are useful.
The Oil prepared with the decoction of Yastimadu and Milk (1and 2 prasta), Tila Taila 1 Kudava, and semi solid paste (kalka) of Yastimadu, Guduchi, Tila I and the state of the sta

fective.

8) Nasya Yogas:
a) Vidari gandhadi ghritha. b) Kakolyadi ghritha. c) Panchavalkala ghritha (leaves of ficus group), d) Chandanadi ghritha. e) Yastimadu ghritha, f) Ksheera Bala of ficus group, and taila, h) Anu taila, i) Ksheeri sarpi.

9) Karna Pooran Yogas :-

Karna pooran is done with any of these

a) Stanya (Breast milk) b) Ghritha (Old ghee) c) Ksheeri sarpi.d) Ashwatha patra Khallasta tail Or ghritha. e) Kanji. f) Deepika taila. g) Ghee prepared with yastimadu chandan Trivruth Sugar and Chatur snehas. h) Yastika ghritha I) Chandanadi ghrita, j) Maha Tiktha ghritha. k) Ksheeri Vruksha pallava ghritha I) Kakolyadi Ksheera (According to ksheera Paka) m) Kakolyadi ghritha. n) Vidarigandhadi ghritha. o) the decoction of Draksha Yastimadu and stanya p) Asta mutra with saindhava lavan or samudra Phena churna. q) Aja ksheera + Saindhava Lavan or samudra phena churna. r) with leaves extract (Swarasa) like Arka, Tulasi, Vasa, Lashuna, Aardraka.

### C) Treatment Principles of Kaphaja Karna Shoola.

Most of the above yogas are useful, in addition the following principles are

1) Abhyanga with ushna veerya sneha like pippalyadi ghritha. 2) Rooksha sweda. 3) Vaman. 4) virechana 5) Rechan Nasya. 6) Teekshna dhooma pana & Gandoosha. 7) Kaphahara lepa, Shiro Vasti and Karna pooran.

8) Kama Pooran Yogas:
a) Ingudi and sarshapa taila,
a) Ingudi and sarshapa taila,
c) Surasadi taila. d) Bruhath panchamoola taila,
b) Lukewarm sarshapa taila. c) Surasadi taila, matulunga, shiyonaka, Tulasi
moolaka, Kadali kanda, shirgru, (either individually Or in combinion. f) Oil prepared with above drugs.g) Arka patra puta paka swarasa h) Kanji and samudra
phena or saindhava lavan. i) Sarshapadi Taila - prepared with varmsha twak, Aja
or avi mootra (Goat or sheep Urine), Tila taila, hing, shunthi, Sarshapa taila.

### D) Treatment principle of Raktaja Karna shoola

D) Treatment principle of manager 1) Like pittal karnashoola 2) in addition sira mokshana is suggested by Vagbhata,

### E) Treatment Principles of sannipataj Karna Shoola

1) Tridosha hara Chikitsa

2) All the above principles are beneficial.

### SPECIAL TREATMENT PRINCIPLES OF KARNA NADA AND KARNA KSHWEDA

1) Karna shoola treatment, 2) Pratishyaya treatment, 3) If kapha dosha is associated, first Vamana Karma is advised. 4) Vata dosha Chikitsa should be associated, first Vamana karma is advised. 4) Vata dosha Chikitsa should be associated, first Vamana Karma is auvised. To vote docine Chikiisa should be done, 4) karna pooran with a) katu taila or sarshapa taila b) Vacchadat taila (the Oil done, 4) kama pooran wiiii aj natu talia di nada twak Sarjakshara, Pippali tila talia), pepared with vacha Hingu jatamamsi Lavanga twak Sarjakshara, Pippali tila talia), c) Kama nada hara talia (prepared with Frenda varuna shigru moolaka etc drugs c) Kama nada nara talia (prepalete mili Erotata talia 1 part, other drugs are Yastimadu kakoli Ksheera kakoli etc. drugs.) d) Shambhooka taila e) Lashunadya taila f) Nagaradi taila, g) Apamarga Kshar taila. h) Bilwa taila etc are useful. 5) Oral administration of drugs like.

5) Oral administration of drugs like. a) Sarivadi Vati.b) Rasnadi guggulu. c) kanchanara guggulu. d) Triphala guggulu. e) Ekangaveer ras f) Vatavidwamsini vati h) Induvati with Amalaki Swarara i) Chopacheenyadi Chooma j) Krauncha beeja choorna k) Ashwagandha rista or I) Balarista m) Drakshasav n) maha Rasnadi quath o) Shankha Pushpi syrup p) Saraswatarista q) Brahmi Vati. r) Lakshmivilasras with Gold. s) Susthasekara ras ato are henificial

### SPECIAL TREATMENT PRINCIPLES FOR KARNA BADIRYA.

Like, Vataj Karna shoola, Vataj pratishyaya and Vata Vyadhi treatment.
 Vaman etc shodhan Karmas to eliminate Kapha etc doshas, to purify the body.

### 3) Karna Pooran Yogas .:-

a) Lashunadya taila (Lashuna Amalaki Haritala each 25 gram, Tila taila 250grams, Milk 1 litre, 4 times water, Oil should be prepared according to taila paka vidhi) b) Nagaradi taila :- Should prepare with shunthi saindhavalavan pippali musta Hingu Vacha Lashun each 1 Tola,Arka patra swarasa 1kg, phalasha patra swarasa 1kg, Tila taila 250 grams.

Dashamoola taila (oil prepared with Dashamoola - Tila taila )
Kakajangha taila (oil prepared with Kakajangha - Tila taila )
Apamarga Kshara taila (oil prepared with Apamarga Kshara Tila taila ).
Bilwa taila :- Bilwa majja 250 grams should be grinded in 1kg gomutra,
add 1kg cowmilk and 1kg tila tail - Oil should prepare.

g)

add 1kg cowmilk and 1kg tila tail - Oil should prepare.

Shambhooka taila

Raktha mokshan is suggested by vagbhata.
oral administration of Indu Vati with Amalaki Swaras.

Rasayan, Brumhan, Nadibalya Aushadas should be given.

Deafness if occurs to children (due to congenital Or hereditory causes)

Aged or old or existing since long time is said to be Asadya.

### 5) KARNA SRAVA OR KARNA SAMSRAVA

(Chronic suppurative Otitis media (C.S.O.M.) Otitis externa-Otorrhoea).

Vitiated Vata dosha causes pus discharge from the ear due to head injuries (Shirobhighatha), diving in water (Jala nimajjana), inflammation of aural mucosa (karna Paka), and ear abscesses (karna Vidradi) etc causes, is named as karna srava or Karna Samsrava.

### 1) Head injuries (Shirobhighata)

Traumatic lesion of external ear (otitis externa) and middle ear (Otitis media) causes foul pus discharge from ear due to suppurative inflammatory processes

2) Diving in water (jalanimajjana) It causes forcible entry of polluted water into the ear canal, that may cause tympanic rupture along with Aural inflammation (Otitis externa- otitis media - myringitis and tympanic perforation or rupture).

### 3) ULCERATION OR INFLAMMATION OF AURAL MUCOSA (KARNA PAKA)

It is the main factor for the suppurative inflammation of external or middle ear in which infection spreads to the ear through external auditory canal, eustachian tube, blood stream or due to traumatic lesions.

### 4) Ear Abscesses (karna Vidradi)

Suppuration of abscess of external ear Or middle ear may causes pus

Note :- By above discription it is clear that, Karna srava is one of the clinical features of the suppurative lesions of the external and middle ear like, Otitis externa (furunculosis - diffuse otitis externa) suppurative otitis media, etc.,

### 6) POOTHI KARNA

(Supurative Otitis media - Otitis externa Foul Otorrhoea.)

(Supurative Unus mounts)
(Supurative Unus moun

According to Sushrutha;
The kapha of Kama Srotas (The mucosal lining of the ear) is melted by pittoshma (Acute inflammatory process) and causes foul sticky ear discharge with or without pain, is known as poothi karna.

or without pain, is known as pooling or without pain, is known as pooling or without pain, is known as pooling or without painful condition with profuse sticky foul discharge from the ear is due to the chronic inflammatory process of ear, either middle or from the ear is due to the chronic inflammatory process of ear, either middle or external ear, So poothi karna is a clinical feature observed in suppurative lesions with the configuration of the external ear, So pootni karna is a unincan reactive operative of middle ear (Suppurative offis media ) and external ear (Offits externa).

### 7) KRIMI KARNA (Maggots in the ear)

It is a curable disease of the ear occurs by the vitiation of Tridoshas in It is a curame disease of the second first are Visualised with severe otalgia (ear which a single or multiple small insects are Visualised with severe otalgia (ear

(1) The maggots (flies, mosquitoes ants etc., may enter into the ear canal from outside, erode the tissue of the ear canal and so causes severe earache

(2) Unhygienic conditions, impaction of ear wax, ulcerative lesions suppurative conditions etc., may vitiate vatadi doshas that deranges the Twak, Rakta, Mamsa of the ear canal and small infective organisms are produced from the excreta (dead tissue wax exudations pus etc) these also cause destructive process and associate with severe earache.

(1) Vitiated Kapha causes - Collection of debris or exudates causes itching, foul smell and animate Foreign body sensation.

(2)Vitiated pitta causes tissue degeneration (Dhathu Paka ) Putrifaction

(3) Vitiated Vata Causes severe earache.

### Treatment principles of Karna Srava - Poothi Karna and Krimi Karna.

- Karna Srava Poothi Karna and Krimi Karna are having Similar treatment
- Common treatment principles of Karna roga are also applicable here. 92

non treatment procedures for these 3 diseases are

- Shiro Virechana Dhooma Pana Swedana

  - Gandoosha
  - Dusta Vrana Chikitsa
  - Karna prakshalan Karna Pramarjan
  - Karna dhoopan
  - Karna Pooran
  - Karna Avachoorana

### SPECIAL REMEDIES FOR THE TREATMENT OF KARNA SRAVA OR KARNA SAMSRAVA

(1) The ear discharge (mucoid, mucopurulent, purulent Blood stained rges) should be cleaned by ear wash (karna Prakshalana Or Karna dhavan) discharges) should be cleaned by ear wash (karna Prakshalana Or Karna dhavan) with the following decoctions.

(a) Triphala Kashaya b) Yastimadu Kashaya c) Shunthi Kashaya,(b)

(a) ..., (b) ..., (b) ..., (c) ..., (c) ..., (c) ..., (c) ..., (c) ..., (c) ..., (d) ..., (d) ..., (e) k) Manjista, Khadira Sariva, Patola, Guduchi, Rasna, shigru, etc decoctions.

The decoctions are taken in the ear syringe for ear wash, while syringing the nozzle of the syringe should face the walls of the ear canal and piston should be pressed with gentle pressure.

- 2) After Karna prakshaalan the ear canal should be cleaned with cotton buds known as karna pramarjana (Dry mopping)
- 3) The Residual exudations should be dried by inserting medicated smoke or fumes is known as Karna dhoopan, it is done with Vrana dhoopan Yantra. The common remedies which are used for dhoopan are guggulu, Agaru, kshauma Vastra, rasanjan, Hingu, Varthaka Phala, Vidanga etc. drugs.
- 4) Karna pooran Putting the ear drops or Dusting the medicated fine powder into the external auditory canal is known as Karna pooran.

### Some Remedies of Karna Pooran :-

a) With Triphala Kashaya or Aaragwadadi Kashaya etc., decoctions which are used for ear wash.b) Tindukadi pancha Kashaya (Tinduka Abhaya Aamalaki Lodhra Manjista).c) Sarja Twak + Vana Karpasa phala swarasa + honey d) Tindukadi Pancha Kashaya + Kapittha Swarasa + Honey. e) Sarja kshara + Lemon Juice. f) Pancha Valkala Kashaya + Kapittha swarasa + Honey. g) Dusting the fine medicated powders into the ear canal (Karna avachoornan with the following medi-

A) Samudra phena Churna

E) Rasanjan F) Sarjarasa

B) Sphatic bhasma

G) haridra Churna

C) Tankan bhasma

D) Laksha Choorna

p) Laksila direction of pancha Kashaya, panchavalkala kasahya, Triphala **H) Quatha Churnas** of pancha Kashaya, Surasadi Kashaya, Aragwadadi Kasaya, Surasadi Kashaya, Raja Vrukshadi Kashaya etc.,

Karna pooran with the Oils prepared with above decoctions. Karna pooran with the Oils prepared from Amrapallava, Kapittha pallava,

Madhuka, dhava, shalatwak and taila.)

Madhuka, dhava, shalatwak airu temar, Madhuka, dhava, shalatwak airu temar, Kama Pooran with Priyangwadi taila (Priyangu, Yastimadu, Patha, Dhataki,

Kama Pooran with Triyarigwadu cana (1 1794-1991, 1 1804), Patha, Dhata uthphala, Shalaparni, Manjista, Lodra, Laksha, Kapittha and taila. Kama Pooran with the oil prepared from Doorva, snuhi, Jambu, Amra Karna Pooran with the on prepared norm books, Shuhi, Jambu, patra, Karkatak Shrungi, Manduka Parni, Honey and Taila.
Rechana Nasya (Apamarga beeja churna Or Katphala Churna)

Dhoomapan, Swedan, Gandoosha etc,has to do according to the condition of the patient.

### SPECIAL REMEDIES FOR TREATMENT OF POOTHI KARNA.

1) The common treatment principles and remedies are merely like Karna srava

2) The order of treatment procedures are like the following

a) Karna Prakshalan

Ear wash

" Pramarjan " Dhoopan

Dry mopping Fumigation

" Pooran

Filling the medicated drops.

### 3) Some remedies of Karna pooran -

a) Most of the preparations are as like Karna Srava. b) Stanya + ghritha + madhu + Rasanjan. c) Jambu, Amra, Kapittha, Karpasaphala swarasa + madhu. d) Oil prepared with above drugs + Sarshapa, Nimba, Karanja + Taila. e) Oil prepared with Amra, Jambu, Yastimadu, Vata patra, Jathi patra + Taila. f) Oil prepared with Nirgundi patra, Saindhava Lavan, Gruha dhooma, guda, madhu and Taila. g) Kustadi taila prepared with, Tila Taila 1kg, Ajamutra 4 Kg, Kalka dravyas - Kusta, Hingu, Vacha, Devadaru, Shunthi, Saindhava Lavan - Total 250 grams. h) Jathi patra Swarasa + Honey. i) Gomutra + 125mg. Haritala. j) Nishataila - Prepared with 8 phala sarshapa taila, Haridra and Gandhak each 1 phala, Dathura swarasa 10 phala. k) Nasya Gandoosha, Dhoomapana, swedan etc., according to the condition.

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### Special Remedies For Tretment of Krimi Karna:

Treatment principles and most of the remedies are as like Karna srava Treatment principles and most of the remedies are and poothi Karna.

Dusta Vrana and Krimi hara treatment should give.

The order of treatment procedures is

1) Karna prakshalan

2) "Pramarjana

Ear wash

" Dhoopan 3)

Dry mopping Fumigation.

(with guggulu, Agaru Hingu, Vidanga Rasanjan, Kshauma Vastra, Varthaka phala etc.)

4) Karna Pooran

4) Additional Karna pooran preparations for the treatment of Krimi Karna are: 4) Additional Training Agents of the treatment of Krimi Karna are:
a) Sarshapa Taila. b) Gomutra+125 mg Manahshila. c) Gomutra+Vidanga Churna.
d) Oil prepared with Nimba Kashaya 12 grams, haridra Churna 1 gram, Sarshapa
taila. e) The extracts of Langali moola, Phalasha moola, Trikatu, Suryamukhee, Sindhuvar, etc drugs.

5) The visible alive or dead insects should be removed by special skillfull tech-

### CONGENITAL ABNORMALITIES OF EAR :-

### A) External Ear Defects :-

- A) External car Defects. 
  1) Pre auricular sinus it is due to improper fusion of the auricular tubercles during the developmental stage. The exact site of the sinus is near the tragus and root of helix.

  2) Small elevations of Skin with cartilage at tragus and helix.(accessary auricles)
- 3) Anotia :- Absence of Pinna
- 4) Microtia :- Small deformed Pinna
- 4) Mutroita: Abnormally big sized pinna 6) Coll aural fistulae: A fistula in between external auditory canal and angle of jaw at theanterior border of sterno mastoid.
- 7) Dermoid Cysts :- Develop on the Pinna.
- 8) Darwin's tubercle: A small elevation on the postero superior part of helix
- 9) Wilder muth's Ear :- Anti helix is more prominent than helix, lobule may be absent or adherent to the side of the ear.
- 10) Bat ear :- Abormal outward protrusion of pinna with absence of anti helix.
- 11) Atresia of external auditory canal.12) Changes in the curvature of the external auditory canal.
- 13 Treacher collin's syndrome hypo plasia of external ear, middle ear, eyes, malar bones, maxillae and mandible.

### Treatment :-

- Plastic surgery in minor defects.
- 2) Prosthesis in major deformities.
- Excision of Sinuses and cysts.

Middle ear defects (Congenital)

Middle ear work makes with incus Or maileos adherent to the walls of epitympanism.
 All Fusion of maileus with incus Or maileos adherent to the walls of epitympanism.
 All Fusion of maileus or stapes. c) Fusion of Foot plate of stapes to Oval window of Fusion of Incus with maileus or stapes.

Abnormal coarse of Facial nerve in its bony canal. Treacher collins syndrome.

nent :

Surgical exploration to reconstruct the parts for the maintenance of normal hearing

C) Internal Ear :

1) Abnormalities of Bony or membranous Labyrinth.
2) Deaf mutism.

Deaf mutism.
 Spensori neural deafness (cochlear and auditory nerve lesions).
 Labyrinthine lesions with the symptoms like vertigo Tinnitus develops.

DISEASES OF EXTERNAL EAR

1) Haematoma of Pinna :-

materia or Fama --Collection of blood on the outer suface of the pinna under the perichondrium

Treatment:1) Aspiration and pressure bandage. 2) Antibiotics. 3) Analgesics and Anti inflammatory drugs.

2) PERICHONDRITIS OF AURICLE:-

Perichondritis is the inflammation of cartilage of Pinna. It may follow haematoma injury to pinna as a complication of furnculosis and mastoid surgery.

The causative organisms are staphylo cocal aureus, Bacillus pyocyaneus. It is a ne causative organisms are siaphylo coolal acheus, pachilus pyocyaneus. It is a very painful condition with acute inflammatory features and leads to necrosis and deformity of pinna.

Treatment :-

1) Antibiotics. 2) Incision and drainage of pus. 3) Pressure bandage. 4) Plastic surgery for the correction of the deformity.

3) Frost Bite of the Pinna :-

It is the lesion of pinna for being exposed to temperature variations like cold affect and produces pain, burningsensation, oedema, blebs and necrotic changes

1) Slow thawing.2) Vaso dilator drugs. 3) Treatment like gangrene. 4) Burns of Pinna -

4) Burns of Pinna:- Should be treated as per surgical methods.

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pseudo cysts of Pinna:
Should treat by 1) Aspiration 2) Incision and drainage 3) Pressure bandage 4)
Wound therapy.
Ottlis Externa:

by it the inflammation of

6) It is the inflammation of mocosa of the external ear It may be Acute or chronic, Localise C Or diffuse, infective or reactive.

CLINICAL TYPES OF OTITIS EXTERNA

CLINIO EXTERNA
A) Due to Infection.
A) Due to Infection.
a) Bacteria 1) Localised otitis extena Or furunculosis. 2) Generalised or Diffuse
otitis externa 3) Erysepelas.
1) Otomvensis

b) fungal c) Viral

Erysepelas.

1) Otomycosis

1) Herpes Simplex 2) Herpes Zoster
3) Bullous Myringitis.

B) Reactive

1) Eczematous Otitis externa

Seborrhoeic Otitis externa
 Seborrhoeic Otitis externa
 Myringitis
 Malignant Otitis extena

5) Keratosis Obturans etc

Localised Otitis Externa Or Aural Furunculosis.
It is a staphylococcal infection of root of hair follicle and sebaceous gland in the cartilagenous portion of external auditory canal.

The infection usually follows

1) Injury to canal while cleaning. 2) Affection of ear discharge coming from middle ear. 3) Diabetes.

Clinical Features :-

1) Severe pain in the ear that aggravates by the movement of pinna, chewing, yawning and 1) Severe pain in the ear that aggravates by the movement of pinna, chewing, yawning and opening the mouth. 2) Swelling and redness of meatus wall. 3) Otorrhoea - When the furuncle ruptures. Blood stained purulent discharge comes. 4) Deafness due to occlusion of meatus with furuncle. 5) Tinnitus at night. 6) Severe tiching sensation. 7) Trismus. 8) On examination meatus appears congested, oedematous, stenosed and with pus collection. 9) Infection by spreading backwards causes cellulitis in the post aural region, by obliterations of the original processor of the original processor. ing post aural groove and the auricle stands out forwards and outwards. 10) The infection may cause perichondritis and post aural Lymphadenitis etc. 11) The infection spreads forwards into parotid region through the fissures of santorini and inwards into tympanic cavity through the notch of Rivinus.

1) Packing of the canal with gauze soaked in 10% lchthyol in glycerine, glycerine reduces oedema and pain where as Ichthyol is an antiseptic. 2) Antibiotic drops. 3) Antibiotic drops with steroids. 4) Ear toilet by cleaning the secretions. 5) Incision and drainage of Furuncle may be performed for prompt relief from pain. 6) Systemic Antibiotics, analgesics and anti inflammatory drugs. 7) Diabetes if present should be treated.

Generalised or Diffuse Ottlis Externa.

Generalised infection involving the entire skin of external auditory canal including canadised infection involving the entire skin of external auditory canal including Generalised intection invo-the surface of tympanic membrane.

the surface of your processing factors are scratching of the ear canal, water entry into ear canal, unskilled instrumentation and affection of the discharges of Acute or chronic suppurative unskilled instrumentation and affecting organisoms are staphylococcus aureus PS. The commonest affecting organisoms are staphylococcus aureus PS. pyocyanea, B. Proteus, E.Coli. etc.,

The Common clinical features are:

The Common clinical features are:

I piritation discomfort and pain in the ear. 2) Inflammatory changes in External auditory canal. 3) Crusting, desquamation and discharge with stenosis of external auditory canal,

Treatment:

1) Avoidance of predisposing factors. 2) cleaning the ear canal by putting Astringent drops, ubricants, Hydrocordisones and with antibiotics etc drug applications. 3) Systemic antibiolics, Analgesics and anti inflammatory drugs.

3) Erysepelas.
It is an acute streptococcal Lymphangitis and dermatitis of ear canal, spreads rapidly which often follows a scratch.

Treatment:- Systemic antibiotics, Anti inflammatory drugs.
1) 10% Ichthyol in glycerine application. 2) Ultra Voilet light exposure.

4) Oto Mycosis.

4) Oto Mycosis. It is one of the varieties of Otitis externa which is caused by the fungus. It is common in the damp and rainy seasons, it is very painful infection, fungus causing the

Clinical Features:

1) Severe pain with tiching 2) Scanty Brownish Or blackish discharge. 3) Deafness Tinnitus 1) Severe pain with inching 2) scariny prowinish or brackish discharge. 3) Dearness Finnitus and Trismus may also present. 4) On Examination cotton like growth or wet news paper like mass (Brownish Black ) present with inflammatory changes. 5) Other symptom of otitis externa also present.

Cleaning the ear frequently. 2) Instillation of drops of Broad spectrum fungicides. (clotrimazole, tolnaftate, Nystatin etc. 3) Symtomatic treatment.

5) Herpes Viral Infection :-

1) Vesicles formation in the external auditory canal. 2) It is a neurotrophic virus causes paralysis of facial nerve (Ramsay hunt syndrome - Deafness vertigo and facial nerve palsy).

6) Bullous Myringitis :-

Haemorrhagic vesicles on the external surface of the ear drum. There is severe pain conductive deafness and blood stained otorrhoea.

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Treatment:

10 Local and systemic antibiotics. 2) Analgesics and anti inflammatory drugs. 3) Aural (piled. 4) Anti histemine drops.

(night, 4) / ...

(page matous Otitis Externa: 
This is allergic dematitis of the external auditory canal (allergen may be extrinsic or intrinsic)

Clinical Features :-Clinical Features:
(Initiation, redness, oedema follwed by vesication, weeping and curst formation. 2) In definition stage or with secondary infection fissuring and scaling of external ear canal is observed with fibrosis and stenosis.

Treatment:

1) Steroid or Antibiotic Ointment applications. 2) Systemic antibiotics. 3) Anti histamines.

4) plastic surgery for fibrosed or stenosed external auditory canal.

8) SEBORRHOEIC OTITIS EXTERNA

It is similar to seborrhoeic dermatitis of scalp. Characterised by a greasy scaly and crusty skin of the external wall with itching sensation.

Steroid or Antibiotic Ointment applications.
 Aural Toilet 3) Shampooing of Scalp every alternate day.
 Systemic antibiotics and anti inflammatory drugs.

5) Anti histamine drugs etc.,

9) Myringitis :-

Inflammation of external surface of ear drum.

Clinical Features :-

Severe pain, deafness, tinnitus and discomfort in the ear canal.

10) Malignant Otitis Externa :-

It is a progressive necrotising infection of ear canal and involves the tissues of the base of skull and temporal bone along with cranial nerves. The causative organism is pseudomonas and commonly occurs to the chronic diabetic.

Clinical Features :-

1) Rapidly spreading granulations in thejunction of Bony and cartilaginous meatus. 2) Infection spreads to parotid, Base of skull and to cranial nerves (7,9,10.12, ).

1) Diabetes should be controlled. 2) Local and systemic antibiotics. 3) Surgery to drain the abscess or to remove necrotic tissue.

II) Keratosis Obturans:It is due to abnormal desquamation of the epithelium in the deep external auditory
canal, forms similar lesion like cholesteatoma and causes bony erosion with destruction of
surrounding tissues.
Treatment:- Surgery.

12) WAX:Wax is a mixture of secretions of the ceruminous glands, sebaceous glands, shedded epithelium and dust particles, etc.

epithellum and seep.

If the wax is impacted in the external auditory canal causes pain, discomfort, onductive deafness, tinnitus, vertigo etc.,

Treatment:1) Wax removal by the instillation of Lubricant drops etc.,

Note: (detailed explanation given at Karna gootha disease description).

13) Foreign Bodies of External Ear.

Various types of Foreign bodies are found in the ear.

### CLASSIFICATION

. Animate (Living things) insects Maggots etc.

B) Inanimate (Non Living things)

a) Hygroscopic Swells with water) Ex peas, wheat etc.

a) Nonhygroscopic (Doesn't swell with water) sand particles plastic pieces metal particles, etc.

### Treatment :-

1) Animate Foreign bodies: - Instilling of oil or water into the ear to suffocate the insect then by syringing or Forceps or with foreign body removing hook ,probe etc. Foreign body should be removed.

### 2) Hygroscopic Foreign bodies :-

These swell with water so syrining causes impaction of foreign body by increased size instilling glycerin or alcohol is advisable to shrink and lubricate the foreign body then with the help of Forcep Foreign body should be removed.

- 3) Non hygroscopic Foreign bodies can be removed by ear syrining with water etc.,
- 4) In Non co-operative patients like children general anaesthesia should be given to remove Foreign bodies.

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14) Tympanic Membrane Rupture or Perforations:
Rupture follows trauma and the perforation follows pathological lesions
Actionary of tympanic rupture:
Actionary of tympanic rupture:
Actionary of tympanic rupture of tympanic rup

al bone. <sub>In</sub> traumatic ruture of tympanic membrane the lesion is irregular and not easy for

The tympanic perforation is commonly due to middle ear pathology, these are
Central perforation (heals quickly)
Marginal perforation (Difficult for healing)
Attic perforation (Complicative)

Clinical Features;
Deafness, Tinnitus, earache, vertigo, otorrhoea, inflammatory changes and with tympanic perforation.

ent :-Swimming, head bath, syringing of the ear, mopping of the external auditory canal etc should be avoided.

Aural tollet
Systemic Broad spectrum antibiotics like pencillin.
Treatment for associated symptoms.

If treatment doesn't respond. Myringo plasty operation is the only alternative.

### DISEASES OF MIDDLE EAR CAVITY ;-

Otitis media :-

It is an inflammatory condition of mucosa of middle ear cavity

### CLASSIFICATION

- 1) Suppurative otitis media a) Acute
  - b) Chronic
- 2) non Suppurative otitis media a) Acute
  - b) Chronic
- 3) Specific otitis media Ex. TUberculous, syphilitic.
- 4) Adhesive otitis media

### 1) ACUTE SUPPURATIVE OTITIS MEDIA (A.S.O.M.)

It is an acute inflammatory condition of middle ear mucosa. The common organisms responsible for this disease are streptococus haemolyticus, staphylococcus aureus, pneumococcus, haemophilus influenzae, Bacillus pyocyneus, Bacillus coli, Bacillus pro-

Actiology: 1) it is common in children than adults

Actiology: 1) it is common in children than adults

Eustachtan tube: It is shorter wider and horizontally placed in children, So only most or naso pharyngeal indictions easily spread into middle ear and cause the disease. (In major, it is of case) in the common that is the common time of the rupture of latection as spreads in to middle ear through the external ear canal by the rupture of latection as spreads in to middle ear through the external ear canal by the rupture of latection and latection a

Pathology:
The infection passes through 5 stages
1) Catarrhal state or stage of congestion, occlusion of eustachian tube and congestion in the middle ear

2) Stage of exudation: Exudates collects in the middle ear which is serous at first and later becomes purulent.

3) Stage of Suppuration:

The collected pus in the middle ear stretches the drum and perforates by presure necrosis and the exudates starts escaping into external auditory canal.

4) Stage of healing; Depending upon the virulence of the organism, resistance power of the patient and drugs administration the infection clears up completely without complication.

5) stage of complications;

If resistance power of patient is less, infecting organism is more virulent and proper antibiotics are not given, the infection progresses and cause complication, like mastoiditis

### Clinical Features :

1) Catarrhal stage: - Heavyness and pain in the ear, deafness, tinnitus, autophony, fever body pains.

Retraction and congestion of ear drum with loss of light reflex is seen on examination.

2) Exudative stage; - Above symptoms aggravate, and bulging of tympanic membrane by the pressure of exudates of tympanum.

### 3) Stage of suppuration :-

a) At this stage drum perforates and pus starts flowing out b) Pain and other constitutional symptoms reduce after escape of ear discharge c) The type of discharge can range from mucoid to frankly pus 102

 gtage of healing; it may begin from any stage depending upon the virulence of organ-resistance power of patient and administration of antibiotics. | Stage of Complicatins:-| Stage of Complications:-

Systemic antibiotics like erythromycin, ampicillin, pencillin, etc. for 7 days.
Systemic and Local (nasal) decongestants to decongest the mastoid tympanum
Analgesics and anti inflammatory drugs.
Instillation of antibiotic ear drops. 1) 2)

Aural toilet, ear discharge may be mopped with cotton buds.

6) Myringotomy:-Giving incision to drain the pus from middle ear cavity, in exudative stage under general anaesthesia to avoid irregular tympanic rupture and to promote easy healing.

### MYRINGOTOMY

It is a surgical procedure in which ear drum is incised to drain the exudates of middle ear cavity, in the stage of exudation of Acute suppurative otitis media to prevent tympanic rupture and to relieve from severe earache.

1) Atropinisation to prevent vaso vagal attach. 2) General anaesthesia is given. 3) Patient lies in supine position with the head turned to the opposite side of the affected ear. 4) Under good illumination, with operative microscope with aseptic precautions, with myringo tome, a J shaped incision is given in the postero inferior quadrant mid way between umbo and annulus. 5) The fluid in the middle ear escapes out side or should be aspirated. 6) A strip of gauze is inserted in the ear. 7) Local and systemic antibotics should be given. 8) Analgesics and anti inflammatory drugs. should also be given for proper healing.

### Myringo puncture :-

It is puncturing of the ear drum with a long thick injection needle to aspirate the middle ear exudates.

### Myringo Plasty

Myringo plasty is the repair of the perforation of tympanic membrane usually done by temporal fascia or vein graft.

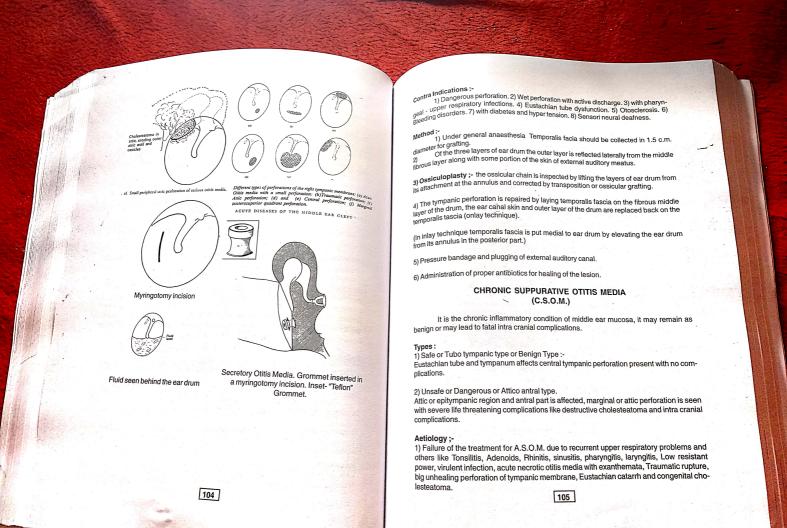
### Tympano Plasty:-

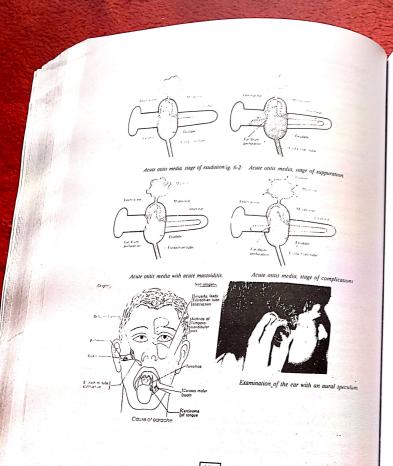
it is a surgical process in which the reconstruction of the ear drum and the ossicular chain is performed.

### Indications :-

1) Dry tympanic perforation 2) Benign Perforation 3) Eustachian tube should be functioning.

4) Stapes should be mobile. 5) After getting stamina against upper respiratory infections.





2) Causative organisms:-

For benign or safe type, are streptococci, staphylococci and pneumococci. For unsafe or dangerous type, are bacillus pyocyaneus, Bacillus proteus, Bacillus

3) General Factors:-

Unhygienic conditions, recurrent upper respiratory infections, upper respiratory infections, poverty, malnutrition, and Low resistance.

pathology:1) Tubo tympanic type or Benign type:1) Tubo poor blood supply to tympanic membrane especially at the tip of handle of malleus so more scope for perforation.

Necrosis of ossicular chain (Acute necrotic otitis media)

Persistent mucosal disease. Repeated infection of middle ear causes hyper plasia of its mucosa, even leads to polyp formation.

Attico antral type is dangerous by the formation of Cholesterol granuloma (Neither it is a tumour nor contain cholesterol)  $\frac{1}{2} \left( \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right$ 

Hyper trophy of tympanic mucosa causes obstruction for ventilation from eusta-chian tube so vaccum is created in the posterior portion of tympanum leads to extravasa-tion of blood into middle ear, this provokes the formation of cholesterol granuloma, Tympanic membrane appears blue in this condition.

Cholesteatoma is a sac lined by Keratinising stratified squamous epithelium in the middle ear cleft and contains desquamated epithelium arranged like onion skin layers. It has the consistency of a tooth paste but it possesses a great bony destroying capacity Hence it is called "Bone destroying disease of ear"

Symptoms	benign	Dangerous
1) Name of disease	Tubo tympanic	Attico antral
2) Perforation	Central	Attic or marginal
3) Discharge	Intermittent muco purulent or purulent usually without foul smell, white or yellowish Bledding is un common copiou.  Increases with upper respirato tract infections.	Continuous Always purulent Always foul smelling, yellow or brown or is green may be blood stained often scanty. y Not affected by R.T.I.

Common Occasional 4) Polyp Common Very rare 5) Cholesteatoma Conductive mild to moderate Conductive or mixed mild to severe 6) Deafness

Common Very rare 7) Complication Cellular or sclerotic Sclerotic with 8) Radiography of mastoid erosion Positive

Negative 9) Fistula test Satisfactory

10) Treatment

Clinical stages:-

Clinical stages:
1) Benign perforation 3 stages
a) Active - discharge actively flowing
b) Quiescent - ear remains dry for 6 months
c) Inactive - ear remains dry for more than 6 month.

The perforation may healed completely or may heal with a thin membrane formation. It may associate with tympano sclerosis, ossicular discontinuity due to necrosis or

Notsatisfactory.

Dangerous perforation - Always active stage
investigations - 1) Audiometry 2) Patency of Eustachian tube 3) Radiology of mastoid 4)
Otomicroscopy 5) Bacteriological examination of ear discharge.

A) Benign perforations:-

### Active stage with otorrhoea.

Active stage with otorrnoea.

1) Removal of septic foci 2) Aural toilet to keep the ear canal clean and dry3.) Antibiotic ear drops if there is ear discharge 4) Chemical cautery of perforation with 50% Tri chloracetic acid 5) improvement of nutrition of the patient.

surgery :- If conservative treatment fail surgery is advisable 1) Polyps and granulation should be removed 2) Tympano plasty. 3) Myringoplasty

### B) Treatment of Attico antral - dangerous perforation.

- 1) Same conservative treatment similar to above.
- 2) Suction cleaning under the micorscope.
- Granulation and polyps should be removed.
- Addical mastoidectomy or modified Radical mastoidectomy.
   Atticotomy and Attico Antrostomy.
- 6) Tympano plasty.

COMPLICATIONS OF OTITIS MEDIA.

### I) Mastoid infection

A) Mastoiditis.

tololis.

1) Acute mastoidits.
2) Chronic mastoiditis.

B) Matoid abscesses

- olid abscesses

  1) Sub periosteal abscess
  2) Bezold's abscess.
  3) Zygomatic abscess.
  4) Luc's abscess
  5) Citelli's abscess.

II) Extra cranial complications.

- Petrositis
- Facial nerve palsy
- Labyrinthitis.

### III) Intra cranial complications.

- 1) Extra dural abscess.
- 2) Sub dural abscess. 3) Meningitis.
- Sigmoid sinus thrombo phlebitis.
- 5) Brain abscess.
- 6) Otitic hydro cephalus
- 7) Encephalitis.

### Otorrhoea:

Discharge from the ear is known as otorrhoea, it is due to ear diseases and also due to other external causes.

### A) Causes of Ear

- 1) furunculsis 2) Otitis externa 3) Otomycosis 4) Granulomas 5) myringitis
- 6) Tumours 7) A.S.O.M., 8) C.S.O.M. 9) Suppurative Labyrinthitis
- 10) Aural abscess

### B) External causes of Otorrhea

- 1) Cerebro spinal fluid otorrhoea
- 2) Parotid abscess and Temparo mandibular abscess rupturing into external auditory canal.

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emential Diagnosis:

Watery commons in eczematous otifis externa.

Serous sormoes in eczematous otifis externa.

Serous sormoes in eczematous otifis externa.

Mucopunient otormoes, in A.S.O.M. and safe C.S. O.M.

Mucopunient otormoes in Frunciole, abscess of ear and the parotid abscess and

Tempero mandbular joint abscess which open into external ear.

Tempero mandbular joint abscess which open into external ear.

Tempero mandbular joint abscess which open into external ear.

Blood stained otornoes in eural polyp, granulations, acute otitis media, 4)

malignancy. Frank blood otorrhoea in Trauma and glomus tumour.

Treatment:

Aural tollet
 Broad spectrum Local and systemic antibiotics.
 Symptomatic, according to cause.

Mastoiditis:-

7)

olditis:-Inflammation of the mucosa of mastoid antrum and air cells is known as mastoidi. tis it occurs in two forms.

1) Acute mastoiditis 2) Chronic mastoiditis

Acute mastoiditis:- It occurs in cellular type of mastoid bone due to the complication of acute suppurative otitis media.

Aetiology/pathology:

gy/patnology:-Inadequate drainage of exudates and spread of infection to the mastoid.

Virulence of the infective organisms.

Lowered resistance of the patient.
Improper treatment of acute otitis media

Cellular mastoids are more likely to be involved.

a) Catarrhal mastoiditis: - Congestion of mastoid mucosa with aggravated symptoms like a) Catalrina mastoints - Congotines like 1) severe boring type of pain in the ear and at mastoid region 2) creamy yellowish otorrhoea 3) deafness 4) Tenderness on mastoid antrum.

b) Coalescent mastoiditis: Infection proceeds, pus collects in the mastoid antrum, interb) Coalescent mastorions: Innection proceeds, pas conects in the mastorio anitrum, inter-cellular septa of mastorid get destructed due to pressure necrosis, the air cells in the mastorio coalesce and mastorio cavity get converted to a bag of pus (empyema). The Clinimasioni coalesce anu masioni carity get converted to a bag of pac (empyema). The clinical features are 1) Severe pain and Fever 2) Otorrhoea may increase or reduce 3) concar features are 1) severe pain and rever 2) Orominoea may increase or reduce 3) con-gested ear drum 4) Deafness 5) Tendemess of mastoid antrum 6) Prinna pushed forwards 7) Sagging of postero superior part of external auditory canal 8) Retro auricular oedema or sub periosteal abscess 9) Tachycardia 10) Patient looks ill and anxietic.

Investigations:- 1) X-ray of mastoid Air cells are hazy or opaque with coalescence 2) Blood:- polymorpho nuclear lecuco cytosis, increased erythrocytic sedimentation rate.

Tretament; - 1) Surgery is needed, if neglected it causes Trigeminal neuralgia, 6th cranial metalinent, - I) surgery is necessary, in registrict in causes in goninical rectangles, in nerve paralysis and masked mastoiditis etc complications.

2) Cortical mastoidectomy or schwartze operation or simple mastoidectomy is the choice

Surgical method (Cortical mastoidectomy):- 1) Cortical mastoidectomy is performove the infected air cell of the mastoid process (the middle ear and its General anaesthesia is given,
preparation of the site for giving incision,

preparation of the control of the co 5)

The soft issues are elevated from the bone by a periosteum elevator then self retaining mastoid retractor is applied for the exposure of the mastoid and for hapmostasis. 6)

naemostasis.
The supra meatal triangle of Mc Even is identified and in this region the mastoid cortex is removed with a hammer and gouge or with an electric drill until the antrum the mastoid air cells are very large to the mastoid air cells are very large.

The mastoid air cells are removed without injuring the boundaries. Widening of the aditus to antrum to provide drainage of mastoid to the middle ear. Insertion of polyethylene drainage tube at the lower end of the incision and the wound is closed in layers. 10)

Drainage tube should be removed after 48 hours and sutures should be removed 7 days. Suitable antibiotics should be given in adequate dosage for about 7 to 10 days.

**Chronic Mastoiditis** 

Chronic inflammatory changes of mastoid mucosa is known as chronic mastoiditis.

Benign chronic otitis media may produce scanty granulations in the mastoid.

Dangerous chronic otitis media with cholesteatoma may erode the mastoid bone

2) gradually. Pus will be scanty and purulent

The patients are usually poor with low standards of hygiene

Clinical features:-1) Otorrhoea - Scanty foul creamy and purulent 2) Deafness 3) Granuloma formation 4) Other symptoms of Acute mastoiditis.

### Radiological Examination

Sclerotic mastoid with or without erosions

### Treatment:

1) Radical mastoidectomy

2) Modified Radical mastoidectomy.

### Radical mastoidectomy :-

The mastoid, middle ear and external auditory caral are converted into a single cavity by lowering the wall between the mastoid and tympanum by removal of remnants of ear drum, malleus and incus (Stapes is not removed)

Incision and exposure of mastoid cavity is as like cortical mastoidectomy.

Proper antibiotics are sprinkled in the cavity after operation and the patient is advised for review and for cleaning of the wax debris frequently.

Complications:-1) Facial Palsy 2) labyrinthitis 3) conductive deafness 4) Unhealed cavity.

### Modified Radical Mastoidectomy :-

моопнеи ....... Similar to radical mastoidectony but meso tympanum and hypo tympanum is pre. served (only epitympanum is removed along with mastoid air cells).

Mastoid abscesses
These occur due to acute /Chronic mastoiditis.

Sub periosteal abscess It is the commonest type of abscess due to mastoid infection.
 It is the commonest type of abscess due to mastoid infection.

Pain and swelling over the mastoid antrum with all common features of mastoiditis.

2) Zygomatic abscess:- Pain and swelling infront of and above the external auditory canal

3) Luc's abscess - Pus from zygomatic region may track outwards under the periosteum of the roof of the bony canal and reach infra temporal region.

4) Bezolds abscess - Perforation of the inner surface of the tip of mastoid, may give rise to an abscess deep to sterno mastoid muscle, it is also known as sinking abscess of neck.

5) Citelli's abscess - Extension of abscess to digastric triangle from tip cells.

Apisitis or petrositis : extension of the infection to the body and apex of petrous bone.

Treatment :- Surgery like mastoiditis.

Polyp:-If is a peduculated mass lying in the external auditory canal but can arise from external ear or middle ear.

Aetiology: - External ear 1) Granuoma develops due to constant irritation due to un healed furuncle, traumatic ulcer, wax otitis externa.
2) Tumours

### Middle ear :-

 A polyp may arise from the middle ear as a prolapsed mucous membrane or a pedunculated granuloma 2) Tumours.

### Clinical features :-

Otorrhoea, Bleeding, deafness, pain, itching and presence of pedunculated mass.

### Treatment ·-

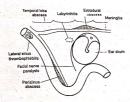
Antibiotics Polypectomy.

Treating the causative factor.

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Hearing Aids



am showing the possible complications of otitis media



Postaural fistula



Acute subperiosteal mastoid abscess

### TUMOURS OF EAR:

malignant lesions are seen. External ear :-Ceruminoma is á rare benign turnour which may present as a polypand no

### Middle ear :-

- Benign Not commor
- Malignant
- Squamous cell carcinoma (common)
- Sarcoma Adeno carcinoma

rare

Glomus jugulare

a) Squamous cell carcinoma : - Common, Blood stained discharge, facial palsy, deafness, pain and bleeds on touch, diagnosis is confirmed by biopsy Treatment :- Excision and radio therapy

### d) Glomus jugulare ;-

glomas bodies, on the dome of the jugularbulb, It is a rare vascular turnour in relation to the glomus turnour in relation to the

### 8) KARNA KANDU

(Itching sensation in the external auditory meatus)

## According to sushrutha :-

tion in the external auditory canal,(bahya karna srotas) is known as karna kandu The accumulated, vitlated kapha dosha produces severe itching sensa-

vere liching sensation in the external auditory canal is known as karna kandu. According to madhava kar :- The villated vata and kapha produces se-

# The common actiological factors are ;-

- swimming, head bath etc causes, Collection of polluted water in the external auditory canal due to
- Fungus infection in the external auditory canal (Otomycosis)
- liching sensation in the external ear canal, Dust, smoke etc exposures may cause allergic reactions that produce
- Wax impaction in external auditory canal,
- Collection of suppurative infective exudates of offils media and offils externa-
- Putting of Impure oils etc In the ear ,

### Treatment ;

- 1) Nadi swada
- Virechanika dhooma
- 5) Kapha hara chikitsa
  - 2) Vamana
- 4) nasya
- Nidana Parivarjan.

E

cheenyadi churna, yastimadu churna, sitophaladi churna, Talisadi churna, Trikatu etc.)12) Oral remedies like Lagusuthasekara ras, Khadhiradivati, Trijathakdi vati, Nimbadi guggulu, kanchanara guggulu, Triphala gugulu, Haridra Khandha, chopa thick sticky collections with shalaka yantra (ear probe or Foreign body remover Kapha dosha.10) Karna Pooran with sarshapa tail etc oils. 11) Removing of dhoopan - with guggulu agaru Hingu, Rasanjan etc to dry or burn the vitiated be cleaned to keep the external auditory canal dry with the cotton buds. 9) Karna clean the exudation. 8) Karna pramarjana - (dry mopping) the exudates should 7) Karna prakshalan (ear wash) with Aragwadadi Kashaya, etc decoctions to

# 9) KARNA GOOTHA OR KARNA VARCHA

(cerumen or wax in the external auditory canal)

is known as Karna gootha or Karna varcha or Karna vit. causes the collection of semi solid or solid material in the external auditory canal, The vitiated or accumulated Kapha dosha get burnt by pittoshma and

### **EXTERNAL AUDITORY CANAL** CERUMEN OR WAX - IN

the entry of Foreign bodies. secrets oily sticky secretion, this secretion and hair protects the external ear from The sebaceous glands and ceruminous glands of external auditory canal

ological when present in less quantity without producing the symptoms and signs. lissue and shedded epithelium forms sticky blackish brown wax which is physi-Sebaceous secretion + Ceruminous secretion + Dust particles + Necrotic

paper like exudations collected with severe itching sensation) 1190, pain and inflammation of external ear. (in fungus infection (otomycosis ) wet removing in regular intervals) causes deafness, tinnitus, itching sensation, ver-This wax collection when packed in the external auditory canal (Without

### Treatment:

### If the wax is hard;

Softening of wax by putting oleus ear drops (Karna Pooran (Ex: Nirgundi taila, Kshara taila)

- Swedana to liquify the wax and to reduce pain. Removing the wax with wax probe (karna gootha nirharana shalaka)
- Karna pramarjan with cotton buds.
- 5) 4 3) 2) karna dhoopan with Guggulu Rasanjan etc drugs
- eardrops etc are used, then the liquified wax is removed with probe or by According to modern to soften the wax dewax ear drops -waxsolve
- 7 Symptomatic treatment to reduce pain and inflammation.

# 10) KARNA PAKA OR KARNA PRAPAKA.

(Otitis externa (furunculosis or diffused otitis externa )

charge from the external auditory canal, is known as karna Paka. Vitiated pitta dosha produces ulcerative lesions, tissue necrosis and dis-

fever, On examination the external auditory meatus appears inflammed with narrow canal and discharge. The associated symptoms are pain, tenderness, burning sensation and

saribadi vati, Khadhiradi vati, Lakshmi vilas ras etc are beneficial. Triphala guugulu, Kancha nara guggulu, Rasnadi guggulu, Lagusuthasekara ras, nasya, dhooma pana, gandoosha and sweda has to do according to the condition. 7) Amrutadi guggulu, Nimbadi guugulu, chandanadi vati, Lakshudi guggulu, Vrana ropana, ear drops and oral medicines should be given, 6) Vaman, virechan, and dhoopan to clean and dry the canal. 5) Shoola hara, shotha hara, Krimighna, and eardrops (shata dhoutha ghritha). 3) Krimi hara chikitsa. 4) Karna Pramarjan 1) Pitta hara or pitta visarpa hara treatment should be given. 2) Cool applications

# NON SUPPURATIVE OTITIS MEDIA

ear cleft resulting in conductive deafness. The disease is characterised by accumulation of non purulent effusion in the middle

1) Secretory otitis media :-

Synomyms: Serous otitis media, catarrhal otitis media, secretory otitis media, glue ear

sion, Nasopharyngial tumours, Adhesions following adenoidectomy etc. Sion, Nasopharmial times.... Adviation, polyps in nose, enlarged adenoids, tubal occilu-Aetiology:- Not exactly known but following several factors may be concerned.

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2) Barotrauma :-

Collection of serous effusion in the middle ear cleft following atmospheric pressure

changes.

हाबाउँ 3) Viral infective causes:- It may produce effusion in middle ear cleft

and produce oedema and effusion. also cause Allergic changes in the middle ear mucosa (Because of anatomical continuity) Allergic changes: - Allergic disorders of Nose, paranasal sinuses, Nasopharynx may

# 5) Un resolved acute Otitis media ;-

- sterile effusion present as residue. A.S.O.M. Infection is inactivated by the medication but resolution is not complete
- Cleft palate or palatal Paralysis.
- Disturbances in muco ciliary transport system and secretomotor mechanisms

### 8) Vaccum Theory

9) Hypo gammaglobulinaemia. traction of ear drum and extravasation of fluids into middle ear cavity from the vesseles Eustachian tube blockage produces negative pressure in tympanum leads to re-

10) Radiotherapy of head and neck region

purulent effusion in the middle ear. known it is understood that above factors play an important role in the production of non It is a low grade inflammatory condition of middle ear. Though exact cause is not

### Clinical Features :-

pinkish ear drum with congested vessels and fluid levels (hair line) Dearness, earache, feeling of fluid in the ear, tinnitus, retracted dull lustreless

Diagnosis By :-1)Clinical features 2) Tuning fork test BC>AC denotes conductive <sup>qeatness.</sup> 3) Pure tone audiometry.4) Tympanometry.5) Radiotherapy

manoeurve politzerisation or Eustachian catheterisation may prove helpful nistamines, steroids, mucolytic agents etc. 2) inflation of eustachian tube by valsalva's Treatment :- 1) Medical treatment by decongestant nasal drops, and oral medicine, Anti

## 3) Surgical Treatment :-

the aeration of the tympanum. Myringotomy and suction of glue with the insertion of grommet (plastic tube ) for

mucous resection of septum, adeno tonsilectomy etc. Surgery for underlying predisposing factor like antral lavage, polypectomy, sub

### 2) ATELECTASIS OF THE TYMPANUM . AND ADHESIVE OTITIS MEDIA :-

suppurative oitte media, should pass through various stages like the following. Collapse and medial retraction of tympanic membrane following long standing ton

ner, Adhosions are formed between eardrum, ossicles and middle ear, superior Quadram of the ossicles towards modial wall of middle oar 4) Adhesive oills made collapses and drags the ossicles towards modial wall of middle oar 4) Adhesive oills made collapses untu unity-unitense (fibrous layer) undergo degeneration and becomes, thin-The entire tympanic mentione (fibrous layer) undergo degeneration and becomes, thinsuperior Quadrant of ear drum 3) Atelectatic ear drum :- the entire posterior half of ear drum superior Quadrant of ear drum 3) Atelectatic ear drum :- the entire posterior half of ear drum superior Quadrant of ear drum and the control of ear drum superior Quadrant of ear drum superior Quadrant of ear drum superior earlier earlier superior earlier superior earlier superior earlier superior earlier superior earlier earlier earlier superior earlier 1) Effusion or evidence of fluid in the tympanum 2) Modial retraction of postero

### Treatment :-

- Unhealed tympanic perforation is corrected by myringoplasty,
- Atelectatic ear can be corrected by myringotomy and grommet insertion.
- are not encouraging. In adhasive changes, Tympanoplasty, ossiculoplasty etc can be tried but results

### Tympano Sclerosis:-

the ear drum and middle ear mucosa with fixation of ossicular chain, It is the lesion of the middle ear cleft where there is chalky calcrious deposits on

goes calcification and appears like snow flakes, symptom is the conductive deafness. Hyaline degeneration of the fibrous layer of the middle ear mucosa which under

Tympanoplasty including ossiculoplasty. 2) Stapedectomy 3) Hearing aids

reatment :-

## 11) KARNA PRATINAHA

2) According to vagbhata can be co-related to Eustachian catarrh) Non meningeal complications following Chronic suppurative otitis media. According to sushrutha it can be co-related to Tympanic perforation with meningeal

## According to Sushrutha:-

severe headache and other complications, is known as karna pratinaha The liquified ear wax or other exudate reaches the mouth and nose, producing

meningeal and Non meningeal complications of chronic suppurative otitis media. to tympanic perforations. It may occur due to traumatic causes or due to otilis media. Sushrutha also explained the severe headache and other complications, these may be the auditory canal can not reach the oropharynx or nasopharynx, so the disease can be corelated to turns and auditory canal can be corelated to turn and auditory canal can be corelated to turn and auditory canal can be corelated to turn and auditory can be correctly considered to turn and auditory can be considered to turn and Unless the tympanic membrane gets ruptured the exudates or wax of external

## According to vagbhata :-

srotas, produces earache, heavyness and deafness, is known as karna pratinaha, It can be corelated to eustachian ratarsh corelated to eustachian catarrh. The vitiated Kapha dosha is dried by the vitiated vata and sticks to the Kama





Normal tympanic membrance



Acute otitis media



Kldney shaped perforation



Small central perforation



Posterior marginal perforation (with granulations)



(with cholesteatoma) Attic perforation

srava and poothi Karna Chikitsa.7) Teekshna Gandoosha and dhooma pana Nirharan (cleaning of tympanic perforation, 8) Apparatishyaya Chikitsa 5) Dusta Vrana Chikitsa (for healing of tympanic perforation, 8) Kana Pratishyaya Chikitsa 7) Teekshna Gandoosha and dhooma pana 1) Oleation (snena natural). 3) Karna pramarjan (drymopping with cotton buds). Nirharan (cleaning of ear wax). 3) Karna pramarjan (drymopping with cotton buds). 4) Nirharan (cleaning of tympanic perforation back). 4) Tretment:
1) Oleation (sneha Karma), sudation (Sweda karma) and shiro virechana. 2) Karna gootha

# 12-13) KARNA VIDRADI (ABSCESS IN THE EAR)

It is of two types

Doshaja vidradhi

(4) Sanni pathaja

(1) Vataja, (2) Pittaja, (3) Kaphaja,

Aaganthuja vidradhi 1) Kshataja 2) Abhighataja

2) Aaganthuja Vidradhi is of 2 types occurs due to scratching of external auditory canal 1) Doshaja vidradhi is of 4 types, occurs by the vitiation of vata pitta Kapha and tridoshas. (kshataja) and injuries (Abhighataj)

### Clinical Features :-

and exhibits different coloured exudations (Reddish, Yellowish etc.) through the ear 1) Either due to doshic vitiation or due to traumatic lesions, the ear canal is vitiated

itching sensation, headache, etc. 2) Associated symptoms are severe and different types of pain, burning sensation

and external ear) mastoid abscesses which formed as the complication of A.S.O.M. or It can be corelated to suppurative otitis media and otitis externa, (Vrana shopha of middle

- 1) Vidradhi treatment should be given
- a) In Non suppurative stage with Alepa etc "11" treatment principles.
- b) In Suppurative stage (Pakwa) incision and drainage should be done for the irrigation of impure exudations.
- c) In Exudating stage vrana chikitsa should be done.

(Like Karna srava and poothi Karna).

## 14-17) KARNA ARSHA

(Polyps of ear)

It is of 4 types 1)Vataj 2) Pittaj 3) Kaphaj 4) Raktaj.

ogy and treatment principles are as like Guda arshas of General medicine. In shalakya tantra the discription is not given and explained that the aetio-pathol-

stimulated and gives an elongated mass like structure known as arshas or polyp. stimulated and gives an alarmatad mucosa is Polyps in the external and middle ear occur due to stenosed chambers with in-

It causes earache, otorrhoea, discomfort and deafness

Pittaj Arsha - Yellowish red polyp with pain and burning. Vataj Arsha - Blackish red, dried rough polyp with pain.

Kaphaj Arsha - Whitish or pale polyp sticky with severe itching.

Raktaj Arsha - Dark red coloured polyp with pain, burning sensation and bleeds on

Treatment :-

1) Medical 2) Surgical 3) Kshara karma (Chemical cauterisation) 4) Agni karma

(Electric cauterisation)

5) Treatment like Nasa arsha.

# 1821) KARNA SHOPHA (AURAL OEDEMA)

It is 4 types 1) Vataj 2) Pittaj 3) Kaphaj 4) Sannipathaj (General discription as like in Kaya chikitsa).

It causes pain, discomfort, otorrhoea, and deafness

and Vrana chikitsa should be done. Treatment:-1) Like aural polyp or Nasal polyp. 2) Pratishyaya, Karna srava, Poothi Karna

# 22-28 ) KARNA ARBUDA

(Tumours of ear)

types of arbudas, they are, Vitiated vatadi doshas by deranging twak, raktha, mamsa etc dhatus produce 7

1) Vataj 2) Pittaja 3) Kaphaj 4) Raktaj 5) Medaja 6) Mamsaja 7) Siraja

"Description is as like in Kaya Chikitsa

meningeal complications. Clinical features: earache, discomfort, otorrhoea, deafness, vertigo and meningeal, non-

Kapha and medo dhathu "Arbudas are commonly non suppurative in nature ( Apakwa) due to the predominence of

### Treatment :-

- In Non Suppurative stage should treat like shopha
- If suppurates should treat by incision and drainage
- Vrana chikitsa.
- Hard non suppurative complicative tumour should be excised.

Note: These can be corelated to benign and malignant tumours of middle ear.

## **BAHYA KARNA ROGAS**

(Diseases of Auricle) by Vagbhata

1) Diseases of karna Shaskuli are Additionally vagbhata explained 10 diseases of exteral ear.

2) Diseases of Karna Pali are

1) Kuchi Karnika :-

contracted, is known as Kuchi Karnika. It is an unumeror, and entering the pregnancy by the vitiation of vata dosha in which the auricle becomes smaller or during the pregnancy by the vitiation of vata dosha in which the auricle becomes smaller or during the pregnancy by the vitiation of vata dosha in which the auricle becomes smaller or during the pregnancy by the vitiation of vata dosha in which the auricle becomes smaller or during the pregnancy by the vitiation of vata dosha in which the auricle becomes smaller or during the pregnancy by the vitiation of vata dosha in which the auricle becomes smaller or during the pregnancy by the vitiation of vata dosha in which the auricle becomes smaller or during the pregnancy by the vitiation of vata dosha in which the auricle becomes smaller or during the pregnancy by the vitiation of vata dosha in which the auricle becomes smaller or during the pregnancy by the vitiation of vata dosha in which the auricle becomes smaller or during the pregnancy by the vitiation of vata dosha in which the auricle becomes smaller or during the pregnancy by the vitiation of vata dosha in which the vata dosha in the vata dos hi Karnika:-It is an uncurable, congenital abnormality of the auricle (Karna shaskulj), affects

Treatment:- It is Asadya vyadhi (Uncurable)

2) Karna Pippali :-

develops on auricle (Karna Shaskuli), is known as Karna Pippali. by the vitiation of vata dosha, in which a painless immobile growth resembling the pippali na Pippaii:

It is also an uncurable, congenital disease of the ear, affects during the pregnancy

Treatment :- It is also Asadya vyadhi (uncurable)

3) Karna Vidarika :-

Treatment :- Asadya vyadhi (uncurable) But can try like Karna vidradi oedema develops with liching sensation, if not treated in time dicharges foul exudate resembling sarshapa taila and causes structural deformity after healing. shaskuli), affects by the vitiation of tridoshas, in which a painfull same coloured suppurative It is also an uncurable congenital aswell as acquired disease of the aucricle (kama

The vitiated vata dosha causes atrophy of the Karna Pali (ear lobule)

Treatment: - 1) Like the treatment of Vataj Karna shoola

2) udvarthana (rubbing at the lesion) with the powders of Tila, priyala beeja, yastimadu, Ashwagandha, yava etc.

fresh part of the lobule should adjoin to the atrophic part. 3) Abhyanga with Brumhana snehas (Oil prepared with shatavari ashwagandha, jeevanthi, Jeevaka, erenda, cow milk and Tila taila) 4) Sweda 5) Lepas 6) nasya 7) Surgery : The

5) Tankrika :-

named as Tantrika, The vitiated Vata dosha changes the Karna Pali into a thin hard wire (Tantri) So

snehas to nourish the lobule (karna pali) Ireatment :- 1) It is Yapya vyadhi 2) Abhyanga and mardana with Vatahara Brumhana

the lobule (cracking redness oedema and pain) due to the vitiation of Vata dosha, is known Conducting Karna vyadana to the aged instead of children causes inflammation of

Shothahara, shoolahara chikitsa. Shothahara shoulahara Chikitsa. 2) Abhyanga and mardana with Brumhana snehas. 3)

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7) Uthpaata :-

putting heavy ornaments to the ear lobule. The clinical features are pain, burning sensation. blister formation, blackish discolouration and suppurative oedema with discharge.  $_{\mbox{\scriptsize It}}$  is an inflammatory condition of the lobule (pitta and raktha vitiates) occurs by

Treatment :-

Jalauka mokshana to remove impure blood from the lesion.

2 Cool applications to the site.

 $\omega$ Application of medicated pastes, oils, ghee etc which reduce the Raktha and pitta

4 and Tila taila.) Abhyanga with Jambwaditail (the oil is prepared with jambu, amra pallava, Kanji

Anti inflammatory and wound healing therapy should give

5

8 Unmantha Or Gallira :-

oedema on Karna pall with itching sensation is Known as unmantha Vitiated Kapha and Vata produces a painless, immobile, same coloured

Treatment: 1) Abhyanga with the snehas which reduce the vitiation of Kapha and vata (Godhaa Karka Vasadi taila).

2) Nasya with Katphaladi Choorna Or with the oil prepared with Tulasi, Langali, Taila.

9) Dukkha vardana :-

of the lobule causes pain, oedema, burning sensation, itching sensation and discharge. Tridoshas vitiate due to improper Karna Vyadana and improper widening of the hole

Treatment:- 1) Laksha Vidangadi taila abhyanga.

2) Vrana Chikitsa (Wound healing therapy)

10) Lehya or Parilehika :-

tules pain, itching and exudation) if it is not treated in time causes destruction of the lobule. Vitiated Kapha Raktha doshas and krimi causes inflammation of the lobule (Pus-

reatment :-

cow's faecal material. 5) Krimighna treatment therapy. drugs + Nimba Patra, maricha, madan phala and sarshapa taila. 4) Sudation (Swedan) with Arogwada valkala + Avi mootra (sheep's urine) 3) Application of the Oil prepared with above 1) Vidangadi Lepa with Avi mutra. 2) Application of the paste of kutaja, ingudee, karanja

# TREATMENT OF INJURED AND BLEEDING LOBULE :-

- Setting of the lobule without irregularities
- Application of Honey and ghee to the lesion .
- බඳවරට Dusting the powders of gyrika and Yastimadu
  - Bandage (yaugika bandana) upto 7 days.
- Bandage (yaugum zame) of the lobule should be done by the application of Kama

## 6) Karna Vardana sneha :-

Rasona, Hasti and Ashwa Mootra, Tila taila and Mahisha gritha. Arka, Saptha pami, the mud house of chuchundari and madhukaree, Laksha, Jalauka, dwayam, Bruhati dwaya, Ashwagandha, Bala, Gaja pippali, Swetha sarshapa, karaveer The medicated ghee is prepareed with, jala shooka (algae), swayam guptha, Haridra

the child and the doctor while pulling the ear with his left hand has to do karna vyadana with It is done in the children at 6th or 7th month of age. in a good day dhatri should hold It is done not only for wearing ornaments but also for prevention of the diseases.

In samyak (proper) Kama vyadan pain and bleeding is minimum.

(Karna vyadana should do first to the right ear in male child and to the left ear in female

his right hand at Diiva krutha chidra

(manya stamba, apatanak, shirograh and kama shoola) etc complication. shoola shotha) 2) Marmarika sira viddha (jawara shool and vrana) 3) Lohithik sira viddha lf Kama vyadana is improperly done it causes 1) Kalika sira viddha (jwara, daha

problems 15 types of Karna bandhanas were explained by sushrutha. They are. punishments of kings to the victims there were ear abnormalities, for correcting those While wearing the heavy ornaments to the ear or widening the ear lobule or by the

- 1) Nemi sandhanak:- The ear lobule is equally cut but becomes lengthy and thick.
- 2) Uthphala bhedak:- The ear lobule is equally cut but becomes round and thick.
- 3) Vallurak:- The ear lobule get atrophied, but both the halves are equal in size.
- half gets atrophied). 4) Asangima: Among the 2 halves of cut lobule only inner lengthy part is existing (outer
- 5) Ganda Karna: Among the 2 halves of cut lobule only outer lenghty part is existing
- Aaharya :- Both halves of cut lobule mostly destructed.

7) Nirvedak :- Complete lobule get atrophied so karna vyadhan should be done to karna putrika, then kama vardana has to do.

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- and irregular. 8) Vyayojima: Among the 2 halves of cut lobule one is normal and the other is smaller
- 9) Kapat Sandhik: Among the 2 halves of lobule inner half is lengthy and outer half is
- inner half is smaller. 10) Artha Kapat Sandhik: Among the 2 halves of cut lobule, the outer half is lengthy and
- becomes smaller. 11) Samkshiptha: Among the 2 halves of cut lobule, outer half is atrophied and inner half
- 12) Heena karna:- Complete atrophy of lobule with the base
- 13) Valle Karna: Very small thin and irregular loubule.
- 14) Yasti Karna :- Hard vascularised very small lobule
- 15) Kakaustak :- Emaciated constricted small lobule like the beak of crow.

# Treatment for above (15 types of abnormalities).

## SANDHANA KARMA

- bandhana should be done. A) 1st, 2nd, 3rd types - Both the halves of lobule are in same size so proper setting and
- b) 5th (Ganda Karna) The outer lengthy half should be cut and joined to the inner half B) a) 4th (Asamgima) The inner lenghty half should be cut and joined to the outer half
- grafted to the lobule. C) 6th (Aaharya) - Lobule mostly destruicted so the tissue is collected from the cheeks and
- D) 7th (Nirvedak ) complete lobule gets atrophied so Karna vyadan should do to the karna patrika then Karna Vardana should do.
- E) 8th, 9th, 10th, -- In these 3 types one half is lengthy than other- so the lengthy part should adjoin with shorter.
- F) 11 to 15 Asadya.

After proper adjoining therapy the irregularities are corrected by

- 1) Utsadan Karma 2) Avasadan karma 3) Mrudu Karma 4) Daruna Karma 5) Krishna karma
- 6) Pandu Karma 7) Roma Sanjanan Karma 8) Romapaharan karma etc.,

## DISEASES OF THE NOSE NASA ROGA

#### नासारोग

संधारणाजीर्णरजोतिभाष्यक्रोधर्तुवैषम्यशिरोभितापै:। प्रजागरातिस्वपनाम्बुशीतैरवश्यायमैथुनवाष्मधूमै॥। संस्त्यानदोषे शिरसि प्रवृद्धो वायुः प्रतिश्यायमुदीरयेतु।

संधारणं मूत्रपुरीषयोश्च सद्यः प्रतिश्यायनिदानमुक्तम् नारीप्रसङ्गःशिरसोभितापो धूमोरजः शीतमतिप्रतापः

नीचात्युच्चोपधानेन पीतेनान्येन वारिण॥ क्रुद्धा वातोल्वणा दोषा नासायां स्त्यानतांगताः ॥ अत्युम्बुपानरमणच्छदिबाष्पग्रहादिभिः। अवश्यायानिलरजोभाष्यातिस्वपजागरै:। जनयन्ति प्रतिश्यायं वर्धमानं क्षयप्रदम्॥

(सु.इ.अ.२४)

(अ.ह.उ.अ.१९)

#### नासा रोग संख्या

तथा शोणितिपत्तंच पूयशोणितमेव च॥ अपीनसः पूर्तिनस्यं नासापाकस्तथैव च। नासाशोषेण सहिता दशैकाश्चेरिता गदाः॥ क्षवथुभ्रंशथुदीप्तो नासानाहः परिस्नवः। प्रतिश्यायाश्च ये पंच वक्ष्यत्ते सिचिकित्सिताः। चत्वार्यशांसि चत्वारः शोफाः सप्तार्बुदानि च। एकत्रिंशन्मितास्ते तु नासारोगाः प्रकीर्तिताः ॥

(सु.उ.अ.22/3,4,5)

### प्रतिश्याय सम्प्रप्ति

चयं गता मूर्धीन मारुतादयः पृथक् समस्ताश्च तथेव शोणितम्। प्रकोप्यमाणा विविधै: प्रकोपणै र्नुणां प्रतिश्यायकरा भवन्ति॥

(सु.इ.अ.२४/4)

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#### प्रतिश्याय का पूर्वरूप

उपद्रवाश्चाप्यपरे पृथग्विघा नृणां प्रतिश्यायपुरःसराः स्मृताः॥ शिरोगुरुत्वं क्षवथोः प्रवर्त्तनं तथाङ्गमर्दः परिहष्टरोमता।

(सु.इ.अ.२४/5)

### 1. वातिकप्रतिश्याय लक्षण

स्वरोपघातश्च भवेत् प्रतिश्यायेनिलात्मके। गलताल्वोष्ठशोषश्च निस्तेदः शङ्ख्योस्तथा॥ आनद्भा पिहिता नासा तनुस्रावप्रवर्तिनी।

(सु.इ.अ.२४/6)

स्वरसादश्चिरात् पाकः शिशिराच्छकफसुति: कोटिका इव सर्पन्तीर्मन्यते परितो भ्रुवौ॥ घ्राणोपरोधनिस्तोददन्तशङ्खर्शरोव्यथाः। तत्र वातात् प्रतिश्याये मुखशोषो भृशं क्षवः॥

#### 2. पैत्तिक प्रतिश्याय

कृशोतिपाण्डुः सन्ततो भवेतृष्णानिपीडितः। उष्णः सपीतकः स्नावो घ्राणात् स्नवति पैत्तिके॥ सधूमं सहसा विह्नं वमतीव च मानव:॥

(अ॰ ह॰ उ॰ अ॰ १९)

(सु. उ. अ. २४/7,8)

नासाग्रपाको रुक्षोष्णताम्रपीतकफस्तुति: पित्तानृष्णाज्वरघ्राणपिटिकासम्भवभ्रमाः ॥

3. कफज प्रतिश्याय

शुक्तावभासः शूनाक्षो भवेद् गुरूशिरोमुखः॥ कपः कफकृते घ्राणाच्छुक्तः शीतः स्रवेमुहुः।

शिरोगलौष्ठतालूनां कण्डूयनमतीव च।

अ. इ. उ. अ. 19

दुष्टप्रतिश्याय

प्रक्लिद्यति पुनर्नासा पुनश्च परिशुष्यति॥

मुहुरानह्यते चापि सुहुर्विद्रियते तथा।

नि:श्वासोच्छ्वासदौर्गन्थ्यं तथागन्थान वेति च॥

एवं दुष्टप्रतिश्यायं जानीयान्कृच्छ्रसाधनम्।

(सु.उ.अ.24/9)

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4. त्रिदोषज प्रतिश्याय

माधुर्यं वदने कण्डुः स्निग्धशुक्लकफसुतिः। कफात् कासोरुचिः श्वासो वमथुर्गात्रकगौरवम्॥

(अ॰ ह॰ उ॰ अ॰ 19)

भूत्वा भूत्वा प्रतिश्यायो योकस्माद् विनिवर्तते॥ संपक्वी वापक्वी वा स सर्वप्रभव: स्मृत:। लिङ्गीन चैव सर्वेषां पीनसानां च सर्वजे॥

सर्वजो लक्षणैः सर्वैरकस्माद् वृद्धिशान्तिमान्॥

(सु.इ.अ.24/10,11)

(왜 중 광 19)

5. रक्तजप्रतिश्याय

ताम्राक्षश्च भवेज्जन्तुरुरोघातप्रपीडितः॥ रक्तजे तु प्रतिश्याये रक्तास्नावः प्रवर्तते। दुर्गन्थोच्छ्वासवदनस्तथा गन्धान वेति च। मूर्च्छीत्त चात्र कृमयः श्वेताः स्निग्धास्तथाणवः॥ कृमिमूर्धविकारेण समानं चास्य लक्षणम्।

दुष्टं नासासिराः प्राप्य प्रतिश्यायं करोत्यसृक्। उरसः सुप्तता ताम्रनेत्रत्वं श्वासपूतिता॥ कण्डुः श्रोत्राक्षिनासासु पित्तोक्तं चात्रलक्षणम्।

(सु.इ.अ.२४/12,13)

(अ॰ ह॰ उ॰ अ॰ १९)

(सु.इ.अ.२४/14,15)

#### प्रतिश्याय के उपद्रव

कासाग्निसदशोषाँश्च वृद्धाः कुर्वन्ति पोनसाः॥ बाधिर्यमाञ्च्यमञ्जाणं घोरौक्ष नयनामयान्॥ कालेन रोगजनना जायन्ते दुष्टपीनसाः। सर्वे एव प्रतिस्थाया नरस्याप्रतिकारिण:॥

(सु.इ.अ.24/16,17)

### 6. अपीनस या पीनस

तं चान्तिश्लेष्मभवं विकारं ब्रूयात् प्रतिश्यायसमानांत्रङ्गम्। न वेति यो गन्थरसाँध जनुर्जुष्टं व्यवस्थेतमपीनसेन॥ आनह्यते यस्य विधूप्यते च प्रक्लिद्यते शुष्यति चापि नासा।

(सु.उ.अ.२२/6)

10. पूयरक्त

कफ: प्रवृद्धो नासायां रुद्ध्वा स्रोताँस्यपीनसम्।

निचयादिभघाताद्वा पूर्यासृङ् नासिका स्रवेत्।

तत् पूयरक्त माख्यात शिरोदाहरूजाकरम्॥

(अ॰ ह॰ उ॰ प्र॰ १९)

आम वा अपक्वपीनस

अन्तरं पिच्छिलं पीतं पक्वं सिङ्घाणकं घनम्॥ अवरिव सवत्यस्य प्रक्लिना तेन नासिका। कुर्यात् सपुर्धुःश्वासं पीनसाधिकवेदनम्॥

शिरोगुरुत्वं क्षवशुर्व्वरश्चामस्य लक्षणम्॥ अर्शविवरसं वक्त्रं नासास्रावो रुजारति:।

11. क्षवधु

दोषज क्षवधु

घ्राणाश्रिते मर्मणि संप्रदुष्टे यस्यानिलो नासिकया निरेति॥ कफानुयातो बहुशः सशब्दस्तं रोगमाहुः क्षवधुं विधिज्ञाः॥

(सु॰ उ॰ २२/अ॰)

(सु. उ. अ. 22)

तीक्षणोपयोगादतिजिघ्नतो वा भावान् कटूनकीनरीक्षणाद्वा॥ सूत्रादिभिर्वा तरूणास्थिमर्मण्युद्घाटितेन्यः क्षवधु निरीते॥

आगन्तुक्षवथु

(सु॰ उ॰ अ॰ २२/७)

7. पूर्तिनास या पूर्तिनस्य

थनपीतकफत्वं च पक्वपीनसलक्षणम्॥ त्तुत्वमामितङ्गानां शिरोनासास्यलाघवम्।

निरेति पृतिमुंखनासिकाभ्यां तं पूतिनासं प्रवदन्ति रोगम्॥ दोषैर्विदग्धैर्गलतालुमूले संवासितो यस्य समीरणस्तु॥

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तालुम्ले मलैर्ड्स्ट्रेमिश्तो मुखनासिकात्। र्लेष्मा च पूर्तिनिर्गच्छेत् पूर्तिनासं वदिन तम्॥

s. नासापाक वा नासिकापाक

(अक् क अ १९/23)

ड्राणाश्रितं पित्तमरूषि कुर्योद् यस्मिन् विकारे बलवांश्च पाकः॥ तं नासिकापाकिमिति व्यवस्येद् विक्लेदकोथावापि यत्र दृष्टौ॥

(सु॰ उ॰ अ॰ २२/8)

प्चेनासापुटे पित्तं त्वङ्मांसं दाहशूलवत्॥

9.नासागत रक्तिपत्त

चतुर्विधं द्विप्रभवं द्विमागं वक्ष्यामि भूयः खलु रक्तपित्तम्

(अक्र उ अ १९)

(सु॰ उ॰)

नासा खवेत् पूथमसृग्विमिश्रं तं पूयरक्तं प्रवदन्ति रोगम्॥ दोषंर्विदग्धेरथवापि जन्तोर्ललाटदेशेभिहतस्य तैस्तु।

(अक हर उर अर १९)



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(सु॰ उ॰ अ॰ २२)

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रात्री विशेषेण हि तं विकारं नासापरिस्नाविमिति तं व्यवस्येत्॥ अजसमच्छं सलिलप्रकाशं यस्याविवर्ण खवतीह नासा॥

(अ॰ ह॰ उ॰ अ॰ १९)

निःश्वासोच्छ्वाससंरोधात् स्रोतसी संवृते इव।

15. नासास्राव

नद्धत्विमव नासायाः श्लेष्मरुद्धेन वायुना॥

नासानाहे तु जायते

कफावृतो वायुरुदानसंज्ञो यदा स्वमार्गे विगुणः स्थितः स्यात्॥ घ्राणं वृणोतीव तदा स रोगो नासाप्रतीनाह इति प्रदिष्ट॥

14. नासानाह वा नासा प्रतिनाह

(अ॰ ह॰ उ॰ अ॰ १९)

भवेद् धूमोपमोच्छ्वासा सा दीप्तिर्दहतीव च॥ रक्ते नासा दग्धेव वाह्यान्तःस्पर्शनासहा। 13. दीप्त

ब्राणे भृशं दाहसमन्विते तु विनिःसरेद् धूम इवेह वायुः ॥ नासा प्रदीप्तेव च यस्य जन्तोव्याधिं तु तं दीप्तमुदाहरन्ति॥

प्राक्सींचतो मूर्धीन पित्ततपस्तं भ्रंशशुं व्याधिमुदाहरन्ति॥ भ्रश्यते नासिकयेव यश्च सान्द्रो विदग्धो लवण: कफस्तु॥

(सु॰ उ॰ अ॰ २२)

पुटक रोग

निवृत्तः कुस्तेत्यर्थं ज्ञवधुं स भृशज्ञवः॥ विषिट्टतेनिलः क्रुद्धो रुद्धः शृङ्गाटकं त्रजेत्। वातकोपिभलरन्येर्वा नासिकातरूणास्थनि॥ तीक्ष्णान्नणोपयोगार्करिशमसुत्रतृणादिभिः।

(सु॰ उ॰ अ॰ २२)

17 से 23) अर्बुद

कफं, सं शुष्कः पुटता प्रापनीति पुटकं तु तत्॥ पित्तश्लेष्मावरुद्धोन्तर्नासायां शोषयेन्मरुत्।

(अ॰ ह॰ उ॰ अ॰ १९)

(सु॰ उ॰ अ॰ २२)

स्रोतः पथे यद्विपुलं कोशवच्चार्बुदं भवेत्॥

24 से 27) शोफ

शोफास्तु शोफविज्ञाना नासास्रोतो व्यवस्थिताः। निदानेशाँसि निर्दिष्टान्येवं तानि विभावयेत्॥

(सु॰ उ॰ अ॰ २२)

28 से 31) अर्श

(सु॰ उ॰ अ॰ २२)

नामार्शः के लक्षण साधारण अर्शः की तरह हैं। इसके भेद 4

(सु॰ उ॰ अ॰ २२)

16. नासा शोष या नासा परिशोष

समुच्छ्वसित्यूध्वेमधश्च कृच्छ्राद्यस्तस्य नासापरिशोष उक्तः॥ द्राणाश्रिते श्लेष्मणि मारूतेन पित्तेन गाढुं परिशोषिते च॥

शोषयनासिकास्रोतः कफं च कुरुतेनिलः।

शूकपूर्णाभनासात्वं कृच्छादुच्छ्वसनं ततः ॥

(अ ह उ अ १९)

(सु॰ उ॰ २२ अ॰)

(अ॰ ह॰ उ॰ १९ अ०)

(अ० ह० उ० अ० १९)

अच्छोजलोपमोजसं विशेषानिशि जायते॥ ह्रावस्तु तत्संज्ञः श्लेष्म संभवः

भृषक्षव

## NASA SHAREERA

in Ayurvedic samhitas the detailed description of NASA SHAREERA is not available like in Netra shareera. But the following points are explained in brief.

in brief. Ghranendrium is one among pancha Gyanendria. It develops to the focus in the 3rd month of intra uterine period.

deline.			
Masa Puta pramanam <sub>1</sub> 1 or 2 Angula 3 3 Angula	Indira buddini The finalisation of smell sense is by the indira buddhi	Indita Masa 2 nostrilo	

it contains Tannasti (Cartilage) and 3 bones. It contains 2 Baitya srotas

OBAD

It contains 2 Peshi (muscles)

It contains 2 phana marma and shrungatak marma
a) Phana marmas are Sira marma, Vikalya Kara marmas
Arthangula pramana, If damaged causes loss of smell sensation
b) shrungatak marma nourishes the nose, if damaged causes
immediate death.
If contains Of Siras (6 Veta vahini 6 nitra Vahini

It contains 24 Siras (6 Vata vahini, 6 pitta Vahini 6 Kapha Vahini, and 6 Raktha Vahini.)

Among 24 Sira 4 are avedhya ,2 are for smell sensation.

# SOME WORDS RELATED TO NASA

Nasa, ghrana, nasika are synonyms

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It contains 2 Damani for smell sensation.

0

Ganda grahana	Bahya Nasa	Masa Pashchaath randra	Ghrana randra	Nasaasti danda	Grana moola	Nasaagra	Ghrana asti	Nasa tarunasti	Nasa nadi, nasa srotas, (
<ul><li>Nasal cavity.</li><li>Olfaction.</li></ul>	<ul><li>Olfactory nerves.</li><li>External nose.</li></ul>	= Posterior nares.	<ul> <li>Anterior nares</li> </ul>	<ul> <li>Bridge of the nose.</li> </ul>	<ul> <li>Root of the nose.</li> </ul>	Tip of the nose.	= Nasal Bone.	<ul> <li>Nasal cartilage</li> </ul>	Nasa nadi, nasa srotas, ghrana marga, means nasal cavity.

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### ANATOMY OF NOSE

External Nose:

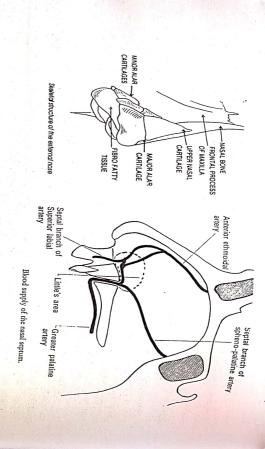
The external nose is pyramidal in shape composed of bone, cartilage, and soft tissue. The base of pyramid is periorated by two orifices, called artelor nares or Nostrils, they are separated by a median partition called columella. The root of the nose is the junction of it with forehead, the tip of the nose is called the apex, the dorsum of the nose is the anterior border joining the root with Apex, the upper bony portion of the dorsum is called the bridge of the nose, the rounded eminences at the lower end of the sides are named ala nasi.

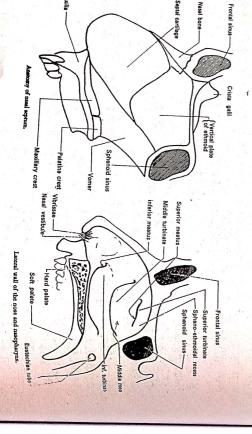
The Bony portion of the Nose is formed by a) Nasal bones, b) Nasal process of maxillae and c) Nasal process of frontal bone. The cartilaginous portion is formed by paired and unpaired cartilages. Paired cartilages are a) upper nasal cartilages b) Lower nasal cartilages or greater alar cartilages c) Lesser alarcartilages or Accessary alar cartilages. d) Vomero nasal cartilages. and un paired cartilage is the septal cartilage.

- upper nasal cartilages are 2 in number triangular in shape attached above to the Lower borders of the nasal bones and medially to the dorsum of the septal cartilage.
- 2) Lower Nasal cartilages or greater alar cartilage are bend around to form the contour of the ala and the nasal tip, the medial crus of this cartilage joins with it's opposite to form the columella
- smaller alar cartilage situated posterior to the Lateral crus of Lower Nasal cartilage.
- 4) Vomero nasal cartilage lie on either side of the postero inferior edge of the septal cartilage and are attached to the vomer bone.
- 5) Septal cartilage- septum divides the nasal cavity in to two halves. Anterior Quadrilateral part is septal cartilage and posterior portion is the bony. septum.

Muscles of the external Nose.

- Dilators and Compressors of the nostrils
- Depressors and elevators of the alaenasi





Blood Supply of external Nose: Facial and Ophthalmic arteries.

venous drain :- In the anterior facial and Ophthalmic veins.

Lymphatics :- Drain into sub mandibular and preauricular lymph glands.

#### Nasal Cavity:-

It lies below the cranial caivty, above the oral cavity and in between the orbits. Nasal caivty is divided into two halves by Nasal septum. Each Nasal cavity communicates with nasopharynx posteriorly through posterior nares or choana and anteriorly to the atmosphere through anterior nares or choana. It also communicates with paranasal sinuses and nasolacrimal duct.

The Nasal cavity is bounded by 1) Lateral Wall 2) Medial Wall 3) Roof 4) Floor.

#### 1) Lateral Wall :-

It is mainly formed by medial wall of maxilla, lateral mass of ethmoid. other smaller parts are formed by Ascending process of maxilla, perpendicular plate of palatine bone and medial pterygoid process of sphenoid bone.

It contains ridges (Turbinates or choncha) and depressions (meatus below to the turbinates.) There are 3 turbinates and 3 meatus superior middle and inferior respectively. Superior and middle turbinates are the part of ethmoid bone while the inferior turbinate is the separate bone.

Anterior part of the lateral wall is formed by the inner aspect of Nasal bones, anterior part of body of maxilla, frontal process of maxilla and a portion of inferior turbinate. Middle part of the lateral wall is formed by the medial surface of ethmoid labyrinth, superior and middle turbinates and the pterygoid plates. In the upper part is the spheno palatine foramin.

Meatus is the depression area below the turbinates, 3 in number - superior middle and inferior meati, various ducts opens in to meati they are as follows.

Naso Lacrimal duct opens into inferior meatus.

Into Middle Meatus.

b) Middle ethmoidal calls open into middle meatus above the heur

c) Maxillary sinus opens in the posterior part of the haitus semilularis and Haitus semilunaris is the semilunar gap below it ). In the middle meatus there is a bulge known as Bulla ethmoldals

### In to Superior Meatus :-

the sphenoid sinus opens. nate a small depression known as spheno ethmoidal recess present in which Posterior ethmoloal cells open. Above and behind the superior turb.

(Posteriorly) and cartilagenous (Anteriorly) parts. Nasal septum form the medial wall of the Nasal cavity, it has bony

# 1) Bony part of the septum is formed by

a) Postero - inferiorly by the vomer bone.

b) Postero superiorly by perpendicular plate of ethmoid

c) Masal spine of frontal bone joins the ethmoid plate.

d) Rostrum of sphenoid between the vomer and ethmoid plate.

e) Nasal crest of two maxillae and palatine bones

### 1 Cartilaginous part of nasal septum :-

nasal spine interiorly. inter nasal crest superiorly and to the nasal crest of the maxilla and anterior dicular plate of ethmoid bone, posteriorly to the antero-inferior border of vomer, It is quadrilateral cartilage attached postero superiorly to the perpen-

and two horizontal plates of palatine bone. The floor of the nasal cavity is formed by palatine process of maxilla

surface of body of sphenoid bone, of nasal spine of frontal bone, cribriform plate of ethmoid bone and under The roof of the nasal cavity is formed by 2 nasal bones, under surface

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# Blood Supply of Septum & Nasal Cavity:-

From External and internal carotid artery)

supply to septum) Long speno palatine branch of the internal maxillary artery (Main blood

supplies to upper part of lateral wall and upper and posterior part of Anterior and posterior ethnoidal branches of the ophthalmic artery -

inferior part of septum, floor and Lateral Wall. Terminal branches of greater palatine artery supplies to antero

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1

Superior labial artery branch of facial artery supplies to septum and

of Nasal bleeding. septum called (keissel-bach's plexus) Little's area. This is the common site Note: Most of Blood vessels get anastamosed at anterio inferior part of Venous drainage :- Anteriorly into facial vein posteriorly into pharyngeal

plexus of veins and middle part into pterygoid plexus. of veins.

#### Nerve Supply :-

Respiratory Portion :- Is supplied by

 Greater palatine Nerve 4) Anterior superior dental nerve 5) Sympathetic 1) Anterior ethmoidal branch of nasociliary nerve 2) Spheno palatione Nerve

and parasympathetic nerve fibres.

form plate of ethmoid and end in the olfactery bulb. From the offactery portion filaments pass through foramina of cribri-

### Lymphatic drainage :-

Rest of the nose into deep cervical lymph nodes External and anterior part of Nose into sub mandibular lymph nodes,

### Paranasal Sinuses :-

bones in relation to nose, they are divided into 2 groups as follows Paranasal sinuses are the spaces filled up with air in certain skull

Anterior group :- a) Maxillary Sinuses (Antrum of high more)

b) Frontal sinuses.

c) Anterior group of ethmoidal sinuses.

these sinuses drains into middle meatus.

a) Posterior group of Ethmoidal sinuses. drains, into superior meatus b)Sphenoidal sinuses. drains into spheno ethmoidal recess. 139

sinuses is directed towards the nasal caivty. All triess smarring fied columnar cilatted epithelium) The movement of the cilia in the para nasal raivity. All these sinuses are lined with respiratory epithelium (pseudo stration). The movement of the cilia in the national strations are lined with respiratory epithelium.

maxilla, it separates the sinus from pterigo palitine fossa. ing infra orbital foramin. 5) Posterior wall is formed by posterior surface of Anterio lateral wall: It is formed by anterior part of body of maxilla it contain. possibility for spreading of infection from pre molar and molar teeth roots, 4) nasal cavity and is formed by alveolar process of maxilla - so there is every by infraorbital Neve. 3) Floor of the sinus lies about 1cm below the level of of cavity 2) Roof of the sinus is formed by the floor of the orbit It is grooved the roof of the antrum medially so only un favourably placed for the drainage Or base of the antrum is the part of lateral wall of Nose. Opening lies beneath largest of the paranasal sinuses with 15CC capacity, Base lies medially and 1) Maximary since virtue maxilla, sinus cavity may be divided into small spaces by bony septa it is the maxima. Apex lies in the zygomatic portion of maxilla. It has 5 walls. 1) Medial wall. Maxillary sinus (Antrum of Highmore ) This is pyramidal cavity in the

bone, on the lateral wall of nose. below. the middle turbinate. semilunaris between bulla ethmoidalis and the uncinate process of ethmoid The opening of maxillary sinus is in the posterior part of the haitus

Blood Supply: Infra orbital facial and greater palatine arteries.

Lymphatic drainage - sub mandibular and Retro pharngeal Nodes. Nerve Supply :- Infra orbital Nerve and anterior posterior alveolar nerves

#### Frontal Sinuses :-

is size and are separated by medial wall. Frontal sinus capacity is lcc, it has 3 walls, the 2 sinuses are unequall

a thin bone separating the sinus from the orbit. wall is thin and seperates the sinus from cranial fossa. 3) Floor is formed by Anterior wall Formed by the outer table of frontal bone 2) Posterior

anterior part of themiddle meatus. Frontal sinus is drained by the fronto nasal duct which opens in the

Blood Supply :- Supra orbital artery.

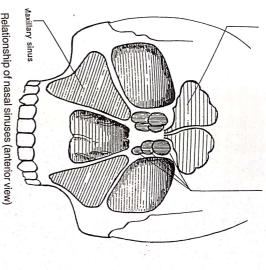
Nerve Supply :- Supra orbital nerve.

Lymphatic drainage:- Sub mandibular lymph nodes.

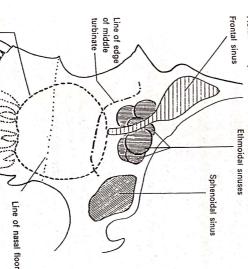
Ethmoidal sinuses :-

in the middle meatus and posterior ethmoidal cells drains into the superior middle They occupy the ethmoidal bone. Anterior, middle ethmoidal cells drains ethmoidal cells on either sides, They occupy the ethmoidal bone. Anterior, There are 3 groups of ethmoidal sinuses having approximately 15 to20





Testing for tenderness of maxillary sinus



Acute frontal sinusitis causing cellulitis of the eye lids

Line of maxillary sinus

Relationship of nasal sinuses. Note relation of tooth roots to maxillary antrum. 141

Superiorly - Walker County, superior and middle turbinates, inferiorly may duct, medially Nasal cavity, superior and middle turbinates, inferiorly may Relations:

Superiorly - Cranial rossa, laterally orbit, optic nerve and haso lacrimal superiorly in the result with superior and middle turbinates. Inferiors. llary sinus, posteriorly sphenoidal sinus. Anteriorly external nose. Relations :-

and vessels These sinuses are supplied by anterior and posterior ethmoidal Nerves

### The Sphenoidal Sinus ;-

anterior wall, it drains in the superior meatus through the sphenoethmoidal about 1cc. The opening of the sinuses is situated in the upper part of the sinuses are unequally divided by a septum, the capacity of each sinus is phenoidal sinuses develops in the body of the spenoid bone, the two

sinus with intenal carotid artery and optic nerve. anteriorly related to Nasal the basilar artery and brain stem. Lateral wall is related to the cavernous nasopharynx with Vidian nerve. Posterior wall or basisphenoid is related to to vessels and nerves from the spheno palatine fossa. The floor is related to optic chaisma, pitutory body and pons. Lower part of anterior wall is related Superiorly: The sinus is related to the frontal lobe olfactory tracts,

# PHYSIOLOGY OF NOSE AND PARANASAL SINUSES

### Functions of the Nose :-

- of an arc, mouth breathing is an acquired lesion due to the nasal obstruction. dial to the middle turbinate and then down wards and back wards in the form ) Respiration - inspired air passess upwards in a narrow stream me-
- sion, the olfactory cells are stimulated and carries the smell sensation to the still unknown But the odoriferous material reaches the olfactory area by diffucells are distributed in the olfactory mucosa. The exact theory of olfaction is cavity adjacent area to superior turbinate and upper part of septum. Olfactory 2) Olfaction :- The olfactory mucosa is located in roof of the nasal
- particles) and by lysozyme enzyme of nasal mucosa (Anti bacterial propsal hair ) of nasal vestibule (filter the coarse particles), cilia (remove the smaller 3) Purification of (Filtration) inspired air carried out by vibrissae (Na-
- cosa, if not causes damage to the respiratory tract. ing occurs) before reaching the lungs by the highly vasculared Nasal mu-4) Warming and moistening of cold and dry inspired air (Air condition-

- Ke M. and N. sinuses and there are also responsible for pronouncing the nasal consonants 5) Resonance is added to the voice by the masal cavity and paranasal
- nuses and lacrimal apparatus. 6) The Nose acts as the out let (Drainage cavity) for paranasal si-
- ear cavity through the eustachian tube. equalisation of pressure of air between the external atmosphere and the middle 7) Nose acts as the ventilating shaft for the Eustachian tube for the
- irritaents the respiration may be stopped temporarily to protect the respira-8) Reflexes like sneezing have a protective function on exposure to

# **FUNCTIONS OF PARANASAL SINUSES**

perfrom the following functions. The exact functions of the paranasal sinuses are uncertain. But

- Protection to the orbit
- Reducing the skull weight (lightening)
- $\omega$ 5 Resonance of Voice.
- Respiratory and air conditioning function up to some extent.
- 0 0 4 Rapid growth of face due to formation of sinuses.
- Ex. implantation of maxillary sinus mucosa into nasal cavity in Sinus mucosa acts as donar site for reconstructive procedures. atrophic rhinitis
- Increase surface area for teeth eruption.

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### **NASA PAREEKSHA**

Examination of Nose according to Ayurvedic texts.

pareeksha. But in general the description is available like. According to Ayurveda there is no special description of Nasa

- 1) Bahir srotopareeksha (Nose and and nasalcanal)
- II) Ghrana indria Pareeksha (one among panchendria)
- for its size shape position function in this most of points will be covered except.nerve perception. 1) Bahir sroto pareeksha includes the common examination of Nose

Ex : -1) Nasal secretory lesions (Rhinitis) pratishyaya, peenasa, puthi nasya,

2) Obstructive lessions, Nasa pratinaha, Arsha, grandhi, vidradi, arbuda Puyaraktha etc.

3) Inflammatory lessions - (Nasa paka, deepthi)

4) Atrophic lesions - (Nasa sosha)

5) Asatmyaja (Allergic) - (kshavathu)6) Abhighataja - Traumatic lesions etc.

I) Ghrana indria pareeksha ( test for olfaction)

a) Normal smell sensation

b) Reduced smell sensation (Hena yoga) (Hyposmia)

c) Unpleasant change in smell (Mithyayoga) (Parosmia)

d) Exaggerated smell sensation (Atiyoga) - (Hyperosmia)

e) Loss of smell sensation (Ayoga) (Anosmia)

but the exact etiological factors and methods of examination are not explained So Indria vikar is explained according to hena midiya Ati and Ayoga

# EXAMINATION OF THE NOSE AND PARANASAL SINUSES

of the disease they are, should be enquired and examined to get a fair idea about the disease; among the following symptoms few or total may present according to the condition , so the origin duration and progress of each of the following nasal symptoms An acurate history of the patient is essential for the correct diagnosis

1) Rhinorrhoea (Nasal discharge) 2) Blocking of Nose.

3)Sneezing 4) Epistaxis 5) Head ache 6) Disorders of olfaction

7) Post nasal drip 8)Speach defects 9) Nasal pain

10)Symptoms due to extention of the disease.

#### 1) Rhinorrhoea :-

tery, mucoid, muco-purulent, purulent or Blood stained. Discharge from the nose may be unilateral or bilateral, it may be wa-

cold, vaso motor rhinitis and C.S.F. Rhinorrhoea. a) Watery discharge is usually found in the early stages of common

b) Mucoid discharge is usually a feature of allergic rhinitis.

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13) Specific infection. 12) Septal abscess

14) Rhinitis medicamentosa.

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eign bodies in the nose. d) Purulent discharge is a feature of atrophic rhinitis, furunculosis and forc) Muco purulent discharge is a feature of infective rhinitis and sinusitis.

e) Blood stained nasal discharge usually indicates malignancy, old foreign

## AETIOLOGY OF NASAL DISCHARGE

8 3	7.9	<u>D</u> (	ת ב	4)	<u>) (</u>	૭	,	<u></u>		
Rhinolith	Neoplasms	C.S.F. rhinorrhoea	Rhinosporidiasis	Antro choanal Polyp	Unilateral choanal atresia	Unilateral sinusitis	in children	Old foreign body in the nose	Unilateral causes	
8) Specific Rhinitis	<ol><li>Diphtheritic rhinitis</li></ol>	6) Enlarged adenoids	5) Atrophic Rhinitis	4) Ethmoidal polyp	<ol><li>Bilateral choanal atresia</li></ol>	2) Bilateral sinusitis	rhinitis	<ol> <li>Nasal allergy-Vasomotor</li> </ol>	Bilateral causes	

### 2) BLOCKING OF NOSE

 c) If unilateral or Bilateral obstruction(Allergy) b) If persistent obstruction (Adenoids, D.N.S, polyp) or Temporary a) Onset is whether congenital (By birth), or acquired (Polyp - DNS Allergy) The following points should be enquired and examined.

# **AETILOGY OF NASAL OBSTRUCTION**

of Anterior nares. 2) Ethmoidal polyp 3) Antro choanal polyp 3) Nasal allergy (va 4) Foreign body or Rhinolith 5) Unilateral sinusitis 6) Synechia 7) Hypertrophy of inferior turbinate 7) Atrophic rhinitis 8) Rhinosproridiosis (unilateral) 9) NeoPlasms 10) Rhinosporidios 11) Antro choanal	Unilateral obstructive causes 1) Congenital - unilateral choanal atresia, Atresia
2) Ethmoidal polyp 3) Nasal allergy (vasomotor rhinitis) 4) Acute rhinitis and sinusitis 5) Chronic sinusitis (Bilateral) 6) Diphtheritic rhinitis 7) Atrophic rhinitis 8) Enlarged adenoids 9) NeoPlasms 10) Rhinosporidiosis (Bilateral) 11) Antro choanal Polyp (rarely)	Bilateral obstructive causes Congenital - Bilateral choanal atresia.

Sheszing to we constant head mucosel instation with infection, nose but some times due to constant head mucosel instation with infection, seding is the normal nasal reflex to clear the secretion from the sheezing is the normal nasal nasal mucosal inflation with including

mon causeurs working due to nasal irritation, sunstroke etc., The bleeding dyscrasias nasal picking due to nasal irritation, sunstroke etc., The bleeding mon causative factors are injury to head or Nose, hypertension Blood abnormal biverance:

4) Epistaxis: Bleeding per Nose occurs due to so many causes, the con-

The little's area of nose due to its high vascularity (multi vessels anastamosis) may be unitateral or Bitateral

prone to bleeding due to irritative factors)

with cold, nasal discharge, nasal obstruction etc symptoms Head ache due to nasal and paraneal diseases commonly associate

in the sinuses and causes pain. Ex:- 1) Vaccum head ache, due to nasal obstruction in which the air is packed

2) In frontal sinusitis in the early morning fore head pain present that

3) Sphenoidal sinusitis causes head ache at occiput

4) maxillary sinusitis and ethmoidal sinusitis causes head ache at their

### Disorders of Olfaction :-

tobacco habit etc causes, a) Hyposmia ;- Diminished smell sensation due to old age, menopause,

nose, central lesions of brain and Lesions of mucosa, and due to trauma b) Anosmia ;- Loss of smell snesation due to obstructive lesions of

ture, streptomycin therapy etc causes. c) Parosmia - Unpleasant change in smell sensation due to skull frac-

lepsy, pregnancy, hunger, strychnine poisoning etc causes. d) Hyperosmia - Exaggeration of the olfactory sensitivity due to Epi-

maxillary sinusitis, dental sepsis, pus in the middle ear and lung abscess etc. a) Cacosmia - perception of foul smell due to the internal causes like

# Post nasal drip and Hawking -

Nose and para nasal sinuses ) and produces pharyngeal symptoms. It is common in adenoids sinusitis (Allergic and infective lesions of

Speech defects :-

ing function leads to Nasal voice (Nasal Intonation or Rhinolalia.) Disorders of nose and para nasal sinuses may cause loss of resonat-

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### AETIOLOGY OF RHINOLALIA

1) It is due to lesions of Apinolalia clausa Nose, Naso pharynx, & paranasal 2) cleft palate 1) It is due to palatal lesions Rhinolalia apena

2) Nasal obstruction occurs

turbinates, DNS, Rhinitis Nasal polyp, Hypertrophied medicamentosa, growths

Adenoids, Nasopharyngeal 3) Nasopharyngeal obstruction

8) Palatal perforation

Palatal Cicatrisation.

Some times after adenoidectomy.

Congenital short palate 4) Sub muccus cleft palate 3) Palatal paralysis

4) Choanal atresia fibroma, Nasopharyngeal

Neuralgia and caries teeth. Nasal Pain - due to vestibulitis, trauma furunculosis, cellulitis of Nose,

orbit, cranium, cavernous sinus etc. and produce symptoms of respective 10) Symptoms due to extension of the disease to the adjacent regions like

# **EXAMINATION OF EXTERNAL NOSE**

### Inspection & Palpation:-

nose, swellings, polyps, scars and sinus etc. may become Asymmetrical or deformed, ex:- depressed, bridge, Broadened with centrally placed septum, equal size of Anterior nares and nasal cavities straight, centrally placed on the dorsum of the nose, (bilateral symmetrical) But due to congenital developmental traumatic and inflammatory causes it Normally Nose appears pyramidal in shape, nasal bridge should be

due to nasal polyps and malignancy Broadened nose - due to congenital developmental Traumatic and

Deformed Nose - Due to congenital, traumatic causes and also due to

O syphilis. Depressed Nasal bridge - due to Congenital traumatic and due to

Woody feeling of Nose due to Rhinoscleroma

**⊅**@ Potato nose in Rhinophyma

Stenosed anterior nares in Rhino scleroma







Anterior rhinoscopy with Thudichum nasal speculum



Scars - Traumatic and surgical

A sinus in mid line of Dorsum of Nose is congenital

Vestibule should be carefully examined for swellings furuncle ulcer

vestibule due to traumatic causes. Displaced Anterior end of septum may be projecting in to

By Crepitations of Nasal bones fracture can be detected.

**Examination Nasal Cavity** 

Anterior Rhinoscopy :-

tum projecting into vestibule. redness swelling as in furunculosis and dislocated anterior end of the sep-(without a nasal speculum ) by raising up the tip of the nose for inspection of Examination of Anterior part of the Nasal vestibule is usually done

jum, the following structures can be seen (by Anterior rhinoscopy) While the examination of Anterior part of Nasal cavity with nasal specu-

1) Vestibule of the nose

Nasal septum and Little's area

Inferior and middle turbinates and meatus (superior turbinate and meatus cannot be seen

4) Floor of the nasal cavity.

and bleeding points of the region if any. essary otherwise the blades of speculum may injure the papillomas cysts Note :- Initial examination of nasal vestibule without nasal speculum is nec-

keeping the right hand free for Manipulations. speculums are in different sizes, the speculum must be held in left hand and Thudicum's speculum or st clair Thomsons speculum with a handle. The The Anterior Rhinoscopy is carried out using a head mirror Light sourse

In to nasal canal and the blades of the speculum are gradually opened to controle the spring of the speculum. The closed speculum should introduced hand, the middle finger rests on one side and ring finger on the other side to posterior portions of nasal cavity are Veiwed. permit proper examination of the nose. The floor lateral wall septum and The thudicum's speculum is held with the thumb and forefinger of left

minitis etc. Cosa in Allergic conditions and dry mucosa with crusting is seen in atrophic dull red but in inflammatory lesions becomes congested, pale or bluish mu-The colour of the nasal mucosa should be examined, in normal it is

Septal deviations or spures and perforations of septum should be ex-

Inferior and middle turbinates appear as prominent fleshy, firm and red projections on the lateral wall, these donot move on probing, the turbinates get shrinken or dried in atrophic rhinitis and grossly hypertrophied in chronic rhinitis, vasomotor rhinitis and in allergic rhinitis. The inferior and middle meati should examine for redness, polypi and for discharge, A postural test may be done to note the probable site of origin of discharge, A postural test may be middle meatus if it reaccumulates quickly it indicates that pus is coming from frontal sinus, if the patients head is turned to the normal side and kept for some time if pus reaccumulates at middle meatus that is coming from maxillary sinus).

The floor of the nasal cavity is seen as a concave tunnel

Nasal cavity is examined whether the space is equall on both sides or obstructed. Assessment of airway is done by Keeping a cold glass slide or metallic tongue deppressor just infront of the nostrils. on expiration the warm air produces an area of condensation on the surface, the difference on the two sides is an indication of nasal obstruction. the air blast can also be compared by watching the degree of movement of wisp of cotton woool held infront of the nostril

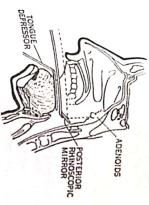
# Abnormal findings in Anterior Rhinoscopy:-

1) DNS, 2) Septal perforation 3) Polyps 4) cyst or tumours 5) Congested or Atrophied or Hypertrophied or pale mucosa 6) Watery or mucoid or mucopurulent or purulent or blood stained, or foul nasal discharge 7) foreign bodies or Rhinoliths. 8) unilateral or bilateral lesions 9) probing should be performed gently for polyps, pedunculated masses, foreign bodies and Rhinoliths. 10) Obstruction of the air way (Rhinomanometry).11) In hyper trophied nasal mucosa for better examination topical decongestant drops are instilled.

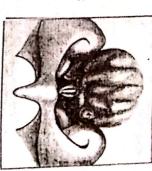
Examination of Oral Cavity in Relation to Nasal Paranasal diseases
a) Gingio buccal sulcus should be inspected for oro antral fistula (communication between oral cavity and maxillary sinus)

 b) Soft palate should be examined for bulging down wards due to mass in the naso pharynx like tumour, antrochoanal polyps.





The Posterior Rhinoscopy



Posterior rhinoscopic view of adenoids and Eustachian cushion



Diagram of nasal polypi



Technique of removing a nasal foreign body



Structures seen by Posterior Rhinoscopy

Posterior Rhinoscopy :-

rior Rhinos ייטיץ. Examination of posterior parts of Nasal cavity is known as posterior

and experience to perform. scopic mirror, it is slightly difficulty method need co operation of the patient copy.

Posterior rhinoscopy is performed with the help of posterior rhinoscopy is performed with the help of posterior rhinoscopy.

can be seen as the reflected image. image of post nasal cavity and nasal pharynx will be seen, the following points wall it causes reflex gaging) light is focussed on the mirror then the reflected the soft palate, palatal arches posterior 1/3 of tongue or posterior pharyngeal terior pharyngeal wall and soft palate without touching (if the mirror touches mirror is held in the right hand and passed into oropharynx between the posadvised to breath quietly through the nose and relax. A warmed post nasal sor is used with left hand to depress the anterior 2/3 of the tongue, patient is Method: The patient is asked to open the mouth, a tongue depres-

- 1) The Posterior end of free margin of septum.
- 2) On either sides to septum posterior choanae are seen.
- posterior ethmoidal and sphenoidal sinus secretions are seen. 3) Posterior ends of turbinates, superior, middle meati, maxillary,

swelling coming from choanae into Naso pharynx .. 4) Antro choanal polyp may be seen as a greyish pale smooth

5) Superior surface of soft palate is seen with secretions, newgrowths,

polyps , foreign bodes etc

- turbinates on either sides with tubal tonsils, the site is behind the posterior end of inferior 6) Laterally Eustachian, choanal openings, Pharyngo tympanic tubes
- behind the eustachian tubes. 7) Fossa Rosen muller is the frequent site of malignancy is seen
- at the junction of roof and posterior pharyngeal wall 8) Inflamed adenoids in children may be visulalised as a pinkish mass
- 9) Roof of Nasopharynx can be seen.

Children cannot give co-operation for this examination

## Electrical Nasopharyngoscopy:-

Nasopharynx and the lesions can be seen directly. Electrical Nasopharyngoscope is passed through nasal cavity and

Digital Palpation of the Post nasal space and Naso Pharynx:-

mouth has been opened) with the left hand of doctor so as to prevent the Parent (It is needed in doubtful cases of malignancy of Naso pharynx Naso pharynx (It is needed in doubtful cases of malignancy of Naso pharynx Naso palent then pass the fingers of the right hand behind the soft palate into the biting or closure of the jaw the examiner should stand on the right side of the and in children for adenoids.) to palpate the lesions, if any. The cheek of the patient is pressed in between the jaws (after the

# Examination of Nasopharynx with retracted soft palate:-

of the Naso pharynx. two ends tied togher this retracts the soft palate and thus allows a direct view Rubber catheter should insert into oropharynx from the nose and the

# Trans illumination test for sinuses :-

mouth is closed thelight transmitted if seen through the walls of sinus, they dark room by illuminating the oral cavity with low voltage torch when the due to the availablity of X-ray. are normal. if not diseased. No body is follwing this technique Now a days It is specially for maxillary and frontal sinuses, It is conducted in a

# Palpation for tenderness of the para nasal sinuses :-

- the cheek a) In maxillary sinusitis tenderness is elicited on the canine fossa at
- thus of the eye (medial portion of floor of the sinus) b) In frontal sinusitis tenderness is elicited just above the inner can-
- between inner canthus of eye and Nose. c) In Anterior ethomoidal sinusitis tenderness is elicited at the midway
- palpated d) Rest of the sinuses are deeply seafed so tenderness cannot be

#### Posture test :-

nusitis It is for the differential diagnosis of frontal sinusitis and maxillary si-

that is coming from frontal sinus. If the patient's head is turned to the normal side and Kept for some time, if pus accumulates that is from maxillary Pus should be cleaned at the middle meatus if it reaccumulates quickly

Radiograpy - Sinogram sinoscopy confirms the diagnosis. 153

#### Common Actiology of Masal diseases NASA ROGA SAMANYA NIDANAM:

· NEGETI STITESO OMETETTI.

Nose is only the gent on the head, so only having utmost importance among Naser is only the gate way for the drug administration or for the eliminates is only the gate way for the drug administration or for the eliminates.

real

reactions, depenerative changes, injuries etc. respiration so only prome to attacks of bacteria, virus, fungus, allergic Two nostrils are exposed to the atmosphere for smell sensation and

The few common aetioloical factors are here under

Nasal Foreign bodies  Ati vyayama  - Doing more exercise Shoka Shoka Systemic infections (TB syphilis leprosy etc.) Peripheral infective lesions like tonsils, Adenoids, Pharyngitis etc. Inhaling teekshna vidaha dravyas Beeja doshar- Heriditory causes Congenital causes 33) Cranial neuralgia 34) Malnutrition and Hypo vitaminosis 35) Indiopathic causes, By above causes vatadi doshas vitiate and accumulate in the head and causes Nasa rogas.	

# Common Prepdisposing factors of Nasa rogas in brief:

other than allergy, like Nasal picking or foreign bodies. Inflammatory lesions by bacteria or virus or fungus 7) Peripheral infective vapour cold exposures, inhaling poisonous flowers, seasonal changes etc 6) jeprosy etc. 4) Head and Nasal injuries 5) Allergic factors like, Dust smoke 1) III health 2) General debility 3) Chronic systemic diseases like TB syphilis foccus like tonsilitis Adenoids contageous eye infections 8) Irritative factors

# Classification of Nasal Diseases:-

According to sushrutha Nasal diseases are 31

Bhavamishra and yogaratnakar 34 diseases.

Vagbhata 18 diseases

Charak - no specific number is mentioned

1) Sushrutha's Classification of nasal diseases = 31

they are,

Puthi nasya or puthi nasa (Ozaena Or atrophic rhinitis) Apeenasa or peenasa (Atrophic rhinitis)

Nasa paka or Ghrana paka (furunculosis or vestibulitis)

Shonitha pitta or Raktha Pitta (Epistaxis)

Puya shonitha or puya raktha (Lupus in the nose, chronic rhinitis)

Bramshathu (Mucoid discharge from the thickened mucosa of sinus. Kshavathu or kshava (Vasomotor rhinitis or Allergic rhinitis)

Dheeptha or Deepthi (burning irritation in the nose).

Nasanaha or prathinaha (Deviation of Nasal septum ).

Parisrava (rhinorrhoea)

Nasa sosha (Atrophic rhinitis or Rhinitis sicca)

16 to 19, 4 types of sopha (Oedema in nasalcavity 12 to 15, 4 types of Nasa arsha (Polyps of the nose)

20 to 26 7, types of arbuda (Tumours or growths of the nose)

27 to 31, 5 types of pratishyaya of the nose (Rhinitis)

22 23

Nasal picking.

Inhaling the poisonous flowers

2)According to Bhava mishra and yogaranakar 34 Nasal diseases,

Ness Rectile pulse  $\sim 7.7$  One and one of the sushruthality of  $\sim 31 + 3 \approx 34$ , ording to sushruthal so 3 diseases more than sushruthality  $\sim 31 + 3 \approx 34$ , they are, Nasa Paktha pitta is 4 types According to these authors - but only one ac.

3) Accordig to Vagbhata 18 diseases. Vagbhata

Arsha 4 types Bhavamishra

Paktha Pitta 4 type Arbuda 7 types Shopha 4 types

Bramshathu 1 type

not explained so 4 less Note explained so 4 less one type so 6 less One type so 3 less

Vagbhata reduced = 18 diseases

not explained so 1 less.

Dusta Pratishyaya

so, 34-18=16, then he added

Total List the diseases of nose as per Vagbhata

pratisinjaya. 6) Nasanaha 7) Parisrava 8) Puya shoonitha 9) Nasa sosha 10) Nasa arsha Masa arbuda 12) Dusta Pratishyaya 13) Putaka, (14 to 18.) 5 types of Apsenasa 2) Puthinasya 3) Nasa Paka 4) Brusha kehava 5) Deepthi

### According to Charak

than 20 diseases. He has not mentioned the total list of the diseases but explained more

# l to 5) PRATISHYAYA (Rhinitis)

Defination :-

A) 1) " Valam Prati abhimukham shyayo gamanam Kaphaadeenam yatra sa

Prathi = Opposite direction (means to out side)

Shyaya = Moment of the doshas.( elmination of dosha)

i.s. - Kaphadi doshas are eliminated out through the nose, is known as

2) "Prati kshanam shyayathi ithi Pratishyayah "

only called as Pratishyaya. Kaphadi doshas are Continuously eliminated out through the nose so

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## в) Importance of Pratishyaya :-

of the body. charaka explained that if the disease is not treated properly or neglected, causes so many complications of Nose, ear, throat, head, eye and other parts It is explained as the most improtant disease among the nasa roga.

Ex: Dusta Pratishyaya, kshavathu, Nasa sosha, Pratinaha, Parisrava, Puthi (Anosmia) etc., roga, Karna roga, Netraroga, Khalithya, Arjuna, swasa, Kasa, Jwara, Raktha nasa, apeenasa, Nasa Paka, shotha, arbuda, puyaraktha, Aroomshika, shiro pitta, swarabhedha, sosha, Andhatwa, Bhadinya, agnimandya, Aghranatwam

### c) Nidana (Aetiologoy ) :-

pratishyaya only, this shows the importance of pratishyaya among the nasa rogas, once again the aetiological factors are given in brief The common aetiological factors of Nasa roga are really explained for

Tridosha vitiating factors

ter, taking in-compatible food etc. ex in take of cold things, exposure to rain, snowfall, swimming in wa-

- 2) Mano dosha vitiating factors. ex Excessive Anger, fear etc.
- Abhighataj Karana (injuries) shiro abhighata - nasa abhighata etc
- 4) Irritative factors or Allergic factors ex exposure to dust, smoke, exposure to cold wind or sunstroke etc.
- 5) Because of other chronic diseases (specific infections) ex Tuberculois, Leprosy, syphilis etc.
- 6) Debilitative factors :status, living in unhygienic surroundings etc. 7) peripheral lesions (due to mucosal continuity) pharyngeal, laryngeal, oral, ex ill health, weak personality, loss of immunity, low socio economic

Note:-" The Description is given at common aetiological factors (samanya Nidana ) of Nasa roga.

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auricular, blood borne infections etc.

Poorva roopa of Pratishyaya :-

in the palate 12) Lala srava (salivation) 13) Dryness of throat etc. ing or itching sensation in nasal cavity 11) Taludarana (Dryness and crackings in or itching sensation in asal cavity 11) Taludarana (Dryness and crackings) tion) 9) Netra Kandu (tiching sensation at inner canthus especially) 10) Burn-Angamarda (Pud) Francis (Head ache) 8) Ashrusrava (Lacrima, Aruchi (Tastelessness) 7) Shirashoola (Head ache) 8) Ashrusrava (Lacrima, Aruchi (Tastelessness) 7) Poorva roopa of Prausing 1975

1) Shirogurutwam (heavyness of the head) 2) Kshavathu (Sneezing) 3)

1) Shirogurutwam (heavyness of the head) 2) Kshavathu (Sneezing) 3)

Angamarda (Body pains) 4) Romaharsha (Head ache) 8) Ashrusrava (Hever) 6)

## E) Samprapthi of Pratishyaya :-

in the shiras, then propogates to the nose and causes the Pratishyaya etc The vittated vatadi doshas either individually or together accumulates

# F) Bhedas: Types of pratishyaya, 5 types they are :-

- 1) Vataj Pratishyaya 2) Pittaja Pratishyaya
- 3) Kaphaj Pratishyaya 4) Raktaj Pratishyaya
- Sannipathaj Pratishyaya.

# 1) Vataja Pratishyaya (Sub acute Rhinitis)

#### Clinical Features :-

ness of the voice 10) charaka explained these symptoms under vataj peenasa so according to charak pratishyaya and peenasa are one and same. Paka (Delayed suppuration of doshas ) 8) Distaste in the mouth 9) Hoarsesneezing. 6) Pricking pain at teeth, Temporal region and in head 7) Chira the throat Lips and Palate 4) Pain and discomfort in the nose 5) Increased 1) Nasal obstruction 2) Watery ,cold, fresh, nasal discharge 3) Dryness in

# 2) Pittaja Pratishyaya (Acute Rhinitis)

#### Clinical features :-

- Yellowish or reddish hot nasal discharge.
- The person becomes weak and anaemic
- 8 N mouth and throughout the body High temparature (Fever) causes severe burning pain in the nose
- 4005
  - Nasal furunculosis or ulceration
  - Giddiness
- Becomes inactive tired and weak.

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### Clinical Features :-3) Kaphaj Pratishyaya (Chronic or Hypertrophic rhinitis)

- Cool whitish thick nasal discharge comes from nose
- Heaviness in themouth and head
- Anaemia (Pale or whitish skin)
- Oedema of eye and its appendages
- Severe itching sensation in the head throat- Palate and lips.
- Cough 7) Sweet taste in the mouth 8) Difficulty in respiration
- Heavyness of the body 10) Vomitings (vomitis the Kapham)

### 4) RAKTAJ PRATISHYAYA

(Acute Rhinitis Or Acute influenza)

### Clinical Features :-

- Hyperaemia of eye (Conjunctiva)
- Blood stained nasal discharge or bleeding from the nose
- 5 4 3 2 1 Foul smell through nose and mouth.
  - Loss of smell sensation (Anosmia)
- 8) Cough 9) Severe discomfort and itching sensation Manifestation of small magots in the nose 6) Chest Pain 7) Fever
- 10) Signs and symptoms of Krimija shiro roga.

#### 5 Sannipathaja Pratishyaya :-

or Tridoshaja Pratishyaya

### Clinical Features :-

- Frequent attacks of Common cold.
- 2 suppurate (Apakwa or Pakwa ). Kaphadi doshas some times suppurates and some times doesn't
- <u>4</u> 3 Severe Pain in the Nose and head
- The symptoms are like peenasa
- 0 5
- All the symptoms of three doshas present.
- It is explained as Asadya (incurable)

### DUSTA PRATISHYAYA

pratishyaya. counted separately But vagbhata expalined it in addition to the 5 types of Sushrutha explained it as the complication of pratishyaya so not

Clinical Features :-

- some times nose obstructed and some times normal al Features
  Some times nasal discharge comes and some times nose get dried.
- Foul smell exhibited while respiration
- Kasta sadya wyadhi (difficult for cure) Anosmia loss of smell sensation)

cough, fever, Bleeding disorders, Hoarse Voice and Dehydration (sosha) etc. eye diseases, Bald head (Khalithya), Grey hair (Phalitha), thirst, Tiredness, copunient discharge, ulcars, shiro roga (diseases of head), ear diseases, fununculois, dedema of Nasal mucosa, tumours of nose, blood stained mu-Nasal distruction Phinorrhoea, foulsmell from nose and mouth, Phintis cation of pratisfyaya, the clinical features are sneezing, dryness of nose, Charaka described it in detail, according to him it occurs as a comple

cough, Loss of appette and oedema etc., leads to Dusta Pratishyaya and assoicated with Deafness, Blindness, Anosmia Sushnotha also explained that if Pratishyaya is not treated in time

So for having so many complications it is said as Kasta sadya (diffi-

# PEENASA - APEENASA - PRATISHYAYA

- with wording difference and also said this is the chronic or progressive stage 1) Most of the acharyas said that peenasa and apeenasa are same
- are chronic or progressive stages of pratishyaya. 2) Vaginats said peenasa and apeenasa are different but these two
- nose and sticky nasal discharge more than peenasa. 3) Vegeneta said that Apeenasa contain pain, ghur ghur noises in the
- ie. Symptoms are more complicated with more obstructive lesions in nose as

The order of severtry is -- "Appeenasa > Peenasa > Pratishyaya".

is

sensory loss). Pratishyaya Contain less complications and with running nose (no

Peenasa contain more complications than pratishyaya with sticky na-

sal discharge -

than peenasa (Anosmia and other Indria vikara are observed) Apeenasa contain more complications and more obstructive lesions

Pratishyaya symptoms are equalant to peenasa). and same and said it is as the complication of pratishyaya (sannipathaja But according to sushrutha above peenasa and Apeenasa are one

# 6) APEENASA ACCORDING TO SUSHRUTHA:-

- 1) Symptoms of pratishyaya present, additionally following points are
- 2) Vitiated Kapha causes stickynasal discharge
- 3) Vitiated Pitta causes dryness, burning sensation and nasal obstruc
- Anosmia (loss of smell sensation) and pain. 4) Vitiated Vata causes lesion of sensory organs (Indriavikar.) Like

# Apeenasa According to Vagbhata.

the severity is more than peenasa and Pratishyaya. tinuously and also causes loss of smell sensation, is explained as Apeenasa difficulty in respiration, yellowish sticky discharge oozes (Singhanakam) con-Vitiated Kapha causes nasal obstructon, ghur ghur noises in the nose,

#### Other Authors :-

duces blood stained nasal discharge with pain itching and burning sensation. The Kapha dosha of mastishka get dried or burnt by pitta and pro-

#### Kartheek:-

(Aetiopathology) is different. Apeenasa and peenasa are one and same but samprapthi

## Bhavamishra - yogaratnaker :-

Krimija shiro roga in Apeenasa. Pratishyaya if infected by Krimi produces the similar symptoms of

# APAKWA PEENASA OR NAVA PRATISHYAYA OR AMA PEENASA

#### Clinical features :-

- 1) Aruchi (taste lessness) 2) Vairasya (Un pleasent taste in the mouth)
- Nasa srava (Rhinorrhoea)
- 4) Body Pains 5) Arathi (restless ness)
- 4) Body Pains 3) And Committees of head) 7) Kshavathu (sneezes) 8) Jwara 6) Shiro gurutwam (Heaviness of head) 7) Kshavathu (sneezes) 8) Jwara (Fever) 9) Amam 10) Symptoms of Nava or Taruna pratishyaya or Acute Rhini.

tis are present.

11) According to madhavakar- Hoarse or reduced voice, and Nishteevana

Pakwa Peenasa or Pakwa Pratishyaya

## According to Vruddha sushrutha.

- Tastelessness and un pleasent taste, reduces.
- Body pains reduces.
- Lightness in the head.
- Normal tone of the voice.
- Nasal discharge becomes sticky and yellowish.

Note: The knowledge of Ama & Pakwa stages of peenasa is essential for the treatment

# PRATISHYAYA SAMANYA CHIKITSA

(Common treatment principlesof pratishyaya)

(jeerna pratishyaya) whether the disease is in Ama stage (nava Pratishyaya ) or in pakwa stage While giving treatment for pratishyaya it is very important to know

# Nava Pratishyaya or Ama pratishayaya Chikitsa

- 1) Langhana for 3 to 5 days
- 2) Swedana
- 3) Administration of Deepan pachan drugs.
- "Amla ushna teekshna drugs or diet.
- 5) Usage of Hot water for drinking and bathing. 6) Oral usage of milk + Ardraka swarasa
  7) shimt
- shunti + guda or sharkar.
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- 8) Oral usage of Anupamamsa, curd, masha, kulutha, Lavan, katudravya, 9) Dhooma Narya with Ghritha Sakthu Amla, mulaka and medicated alcoholic preparations (madya)
- 10) Ghritha pana and snehan Nasya is contra indicated.

# <sub>Pakwa</sub> Pratishyaya or Jeerna Pratishyaya Chikitsa

- Ghritha pana gives rasayana effect
- Swedana with Amla dravyas.
- $\mathfrak{S}$ + vamaka drugs. Vaman Karma with the yoosha prepared with milk + tila + masha
- Virechana
- Teekshna dhooma Pana
- 4005 Kavalagrah or gandoosha
- Shiro virechan nasya
- Aasthapan vasti
- Resting in a perfect room where there is no pollusion of the air, dust and smoke (nivatha sthana)
- きき Covering the head with hot and thick clothes.
- Oral in take of :-

edy or selected drugs are taken for the treatment. mudga, ushnodaka, Ghritha and ksheera etc are beneficial either single remshrungibhasma, Trijathaka, pancha kola, pancha valkala, vidanga, Abhraka, Dadhi, Dadima, Dasha moola Kashaya, Aardraka, shunti, Yastimadu, tankan and ikshurasa, amla Katu Tikta Kashaya Lavana sneha Hareetaki, Katphala, chitra moola, Vasa, Tulasi, Kantakari, Haridra dwayam Ialisa patra, Triphala, Ajamoda, pudina, Varthaka, Patola, Masha, Tila, kulutha, Jangala mamsa, Guda, Goksheera, chanak, Trikatu, Yava, Godhuma,

- Usage of Hareetaki preparations like chitraka hareetaki or agastya hareetaki etc.
- Usage of guda dadhi and maricha compound (Bhavamishra)
- Drinking of cool water while going to bed at night (chakradatta)
- 15) Usage of Katphaladi churna
- Oral usage of Panchamoola ksheera
- 176) Oral usage of Sarpi guda.(ghee + guda)
- Oral usage of shadanga yoosha
- Oral usage of Vyoshadi churna or vati (Trikatu, Talisa patra, Chavya, Tinthidika, Amla vetas, chitra moola, Jeeraka - each 2 phala; Lavanga,

Ela, Japatri each 1 phala; purana guda 50 phala.

Usage of

guggulu, Nimbadi guggulu, Triphala ghritha, vasaghritha, patoladya ghritha, guggulu, Nimbadi guggulu, Triphala ghritha, vasaghritha, patoladya ghritha, Vasavalehya etc drugs are beneficial, in different types of pratishyaya. vati, Kaipunan Tankan bhasma, Kanchanara guggulu, Triphala pushakara moola chuma, Tankan bhasma, Kanchanara guggulu, Triphala prasha, pandiani vari, Trikatu churna, Khadhiradiyati, Yastimaduchurna, vati, Karpooradi vati, Trikatu churna, Kanchanara gundidi. yunjaya ras, nalikaras, Talisadi churna, sithophaladi churna, Trijatha kadi prasha, panchamrutha ras, Talisadi churna, Khadhiradivati, Yastimadiradi vilas ras, Lagueuma viras, mrut yunjaya ras, Rama bana ras, Godanthi bhasma, Pancha Kola kwatha, chyavan yunjaya ras, Rama bana ras, Talisadi churna, sithophaladi churna. Triiatt vilas ras, Lagusutha sekar ras, Sanjeevani vati, Tribhuvan Keerthi ras, Inrut vilas ras, Lagusutha sekar ras, Godanthi bhasma, Pancha Kola kwatha ot Lakshmi vilas ras, Maha lakshmi vilas ras, Naradeeya L<mark>akshmi</mark>

#### 21) Nasya Yogas :-

- a) Katphala, Apamarga, maricha, piipali, shunthi, vidanga, manashila, vacha, Hingu etc drugs can be used for pradaman Nasya
- b) Tulasi, vasa, Kantakari, Trikatu, choraka, Ardraka, Tarkari, vacha, Jeerak, etc drugs can be used for Avapeedan Nasya.
- c) Katu Teekshna ghritha, Navana Nasya
- d) Bharangyadi taila Nasya
- boil in Gomutra) then add sarshapa taila, vacha, Lamba, vidanga, Kusta, pippali, Karanja, ) cha-chi-26 (Bharangi, Madan Phala, Tarkari, Tulasi, gomutra shodhana (should
- Avimutra and used for Nasya. e) Trikatu, saindhava lavan, kutaja, jeerak, should be grinded in
- Kantakari, Vishnukrantha, mudgaparni, Rasna, punarnava, Tila taila,nasya. f) Medicated oil prepared from Bala, Atibala, Bruhathi, vidanga,
- g) Chorak, Tarkari, Vacha, Jeerak, Krishna Jeerak, Avapeedan Nasya

#### 22) Dhooma Pana :-

- prepared, for dhooma Pana. a) Devadaru, Apamarga, Danthee moola, Ingudee, Varthi should be
- moola, chitra moola, bilwa, Aragwada. b) Shatahwa, Twak, maricha, ela, bala moola, Shyonaka moola, Erenda
- c) Dhooma pana with Ghritha sakthu .

# Contra Indications of pratishyaaya :-

The following things or restricted for the usag

Vruddhi kara Ahara vihara should not take. h) Weeping i) Anger j) Exposure to dust smoke etc k) Fridged items l) Kapha Suppression of natural urges f) Fresh alcoholic Preparations g) Oil less items. a) Cool water in take, or Bathing, b) Coitus c) Sleep d) Worries e)

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# VATAJ PRATISHYAYA VISESHA CHIKITSA

(Special treatment for Vataj Pratishyaya)

- 1) Snehakarma (Shiro Abhyanga and Sneha pana)
- a) If pain present, head massage is advised with Luke warm vata hara oleus medicines.
- kshara + ghritha, mamsa rasa and Luke warm milk etc.,. Vidarigandhadi ghritha, pancha lavan ghritha, pancha moola ghritha, Yava b) Oral administration of Vata hara ghritas like Rasnadi ghritha,

### Sweda Karma:-

- poral frontal and vertex regions of head a) Pani sweda and upanaha sweda when associated with pain at Tem
- and Nasanaha are associated. b) Sneha and Sankara sweda is advised when Nasa Srava Kshavathu
- ယ Niruha vasti with Vatahara dravya.

### 4 Snigda dhuma Pana (dhooma Nasya)

- Erenda, Bilwa, Aaragwada, Madhushchista, Vasa and ghritha) a) Shatahwaadi dhuma pana (Shatahwa, Twak, Bala moola shyonaka,
- b) Dhooma Pana with Ghritha + Sakthu
- d) Inhalation of the powders of Twak, Patra, maricha, Ela and jeerak. c)Inhalation of the powders of Rohisha, jaji, vacha, Tarkari, choraka etc
- 5 a) Sneha Nasya like in Arditha vata:-
- moola Kashaya Oil should be prepared and used for Nasya. yastımadu churna, Tila oil, Rasna, Yastimadu, saindhava lavana kalka; Dasha b) Sneha Nasya with the oil prepared with Tila + Aja ksheera +
- dust and smoke. ing and for bath, Resting in Hot and perfect room without the polusion of Taking of Light, Luke warm, oleus, Vata hara diet, Hot water for drink-
- ing and coitus, etc. Patient should be free from Tensions, worry, exercise, irrelavant Talk-

# PITTAJA PRATISHYAYA VISESHA CHIKITSA

(Special treatment for Pittaja Pratishyaya)

- Treatment of Pittaja and Rakthaja pratishyaya is merely similar,
- 0 Cool applications (Lepa- Seka) with chandana, usheera, Aamalaki etc
- Cool items for eating and for drinking.
- 6 4 Ksheera, ghritha and sheetha veerya Aushadha Oral in take of Tiktha Yoosha, Jangala mamsa, Godhuma, Yava, shall,
- snigda madhura virechana
- 0 5 Gandusha or Kavala with Padmaka, sarja rasa, Chandana, Priyanga Patranga, madhu, sharkara, Draksha, madhulika, Gojee,shreparnee,
- 7 a) Oral intake of Kakolyadi ghritha
- b) Shunthi + milk + ghee.
- c) Madhura and Tiktha ghritha.

#### 8 Nasya Karma :-

- moorva, pippali, Jathi pallava, danthi etc. a) Nasya with the oil prepared with patha, Haridra, Daru haridra
- b) Nasya with the oil prepared from

Tila tail 1 part Milk 10 parts.

Yasti madu, Bilva, Haridra etc. Other Kalka dravyas - Dhava twak, Triphala, Shyama, shree parni

c) Nasya with Brungaraj swarasa.

# 3) KAPHAJ PRATISHYAYA VISESHA CHIKITSA

(Special treatment for Kaphaj pratishyaya )

- A) If heaviness of head and Anorexia are assoicated.
- Chapter ) with Trikatu, Yava Kshara and ghritha 5) Nasya (charaka - chikitsa - 26th 1) Langhana 2) Ghritha Abhyanga to shiras 3) Mrudu sweda 4) Vaman

#### <u>B</u> If doshas are Mild :-

3) Langhana (charaka chikitsa 26th Chapter) 3) Langhana / haraka dravyas for vaman Karma to eliminate the Kapha dosha 1) Ghritha pana 2) Oral intake of Yavagu prepared with milk Tila and

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#### Nasya Yoga :-

- 0 vidanga, Kusta, pippali, Karanja ) (Ch-Chi. 26) tulasi, boiled with Go mutra and add sarshapa taila, vacha, laksha, Lamba, 1) Bharangyadi taila - (Prepared with Bharangi, madan phala, Tarkari
- Trikatu, Vacha, Vidanga, Hingu, Guggulu etc). (Ch. chi-26) 2) Teekshna nasya (Pradamana Nasya with the powders of manashila
- grinded in Avi mutra and used for Nasya (A.H.U. 20 -13) 3) Nasya with Trikatu, Saindhava lavana, Kutaja, jeerak, vidanga,
- Kantakari, vishnu krantha, mudga parni, Rasna, punarnava and Tila Taila. 4) Nasya with the oil prepared from Bala, Atibala, Bruhati, Vidanga
- <u>D</u> Dhooma Pana:- With the varthi prepared from Nishotha, Apamarga Danthi, Devadaru, ingudee.
- T I Swetha Sarshapa Shiro Lepa
- Hot water usage for drinking and for Bathing etc

# 4) SANNI PATHAJ PRATISHYAYA VISESHA CHIKITSA

(Special treatment for Sannipathaja Pratishyaya

- Tridosha hara chikitsa.
- 2) Katu Tiktha ghritha for oral administration.3) Teekshna dhooma pana.
- Teekshna Kavala grah.
- Katu rasa medicines and diet

#### 6) Nasya :-

and Taila) a) Rasanjanadi taila nasya (rasanjana, ativasa, musta, Bhadradaru

### b) Shiro Virechan Taila :-

Pippali moola, Katuki, sarshapa, vacha, Tuttha, Karanja, saindhava lavana, Bhadradaru, Taila). (Medicated oil prepared from Musta, chavya, patha, Katphala, pippali,

- types of Pratishyaya be prepared from the above medicated milk, it can be used for Nasya in all Prakshepa dravya, Boiled according to ksheera paka vidhi, Ghree should c) Jangala mamsa, ksheera, uthphalaadi pushpha, Vata hara Aushada
- d) Tiktha taila or ghritha can be used for Nasya.

- -Kavala graha :-With the Tiktha Kashaya
- 2) With the there.

  Pippali moola, katuki, sarshapa, vacha, tuttha, Karanja, saindhava Lavan, Pippali moola, katuki, sarshapa, vacha, tuttha, Karanja, saindhava Lavan, 1) With the line of musta, chavya, patha, Katphala,Pippal, 2) With the decoction of musta, chavya, patha, Katphala,Pippal,

#### Dusta Pratishyaya:-

- 1) All the above treatments
- Krimi hara treatment
- Kshaya hara treatment
- Rasayana therapy
- It is Yapaya Vyadhi

### 6) Dhooma Nasya With

Dhooma Nasya. mutra . dip the kshouma Vastra varthi in above compound and is used for shigru beeja, these should be grinded in Ashwa vit rasa, Ashwa and gaja Kantakari, Nishotha, swetha sarshapa, puthi matsya, Agni mantha, peelu, Trikatu, Erenda beeja, vidanga, Devadaru, Ativ vasa, Kusta, Ingudee,

- vidangadi Nasya
- 8) Gomutra + go Pitta Nasya
- Surasadi Krimi hara drugs
- 10) Luke warm water for Nasa and pana in the early morning.

### APEENASA CHIKITSA

(Treatment of Apeenasa)

- ahara 5) Hot water in take 6) Dhooma Pana 7) Avapeedan Nasya. 1) sneha 2) Sweda 3) Vaman 4) Virechan 4) Laghu Teekshna ushna
- 1) Avapeedan Nasya

sarshapa, vidanga, Karanja, shigru. Hingu, Trikatu, Kutaja, shivati, Laksha, tulasi, Katphala, Vacha, Kusta

3) Medicated oil prepared from Pathadi taila used as Nasya (patha 2) The Medicated oil prepared from Above drugs + sarshapa taila + Go mutra, Tila taila, used as nasya.

4) Shigru taila Nasya. haridra dwayam, pippali, moorva, Jaji patra, taila)

- 5) Vyaghree taila Nasya.
- 6) Shatbindu ghritha Nasya.
- 8) Shatahwadi dhooma Nas<u>ya</u> 7) Dhooma Nasya with Madhuschita + guggulu

a) Guda + dadhi + maricha Internal administration of

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- b) Chitraka ksheera
- d) Vidanga Kwatha + Guda + Ghritha. c) Pancha mooli Ksheera
- e) Vidanga shaskuli or Godhuma Shaskuli,
- f) Katphaladi churna or Kashaya
- g) Vyoshadivati
- h) Pratishyaya chikitsa, especially Kaphaja Pratishyaya Chikitsa

### **EXTERNAL NOSE**

### Congenital deformities:

- 1) Choanal atresia closure of the anterior nasal apertures and posterior nasal apertures
- 2) Congenital deformitiy in size shape of nose as Flattening, Bifid nose
- on the bridge of the nose. 3) Dermoid cyst :- Occurs in the midline between the alar cartilages
- the nose and is connected to meninges by a stalk but the swelling 4) Nasal glioma :- A solid tumour produce swelling on the bridge of doesnot increase by straining coughing
- and coughing. 5) Encephalocele :- Herniation of meninges and brain tissue through a dehiscence in frontal bone and the swelling increases by straining
- 6) Cleft lip :- Failure of fusion of maxillary process and median nasal process.
- 7) Cleft palate Failure of palatine process to fuse with each other and with nasal septum.

## Diseases of External Nose:-

# 1) Furunculosis of the nose (Nasa Paka)

pre-disposing factors are nose picking or pulling of hair . sebaceous gland in the nasal vestibule, caused by staphylococcus aureus, This is an acute infective condition of the root of the hair follicle or

Clinical Features :- Localised redness, swelling, pain, tenderness, crust formation and nasal obstruction

Complications:- cellutitis of face and upper lip, and cavernous sinus throm-

reatment ;- 1) Local and systemic antibiotics.

- 2) Analgesics and antiinflammatory drugs.
- 3) Anti histamine drugs to relieve nasal irritation.
- 4) Local hot-fomentation. 169

of the nasal vestibule 1) Trauma as III 1100 PT 2 | Persistent nasal discharge leads to excoriation and infection of the skin continue tibule

2) Persistent nasal discharge leads to excoriation and infection of the skin continue tibule. 1) Trauma as in nose picking, this produces ulceration and crust formation 1) Trauma as in nose picking, this produces ulceration and infection of the company of the compa Vestibulitis:

Diffuse infection of the skin of the anterior nares may result from Vestibulitis :-

Clinical Features: Ulceration, crust formation, pain and discomfort in the

Treatment:- 1) Local application of antibiotic or Hydrocortisone ointment

2) Treating the pre-disposing factors

3) Systemic antibiotics and Anti inflammatory drugs

#### ಅ Erysipelas :-

ous tissue of the nose. Iti is an acute strepto coccal inflammation of the skin and subcutane.

headache, fever and malaise (no intra nasal signs and symptoms) Treatment :- 1) Pencillin is drug of treatment Clinical Features :- Redness, vesicles formation on the nose and face,

Symptomatic treatment.

### Acne Rosacea :-

ause women ) giving the skin a dusky red and shining appearance (commonly seen in meno Enlarged superficial blood vessels in the skin of nose and cheeks,

## Lupus erythematosus :-

erythema patches with scaling followed by atrophic scars. The skin of the nose and cheeks are affected with the butterfly shaped

#### Herpes Simplex :-

pes simplex virus Vesicular eruption around the nasal vestibule and lips caused by Her-

Treatment :- 1) Local antibiotics or Hydro cortisone

Symptomatic treatment.

<u></u> Herpes Zoster :-

ing and causes severe pain Vesicular eruptions along the cutaneous nerves of face heals by scal-

Rhino Phyma :-

bulbous projection called potato nose or Rhino phyma . Hypertrophy of the sebaceous glands of the tip of the nose, produces

Treatment :- Surgical excision of the hypertrophy.

## Deformities of External Nose:

1) Congenital flat or Bifid nose

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- with face. 2) Developmental improper development of nose and septum along
- Traumatic lesions.
- 4) Infections septal abscess syphilis and Leprosy
- 5) Tumours may cause deformity and destruction.

Treatment :- Rhino Plasty.

6) Atresia of Anterior nares occurs congenitally and due to small pox Rhinoscleroma and Young's operation for atrophic Rhinitis

ing, Epistaxis and Nasal obstruction. Treatment depends upon the Fracture of Nasal Bones :- Symptoms are deformity, pain, swell

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plasty under general anesthesia. Treatment: Anti inflammatory; correction of deformity or Rhinosepto

# Haematoma and abscess of Septum :-

to abscess after infection. smooth round swelling on both sides of the septum it may be transformed in The trauma may be followed by extravasation of blood and it causes a

Tumours of the external nose:- It may be benign or Malignant

and require surgical excision Benign tumours :- 1) Papilloma frequently occur in nasal vestibule

coagulation or excision. 2) Haemangiomas occurs in the skin of the nose and require diathermy

### Malignant Tumours :-

- the nasal cartilages and adjacent facial tissue as a raised pigmented nodule which ulcerates, doesn't heal and destructs 1) Basal cell carcinoma or rodent ulcer occurs in the skin of the nose
- 2) Squamous Cell Carcinoma:-

ternal nose with progressive bleeding ulcer along with raised margins. This lesion may occur in the nasal vestibule or on the skin of the ex-

Treatment :- Radiotherapy and surgery.

# RHINITIS (PEENASA OR PRATISHYAYA )

intection, Allergy and trauma. It may be classified as follows, palings is the inflammation of the nasal mucous membrans oring to

- Infective Rhinitis :-
- Acute Rhinitis :-
- b) specific acute Rhinitis Diphtheria. a) Non specific acute Rhinitis - common cold

### B) Chronic Rhinitis :-

- a) Non specific chronic Rhinitis
- Simple Chronic Phinitis.
- Atrophic Rhinitis, Hyper trophic Rhinitis.
- 4) Phinitis Sicca
- Bhinitis Cassosa,
- Malignant granuloma,

## b) Specific Chronic Rhinitis ;-

- Rhino sporidiosis.
- Rhino scleroma,
- 4) Leprosy, 3) Syphills.
- Tuberculosis, Lupus Vulgaris,
- Fungus infections like

Aspergillosis, actinomycosis, moniliasis,

#### = Non Infective Rhinitis :-

- a) Allergic Phinitis (Seasonal Perennial)
- b) Vasomotor Rhinitis,

# Infective Acute Non Specific Rhinitis :-

I/A/a) Common Cold (coryza)

mary infection is by virus and secondary infection is by bacteria Acute inflammation of nasal mucosa is called Acute Rhinitis, Pri

## The Causative Organisms :-

Virus: Rhino Virus, influenza virus, adeno virus,

catarrhalis, pneumo coccus, staph<u>ylo co</u>ccus, Haemophilus influenzae etc. Bacterla :- Strepto coccus haemolyticus, micoro coccus.

Clinical Features :-These are in 4 Stages >

orthess in the nose, sneeding paratismally, shiveting and malaise may de-16/01/ Ischaemic stage: Burning sensation in the reso phenyou, intration,

- ing of nose, anosmia, fever and head ache. Hyperaemic Stage: Profuse thinorhoea (Watery discharge), block-
- ens with yellow or greenish colour due to secondary intection. State of Secondary Infection :- The watery nesal discharge thick-
- media, Laryngilis, Bronchilis, Pneumonia etc., Stage of Resolution :- It occurs commonly in 5 to 10 days. Complications :- Naso pharyngitts, pharyngitts, sinusitts, Acute critis

principles prevent the secondary infection, complications and give relief symptomatically. Treatment :- There is no specific treatment but following treatment

- B General Treatment :- (Systemic treatment)
- 1) Analgesics and Anti pyretics reduce pain and fever.
- Antibiotics controls secondary infection.
- decongestants reduce nasal congestion.
- Anti histamines reduce nasal irritation.
- 5) Vitamines, B, complex, C, etc protects mucosal hygiene.
- 6) Warmth and rest restores the health
- B) Local Treatment :-
- 1) Menthol steam inhalation.
- Decongestant Nasal drops.
- c) Surgical correection of septum, hypertrophic turbinates tonsils and adenoids etc, and contact should be avoided

## I/A/o) Nasal Diphtheria :-

ease or secondary to faucial diphtheria. causative organism is corynebacterium diptheriae. It may be the primary dis-It is an infective specific acute Rhinitis usually occurs in children, the

### Clinical Features :-

1) Blood stained nasal discharge on one or both sides.

Excoriation of the skin around the nose .

30 Excoriation of the common septum or in ferior turbine septum or in ferior turbine septum or in ferior turbiness.

Diagnosis:- By clinical features, and by Bacteriological examination.

#### Treatment :-

1) Anti toxin - 10000 units of the serum

2) Antibiotics like erythromycin and pencillin.

Symptomatic treatment.

#### 1/B/a) Non Specific chronic Rhinitis. Infective Chronic Rhinitis

Simple chronic Rhinitis.

a) Recurrent attacks of acute Rhinitis may lead to chronic Rhinitis.

sal obstructions, Atmospheric pollution, over usage of nasal drops. smoking, alco holism, general debility and hypothyroidism. b) Pre-disposing factors are sinusitis, tonsilitis vasomotor rhinitis, Na-

#### Clinical Features :-

1) Ischaemic stage and Hyperaemic stage of Acute Rhinitis present

3) The Nasal secretions are thick and viscid. post Nasal drip and Nasal blockage is more marked.

Treatment :- 1) Elimination of predisposing factors

2) Alkaline Nasal douchings

Symptomatic treatment like in acute Rhinitis.

# CHRONIC HYPERTROPHIC RHINITIS

medicamentosa (over usage of Nasal decongestants ) is the often responsible factor for this constitution. The aetiological factors, are like chronic simple Rhinitis, Rhinitis It is due to chronic nasal, paranasal infection and due to nasal allergy.

### Clinical Features :-

the main finding . Hypertrophied, Congested nasal mucosa with enlarged turbinates is

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Nasal obstruction

Rhinorrhoea - thick visicid nasal discharge.

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Development of Polyps in the further aggravation of the symptoms.

#### piagnosis -

1)Hyper trophied turbinates, congested mucosa

inferior turbinates. 2) Posterior Rhino scopy reveal the mulberrry like posterior ends of

#### Treatment :-

1) Topical nasal decongestants gives relief temproarily

2) a) Electro cautery b) Submucous diathermy

are benefical in hypertrophied turbinates c) Cryo surgery d) Partial tubinectomy etc.

# ATROPHIC RHINITIS (OZAENA)

atrophic changes of the nasal mucosa and burbinates, expell foul smell from the nose and causes anosmia. It may be primary or secondary to some other This is a chronic inflammatory condition of the nose characterised by

## a) Primary atrophic Rhinitis:-

Causative factors :-

roid organsisms etc. 1) Cocco bacillus of perez, Klebsiella foctidis ozaenae and diphthe-

(A & D), Infection, Broad nasal cavities and due to other factors 2) Heriditory, Hormonal, Nutritional deficiencies vitamin deficiencies

# b) Secondary Atrophic Rhinitis:-

syphilis, leprosy, lupus vulgaris, tuberculosis and Rhino scleroma; extensive Nasal surgery and chronic sinusitis etc. Atrophic changes are produced due to chronic specific infections like

placia, blood circulation reduced, secretions stagnated and result in secondepithelium of nasal cavity and turbinates atrophies and shows squamous meta ary infection and crust formation, due to loss of sensation and foetor attracts the flies (maggots) and patient looses the sense of smell and touch of air. As a result of chronic inflammatory changes the ciliated columnar

Clinical Features :-

also. b) near surrection 9) Depressed bridge of the nose (due to atrofeel his foul strict which the price to the mucosa and also. 5) Head ache 6) Epistaxis 7) Atrophic changes in the mucosa and a harmonic to the nose (direct and the nose (direct The nose emils iver coming out and he doesnt smell the other things feel his foul smell which is coming out and he doesnt smell the other things 1) Dryness III which is coming out and he doesnt smell the other doesnt al Features:1) Dryness in the nose 2) wide nasal cavities with crust formation, 3)
1) Dryness in the nose 2) wide nasal cavities with crust formation, 3)

#### Complications :-

- 1) sinusitis 2) Middle ear infections.
- 3) Atrophic pharyngitis 4) Psychological

Complications like depression and may become an introvert.

#### Investigations :-

- 1) Xray for the detection of sinusitis and tuberculosis etc.
- VDRL for detecting syphilis.
- 3) Haemogram for detecting anaemia.
- 4) Dermotological examination for detecting Leprosy.
- Nasal smear for detecting leprosy and tuberculosis.
- Clinical findings.

- The cause should be treated.
- in glucerine, and by local infiltration of placental extract (Placentrex) antibiotic nasal drops. alkaline douche, ex: nasal drops 25% glucose 2) Improving the nasal hygiene by preventing the crusting by putting
- 3) Systemic antibiotics, nutrients, vitamines, vasodilators Surgical treatment.

It is a mild form of atrophic Rhinitis occurs usually in dry hot dusty

The main feature is drying and crusting in the anterior one third of the

### Clinical Features :-

- Nasal irritation. 1) Drying and crusting of anterior 1/3 of nasal caivty.

 Septal performation in deep ulcerations. 3) Ulceration in the Nasal mucosa. and leads to epistaxis.

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Treatment :-

- 1) Lubrication of Nose with vaseline ghee or oil etc.
- 2) Alkaline nasal douching.
- 3) Care from dry hot dusty environment.

# Rhinitis Caseosa (Nasal Cholesteatoma)

eign body or due to dis integration of nasal polyp with formation of granulation tissue and a cheesy epithelial debris (caseous material) in the nose, this may result from chronic sinusitis, presence of for-This is a rare chronic inflammatory condition of the nose associated

3) Should treat the underlying cause Treatment :- 1) Removal of caseous material 2) Improving of Nasal hygiene

# Malignant granuloma:-

This is of two types.

the bones, cartilages and soft tissues. tissues of the nose sinuses and pharynx, produces destructive lesions in 1) Stewarts granuloma: - is a localised progressive ulceration of the

Treatment :- Radio therapy

## 2) Wegener's granulomatosis :-

It is a necrotizing granuloma affecting the nose lungs and kidney.

#### Treatment: -

- 1) Cytotoxic drugs.
- 2) Steroids.
- Antimetabolites

# I/B/b) SPECIFIC CHRONIC RHINITIS

### 1) Rhino Sproidiosis :-

Like Kerala, Andrapradesh, madras, Karnataka, Maharashtra . or "R. Kinealyi" (Spore-bearing fungus). It is usally limited to coastal states The diseases is caused by the fungus "Rhino sporidium seeberi"

polypoidal lesions which have a strawbery appearance. and skin, clinically characterised by formation of bleeding papillomatous and nasal mucosa affects, but lesions are seen in Naso pharynx, pharnx bronchi of infection is thought to be the dust from the dung of infected cattle, the It occurs mostly to farmers and is predisposed by trauma. The mode

eyes and genitalia. The clincial reduces. The disease. spreads to lungs, liver, spleen, protrusion of extra growths. The disease. spreads to lungs, liver, spleen, The clincial features are Rhinorrhoea, Nasal blockage epistaxis and,

or laser surgery may be beneficial. Treatment :nent :
1) Excision of the growth and cauterisation of the base or cryosurgery

1) Excision of the growth and cauterisation of the base or cryosurgery

#### 72 Rhino Scleroma:-

by Klebsiella Rhinoscleromatis (Frisch bacillus) . It is a progressive granulomatous disease of respiratory tract caused

stenosis of the nasal passage. It is a chronic infection of the nose characterised by sclerosis and

Clinical features canbe explained. in four stages

2) Atrophic stage :- Atrophic changes in the nasal mucosa. 1) Prodromal stage Or catarrhal stage: - Rhinorrhoea present

cutaneous junction of septum. 3) Nodular Stage :- Bluishred nodules appears at the muco

sopharynx develops. 4) Stenotic or fibrotic or cicatrising stage - stenosis of nose and na

Diagnosis - History, - Clinical examination and biopsy confirm the disease

steroids, tetracyclines may prove helpful 1) Antibiotics like streptomycin, chloramphenical, rifampcine

2) Surgery to re-establish the air way.

#### w Syphilis:-

night, marked tenderness and offensive nasal discharge. pony part of the septum. The associated symptoms are bony septal perioranon. depression of the nasal bridge, pain and head ache particulary during in the tertiary stage Gummatous ulcer (ulcerative nodule) develops in the Primary and secondary stages of syphilis are rarely seen in the nose

atrophic rhinitis etc atrophic rhinitis etc. If the disease aggravates causes complications like stenosis of the

Treatment :- 1) Anti Syphilitic treatment Symptomatic treatment.

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4 Leprosy :-

larynx may be involved. The patient complaints of nasal obstruction, crust of nasal septum. initially a nodule forms which leads to ulceration and perfocommonly seen in lepromatous leprosy, affected part is Antero inferior part inferior turbinate, atrophic rhinitic changes and stenosis of anterior nares. formation, blood stained nasal discharge, nodular thickening of mucosa of ration of the nasal septum with deformity of nose., Later the palate and the The causative organism is mycobacterium leprae. Nasal lesions are

piagnosis :- 1) Clinical Picture

2) Nasal smear test for A.F. Bacilli

Biopsy of granuloma

#### 5 Tuberculosis:-

and perforation. may form a granuloma at the cartilaginous septum resulting in destruction It is secondary to pulmonary tuberculosis, it rarely affects the nose, it

and On examination ulcerative nodular granulomatous lesion with septal per-The clinical features are nasal obstruction, discharge, crusting, pain

Treatment :- Anti tuberculous treatment

#### <u></u> **Lupus Vulgaris:-**

pharynx larynx and Lungs. be deformed . Symptoms of atrophic rhinitis follows, the disease spreads to cocutaneous junction at the vestibule of the nose, with ulceration and apple jelly nodules formation. The nasal septum may perforate and the nose may It is a tuberculous infection of low virulence, usually involves the mu-

Treatment :- Anti tuberculous treatment

Note: Other chronic specific rhinitis are uncommon

## II ) NON INFECTIVE RHINITIS

### 1) Allergic Rhinitis :-

modic attacks of severe sneezing and rhinorrhoea, occurs due to altered reactivity, of the nasal mucosa to certain allergens like. It is a common disorder which is usually characterised by spas-

teathers, moulds, house dust and mites), ingestants (food like eggs, fish milk size a) Exogenous allergens :- Inhalants (dust pollens, animal odour,

milk citrus fruits etc),

(aspirin, hypotensive drugs, iodides, and nasal drops). infections etc., Contactants (cosmetics and powders), irritants (fumes and smoke), drugs

### b) Endogenous allergens :-

Intestinal helminths, tissue proteins, etc.

tion d) Emotional factors etc. puberty or pregnancy, c) climate - change in Humidity and atmospheric pollupredisposing factors: - a) Hereditory factors, b) Hormonal effects during

#### Pathology :-

chial asthma etc. other complications are serous otitis media, suppurative otitis media, Bronprogresses there are chances for polyp formation in the nose and sinuses. of oedema and swelling secondary bacterial infection occur, as the disease trations of mucosa by Eosinophils, plasma cells. and lymphocystes, Because leads to congestion oedema and swelling of mucosa, there is cellular infiltion, increased capillary permiability, copious secretions from mucosal glands, Antigen (allergen) + mucosa --- Histamines released, causes vaso dilata

### Clinical Types ;- 2 types are

1) Seasonal - Due to inhalant allergens, climate environmental changes

2) Perennial - affects through out the year.

### Signs & Symptoms :-

### Symptoms :-

nasal obstruction and anosmia. Nasal irritation, paraxysmal sneezing, watery copious rhinorrhoea,

#### 2

- a) Acute stage -:- Pale nasal mucosa with excessive secretions
- b) Chronic stage :- Blusih or purplish mucosa due to venous stasis
- c) Infection: Secondary bacterial infection is added
- d) Polyps:- may be present.

### Concomitant Allergy:-

- a) Eyes :- Itching and watering of eyes is often present.b) Ears :- Eustachian tube blockage may leads to middle ear problems.
- c) Allergic Pharyngitis.
- d) Allergic bronchial asthma.

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#### piagnosis:-

- 1) Clinical features & History
- 2) Nasal secretion may contain Eosinophils.
- 3) Haemogram shows Eosino philia
- 4) Stools for helminths.
- 5 Intra dermal skin test,
- 6) Nasal provacation test. 7) Elimination test for food.
- 8) RAST (Radio allergo sorbent test)

pertrophied turbinates etc. gical correction of the predisposing diseases like deviated nasal septum, hymines 4) Steroids 5) Nasal decogestants. 6) Symptomatic treatment 7) Sur-Treatment: 1) Avoidance of the allergen 2) Desensitization 3) Anti hista-

#### 2 Vasmotor Rhinitis :-

mate varations antihypertensive drugs Anti depressants and decongestants consequent to autonomic disfunction. various factors play a part in its causation like psychogenic instability. emotional conditions, hormonal changes. cli-It is a non infective condition occurs due to vaso motor disturbances

allergens The Aetiological factors are merely similar to allergic Rhinitis. except

### Clinical Features :-

- 1) Sneezing is less than Allergic Rhinitis
- 2) Symptoms appear more frequent than Allergic rhinitis.
- 3) Lacrimation is occasional
- 4) Nasal obstruction and Rhinorrhoea are more marked.
- 5) Eosinophilia is less marked.
- 6) Nasal mucosa is markedly swollen
- 7) Skin tests for Allergy are negative.
- 8) Anti histamine response is variably

9) Vidian neurectomy is helpful.

Treatment :- Except desensitization, rest of the treatment is similar

to Allergic rhinitis.

# SINUSITIS (Dusta Pratishyaya)

(Shirashoola can be co-related to sinusitis)

The mucosal inflammation of the paranasal sinuses, may be acute or chronic, commonly associate with rhinitis, is known as sinusitis. Commonly associate with rhinitis, is known as sinusitis. one or two sinues affect, if all sinuses are involved resulting in pansinusitis,

very less frequency 3) Ethmoidal sinusitis and 4) Sphenoidal sinusitis are and molar teeth which present at the floor of the sinus 2) Frontal sinusitis is near the roof of its medial wall and due to its relation to the upper premolar drainage of this sinus owing to the position of the ostium which is situated 1) Maxillary sinus :- is most commonly involved due to inadequate

## **ACUTE SINUSITIS (MAXILLARY)**

### **Predisposing Factors:-**

- secretions and infection follows. tum, hypertrophic turbinates, polyps, tumours etc causes stagnation of sinus 1) Nasal infections :- common cold, influenja, deviated nasal sep-
- age of sinus secretions. 2) Nasal Allergy: Leads to nasal obstruction and inadeqate drain
- 3) Forcible blowing of nose.
- 4) Swimming and diving, cold exposure
- Barotrauma.
- 6) Dental infection especially upper premolar and molar teeth
- Trauma to the sinus.
- 8) Blood borne infection
- 9) Peripheral infections like Tonsilitis adenoids etc
- 10) Lowered resistence
- 11) Atmospheric Pollution
- other specific diseases like tuberculosis, leprosy etc. 12) General diseases like influenza Measles, whooping cough and
- 13) Chronic suppurative lung diseases,
- 14) Virul infections.
- Bacillus friedlanders. catarrhalis, staphylo cocci, Haemophilus- influenzae , Bacillus pyocyaneus, Bacillus coli, Bacillus necrodentalis, Bacillus Pfeiffer, 15) Bacterial infection by strepto cocci, pneumo cocci, micro coccus

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#### <sub>Pathology</sub> :-

trophy of mucous glands. a) Catarrhal stage - Congestion and oedema of mucosa and hyper-

in the sinus which are mucoid initially. b Exudation: - Due to increased glandular activity, secretions collect

empyema of the sinus. rulent discharge - some times comes out through the ostium or produce c) Purulent Stage: Infection Progresses and there is thick mucopu-

## Stage of Complication :-

bronchitis, ophthalmic problems, osteo myelitis of maxilla, Asthma, mucocele, pyocele and oro antral fistuala. Pan-sinusitis, middle ear infections, pharyngitis, laryngitis, tracheo-

### Stage of Resolution :-

antibiotics administered It depends upon the virulence of virus, resistence of the body and

symptoms:- 1) Discomfort at naso pharyngeal region

- 2) Pain at maxillary region, may radiate to eyes teeth ear and 3) Nasal discharge mucoid or purulent or blood stained (foul smelling frontal sinus - aggravate on bending down, coughing and sneezing .
- 4) Blocking of Nose due to oedema of mucosa. discharge suggestive of dental origin.
- 5) Nasal resonance due to blocking of nose
- 6) Dry cough due to post nasal drip.
- 7) Epistaxis is due to congestion of mucosa.
- 8) Fever headache, malaise etc.

#### Signs :-

- 1) Slight oedema at the affected area
- 2) Tenderness over the cheek and Floor of the sinus.
- 3) Anterior rhinoscopy reveals the congestion of Nasal mucosa and
- turbinates especially at middle turbinate.
- 4) Posterior Rhinoscopy may reveal purulent discharge trickling down through the choana

Imrestigations : 1) Posture test

 Patient is asked to be in sitting position then discharge in the nose is wiped out if discharge reappears in middle meatus that is from forntal strus.

Patient is asked to fie down on un effected side if discharge reappears that is from maxillary sinus.

## 2) Transillumination test:-

In dark room a lighted bulb is placed in the oral caivty, if the sinus is translucent infra orbital crescent appears if not absent.

- Radiography of paranasal sinuses.
- 4) Bacteriological examination of Nasal smear for culture and sensitivity
- 5) Endoscopy of nose and para nasal sinuses.

#### Treatment:

1) Antibiotics 2) Decongestants 3) Analgesics 4) Antihistamines. 5) Rest 6) Local decongestant drops 7) Steam inhalation. 8) Antral puncture is advised if medical treatment falls (it is conducted either in Local or general anaesthesia, the Procedure consist of inserting of trocar with canula in to the maxillary sinus through inferior meatus to wash the sinus with lukewarm water to irrigate the exudates out.

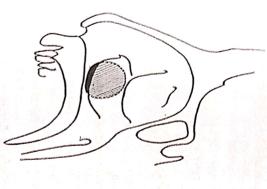
# Acute Frontal Sinusitis :-

It is less common than maxillary sinusitis, aetio-pathology is similar to maxillary sinusitis except the following .

- 1) Dental infection cannot cause frontal sinusitis
- 2) Maxillary sinusitis may cause secondary frontal sinusitis via fronto lasal dust
- 3) Pain in the frontal region and may radiate to the temporal and pairetal regions, it is maximum in the morning and gradually subsides during the course of the day.
- 4) Tender ness present at the medial part of the floor of sinus above the inner canthus.

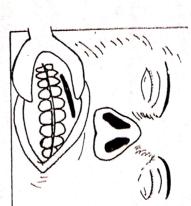


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Intranasal Antrostomy (right)

Site of intranasal antrostomy

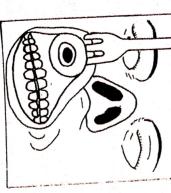


Subjected incision for Caldwell-Luc operation



Antral puncture cannula in the maxillary antrum inserted through the inferior meatus.

Lateral wall of the nose with the inferior turbinate removed to show the site for antral puncture



Opening in anterdateral wall of maxillary sit

- upright position of the patient. The discharge from the frontal sinus appears in the middle meatus in
- nus thrombosis and intra cranial complications. Complications are ostemyelitis, orbital complications, cavernous si-
- of frontal sinus done for washing the sinus with antibiotic solution. Treatment is similar, in addition trephening the floor at the medial end
- pain in the eyes or behind the eyes, sphenoidal sinusitis may produce occipital or central headache. Ethmoidal and sphenoidal sinusits are rare, ethmoidal sinusitis causes

# **Chronic Frontal Sinusitis:**

Similar to acute infection but pain and tenderness is less severe.

Treatment :- 1) Elimination of pre-disposing factors

- Surgical drainage of frontal sinus.
- operation should be performed occasionally. 3) An operation of frontal sinus similar to caldwell - luk

# **Chronic Maxillary Sinusitis**

or cacosmia may occur occasionally. absent, Hawking and dry Cough present due to post nasal discharge, Hyposmia It is similar to acute infection but pain and tenderness are mild or

- 1) Conservatory treatment is like Acute maxillary sinusitis.
- turbinate to irigate the maxillary sinus. 2) Antral Puncture with trochor and canula. at anterior end of inferior
- Dental infection should be treated. 3) Nasal obstructing lesions should be treated
- Intranasal antrostomy.
- given through canine fossa. secretion is found during antral wash - in this a sub-labial incision is 6) Cald well - Luk, operation is advisable, if repeated purulent

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### NASAL FOREIGN BODIES

and Paransal sinuses) materials and maggots (in poor hygienic and suppurative diseases of Nose mon foreign bodies are buttons, seeds, beads, peas, papers, rubber, plastic Nasal foreign bodies are common in children and infants. The com-

Parents brings the child to the hospital for the following reasons .

- 1) With the history of insertion of foreign bodies.
- 2) Foul smell (unilateral) with nasal discharge.
- 3) Pain, headache, crawling sensation and worms coming out of the nose in the case of Maggots.

## Removal of foreign bodies :-

forceps. round objects such as peas, beans etc should be removed with hook. Foreign bodies like buttons, sponges, papers etc should remove with

hook is introduced along the roof of the nose and placed behind the foreign In a non co -operative child General anaesthesia will be necessary. body, the foreign body is lodged in the angle of the hook and brought out The child should be holded properly by an assistant, the tip of the

douching is repeated with antibiotics. gauze soaked in ether, this stupities the maggots which are washed out in large numbers. Then Nose is packed with turpentine for 24 hours, and Nasal For Maggots, Nose is irrigated with chloroform water or Packed with

corbonates and phosphates of calcium and magnesium formed around a toreign body, blood clot or mucous and leads to blackish or Brownish calcar-Rhinolith :- Calcareous mass often found in the nose The deposits of eous mass formation.

Cinical features :- Pain, Nasal obstruction, Nasal discharge and epistaxis. Treatment:- Removal of mass and anti-inflammatory therapy should be given

### Atrophic Rhinitis Or Ozaena or Frontal sinusitis 7) POOTHI NAASA OR POOTHI NASYA

known as poothi Nasa (Sushrutha. U. 22). moola and expel foul smell (Vitiationof Vata) Through nose and mouth is Vitiated pitta Raktha and Kapha Produces vitiation at Gala and Talu

through Nose and mouth Vitatied doshas by deranging the talu moola expel foul smell with Kapha

It can be corelated to atrophic rhinitis.

is known as poothi nasyam, it can be co-related to frontal sinusitis. by Priosimia, occupant to blood stained Yellowish nasal discharge with itching sensation and fever, it blood stained Yellowish nasal discharge with itching sensation and fever, it by Philoshma, causes pain in the eyes and temporal region, expel foul smell, Videha: Vitiated pitta Raktha and Kapha accumulates in shiras, get burnt

1) Like Apeenasa (Su) and Kaphaja peenasa (Vag)

2) Sneha, sweda, vaman, mrudu virechan, ,

ahara and hot water utility for daily needs dhooma pana. Avapeedan Nasya-sneha nasaya, Langan, teekshna

#### w Avapeedan Nasya:-

Katphala, Vacha, Kusta, shigru, vidanga, Karanja - Swarasa Nasya, Hingu, Trikatu, swetha purarnava, Vatsak, Laksha, shireesha beeja,

#### 4 Snehan Nasya :-

gomatra is used for Nasya. Medicated oil prepared with the Above drugs, sarshapa taila and

- 5 pared from Vyaghree, danthi beeja, vacha, shigru, trikatu, saindhava lavan and Taila). Vyaghree taila Nasya or vyaghree swarasa (The medicated oil pre
- Bringaraj, Lavanga, yastimadu, Kusta, shunthi Ghritha) Shatbindu ghritha Nasya. (The medicated ghee prepared from

Oral in take of guda + Maricha + dadhi.

987 Vidanga cnurna + godhuma pista, Shaskuli should be prepared

godhuma pista + guda + ghritha.

# 8) NASA PAKA OR NASIKA PAKA

(Nasal furunculosis or Herpes or Dermatitis of the Nasal vestibule.)

- discharges sticky secretion with atrophic changes (Su. u. 22). tion of small piticas (Vesicles) in the nasal cavity, the piticas suppurates and a) vitiated Pitta dosha causes acute inflammatory changes by the erup-
- paka (cha- chi 26 ). ated with pain, burning sensation, redness and oedema, is known as Nasa b) Vitiated Raktha and pitta produces furuncles in the nose, associ-

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and oedema, is Known as ghrana paka and leads to eruption of furuncles associated with pain, burning sensation c) Vitiated Pitta dosha causes vitiation in twak and mamsa of nose

#### Treatment :-

1) Pitta hara Chikitsa

#### 2) External :-

- a) Application of ghritha or shathadhoutha ghrithab) Seka with the decoction of ksheeri vruksha (Pancha valkala

c) jalouka Mokshana.

#### 3) Internal :-

- a) Pitta hara Ahara Vihar
- b) Oral intake of ghritha + ksheera
- Jangala Mamsa rasa

C

e 0

- Kiishora guggulu
- Shadanga paneeya, usheerasav, Tandulodak etc Manjistadi quath, chandanasav
- f) "Praval, Muktha, shuktı, gyrıka etc.,
  g) Sneha, mrudu sweda, Lepa, seka, sneha dhooma, mrudu Praval, Muktha, shukti, gyrika etc.,
- virechan and nasya (Anutaila nasya)

# 9) POOYA SHONITHA OR POOYA RAKTHA

(Frontal sinusitis, Hypertrophic or chronic Rhinitis)

It is of 2 types 1) Doshaj or Nija 2) Aaganthaja or Abhighataja.

- 1) Nija or doshaj :- due to pitta and Rakta vitation
- 2) Aaganthuja or abhighataja :- Due to injury to frontal region.

region of head, blood stained pus discharge comes through Nasal cavity is Either due to pitta Rakta doshas vitation or due to injury to frontal

known as pooya Raktha. Vagbhata Added the symptoms like pain and burning sensation in the

1) Vaman 2) Avapeedan nasya (Rechan nasyam ) 3) Teekshna dhooma pana 4) In mild case Raktha peenasa chikitsa should be done 5) In

severe case Nadi vrana chikitsa should be done.

chronic diseases, Nasa arsha etc may lead to pooya Rakta. Note:- Nasa arbuda, Kshayarbuda, Abhighata, Phiranga, nasal Paranasal

#### 10) KSHAVATHU

( Allergic rhinitis or Vaso motor Rhinitis )

It is of 2 types - 1) Doshaja 2) Aaganthuja

### 1) Doshaja Kshavathu :-

sal caivty, and so the vitiated vata and kapha dosha forcibly eliminated through nose with sounds frequently. is known as doshaja kshavathu, (sushrutha) Vitiated vatadi doshas affects the shrungataka marma of Na-

### Aaganthuja Kshavathu.

bacco and chillies. nasal picking with sticks, direct exposure to sun rays causes and produces sounds through nose with nasal discharge Frequently the irritative factors are inhalation of katu Teekshna items like maricha to-The Nasal shrungataka Marma is stimulated by the following

Bhrushakshava Vagbhata: - Explained above two types as one in the name of

Charaka - Viatiated Vata by irritating shrungataka marma causes the

nasya prepared with Shunthi, kusta, pippali, velli, draksha, Tila taila. shunthi, maricha, vidanga, sighru beeja, 11) Shatbindu taila Nasya. 12) Sneha allergic foctors. 9) Pradaman Nasya with 10) Avapeedan Nasya with Pippali, 1) Ghrita pana 2) ghritha abhyanga 3) Shiro vasti. 4) mrudu Sweda to shiras 5) Snigda dhooma 6) Nasya 7) Pratishyaya chikitsa 8) Avoiding the

Oral intake of agastya hareetaki Chitraka hareetaki

Sheleshma shiilendra ras Maha Lakshmi vilas ras

Rasayan chikitsa

Anti allergic treatment Preventive as wellas curative

Rest

### 11) BRAMSHATHU

Hypertrophic or chronic rhinitis, frontal sinusitis

cavity is known as Bramshathu. It is secondary to the ksavathu and the treatment is as like Kshavathu. by pittoshma and expels sticky salty mucus discharge through the nasal hy nitthebase and amed or get hypertrophied ) dissolved, burnt The accumulated Kapha of shiras (Because of repeated sneezes the

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#### (ACUTE CATARRHAL RHINITIS) DEEPTHA OR DEEPTHI

tion in the nose, smoky feeling, un-tolerable pain and tenderness. It is due to pitta and Raktha vitiation, associated with Burning sensa-

#### Treatment :-

- 1) Pitta Raktha hara chikitsa
- 2) Cool applications, (Lepa seka ) ex shatadautha ghritha
- 3) Modhura Tiktha kashaya (Ahara)sheeta veerya Aushada and sheetala vihara
- 4) The following remedies can be given for external and internal

Chandana, usheera, Nagakesara, musta, muktha, ghritha, shunthi, pravala pisti, chandanadi vati, Chandanadi loha, Lagu Sathasekara ras, chandanasav, usheerasav etc. drugs are useful. Triphala guggulu, Nimbadi guggulu, shadanga paneeya, Ksheeri sarpi

- 5) Brumhana or shamana Nasya should be given
- Ksheeri sarpi Nasya. ex 1) Rasanjana Nasya

### NASA SRAVA OR NASA PARISRAVA 13) GHRANA SRAVA &

(Acute or chronic Rhinorrhoea)

discharges colourless watery secrections from the nose continuously and more severe at nights, is known as nasa srava or parisrava. The kapha (mucosa) of shrungatak area of the nose is affected and

masthishka. Charak - Solid, yellowish, pakwa, Nasasrava comes by the vitiation of

## Bhavamishra & Yoga ratnakar:-

through the nose, is known as Nasa srava. Some times solid discharge and some times watery discharge comes

#### Treatment :-

- 1) Shiro virechan
- Hingu, Vyoshadi Teekshna Avapeedan Nasya.
   Teekshna dhooma pana (Devadaru, chitramoola)
- 4) Aja mamsa sevana
- 5) Gandak rasayana usage6) Pratishyaya Chikitsa.

# 14) NASA SOSHA (Atrophic Rhinitis )

olfaction and respiration, is explained as Nasa sosha. Vata and Pitta causes dryness of nasal mucosa, leads to difficulty in

shrungataka marma, is explained as Nasa sosha. Charaka: Vitiated vata causes dryness of nasal mucosa and

#### Treatment :-

1) Ghee + Milk -

for oral intake

- ) Jangala Mamsa Kseera Sarpi
- Anutaila Nasya
- 6) Mrudu sweda
- Sneha dhooma pana.

# 15) NASA GATHA RAKTHAPITTA (Epistaxis)

Pitta, it comes under the Classification of urdwagatha Raktha pitta Bleeding from and through the nose is calledas Nasagatha Raktha

1) According to dosha it is 4 types, they are.

a) Vataj b) Pittaja c) Kaphaj d) sannipathaj (madhavkar explained Dwandaja Ratapitta also)

### 2) Dwi Prabhavam :-

- A) a) Yakruth (Liver ) b) Pleeha (spleen )
- B) a) Aamashayaja b) Pakwashayaja
- C) a) Snigdoshna b) rukshnoshna

#### Dwi marga

a) Urdwa gatha b) Adhogatha

(others explained Tiryakgath as 3rd, some body ubhaya gatha as 3rd)

Samprapthi :- 1) Doshaj 2) Aaganthuja.

if doshas passes in upward direction there are chances for nasal bleeding. in the body moves in 3 drections a) upward b) Downward c) Both or irregular, 1) The Pitta, Raktha predominent vitiated doshas while propogating

tion and in vata Kapa Predominence doshas moves in Both the direction) in upward direction, vata predominence doshas moves in downward direction. (Madhava kara explained that in Kapha Predominence doshas moves

2) Shiro or Nasa Abhighata (Injury ) causes nasal bleeding

# CLINICAL FEATURES OF NASAL BLEEDING

- Based on Doshas:-1) Vataj Raktha Pitta: Thin, rough, foamy, black Nasal bleeding.
- and resembles like Agaru and anjana. 3) Kaphaja Raktha Pitta:- Blood appears bulk, oily, sticky and in 2) Pittaja Raktha Pitta: The blood is blackish, Decoction like, smoky,
- 4) Tridoshaja Raktha Pitta:- All the symptoms of tri-doshas present
- Treatment :- 1) Shodhana therapy in strengthy patients
- 2) Shamana or Stambana therapy in weak patients
- 3) Pitta Raktha hara treatment should be given.
- Skandana Processing of blood coagulation by dusting 4) Sandhanam - Adjoining the margins or suturing the lesion medicated powder.

Pachana - Medical cauterisation Dahana - Electric Cauterisation.

usheera, Naga kesara, chandana, doorva etc.6) Cause should be treated swarasa or ghritha or draksha or ikshurasa or ksheera or dadima puspa whether Local or systemic 7) Nasya with milk and sugar 8) Nasya with doorva usage of the drugs. Like swarna gyrica, sutasekara ras, Pravala Pisti, mukta patra swrarasa, or Apamarga patra swarasa, or Aamalaki swarasa etc.9) kasaya or palaandu moola swarasa or vasa swarasa or Yasti ghritha or babula swarasa or spatika + sharkara or pancha ksheeri kashaya or Hreeberadi shubra bhasma, Rakta bandini vati. 13) Santarpana chikitsa. pisti, shankha bhasma, chandanadivati, lakshadi guggulu, Kamaduda ras tion of Chandanasav usheerasava etc drugs.11) Ghritha Pichu. 12) Internal Oral administration of Vasa swarara, Avaleha or ghritha. 10) Oral administra-5) Cool applications, drops, and dusting the powders of, ex: musta.

#### **EPISTAXIS**

local or systemic caues is known as epistaxis The Bleeding from the nose (unilateral or bilateral) occuring due to

- 1) Anteror 2) Posterior
- 1) spontaneous
- 2) Induced.

### Causes of Epistaxis :-

- A) Local causes -
- 1) Congenital :- Multiple telangiectasis or Osler's disease.

ing (especially at littles area), surgical trauma, Barotrauma etc. 2) Traumatic:- Trauma to the nose, para nasal sinuses or head, nose pick.

2) Traumatic:- Trauma to the nose, para nasal sinuses or head, nose pick.

tis, Acute sinusius, we sloca, atrophic rhinitis, Phino sporidiosis, Tuberculosis, syphilis, leprosy, lupus, etc. 3) Initalities Adenoids, Chronic Rhinitis, chronic sinusitis, Rhinitis sices, tis, Acute sinusitis, Adenoids, Chronic Rhinitis, Syphilis, leprosv line, standard sparing spari 4) Neoplastic: Benign and malignant tumours. 3) Inflammatory:- Nasal diphtheria, Acute vestibulitis, acute Rhinitis, chronic sinusitis. Rhinitis, acute Rhinitis, chronic sinusitis.

Idiopathic

menstruation. 6) Miscellaneous :- Foregin bodies, maggots, rhinoliths, vicarious

endo carditis. 6) Chronic renal failure, uraemia, Toxaemai 7) Miscellaneous fective viral fevers, measles, varicella, erysepelas, influenza, Rheumatic fever 4) drugs - salicylates, quinine, phosphoras etc 5) Debilitative disorders insure in superiorvenacava due to mitral stenosis, superior mediastinal tumours, Caisson disease, high altitudes. Vicarious menstruation 8) Idio pathic whooping cough, pneumonia, Bhronchitis, tumours of mediastinam and neck pura, agranulocytosis, Hodgkin's disease, anaemia etc 3) increased pres-B) General Causes:- or systemic caues

1) Hypertension. 2) Bleeding disorders like leukaemia, haemophilia, Pur.

palatine and superior labial arteries, it is situated about 6 to 8 mm within the vessels like Anterior ethmoidal, sphenopalatine, posterior ethmoidal, greater bach's plexus for the rich blood supply due to the anastamosis of many vestibule and 6 mm above the floor of the nose. Pathology:- 1) 90 % of the cases the bleeding point is Little's area or Kiessel

anterior ethmoidal artery, Bleeding chances or there 2) The area above the middle turbinate receives blood supply from

nate (venous anastamosis present here ) it is also a site for bleeding per 3) Woodruff's plexus - behind the posterior end of the inferior turbi-

#### Clinical Features :-

upon the quantity of blood loss. 1) Quantity may vary from Little to profuse, the symptoms depends

eral debility 6) shock 7) If cause is systemic the Local symptoms may appear. Haematemesis. And the other symptoms are 3) Anxiety 4) Discomfort 5) gen-Haematamasia And ILL .... spit it out or come as Haemoptysis or 2) Bleeding if anterior, can be seen; if post nasal may be swallowed

Investigations :-

1) Blood pressure 2) Haemogram
3) Coagulation test 4) Radiography
5) CT Scan 6) Fndo

6) Endoscopy 7) Biopsy.

#### Treatment :-

1) If there is any specific cause that should be treated

First aid

a) ice or cold pack application on the bridge of nose to arrest the

bleeding by reflex vasoconstriction b) Pinching the nose at Littles area for 2 to 3 minutes.

other lubricants. 3) Anterior nasal packing with a gauze soaked in liquid paraffin or

5) If the bleeding is due to Local atrophic causes - Lubricant ointment 4) Posterior nasal packing is advised if bleeding does not stop by anterior nasal packing

6) If bleeding point is Visible that should be cauterised

should apply

8) Blood transfusion if blood Loss is severe 7) sedation should be given in suitable doses

9) Calcium vitamines C, K and other haemostate may be given

10) Antibiotics to prevent the infection following nasal packing.

moidal arteries in the pterygo maxillary fossa. 11) Ligatin of the external carotid artery distal to lingual artery or Eth

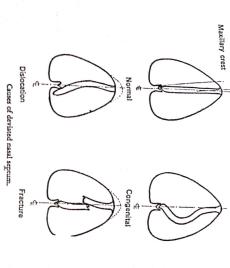
#### 16) NASA NAHA OR NASA PRATINAHA ( Deviated nasal septum)

and difficulty in respiration, is known as Nasaanaha or Nasa Pratinaha vitiation in its own place (swa marga viigunya), leads to Nasal obstruction The udana vayu is get encircled (Aavrutha) with Kapha and causes

tumour of Nasal cavity those causes nasal obstruction and dfliculty in respi-It canbe co-related to deviated Nasal septum, Nasal polyp or cyst or

#### Treatment :-

- 1) Intake of Oleus substances after meals
- 2) meal with mamsa rasa
- 3) Ghritha pana 4) Snigdha dhooma
  5) Shiro vasti 6) Nasya with Anu taila or shatbindu taila For oral. massage nasya and for shiro vasti 7) Usage of bala taila
- 8) Nasa sosha chikitsa 9) Brumhana chikitsa.







of the natal so



elon; (e) Excision of the deviated nasal septrum leaving behind the framework; (f) The end result separating the mucosal flaps from the nasal sket side; (d) Use of Killian long bladed speculum for evation of the mucoperichondrial flap on one side; (c) Elevation of the mucoperichondrial flap on other Steps of the SMR operation (a) Incision; (b) El-

# DEVIATED NASAL SEPTUM (D.N.S.)

Septal cartilage

quires the treatment when it produces the symptoms. Deviated Nasal septum is a common and frequent abnormality, re-

1) Heriditory causes

intra uterine period due to abnormal posture. 2) Congential causes - compression of nose and upper jaw in the

Defective development of septum

accommodate it self. 4) Rapid Growth of septum in relation to face so septum buckled to

5) High arch of palate may cause buckling of cartilagenous spetum

6) Excessive development of middle and interior turbinate.

7) D.N.S. is secondary to the nasal tumours polyps and masses.

8) Trauma to the Nose or upper jaw

Recurrent Nasal Paranasal infections.

general debility and un hygienic condition.

### Clinical features :-

- 1) Asymptomatic there may be no symptoms
- 2) Blocking of the nose either unilateral or bilateral

(A) ii) Creation of inferior tunnels (B) and Septoplasy i) Creation of anterior tunnel excision of inferior strip of cartilage iii) Criss-Cross incisions on cartilage to break spring.

- 3) Headache due to sinusitis, Vacum head ache, Neuralgic head ache
- 4) Recurrent cold due to stagnation of fluids and infection
- 5) epistaxis due to stimulation of little's area
- pharynx 9) On examination of nasal cavity septum appears as devi-6) Anosmia 7) Deformity of external nose 8) Dryness of mouth and

apppears as hypertrophied. ated either in C shape or S shape or in irregular shape and the turbinates

### Complications :-

- Recurrent Sinusitis.
- Mouth breathing 2) Middle ear intections.
- 4) Asthma
- 5) Atrophic rhinitis.

submucoous resection of nasal septum (S.M.R. operation) or septoplasty. loms due to deviated nasal septum permanent relief is obtained by the Treatment:- It is required when patient has persistent or recurrent symp-

when there is gross deflection surgical correction is only the choice of treat-In the early stage decongestant drops and antibiotics gives relief but 197

# S.M.R. (SUB MUCOUS RESECTION ) OPERATION

sia is achieved by successions and succession of the state of the stat with a solution of 4 70 Light analysis is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine with 1:100000 sia is achieved by sabmucosal infiltration of 2% Light Caine The Nose is Locally anaesthetised by packing the nose (on bothsides) with a solution of 4 % Lignocaine with 1:100000 adrenaline, further anaesthe.

and in supine position under general anaesthesia. Patient is operated in a semi sitting position under Local anaesthesia.

mucoperichondrium upto the cartilage, just beyond and parallel to the muco Method :- 1) An incision is made usually in the deviated side through the cartilage, just beyond and parallel to the the cartilage.

2) The mucoperichondrium is then elivated from the deviated portion

of the septum by a suitable elvator.

then the opposite mucoperichondrium should be elivated by introducing a suit carefully done to avoid injury to the muco perichondrium of opposite side, 3) Then the cartilage is incised along the first incision this should be

umella to avoid deformity of external nose removed but care should be taken to preserve some part at roof and colluc forceps the deviated cartilaginous and bony parts of septum should be rated from septal cartilage, then with the help of Ballenger swivel knife and 4) With the long bladed nasal speculum the mucosal flaps are sepa-

veselline ribbon gauze to prevent the sticking of mucosa and injury. 5) Suturing of the flaps is usually not necessary but nose is pack with

# Post Operative Care :-

2) Nasal packs are removed after 48 hours then Nasal decongestants ) Anti biotics Analgesics and Antiinflammatories are given 5 to 7 days

should use for few days

3) Application of ointment or oleus things to the nose to loosens crusts

4) Forcible blowing of nose should be avoided

5) Rest for a week.

septum 8) Neuralgic pain a) Intra cranial complications. sentum at Nicural 21 feetum with lateral wall 6) Saddle nose 7) flappy n 5) Adhasions of continuous (1) Septal abscess 4) Septal per

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# (17 to 20) NASA ARSHA (NASAL POLYP)

vatadi doshas and produce polyp like growth is called arsha. The Twak (Skin ), Mamsa (muscle ), medas (fat tissue ) are vitiated by

Kaphaj 4) Raktaj 5) Sannipataj 6) Sahaj It is of 6 types in general (for guda arsha) they are 1) Vataj 2) Pittaj 3)

Vataj 2) Pittaj 3) Kaphaj 4) Sanni pataj. But in Nasa rogas Nasa arsha are explained as 4 types they are 1)

### Clinical Features :-

nose 5) headache 6) Nasal Speech. 1) Difficulty in respiration 2) Sneezing 3) Rhinitis 4) Foul smell from

### Treatment :-

explained for the treatment of Arshas. yps, in shalya tantra 1) Aushada 2) Shastra 3) Kshara 4) Agni Karma are It can be corelated to Nasal Polyps, treatment is excision of the pol-

# 21-24) NASA SHOPHA:-

tumour. it may occur due to infection, Allergy and trauma. . It is an oedema like thing that does not contain any sac in side like

It is of 4 Types:

1) Vataja 2) Pittaja 3) Kaphaja 4) Sanni pataj

Symptoms:- Like arshas.

should be given. Treatment :- Shotha hara, shoola hara, Vrana ropana, pratishyaya chikitsa

# 25-31) ARBUDA (TUMOURS

a) Madhava kara explained 6 types. a round hard and deep rooted growth is known as arbuda. The Raktha and mamsa are vitaited by vatadi doshas and produces

1) Vataj 2) Pittaja 3) Kaphaj 4) Rakthaj 5) Mamsaja 6) Medoja

b) According to Shalakya tantra 7 types in the nose.

1) Vataj 2) Pittaja 3) Kaphaj 4) Raktaj 5) Mamsaja 6) Medoja

7) Sannipataj.

It can be co-related to tumour of the nose It produces obstructive inflammatory irritative symptoms in the nose.

according to the condition of the tumour. Treatment : - 1) Aushada 2) Shastra 3) Kshara 4) Agni Karma

### Nasal Polyp :-

or para nasai singues or para nasal sinuses. The Nasal polyps are inflammatory in origin but not polynous and included the polyp but not polynomial swellings are shaped like polyp but not polyposite shaped like polyposite s Polyp is a pedunculated hypertrophied oedematous mucosa of Nose

Types: Usually 2 types.

Types: Usually Chipmen 1) Antrochoanal Polyp it arises from the maxillary antrum, grows towards the back of nose (Posterior nares) and reaches Naso pharynx and wards the back of nose (Posterior nares) and reaches excision oropharynx, commonly single doesnt recur after perfect excision.

grows towards anterior nares 2) Ethmoidal polyp, multiple, bilateral, arises from ethmoidal sinus and

# Pre-disposing factors :-

Allergy
 Vasomotor

Infection

ex: Ethmoidal polyp

and Para sympathetic nerves of nose Due to imbalance between sympathetic Long Standing bacterial and viral

6) Polyp saccharide changes in the ground substance. 5) Bernouilli's phenomenon - (Negative pressure in the sinuses )... Mixed causes

### Pathology :-

# Macroscopic Pathology :-

the antrum, becomes oedematous, through the ostium of maxillary sinus and haitas semilunaris reaches the choana then to the Naso pharynx and oro a) Antra choanal Polyp: - Prolapsed mucosa hangs from the roof of

swells and hanged downwards and forwards in the nasal cavity. b) Ethmoidal Polyps :- Multiple, Bilateral, the prolapsed mucosa

# Microscopic Pathology :-

so only polyp is painless and avascular. phile and plasma cells are included. The blood vessels and nerves are scartly chronic inflation, the stroma is fibrillar and oedematons, Lympho cytes, Eosino ated columnar epithelial covering undergo squamous meta plasia due to The Nasal polyp consist of Soft smooth bluish white masses. The cil-

### Clinical Features :-

1) Nasal obstruction which is not relieving with nasal decongestant.

ish in colour. grapes, smooth oval pale blue pink or reddish in colour and pain less. 8) in nasal drip 7) In anterior Rhinoscopy ethmoidal polyp look like a bunch of 3) Mucopurulent discharge in infected cases.4) Broadening of nose in Eth-moidal polyp 5) Snoring and mouth breathing.6) Headache epiphora and post Posterior Rhinoscopy Antro choanal polyp looks rounded smooth greyish blu-2) Sneezing and watery nasal discharge present in Allergic cases.

sinues 3) Biopsy. Investigations:- 1) Nasal secretion contain Eosinophils 2) Radiograpy of

### Treatment :-

- 1) Removal of the causes
- 2) Anti histamines decongestants Antibiotics
- Excision of the polyps.
- 4) Ethmoidectomy in recurrent ethmoidal polyp5) Removal with cald well- luc operation, in recurrent Antro choanal

# Differential Diagnosis of Polyp:-

# 1) Hypertrophied turbinate :-

the tubinate and it shrink with decongestant drops. It is pink in colour, tender, firm to feel, probe cannot passed around

# 2) Rhinosporidiosis :-

to people of costal area due to fungus infection. Mass arises from septum, strawberry like in appearance, arises

- ing Histopathology confirms the disease. 3) Malignancy: Contain granulomatous bleeding poly poidal swell-
- 4) Angioma of Nasal septum, single red smooth and bleeds readily
- polyp like swelling, aspiratin of fluid and Histopathology confirm the disease 5) Meningo cele :- Prolongation of meninges into nasal caivty as
- mour like growth of tissue Benign in origin but rarely becomes malignant. 6) Hamartoma:- It is adevelopmental malformation consisting of tu-
- locating at the junction of roof and posterior pharyngeal wall 7) Adenoids - Radiography of Naso pharynx confirm the adenoids
- growth is seen with lymph node meta stasis 8) Naso pharyngeal malignany :- In posterior Rhinoscopy irregular

Note: So after excision of Polyp- Histopathology in necessary to confirm

# Tymours of the Nose and Paranasal Sinuses ;-

sinuses, the following are rarely observed. The benign tumours are not so common in the nose and para nasal

### Benign Tumours

1) Papilloma 2) Adenoma 3) Hasmangioma 4) Fibroma 5) Osteoma 6) chondroma 7) Osteoclastoma 8) Chordoma 9) Rhinophyma etc.

- mostly arises from the skin of vestibule or anterior part of septum Surgical 1) Papilloma : Single or multiple, sessile or pedunculated tumour
- Adenoma :- It is rare but may become malignant.
- Fibroma :- It is rare, commonly arises from septum and
- at septum, osler's disease occurs at Little's area and causes bleeding. excltelangiectasees (Osler's disease ). The commonest is capillary types occurs Haemangioma :- 3 types capillary cavernous and multiple
- Osteoma 3 types.
- a) Campact osteoma occurs in frontal sinuses
- b) Cancellus osteoma occurs in maxillary and ethmoidal sinuses and
- Excision of the excessive tissue is the choice of treatment for cosmotic purc) Fibrous dysplacia - maxillary and ethmoidal bones are deformed.
- 6) Chondroma 7) Chordoma 8) Osteo clastoma and Rhino phyma are rare.

## Malignant tumours :-

Etimoidal sinus, Rare in frontal and sphenoid sinus. Rare in the nasal cavity, more frequent in maxillary sinus, less frequent in malignancy of total body (Very less when compared to other parts of body). Malignant tumours of nose and para nasal sinuses occurs 0.2% of the

nose with eruption of bleeding polypoidal mass- causes Nasal obstruction a) Squamous cell carcinoma is the commonest type involving the

- Treatment: wide surgical excision and Radio therapy
- b) Adeno carcinoma occurs in maxillary sinus.
- d) Chondro sarcoma & meta static tumours are very rare. c) Melanoma :- Rare blackish mass develops inside the nose.
- greyish mass, it is known as Ringertz's tumour. e) Inverted papilloma develops in the lateral wall of nose as red or



lium at cribriform plate of ethmoid bone. f) Olfactory neuroblastoma develops from sensory olfactory epithe-

Blood stained nasal discharge 4) Pain and head ache 5) Peripheral lesions like proptosis, epiphora, Toothache swelling of check and palate etc. The common clinical features are 1) Nasal obstruction. 2) epistaxis 3)

piagnosis :- 1) Xray

2) Biopsy

Treatment :- Excision, radio therapy or chemotherapy etc.

# CYSTS OF NOSE AND PARANASAL SINUSES

### Sinuses :-

Cysts are of different types.

- Congenital cysts
- Cystic odontomes
- permanent tooth. a) Cyst of eruption - Bluish swelling on unerupted deciduous tooth or
- along with tooth. tooth, the tooth is seen in the cyst cavity on xray - Treatment is to remove cyst b) Dentigerous Cyst :- Arises from the follicle around an unerupted
- c) Dental cyst:- The infected tooth produces apical granuloma which forms cyst.

Treatment: - Excision along with carious tooth

- d) Adamantinoma :- A diffuse swelling on mandible with eggshell crackling - treatment is radical excision.
- sinus wall. moid) due to blockage of sinus ostium resulting in thinning and expansion of 3) Mucocele :- A cystic swelling of sinus (mostly Frontal some times eth-

Treatment :- Excision and re establishment of drainage.

- Inner outer margins of orbit . 4) Dermoids :- Occurs midline of the nose and extend into septum and
- 5) Haemorrhagic :- Bone cysts found in the mandible may be due to trauma.

# MUKHA ROGA (DISEASES OF THE ORAL CAVITY & THROAT)

### मुख रोग संख्या

ै ''मुखरोगाः पंचषिष्टर्भवन्ति सप्तस्वायतनेषु। तत्रायतनानि–ओष्ठौ, दत्तमूलानि, दत्ताः, जिह्वा, तालु, कण्ठः, सर्वाणि चेति। तत्राष्ट्रावोष्ठयोः पंचदश दत्तमूलेषु, अष्टौ दत्तषु, पंच जिह्वायां, नव तालुनि, सप्तदश कण्ठे, त्रयः सर्वेष्वायतनेषु॥

(सु॰ नि॰ अ॰ 26)

यथा-ओष्ठे गण्डे द्विजे मूले जिह्नायां तालुके गले॥ वक्त्रे सर्वत्र चेत्युक्ताः पंचसप्ततिरामयाः। एकादशैको दश च त्रयोदश तथा च षट्॥ अष्टावष्टादशष्टौ च क्रमात्

म हु उ अ १७

### मुखस्वरूप

ओष्ठौ च दन्तमूलानि दन्ता जिह्ना च तालू च। गलो मुखादि सकलं सप्ताङ्ग मुखमुच्यते॥

### मुखरोग-संख्या

स्युरष्टावोष्ठयोर्दत्तमूले तु दश षट् तथा। दत्तेष्वष्टौ च जिह्वायां पंचस्युर्नवतालुनि॥ कण्ठे त्वष्टादश प्रोक्तास्त्रयः सर्वेषु च स्मृतः। एवं मुखामयाः सर्वे सप्तंषष्टिमता बुधै॥।

(भा॰ चि॰ म॰ ४)

# वग्भट के मत से मुखरोग निदान

मात्स्यमाहिषवाराहिपिशतामकमूलकम्। माषसूपदिधक्षीरशुक्ते क्षुरसफाणितम् ॥ अवाक्शय्यां च भजतो द्विषतो दन्तधावनम्। धूमच्छर्दनगण्डूषानुचितं च सिराव्यधम्॥ कुद्धाः श्लेष्मोल्बणा दोषाः कुर्वन्त्यनर्मुखान् गदान्।

**ক ক্ ড अ 21)** 

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# ANATOMY AND PHYSIOLOGY OF ORAL CAVITY (MUKHA)

by the lips and Cheeks and internally by the upper and Lower teeth, pharyox by the Oropharyngeal isthmus. The vestibule of mouth is bounded externally mouth. The mouth proper has a floor roof and communicates posteriorly with the and having when the particular particular and cheeks are open into the vestibule of the particular and having connection from beyond the last molar teeth when mouth is closed, pabule and a bigger preterior mouth proper, these are seperated by teeth and gung The mouth Or the oral cavity consists of Two parts, a smaller anterior vestion of the second that the second cavity consists of two parts, a smaller anterior vestion.

glands ) 4) Mucosa (Reddish pink transparent layer.) layer 2) Muscle Layer (Orbicularis Oris) 3) Sub mucous layer (contain labial salivary tace (Internally), The layers of lips from out to inwards are as follows. 1) Cutaneous trum. It is having two surfaces - cutaneous surface (Externally) and mucosal surmouth), a shallow median groove present at the centre of upper lip, known as philfrenulum. It contains free border, attached border and adjoining angle (Angle of and also attached by the respective median fold of mucous membrane, known as incisivus superioris and interioris lips attached to the bone (Maxilla and mandiable) Lips are, Two, soft movable structures which surround the oral aperture. . By

Muscle Attachments of the Lips :-

1)Levator Labii superioris alaeque nasi :-

Raises and everts the upper lip and dilates the nostrile.

Levator labil Superioris ;-

Elevates the upper lips slignt laterally.

Zygomaticus minor :- Elevating upper lip.

4) Levator anguli Orls :- Raises the angle of lips.

5) Zygomaticus Major :- Raises the lips upwards laterally as in

6) Mentalls : - Raises and Protrudes the lower lip.

7) Depressor Labili inferioris ;-

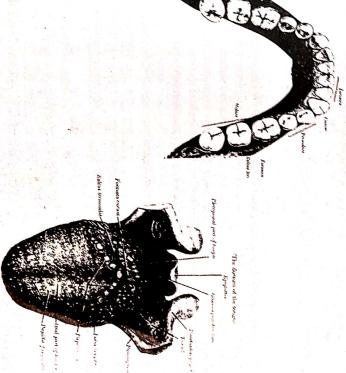
Depress the lips downwards little laterally,

8) Depressor anguli oris:- Angle of mouth is depressed down wards

Note:- The 8 Mucsles are supplied by facial Nerve only.







# Gums (Dantha Moola ) :-

of teeth like a collar. adherent to alveolar process of maxillae and mandible, free part surrounds the neck cous membraire, which is continuous with the mucosa of cheek - it is having two parts, Attached part is firmely continuous with the mucosa of maxillae and mandible, free part surrounds. Gums Or ymusous ping lined by lightly keratinised squamous epithelium, which is cous membrane, being lined by lightly keratinised squamous epithelium, which is <u>B</u> Gums Or gingivae is a fold of dense Vascular fibrous tissue, covered by mu-

### Nerve Supply :-

Maxillary and mandibular nerves, branches of Trigeminal Nerve.

### Teeth (Dantha )

Teeth are classified into. Teeth are useful to cut, tear and grind the food into small pieces. The Oral cavity is divided into vestibule and mouth proper by teeth and gums.

the alveolar arch,. the dental formula for deciduous teeth is. Deciduous teeth are 20 in number, 2 incisors, 1 canine and 2 molars, in each half of 1) Deciduous teeth Or Temporary teeth Or milk teeth and .2) Permanent teeth.

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<b>∾</b> '	2	_
2 1 2	2 1 2	_ C
(No premolar teeth)		

sors, 1 canine, 2 premolars, and 3 molars in each of alveolor arch. ing the eruption of permanent teeth, the deciduous molars are replaced by permacompletes upto 2 or 2 1/2 Years. Then these are replaced by permanent teeth. Durplase (Extra 3 in each half of alveolor arch, so only permanent teeth are 32; 2 inclnent pre-molars then posterior to pre-molars eruption of permanent molars takes The eruption of deciduous teeth starts from 6 to 9 months of child age and

### DENTAL FORMULA

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denote the time of eruption of each tooth. the eruption of Last molar teeth from 17 to 25 Years of age ). The following charts blion of I and mail.... beth starts from 6 Years to 12 Years of age (But

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# Eruption of Deciduous Teeth :-

핕	+ 0, 0, 4, 10, 0, 1-	SI.No.
Eruption of Permanent Teeth :-	Lower Central incisors Upper Central incisors Upper Lateral incisors Lower Lateral incisors First Molar Canine Second Molar.	Name of Tooth
	6 to 9 months of child age 8 to 10 Months. 15 to 21 Months. 15 to 21 Months. 15 to 21 Months. 15 to 20 Months. 21 to 24 Months.	Age of the Child.

	ø.	7.	<u>o</u> .	Ċ	4.	မှ	'n	<del></del> /	SI.No.
(Wisdom teeth)	3 rd molar	2nd molar	Canine	2nd Pre-molar	Ist Pre-molar	Lateral incisor	Medial Incisor	Ist Molar	Name of Tooth
	17 to 25 Years.	12 Years.	11 to 12 Years.	10 Years.	9 Years.	8 Years.	7 Years.	6 Years.	Age of the Child.

# Discription of the Teeth :-

of. the vessels and nerves. called as root, while the portion projecting beyond the gum is called crown, and neck is the constricted portion situated at the junction of above two parts. At the apex of the each root has a pin point aperture known as apical Faramen For the transmission The tooth has root, a crown and a neck, The portion burried within the jaw is

# Structure of the Teeth :-

Each tooth is composed of Enamel, cement Dentine, and pulp.

- 1) Enamel is white in sensitive substance that covers the crown of the tooth.
- 2) Cement is bony and covers the roots of the teeth.
- 3) Dentine is the yellowish basis of the tooth which is Extremely sensitive which covered by Enamel (at crown area) and cement (at root area).

transmission for vessels and nerves. 4) Pulp: Deliving the root through a Foramen known as apical foramen that gives opens at the tip of the root through a Foramen known as apical foramen that gives Pulp:- Dentine contain a cavity within known as pulp cavity that usually

Exposing of cement. socket a vascular ray conversed by gum and attached by an epithelial Layer which may destructed by age and leads to socket a vascular layer know as peridontal membrane present which is covered by socket a vascular layer know as peridontal membrane present which is covered by 

# Discription of the Structure of Teeth :-

gual tubercle remains rudimentary - The root is single, conical with lateral curvature, margin, upper incisors are bigger than lower and medial incisors are bigger than margin, upper incisors are bigger than lower and medial incisors are bigger than margin, upper lineage and important and the crown form the cutting margin and one lineared. The two labial tubercles of the crown Form the cutting margin and one lineared and o Incisors: 8 in number, 4 in each jaw. It is chisel shaped with an incising

defined, the root is single & elongated. bercles of the crown are fused to Form a large cone and one lingual tubercle is well Canine :- 4 in number 2 in each jaw, it is longest of all teeth. 2 labal tu-

lingual tubercles appear in pyramidal shape (cusp-like) and have single root (The root of first upper pre-molar is bifurcated). Premolars: 8 in number, 4 in each jaw, 2 labial tubercles of crown and

roots present in upper molars and 2 roots in Lower molars. lingual tubercles in upper jaw and 2 labial and 1 Lingual tubercles in lower jaw. 3 Molars :- 12 in number, 6 in each jaw. The crown contain 2 labial and 2

### Blood Supply :-

of maxillary Artery Upper Jaw :- Molars and premolars - by posterior superior alveolar branches

Incisors and canine - by Anterior superior alveolar branches of inferior orbital artery

Lower Jaw :- All the teeth are supplied by inferior alveolar branches of max-

incisors by infra orbital nerve, lower jaw by the mandibular nerve. Upper Jaw :- Molars and pre molars by maxillary nerve and canine and

Nerve Suuply :-

# TONGUE (JIHWA)

muscle. Interspersed with little fat and numerous glands. It consists of it is coverved by straitified squamous epithelium and consists of a mass of straited The Tongue is a mobile organ, bulges upwards From the floor of the mouth

a) root of tongue b) Apex or tip of tongue c) Dorsum

d) Inferior surface and e) Right and Left margins Or borders

transmits the nerves and vessels which supply it. ments it comes in contact with Genio hyoid muscle and Myelohyoid muscles, it It is attached to the hyoid bone and mandible and in between the attached

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b) Apex or tip of Tongue :- It is free anterior end of tongue, that rests

rough and thick due to presence of papillae (Most of papillae contain taste buds) extends from the tip of tongue to the foramen caecum. The mucosa of Oral part is posteriorly and is marked by a pit the formen caecum, A shallow median groove fold connects the tongue with the epiglottis. the mucosa is continuous with anterior surface of epiglottis and the glosso epiglottic to the presence of small lymph follicles (Lingual tonsils ) in sub mucosa. Posteriorly where as pharyngeal part or mucosa is smooth thin and nodular in appearence due Part) and pharyngeal part by a "V" shaped sulcus terminalis, the apex of which points to the anterior surface of the epiglottis. It is separated into Oral part (Palatine c) Dorsum of Tongue: The dorsum of tongue extends from the tip of

# Inferior surface and sides of Tongue :-

gual papillae . fimbriata and in the floor the openings of sub mandibular ducts, present on sub linon lateral sides of Lingual veins there is fringed Fold of mucosa known as plica as frenuium Liguae. on each side of Frenulum Linguae deep Lingual veins present, middle a raised fold of mucosa joins the inferior suface to the floor of mouth known The inferior surface and sides are covered with thin smooth mucosa, in the

### Actions of Tongue :-

- Organ of Taste.
- Helps in deglutition.
- Hels in speech
- Helps in mastication of food

## Muscles of Tongue :-

(Extrinsic Muscles :-)

- is supplied by Hypoglossal Nerve. enlarge the Oral cavity and the posterio-inferior fibres help to protrude the tongue, it 1) Genioglossus:- The anterior fibres of the muscle, depress the tongue to
- caivty, it is supplied by Hypoglossal Nerve. 2) Hyoglossus :- It depress the sides of the tongue to enlarge the Oral
- is supplied by Hypoglossal Nerve. 3) Styloglossus:- It pulls the tongue postero superiorly as in swallowing, it
- ormed by glossopharyrgeal and vagus complex, of the dorsum of the tongue (elevation of tongue ) it is supplied by pharyngeal plexus 4) Palatoglossus:- It draw the soft palate inferiorly on to the posterior part
- 5) Chondro Glossus:- It is a part of hypoglossus, it inserts into intrinsic muscles, in Detween Hyoglossus and genio glossus.

### Intrinsic Muscles :-

- 1) Superior longitudinal muscle curls the tip of tongue upwards and roll it
- 2 ) Inferior longitudinal muscle curls the tip of tongue inferiorly, with superior
- logitudinal it retract and widen the tongue. 3) Vertical muscle :- Increases the length of tongue for protrusion.
- 4) Transverse muscle :- Narrow the tongue and increases its height.

plied by Hypoglossal nerve Motor Nerve Supply:- All the above muscles except palatoglossal are sup.

by the complex combinations. Note:- Actions of the individual muscles is explained above and others also occurs

## Sensory Nerve Supply :-

y Nerve אייאייי 1) Lingual nerve, branch of Trigeminal, for general sensation of Anterior 2/3

2) Chorda tympani, branch of facial, for taste sensation of Anterior 2/3 of

3) Glosso pharyngeal, :- Nerve for posterior 1/3 of tongue for general and

4) Superior laryngeal - nerve, branch of vagus, supply to the small area adjacent to epiglottis.

### Vessels of Tongue :-

1) Lingual and deep artery of tongue, to the anterior 2/3 part

2) Dorsalis linguae artery, to the posterior

1) Deep vein and Lingual vein follow, the corresponding arteries

## Physiology of Tongue :-

markably altered. Primary taste sensations are 4 - a) Sweet (From the tip of tongue (Dorsum of tongue Anteriorly). and other tastes are e) Metallic f) Alkaline. evolve solely, in the absence of olfaction (Smell sensation) taste sensation is reb) Sour (From the sides of tongue ) c) Bitter (From the back of tongue ) d) Salt The sense of Taste and smell are closely interrelated, sense of taste doesnot

lae which present in the Anterior 2/3 of Tongue. mucosa of the epiglottis, pharynx, under surface of palate and lateral walls of papilmastication and deglutition) Taste buds are the end organs of taste, located in the Tongue is mainly concerned with taste sensation (Other functions speach,

the surface area of mucosa. these are modifications of mucosa, visible to the naked eye and designed to increase Papillae of the Tongue: Thickly distributed over the Anterior 2/3 of tongue

so only named as vallate papillae. parallel to the sulcus terminalis, theses is are encircled by trench like Furrow(Vallum) 1) Vallate Papillae :- 8 to 12 in number, large in size present in front and

round in shape and appears as bright red spots, 2) Fungi Form Papillae :- More numberous at sides and apex of tongue

apex run transverselv 3) Filiform Papillae: Numerous in number, present at Anterior 2/3 of dor.

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closely set microscopic elivations of corium. 4) Papillae Simplices:- These cover whole of mucosa of tongue, consist of

# Taste Buds (Gustatory Calyculi)

tory cell or lie between them. The substance that should be tasted must be in soluperipheral processes (gustatory hair ) ends at the gustatory pore, nerve fibres enter occupy the central portion of taste bud, spindle shaped with sperical nucleus, the types of cells a) Gustatory cells and b) Supporting cells present, gustatory cells opening between the cells of epithelium by an orifice known as gustatory pore. 2 absent in the mid dorsum of tongue). Broad base resting on corium and its neck tion- Normally saliva acts as solvent. the base of the taste bud, loose their myelin sheath and either invaginate the gustathe epithelium of tongue, inferior surface of palate, oro pharynx etc., (Taste buds These are modified neuro epithelial cells, arranged in flask shaped groups in

# Factors influence the taste Sensation :-

sensation perfectly carried out, if not negligible. 1) Area: If bigger wider area is stimulated, taste

40° c maximum Taste sensation is observed. 2) Temparature :- Taste sensation is modified with temparature - at 30° to

is poor, Taste sensation also poor. 3) olfaction: Taste sensation have link with olfaction, if olfaction sensation

4) Individual variation:- Changes person to person as per their taste preferences.

5) Adaptation :- Taking Tea after eating of Sweets, sweet sensation of Tea

6) Acceptance and rejection of Foods.

Ex: - Sweets mostly accepted, Acid and salts in higher concentration is

# Pathway of Taste Impulses :-

part of post central gyrus of cerebral cortex. of nucleus of tractus solitarius) to posterior ventral nucleus of thalamus, to inferior to facial Nerve, to Geniculate ganglion, to Dorsal nucleus of facial Nerve (Upper part From Anterior 2/3 of Tongue Taste fibres to Lingual Nerve, to Chorda tympani,

# From Posterior 1/3 of Tongue:-

of glossopharyngeal Nerve (Lower part of nucleus of Tractus solitarius) - to posterior ventral nucleus of Thalamus. to inferior part of post central gyrus of cerbral cortex. Taste fibres to glosso pharyngeal Nerve - to petrous ganglion-to Dorsal nucleus

Note :- 1) The General sensation From Anterior 2/3 through lingual Nerve.

adjacent to Epiglottis. branch of Trigeminal Nerve 2) Superior laryngeal Nerve branch of Vagus Nerve supply to the small area

# SOFT PALATE (TALU)

incomplete septum From the middle of its free posterior border which is continuous with palato - pharyngeal from the posterior eagle in rorms an incomplete septum between mouth and pharynx, the Uvula is hanging down Flom incomplete septum between mouth and pharynx, the Uvula is hanging down Flom incomplete septum between mouth and pharynx. The soft palace in the pharyngeal cavity. It Forms the posterior edge of the hard palate into the pharyngeal cavity. It Forms and the posterior between mouth and pharynx. the Uvula is hanging down in the pharyny interior, and the pharyny interior, and the pharyny interior, and the pharyny interior. The soft palate is a flexible musular flap which extends postero inferiorly

# Upper or Dorsal Surface :-

the following structures in between them. epithelium. The soft palate contain double fold of mucus membrane which contains nar ciliated epithelium where as ventral surface is lined with satraitified squamous to the pharynx with palato pharyngeal arches. The dorsal surface is lined with columniate of the pharynx with palato pharyngeal arches. The dorsal surface is lined with columniate of the pharynx with palato pharyngeal arches. The dorsal surface is lined with columniate of the pharynx with palato pharyngeal arches. The dorsal surface is lined with columniate of the pharynx with palato pharyngeal arches. The dorsal surface is lined with columniate of the pharynx with palato pharyngeal arches. The dorsal surface is lined with columniate of the pharynx with palato pharyngeal arches. The dorsal surface is lined with columniate of the pharynx with palato pharyngeal arches. Superiorly attached to the lower border of hard palate and on each side it is attached superiorly attached to the lower border of hard palate and on each side it is attached. median plane, posterior or inferior surface is free margin and contain Uvula centrally, median plane. suface is concave and an elivated smooth ridge named median rephe present at its or Dorsal Survivor .
It is convex and is continuous with the floor of nasal cavity. Lower or Anterior

### A) Palatal Muscles :-

- 1) 2 Levator Palatini muscles (elevates the soft Palate)
- 2) 2 Tensor Palatini Muscles (it make the anterior part of soft palate rigid).

permits swallowing without regurgitation of Food into Nose. etc., posteriorly against posterior pharyngeal wall and shuts off Nasal part of Pharynx thus Note :- By the action of these 2 muscles soft palate is elivated and drawn

- on to posterior part of tongue by that it cuts off mouth against pharynx thus permitting respiration to cotinue during sucking Or chewing). 2) 2 glosso Palatini Or Palatoglossus muscles (Draw the soft Palate inferiorly
- soft Palate From being Forced into pharynx while blowing through mouth. 4) Pharyngo palatini muscle Or Palato Pharyngeous muscle (it prevents the
- 5) Musculus Uvulae (Shortens and tenses the uvula).

# B) Palatal Aponeurosis :-

Thin fibrous lamella not only supports the muscles but also strengthens them.

- C) Palatal Glands.
- D) Arteries :-
- 1) Ascending Palatine from facial artery.
- 2) Palatine branch From ascending pharyngeal, artery.
- 3) Lesser Palatine, branch of descending palatine, branch of maxillary artery.
- 4) Dorsal branches of Lingual artery.
- E) Nerves :-
- 1) Greater and Lesser Palatine nerves From pterigo palatine ganglian.

2) Pharyngeal plexus (Glossopharyngeal + Vagus Nerves

## <sub>HARD</sub> PALATE

and contains a large number of mucous glands, greater palatine vessels nerves and which is lined by straitfied squamous epithelium, its muco - periosteum is much thicker continuous with the alveolar arches formed by two maxillae naso palatine nerves, posteriorly it is attached to soft palate, on either sides it is palate by columnar ciliated epithelium and Lower surface Forms the roof of mouth lined by straitfied squamous palate...... palates of palatine bones. It supper surface forms the floor of the nasal cavity and is Hard palate is formed by the palatine process of two maxillae and Horizontal

### CHEEKS

The cheeks are directly continuous with lips and have 6 (Six) layer they are 1) Skin 2) buccal pad of Fat 3) Bucco pharyngeal Fascia 4) Buccinator muscle. 5) Molar glands 6 ) Mucous membrane.

teeth, and molar glands open into mouth at opposite last molar teeth by piercing buccinator and its facia and enters the mouth opposite to the second upper molar assists in sucking process, parotid duct passes above the buccal pad of fat, pierces Buccinator muscle. Buccal pad of Fat is more in infants to increase the rigidity of cheeks and

cheeks. Buccinator muscle helps in mastication of Food. tion of cheek Naso labial sulcus forms a demarcation line between lips and Zygomaticus major risorius and platysma muscles also come in the forma-

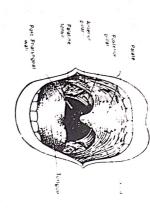
lateral pterigoid to open the mouth. Masseter, Temporalis and medial pterygoid helps to close the mouth and

### PHARYNX (GALA)

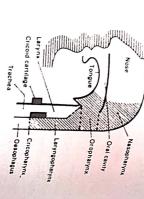
with Oesophagus. Widest part of pharynx corresponds to the level of the base of the of the 6th cervical vertebra (Lower border of cricoid cartilage ) where it is continuous with mucous membrane, it extends from the base of the skull to the level of the body skull about 3.5cm. and narrowest part is at the Oesophageal Orifice about 10.5 c.m. Pharynx is a wide muscular tube, 12 to 14 cm long which is lined throughout

2) Oropharynx 3) Laryngeo pharynx . Pharynx is divided into 3 compartments they are as follows:1) Naso pharynx

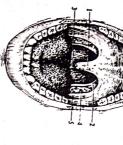
apertures present in its anterior surface, and openings of auditory tubes and tubal rior pharyngeal wall, naso pharyngeal isthmus present at the floor, 2 Posterior nasal posterior to the nasal cavities and septum. pharyngeal busa and pharyngeal tonsils ionsils present in the lateral wall. (adenoids) present in the mucosa and sub mucosa at the junction of roof and poste-1) Naso Pharynx :- Extends from the base of skull to the soft palate, it lies



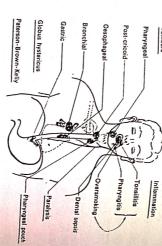
Structures seen on opening the mouth



Three parts of the pharynx

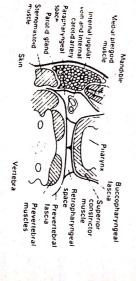


I-uvula, 2-palatopharyngeal arch, 3-posterior pharyngeal wall, 4-palatine tonsil, 5-palatoglossal arch Oropharynx:



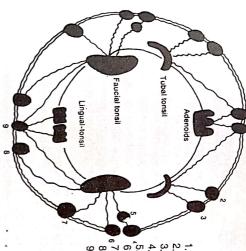
ABSCESS

Causes of dysphagia.



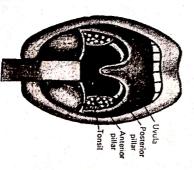
Retropharyngeal and parapharyngeat spaces.





Retropharyngeal
 Styloid

- 3. Lateral pharyngeal
  4. Behind sternomastold
  5. Bifurcation of cartold
  6. In front of sternomastold
  6. Thought of jaw (Jugulo-diagastric)
- 9. Sub-mental 8. Hyoid



Examinagtion of the tonsils

Acute peritonsillar abscess



through oropharyringed wall in between palato glossal and palato pharyngeal cervical vertebrae in the lateral wall in between palato glossal and palato pharyngeal and inferiorly with ray rispersion, posterior wall lies opposite the second to Fourth through oropharyngeal isthmus, posterior wall lies opposite the second to Fourth vertebrae, superiorly in the second to real stimus and inferiorly with laryngopharynx. Anteriorly having communication with Oral carry and inferiorly with laryngopharynx. Anteriorly having communication with Oral carry and inferiorly having carry and inferiorly having carry and inferiorly having carry and inferior with Oral carry and inferiorly having carry and inferior with oral carry and inf 2) Oropharynx: It lies opposite the level of the second to fourth cervical

tic fold and by piriform fossa. rior wall is formed by larynx. Lateral wall is formed on each side by pharyngo epiglot wall lies upprove and dorsal wall of Oesophagus below, ventral wall Orante, wall of Oropharynx above and dorsal wall is formed on each side hyphagus. wall lies opposite 5th and 6th cerrvical vertebrae and is continuous with the dorsal wall of Oesophagus below, ventral wall of Oesophagus below, ventral wall of Oesophagus below. with Oral patron with receiving and set cervical vertebra. Dorsal wall or Posterior border of cricoid cartilage, opposite the 6th cervical vertebra. Dorsal wall or Posterior border of cricoid cartilage, opposite the 6th cervical vertebrae and is continuous with the osterior with Oral part of the pharynx and below with the Oesophagus at the level of the lower 3) Laryngo Pharynx:- The laryngeal part of the pharynx is continuous above

brane 2) Sub-mucosa 3) Pharyngo basilar fascia 4) Pharyngeal muscles 5) Bucco Pharyngeal Wall :- The wall of Pharynx contain 5 layers 1) Mucous mem-

ryngeal muscles and pharyngo basilar fascia covers the internal surface of pharyn-Bucco pharyngeal fascia covers the external surface of buccinator and pha-

rior), stylo pharyngeus, Salpingo pharyngeus and palato pharyngeus musices. The musices of pharynx are 3 constrictor muscles (Superior middle and infe-

braches of maxillary artery. cending palatine and Tonsilar branches of facial. greater palatine and pharyngeal Blood Supply ;- 1) Ascending pharyngeal branch of external corotid, As-

nerves. External and recurrent laryngeal nerves. Nerve Supply:- Pharyngeal plexus formed by glossopharyngeal and vagus

# LARYNX(SWARA - YANTRA)

belly of Omohyoid, sternothyroid and thyrohyoid muscles. surface of Laryngo pharynx, on either sides it is related to the sternohyoid, superior it is covered by skin, superficial fascia, deep fascia and posteriorly related to ventral trachea. Superiorly it open into laryngo pharynx and inferiorly into trachea. Anteriorly lage - opposite the level of 6th cervical vertebra where it becomes continuous with passage and Extends from the root of the tongue to the lower border of cricoid carti-The larynx is the Organ of Voice, Forms the upper part of the respiratory

### Measurements :-

· K	Posicio Diameter.		rse Dia motor	-ength	
218	36 mm	43 mm	44 mm	Male	
	26 mm	41 mm	36 mm	Female	

cartilages, they are as follows which are connected with ligaments and membranes. The structure of larynx contain 9 cartilages ,3 paired cartilages and 3 single

s Single Cartilages  1) Thuroid Cartilages	Paired cartilages Arytenoid Cartilage
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### 300 Corniculate Cartilages

# **Cuniform Cartilages**

### 2) Cricoid Cartilage3) Epiglottis.

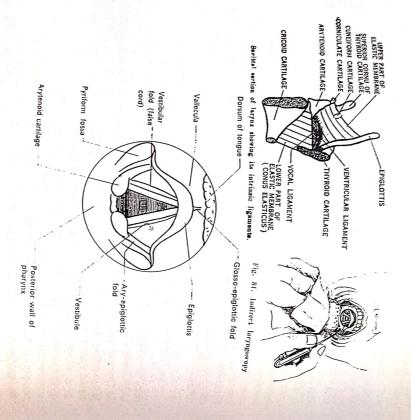
surface of epiglottis is known as Tubercle. tongue by Glosso epiglottic fold, sides by Pharyngo epiglottic Fold and to the lower part of lateral border is attached to Ery epiglottic membrane. Upper part of lingual surface and posterior laryngeal surface). Upper border is free and convex, of larynx. It consists of upper Lower and 2 lateral borders and 2 surfaces (Anterior concave at sides and concavo convex from above down wards. The convex lower Hyoid bone by Hyo epiglottic ligament, Posterior surface or laryngeal surface is anterior surface is free but lower part of anterior surface is attached to the Dorsum of thyroid notch by Thyro epiglottic ligament. Upper part of lateral borders is free but Lpwer border is attached to posterior surface of thyroid cartilage a little below to It is a leaf like thin cartilage present in between the base of tongue and inlet

### Thyroid Cartilage :-

thyro epiglotticus and vocal muscles. The angle gives attachment to Thyro epiglotsurface gives attachments to Vestibular and Vocal ligaments. Thyro arytenoideus gives insertion to sternothyroid, thyrohyoid and inferior constrictor of pharynx. Inner gives attachment to crico thyroid membrane and muscle. outer surface (lateral) hyoid membrane . inferior horn articulates with cricoid cartilage. Inferior border tain superior and inferior horns. Superior horn articulates with Hyoid bone by Thyro as Thyroid notch. The cartilage is convex anteriorly and concave posteriorly. It conprominence (Adam's apple). Superiorly two lamina forms V shaped notch known riorly to form an angle and makes a sub cutaneous prominence known as **laryngeal** tic ligament. It is the largest of all cartilages, Consists of two lamina which are fused ante-

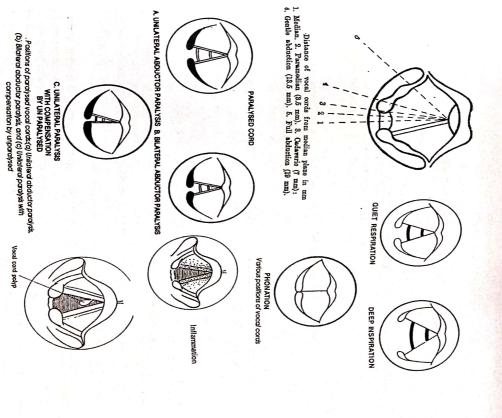
quadri lateral plate posteriorly and an anterior arch by which it resembles signet ring. der forms the lowest limit of larynx and becomes continue as trache. It consist of Chicoid Cartilage :- It is situated below the thyroid cartilage. its lower bor-

dinal fibres of Oesophagus., on either sides gives Origin to crico arytenoideus postelateralis arises and the lower border is attached to trachea by Crico tracheal ligaporder towards the anterior surface cricovacal membrane and crico arytenoideus ynx and From the junction of 2 surfaces inferior horn of thyroid articulates . In Upper rior. Anteriorly on either sides crico thyroideus, posteriorly inferior constrictor of phar-In posterior surface a vertical ridge present that gives attachment to longitu-



The Larynx on mirror examination (indirect laryngos-





Arytenoid Cartilage :-

posterior part of the larynx, pyramidal in shape and consists of 3 surfaces a base and toid Cartilage:

These are placed at the upper border of larmina of cricoid cartilage on the

lateralis are attached. The Medial surface is smooth and covered by mucous mem. vestibular ligament and to the lower area vocal ligament and crico Arytenoideus Antero Lateral surface is convex and contain irregular ridges, to the upper area lage Posterior Surfaces is concave and is covered by Arytenoidues transaversus, that gives attachment to vocal ligament. The Apex articulates with corniculate cartiposterior from behind. Anteriorly a short process known as vocal process present in vocal ligament. The Apex articulates with coming the present in vocal ligament. ally gives insertion for crico arytenoideus lateralis in front and crico arytenoideus ally gives insertion for crico arytenoideus a short process known as vocal process. The Base articulates with the upper border of lamina of cricoid, postero later.

# 4) Corniculate Cartilages :-

the Ary epiglottic fold being placed at the Apex of arytenoid cartilage. These are two small conical nodulesof Yellow elastic cartilage present within

## 5) Cuniform cartilages :-

Ary epiglottic fold, superio lateral to the corniculate cartilages. These are also two small nodules of Yellow elastic cartilage contain within

# Cavum Laryngis (Cavity of Larynx )

border of the cricod cartilage where it communicates with trachea. It extends from laryngeal inlet (Communicates with pharynx) to the lower

the portion below the vocal folds is lower sub division. division, the portion in between vestibular and vocal folds is middle sub division and are vocal folds. The portion in between inlet of larynx and vestibular folds is upper the upper pair of mucous folds are vestibular folds and the lower pair of mucous fo<mark>lds</mark> It is incompletely divided into 3 compartments by two pairs of mucous folds,

secretions by which larynx always kept lubricated. vestibular fold and thyroid cartilage that contain numerous glands which pour out folds is known as sinus of the larynx, The saccule of larynx present in between the packet like sinus on the lateral wall of the larynx between vestibular and vocal as Rima Vestibuli and the fissure in between 2 vocal folds is known as Rima glottidis, In the middle sub division, the fissure in between 2 vestibular folds is known

lenght of vocal folds 2.5 cm than female. 1.7 cm.) are produced. (lower range of pitch in the male voice than female due to greater pitch sounds are produced and when two vocal folds are abducted low pitch sounds and form during phonation and respiration. When two vocal folds are adducted high Rima glottidis is the narrowest part of larynx and fissure changes its shape

Muscles of Larynx:-

a) Extrinsic Muscles:- These concerned with upward and down ward

1. Supra hyoid for elevating the larynx and trachea.

2. Infra hyoid for depressing the larynx and trachea.

b) Intrinsic Muscles :-

Regulates the condition of Rima glottidis.

1. Adductors of Vocal folds (closure of glottidis )

A) Crico arytenoideus lateralis.

B) Arytenoideus transversus.

C) Crico thyroid.

d) Thyro arytenoid.

2) Abductors of Vocal Folds (Opening of glottidis)

A) Crico arytenoidei posteriores.

3) Tensors of Vocal Folds.

A) Crico thyroidei muscles.

4) Relaxation of Vocal Folds

Thyro arytenoidei and Vocalis muscles.

Closure of inlet of larynx.

Oblique arytenoids.

6) Widening of inlet of larynx

Thyro epiglotticus.

### Blood Supply:-

into superior and inferior thyroid venis respectively. and inferior thyroid artery respectively). superior and inferior laryngeal veins opens Superior and inferior laryngeal arteries (Branches of superior thyroid artery

Nerve Supply.

Motro Nerve Supply :-

thyroideus which is supplied by external laryngeal nerve branch of superior laryngeal internal laryngeal Nerve branch of superior laryngeal Nerve.) Nerve. (Arytenoideus having double nerve supply a) Recurrent laryngeal Nerve and The recurrent laryngeal Nerves supply all the muscles of larynx except crico

SENSORY NERVE SUPPY :-

Below the Vocal Folds By :- Recurrent laryngeal Nerve. Above the Vocal folds By :- Internal laryngeal Nerve.

# MUKHA ROGA VARGEEKARANA Classification of diseases of Mukha.

Mukha is formed by the combination of following

7 parts.

(Paris: 1) Osta (Lips) 2) Dantha moola (Gums) 3) Dantha (Teeth) 4) Jihwa (Tongue) 5) Talu (Palate) 6) Gala (Throat) 7) Mukhadi (the total)

# CLASSIFICATION OF DISEASES OF MUKHA 1) Accreding to sushrutha Mukha Rogas 65

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		2,	WALM IS END	*XADO SHE	Contraction of the Contraction o	Disable of the state of the sta	Jihwa roga (Seassas o	Cartha roga (diceases of	Dantha Moola (diseases of g		Si. No. Affected part	5 4	 © D
			HAPA.	SALE	SHE TOPE STREETS OF TROSE,	Displaces of palete)	University of longue)	Dantha roga (diseases of leeth)	Dantha Moola (diseases of gums)	Osta roga (diseases of Lips)		Charaka Sarangdhar	vegoricle Bhava Mishra and yoga ratnakar
	*	and the second	All the second	63	2	60	en	00	25	œ	Sushrutha		na .
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	75				6	0	0	70	13	=	Vagbhat		
	1	1				1	1	1	1		1		

# 1. वातिक ओष्ठ-प्रकोप

कर्कशो परुषो स्तब्धो कृष्णौ तीव्ररुगन्वितौ। दाल्येते परिपाट्यते ह्योष्टौ मास्तकोपत:॥

ओध्वकोपे तु पवनात् स्तब्धावोष्टौ महारूजौ। दाल्येते परिपाट्यते परुषासितकर्कशौ॥

तत्र खण्डीष्ठ इत्युक्तं वातेनौष्ठौ द्विधाकृत:॥

# 2. पैत्तिक ओष्ठप्रकोप

आचितौ पिटकाभिस्तु सर्पपकृतिभिर्भृ शम्। सदाहपाकसंस्नावौ नीलौ पीतौच पिततः॥

पित्तात्तीस्गसहौ पीतौ सर्षपाकृतिभिश्चतो। पिडिकाभिर्बहुक्तेदावाशुपाकौ

# ३. कफन ओळप्रकोप

सवर्णीभरतु चीवेते पिडकाभिष्वेदती। कण्डूमतौ कफाच्चृतौ पिच्छिलौ शीतलौ गुरू॥

शीतासही गुरू शूनी सवर्गापीटकांचती

# 4. सानिपातिक ओष्टप्रकोप

सङ्त् कृष्णी सङ्ग्त् पंती सङ्ग्च्येती तथैव च। पनिपातेन विज्ञेयावनेकीपडकविती॥

र्धनपतारनेकाचै दुर्गमानविषेक्यते। अकस्मान् पतानवेशुन्तने विषमाकिने।

(মু॰ নি॰ ३४॰ 16/5)

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5. रत्तदृष्ट ओछप्रकोप रकंपसृष्टौ र्राघरं स्ववतः शोणितप्रभौ॥ वर्त्रफलवर्गीभः पिडकाभिः समाचितौ।

रचेपमुध्ये रुधिरं स्वतः शोषितप्रभौ॥ शर्वासदृशं चात्र क्षांने रक्ष्वंदं भवेत्॥

6. मेर्रेट्ट ओच्डप्रकोप

अन्त स्कटकमङ्गरमात्राव तवता गुरू॥ मेटसा घृतमणडाभौ कण्ड्रमतौ स्थिरौ मृद्र।

र्तलाभश्वयगुक्रतोदों सकण्ड्वों मेदसा मृदु॥

7. मांसदृष्ट ओळप्रकोप

बत्वधात्र मुच्छति सुक्कस्याभयतो मुखात्॥ मांसिपण्डौ गुरू स्यूलौ मांसिपण्डवदुद्गतौ।

8. क्षतन वा अभिघातन ओष्ट्रप्रकोप

ग्रथितं च समस्याताबाटो कण्ड्समन्ति॥ अतवामी विद्यंचेत पाट्येते चाभिष्यतत:।

बलबुद्बद्बद् बातकफाटोछे बलाबुंदम्॥

गण्डसम्-गण्डालजा

गण्डातनी स्थिरः शोफो गण्डे दाहन्वरान्वितः॥

(सुः निः अ 16/9)

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(世帝命16/11)

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(सु नि क 16/10)

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# Osta Rogas (Diseases of Lips)

rogas are 11, They are as According to sushrutha Osta rogas are 8 and according to Vagbhata osta

A) Sushrutha's Classification (8 Diseases)

1) Vataj Osta Prakopa (cracked Lips)

2) Pittaj Osta Prakopa (herpes labialis - aphthous ulcer)

3) Kaphaj osta Prakopa (Herpes Labialis)

4) Rakthaja Osta Prakopa (Lip granuloma)

6) Mamsaja Osta Prakopa (Epithelioma of Lips) 5) Sannipathaja Osta Prakopa (aphthous ulcer-carcinoma)

7) Medoja Osta Prakopa (Hypertrophy of Lips)

8) Abhighataja Osta Prakopa (Hare - Lip)

B) Vagbhata's Classification. (11 Diseases)

1 to 8 diseases are same as above, and the additional 3 diseases are.

Khandausta (hare-lip)

11) Grandhi (Cyst in lip) 10) Jalaarbuda (Soft Cyst in lip appearing like water bubble)

3, Osta rogas - 1) Sannipathaj 2) Mamsaj 3) Rakthaja osta Prakopa are Asadyam)

# 1) VATAJA OSTA PRAKOPA (CRACKED LIPS)

crackings Or Fissures (Sputanam). This condition also visible in cold wind expothe following differences are there. named as Khandausta", and "In abhigathaj Osta Prakopa also lips bifurcates but sure, infection and injury. " If osta (Lip) is bifurcated by the vitiation of Vata it is rough (Parusha), stiff (stabda), blackish (Krishna varna), Painful (Atiruk), and with Vata dosha vitiates and Osta (Lip) becomes stony hard (Karkasha),

Vataja Osta Prakopa

Abhighataj Osta Prakopa

2) No history of injury 1) Only vata vitiates

> History of injury present Vata - Kapha and raktha vitiates

reatment of Vataj Osta Prakopa:-

Yastimadu + Lodhra + Sariba + Shravani + Neelothphala + Patola + Kakamachi + tailam. 1) a) Abhyanga :- with chathur snehas + madooschista (wax) and also with

Ex. ( Erenda Patra + Ksheera - Pakwa Kashaya). 2) Nadi Sweda :- With vata Hara dravya Kashaya.

1) upomata sweda > (Sabidha Swedam )

4) Shiro Wasti > With Vera hara halia

5) Wasya > with vera hara halia. Ex > 1 Sala halia.

5) Wasya > with vera hara halia. Ex > 1 Sala halia.

6) Vashmanuvaci halia. 3 Kavolyaci halia. enc.

6) Prathisarana: with a Sarala mirjass - Sarjanasa - Devada - 900000

7) Washmanu (for occal application.) b) Talia + 9ththa - Sanja hasa + Rasia application.

7) Internal Yogas > Ghithaparia. mamsa rasa sevena, shotha hara, shoula be used than Kinnigma. Verhagina and vrana roparia yogas should be used than Kinnigma. Verhagina and vrana roparia yogas should be used than should pupput. Or Tromale guggutu. 2) Gandak rasayan 3) Maha

# 2) PITTAJA OSTA ROGA:

Perses Labella Or simplex, aprillous closely

Pitta dostra witates and small papules (Pincas) resembling sanshapa beeja Originates on lips. Lips become bluish Or Yellowish and associate with daha (burning sentiation), pake (ulcaration), shawa (discharge) and the patient is unable to eat Kabwitata drawyas (besires cold applications).

### TEL THE T

\*For Pittaja - Rakithaja and Abhighataja Osta Prakopa treatment is similar 1. Pitta dosha hara chikosa. 2) Like the treatment of pittaja vidradi. 3) Jalaukaavacharara to remove impure blood (blood letting process) 4) Abhyanga (Massaga) with ghritha Prepared from Giloya + Yastimadu + Chandan + ghritha 5) Prathigarana - Lodra + sarja rasa + Machru + Yastimadhu (Local application) 6). Sheetala, vrana roparra, and Rakiha pitta hara Chikitsa should be given. 7) Internal Yoga - Daha shamana, shotha hara, Pitta rakitha hara, Vrana hara and Krimighna Yogas should be given.

Ext. 1) Triphala guggulu

2) Lagu sootha sekara ras, tabs

3) Chandanasay or usheerasay

4) Sarvadyarsta

# 3) KAPHAJA OSTA PRAKOPA

Kapha vitlates and exhibits same coloured, small papules on the lips, lips become cedematous, heavy, sticky pain less, with itching sensation, cannot bear cool touch and discharges sticky. Cool and thick fluid from the lesion if piticas get suppurate.

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Treatment v

1) Kapha hara chikitsa 2) Raktha Mokshan 3) Shiro virechana 4) Kapha hara choorta pana 5) Swedana 6) Kavala or Gandoosha (with kapha hara decoctions) , 1) Pratisaran - Trikatu + Sarja Kshara + Yava kshara + Voalavana + madhu.
3) Internal Yogas (Shotha hara, shoola hara, krimighna and Kaphagna ).

a) Kanchanara guggulu Or Triphala guggulu

b) Trijethakedi VatiOr Levengedi Veti or Kepha hara Veti
 c) Sartiva Or Manjista Or Khadhira Asava Or Arista.

# 4) SANNIPATHAJA OSTA PRAKOPA

Aphthous-ulcer Carcinoma of lips ).

Tridoshas vitiate the lips and lips dispoloured into black Or Yellow or white, multiple papules erupt on the lips, discharges sticky foul fluid from the lesion and associate with severe pain. Swelling, ulcer may develop Or may not develop, the signs and symptoms are very irregular and uncertain.

### Treatment >

It is Asadya Wadhi, but can be tried with Tridosha hara Chikitsa

# 5) Rakthaja Osta Prakopa :-

### (Lip Granuloma)

The Raktha dosha vitiates and manifest the papules resembling the colour of Kharjura Phala, the papules bleeds and red turnour develops on lips.

### Treatment:

Asadya Vyadhi, but can be tried Like Pittaja osta Prakopa. (Raktha Mokshan - shodhan - Shaman Chikitsa )

# 6) MAMSAJA OSTA PRAKOPA (Epithelioma of Lips )

The flesh of lips vitiates (Mamsa Vikruthi ) and exhibits hard stout inflammed lips and maggots (Krimi) produced from the angles of mouth.

Treatment:- It is Asadya vyadhi But According to Modern science: excision and radio therapy. is the choice of treatment.

# 7) MEDOJA OSTA PRAKOPA (Macrochelia Or herpes Labialis Or Hypertrophy of Lips )

It is due to vitiation of medo dhathu in which lips become stout, soft, heavy, sticky, with severe itching sensation and discharges thick fresh fluid resembling Ghritha manda (the upper fresh part of ghee when dissolved) Or spatica.

Treatment :- 1) Ruksha swedam 2) Bhedana and Medo nitharana 3) Shodhana 4) Agni Karma 5) Pratisarana - with priyangu + Triphala + Lodra + madhu.

### 8) KSHATHAJA OSTA PRAKOPA (Hare lip)

It is due to injury to lips in which cracking Or fissures Or bifurcation of lips takes place. It associates with pain and itching sensation.

Treatment: 1) Like pittaja osta Prakopa. If injury is deeper.

Lekhana and Seevana has to do (Osta sandhana by suturing).

# 1) KHANDAUSTA (BY VAGBHATA).

It is due to vata vitiation in which the lips bifurcates.

Treatment :- a) Medical treatment b) Surgical treatment. a) Medical Treatment :- 1) Vata hara Chikitsa , 2) Vataja osta prakopa chikitsa.

b) Surgical treatment :- 1) Sneha 2) Sweda

+ Kamala + Patola + Kakamachi + Taila) Yastimadhukadi talla (Yastimadu + Jyothismathi + Lodhra + Mundi + sariba 4) Sevana Vidhi :- 5) Pratisaran :- Application of Shata dautha ghritha Or shastra to have bleeding surfaces for proper healing after suturing. 3) Lekhana :- The bifurcated surfaces should be scrated with vreehi mukha

6) Bandhana (bandaging ) 7) Vata hara shamana taila nasya

2) GRANDHI (CYST)

associate with itching sensation. The Vitiated kaphadi doshas produces a cyst on lips known as grandhi, it

### (Cyst in the lips) 3) JALAARBUDA

bubble appears on the lips, known as jalaarbuda. It is due to the vitiaton of Vata and Kapha in which a cyst resembles water

should be done for. Vrana ropana. and prathisarana (Katuki, shunti Kaseesa, Kshara, lavan, Pippali, maricha, + madhu) a) If the cyst or abscess is superficial (utthana) :- Bhedhana -dosha nirharana

should be done. GANDALAJI b) If the cyst Or abscess is deep rooted (Gambheera) Kshara and Agni karma

with fever and burning sensation. swelling (Sthira shopha) developes inthe Cheeks (ganda Sthala), and it assoicates It is a single disease develops in Ganda sthala in which an immobile cyst Or

Freatment :-

(Cellulitis of the Cheek.)

1) Vrana hara Chikitsa. (Vrana shopha Chikitsa should be given.)

SI. No.	Name of Disease	Vitiated dosha	Signs and Symptoms	Treatment Principle.
1.	Vataj Osta Prakopa (Cracked lips)		Lips become hard rough stiff painful blackish & with crackings.	Osta abhyanga 2) Sweda 3) Pratisarana     Shirovasti 5) Snehan Nasya.
2.	Pittaja Osta Prakopa (Herpes Labialis)		Bluish Or Yellowish papules resemblir Sarshapa beeja appears on lips, associate with burning sensation, ulcers and patient desires cool applications.	ng 1) Pitta, or Raktha, or Vidradi Chikitsa has to give 2) Raktha Mokshan 3) Sheeta lepa.
 33.	Kaphaj Osta Prakopa (Herpes labialis)		Lips and the lips become stout neavy sticky with itching sensation.	1) kaphahara Chikitsa 2) Raktha mokshan 3)Teekshna Pratisaran 4) Kavala.
4.	Sannipathaja Osta prakopa (Aphthous ulcer, carcinoma)	Tridoshas	Lips are spread with middle person appears in black or Yellow Or white, symptoms are irregular and uncertain.	Asadya.
5.	Rakthaj Osta Prokopa (Lip granuloma)	, torterior	Red coloured papules resembling a phale erupts on lips, bleeds and a red tumour develops on lips.	Asadya.
6.	Mamsaja Osta pra- Kopa (Epithelioma of lips)	Mamsa.	Hard stout inflammed lips with maggots at the angles of lips.	Asadya.

	No. Name of Disease	Vitiated dosha	Signs and Symptoms	
7.	Medoja Osta Prakopa (Hyper trophy of lips)			Treatment Principle.  1) Ruksha sweda 2) Bhedhan
8.	Kshataja osta Prakopa (Hare lip)	Abhighata	Fissures or cracks appear on lips due to injury and associate with pain burning sensation	1) Pitta hara chikitsa 2) Lekhana 3) Sagyana
9.	Khandausta		NAL 3 DISEASES OF LIPS- BY VAGBHA	4) Fratisarana 5) Bandana
10)	(hare Lip)  Jalaarbuda	Vata Kart	Lips bifurcates - assoicate with pain and burning sensation.	1) Pitta hara Chikitsa 2) Lekhana-seevana-Bandhana
	cyst )	Vata, Kapha	A cyst resembling water bubble appears on lips.	Bhedhan and malanirharan     Kshara karma 3) Agni Karma
11.	Grandhi (Cyst)	Kapha	Cyst. erupt on lips due to the vitiation of Kaphadi doshas	1) Sneha 2) Sweda 3) Chedan 4) Pratisaran.

233	आघरिटताः प्रस्नवित्त शोणितं मन्दवेदनाः। आध्मायन्ते स्रुते रक्तेमुखं पूति च जायते॥ यस्मिन्नुपकुशः स स्यात् पित्तरक्तकृतो गदः	4. उपकुश बेष्टेषु दाहः पाकश्च तेभ्यो दत्ताश्चलन्ति च॥	उ. ५ तन्य प्रस्ति । स्रवित प्रयसिधरं चलदत्ता भवित च। दत्तवेष्टः स विज्ञेयो दुष्टशोणितसम्भवः॥		दन्तयोस्त्रिषु वा शोफो बदरास्थनिभो घन: कफास्नात्तीव्ररुक् शीघ्रं पच्यते दन्तपुप्पुट:।	<ol> <li>दन्तपुप्पृटक या दन्तपुप्पुट दन्तयोस्त्रिषु वा यस्य श्वयथूः सरुजो महान्। दन्तपुप्पृटको ज्ञेयः कफरक्तनिमित्तजः॥</li> </ol>	शीतादोसी –	श्लेष्मरकेत पूर्तीनि वहन्त्यसमहेतुकम्॥ शीर्यन्ते दन्तमांसानि मृदुक्लिनासितानि च।	1. शाण्यः शोणितं दत्तवेष्टेभ्यो यस्याकस्मात् प्रवत्ते। दुर्गन्धीनि सकृष्णानि प्रक्लेदीनि मृदूनि च॥ दत्तमांसानि शीर्यन्ते पर्चन्ति च परस्परम्। शीतादो नाम स व्याधिः कफशोणितसम्भवः॥	दन्तमूल गत रोग
	(মু॰ নি॰ अ॰ 16/21,22)		(মু॰ चি॰ अ॰ 16)	(अ॰ ह॰ उ॰ अ॰ २१)	(सु॰ नि॰ अ॰ 16/16)		(अ॰ हृ॰ उ॰ अ॰ २१)	(सु नि॰ अ॰ 16/14,15)		

ब्ह्या स्टब्बो दत्वाः भूतवक्तं च वास्तो। कृष्टित वर्षक्र अववस्था स्थित द्वनंस्रातं दहनं रक्ष्यंस्थरत्वाः। उन्हमः पक्तः नितासुद्भवः

५ दत्तवद्रभ

ष्ट्रेठ्य दत्तर्रात्यु संस्मा वानतं महान्॥ भवति च चला दताः स वद्भाभिवतवः।

वृत्स्रक्षत्रीत दक्षण्य स विद्भागिनवातवः। वृष्ट्युं दत्त्वांस्युं संस्थां चावतं महान्॥

(अहर क करश)

(अर कु उ क २१)

7. अधिमांस

बायामनिवस्य दने, जाते तत्र तु शास्यति॥

द्वाधिकांधिद्वास्त्रः स चोक्तः खलु वर्धनः। वधनः स मतो व्याधिकातं रुक् च प्रशान्यति।

मार्त्वचारिकादनो जानते तीव्रवेदनः।

दनमूल्यताः नाह्यः पंच हेवा ववेरिताः॥ लालावार्व कफकृतं विज्ञेयः सोधिमांसकः। हानव्ये पश्चिमे दन्ते महांछोथो महारुन:॥

प्रतिहन्यध्यवद्यति श्लेष्मणा सोधिमांसकः। दनाने कीलवच्छोफो हनुकर्णरूजाकर:॥

(सु नि अ 16/25,26)

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(अ ह उ अ २१)

s. शंबिर वा सुषिर

स्वयुदन्तमुल्यु रुवावान् कफरक्तवः तालालावी स विज्ञेयः कण्डूमान् शोषिरो गदः॥

श्चयधुद्त्तमूलपु रुजाबान् पित्ररक्रजः॥ लालास्त्रानी सं सुषिरो दन्तमांसप्रशातनः।

(सु कि अ 16/18)

(अक्र क अक २१)

(अह हा क वह रूर)

9. महाशोषिर

दत्ताश्चलीन वेध्येभ्यस्तालु चाप्यवदीयते। द्त्तमांसानि पच्चते मुखं च परिपोड्यते॥ र्यास्मन् स सर्वजो व्याधिर्महाशोषिरसंज्ञकः।

(सु<sup>6</sup> कि क 16/23)

महासुषिरमित्युचे विशीर्णोद्वज्वन्थनः। स सन्पाताज्जवरवान् सपूर्यरुचिरस्रुति:॥

(要 帝 अ 16/19)

(अक्र क अ २१)

पित्तासृक्कफजो व्याधिईवः परिदरो हि सः। दन्तमांसानि शोर्यन्ते यस्मिन् छीवति चाप्यसृक्॥

11 से 15) दत्तनाड़ी

यो वा व्रणं प्रचुरपूर्यमसाध्वृत्तः। शोफं न पक्विमिति पक्वमुपेक्षते यो स्थानानि पूर्वविहितानि ततः स पूरः॥ अभ्यन्तरं प्रविशति प्रविदायं तस्य नाडीव यद् वहति तेन मता तु नाड़ी। तस्यातमात्रगमनाद् गतिरित्यतश्च

(퓻 ゔ 와 16/20)

(सु नि अ 20/9)

### DANTHA MOOLA VYADHIES Diseases of Gums.

(A) According to sushrutha 15 diseases.
(B) "Bhavamishra 16 diseases
(B) "Saranghadhara 13 disease Bhavamishra 16 diseases.

Saranghadhara 13 diseases.

They are as follows :-

# A) SUSHRUTHA'S CLASSIFICATION - 15 DISEASES

Sheethada (Spongy gums or Bleeding gums )

2) Dantha Pupputaka (Gingivitis - Gumboil-Alveloar abscess) Dantha Vestak (Pyorrhoea alveolaris)

Upakusha (Pyorrhoea alveolaris - stomatitis)

Dantha Vydarbha (Allergic gums)

Vardana (Extra tooth eruption)

Adhimamsa (Impacted wisdom tooth)

8) Saushira (Apical abscess or Gingivitis)

Maha Saushira (Concrum Oris)

10) Paridhara (Concrum Oris-Gangrenous stomatitis)

11) Vataj Dantha nadi (Sinuses of gums)

13) Kaphaj 12) Pittaj -do-

15) Abhighataj 14) Sannipathaj -do--do-

## B Bhavamishra's Classification - 16 Disease.

1 to 15 - same as sushrutha and the additional 16th disease is **Datha Vidradi**.

## O Vagbhata's Classification - 13 Diseases.

3 diseases are not explained by vagbhata from the above classification (16-3=13), The omitted 3 diseases are 1) Dantha Vestak 2) Vardhana.

Rest of the Classification is as like above.

Among the diseases of gums.

2 diseases are asadya, they are

1) Sannipathaj Danthanadi 2) Saushira.

may also Asadya like saushira - and Bhoja said "maha saushira " is Tridoshaja and Note:- Maha saushira is more complicated than saushira, so maha saushira

### 1) Sheethaada :-

# Spongy gums Or Bleeding gums.:-

following abnormal changes are manifested. It is a diseases in which Kapha and Raktha doshas vitiate the gums and the

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1) Gums become soft 2) bleeding from gums. 3) blackish dis colouration with

gums are destructed Or emaciated. accumulation of debris on gums 4) foul smell from mouth 5) Severe pain and finally are destructed Or emaciated.

gic changes in gums (allergy to tooth paste, very hot or cold liquids.). gienic conditions, improper brushing of teeth and improper mouth wash etc 3) aller-(Scurvey), 2) Injury to gums due to recurrent Oropharyngeal infections, Oral unhy-This condition is commonly observed due to 1) Vitatmin-C, defficiancy

### Treatment :-

General Principle :- Swedana, Raktha mokshana, pratisarana, Gandoosha

behind Raktha Mokshana is to remove impure blood from the affected area. gums are rubbed with coarse powders (Dantha gharshana choorna). The main idea 1) Rakthamokshana :- Alabu and Gati are commonly used Or jalauka or

# 2) Pratisarana yogas (Application of Medicine to the lesion)

saindhava lavana, musta + honey.e) Lavana and Sarshapa taila as tooth powder. Madhu (Pratisarana Or Kavala).d) Dadima twacha, Triphala, rasanjan, shunti, Shunti, Rasanjan + Madhu.c) Kaseesa Lodra Pippali Manashila Priangu Tejohwa + a) Priyangau Triphala and musta.b) Musta, Arjuna twacha, Triphala, Priyangu,

# 3) Gandusha Or Kavala Ghaha.

Gandoosha should do with the decoctions of

and parpataka . c) Vataghna taila and ghritha . d) Ksheeri Vruksha Kashaya e) Shunti, Sarshapa, Triphala. Musta. and rasanjan. f) Babbula twak kwatha. a) Musta, Arjuna twacha, Triphala, Priyangu, Rasanjan, and shunti.b) Shunti

assoicates :- Triphala ghritha Nasya. Triphala taila nasya. (yastimadu, utphnala padmaka triphala + taila) c) If Raktha a) If vata is associated snehana nasya, b) If kapha associated madukadi

## Internal Yogas :-

the inflammation of gums. analgesic drugs 3) Lagu suthasekara ras, tabs (Anti allergic) 3) Sarivadi vati Or ex 1) Triphala guggulu, Kanchanara guggulu Lakshadi guggulu etc. Anti inflammatroy Trijathakadi vati Or Khadhiradi vati (mukha shodhana ) etc ; are very useful to reduce Shoola hara, shotha hara, Raktha stambana, vrana ropana yogas should give

use for dantha dhavana.) Note: (Brushing should be avoided and Fine powders of Tiktha Kashaya ras should

# 2) DANTHA PUPPUTAKA

(Gingivitis - gum boil- alveolar abscess)

and Oedema (hard cystic swelling resmbling Badari Phala ) in 2 or 3 gums (root of teeth) and suppurates quickly. It is a disease in Which the kapha and Raktha dosha vitiate and cause pain

Treatment :-

According to Sushrutha .

a Shiro Virechan (Pratisarana) According to Susmanners application of Kshara, pancha lavana and Madhu 1) Raktha mokshana then application of Kshara, pancha lavana and Madhu Kavala 4) Snigda bhojana

<u>B</u>) According to Vagbhata :-

Sneha, Swerer, Communication and saindhava Lavana to the affected area. Sneha, Sweda, Chedan, or Bhedan, or Lekhana, Then application of

O Modern :-

tooth, incision and drainage to irrigate of pus (Bhedan) and anti inflammatory treat. ment should be given. If gum is totally infected and root of the tooth also effected, extraction of

### (Pyorrhoea alveolaris ) 3) DANTHA VESTAK

It is due to Raktha vitiation in which the root of the tooth is infected impure

blood and pus discharges, and leads to destruction of the root of tooth following tooth

bris at the neck of the tooth, causes infection and leads to above condition.) (Foul breath, coated tongue, Pigmented teeth, (tartars) and collection of de-

Raktha mokshana.

with Luke warm water 9) Raktha and pitta hara Chikitsa should be given. Chewing. 8) Irimedadi taila or sarshapa taila, application to the gums then gargling 6) Swetha manjan & Dashan samskar choorna for brushing 7) Khadhiradi vati for Nasya:- with medicated ghee prepared with Kakolyadi dravya, Dashaguna Ksheera, Local application . 4) Gandoosha :- Ksheeri Vruksha Kashaya + Honey + Ghee. 5) Lodra Yastimadu,Laksha, Chandan + Honey. 3) Arogya vardini vati with cow milk -2) Prathisarana: - Local application of the medicated powder prepared with

### 4) UPAKUSHA

(Pyorrhoea alveolaris - stomatitis.)

smell (from mouth), and tooth decay. and bulges again, associated with burning sensation, pain, itching sensation, foul It is pitta Raktha prakopaja Vyadhi, in which Gums ulcerate (Paka), bleeds

# General Treatment Principle :-

- 6) Kavala 7) Nasya. 8) Raktha Pitta hara Chikitsa . 1) Vaman 2) Virechan 3) Shiro virechana 4) Raktha mokshan 5) Pratisarana
- 1) Raktha Mokshana:- With Gojihwa Patra or madalagrashastra
- 2) Pratisaran :- a) Trikatu, Lavan, + Madu.
- Shunti, Maricha, Yastimadhu Rasanjan, + Ghrithamanda or Madhu. b) Laksha, Priyangu, Patanga, Kusta, Saindhava Lavana, Gyrika, Kusta,

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Kavala :-

3

- A) Pippali, Swetha, Sarshapa Shunthi, Vetasa with Hot water.
- B) Ghritha prepared with Kakolyadi Madhur, dravya.
- C) Ksheeri Vruksha Kashaya + Madhu
- D) Pancha Pallava kashaya + Madhu + Ghritha + Sharkara.
- E) Sahacharadi taila.
- Nasya :- Ghritha Prepared with kakolyadi madura draya.

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# 5) DANTHA VYADARBHA

(Allergic gums)

are pain, swelling of gums and tooth decay. Or & Sticks (Dantha Kaasta) while brushing the teeth. The associated symptoms It is a traumatic disease of gums occurs by improper usage of tooth brush

### Treatment :-

Cold applications: 3) Sheetha gandoosha. 4) Sheetha Nasya. 1) Shodhana with Mandalagra shastra and application of Sarja kshara. 2)

# 6) VARDANA (EXTRA TOOTH)

Adhidantha. Madhavakara called it as Khalli vardan and vagbhata called it as

associates and get relief after complete eruption. Extra tooth erupt due to the vitiation of vata, during the eruption severe pain

### Treatment :-

Krimi dantha Chikitsa. 3) Vrana Chikitsa. 1) Extra tooth should be removed and agni karma has to do at the site. 2)

### 7) ADHI MAMSA

(Impacted Wisdom tooth ) (Tooth ache during the eruption of wisdom tooth).

completion of the teeth eruption pain swelling of gums, salivation, discomfort and itching sensation present upto the the stricture, oedema of gum, narrow place, tooth eruption becomes late, severe It is kaphaj vyadhi, The disease occurs at the site of last molar teeth; due to

Additional Points By Vagbhata :- Causes pain in the ear, Maxilla and mandible.

Treatment :-

1) Adhimamsa vivoria, Sarja Kshara, Yava Kshara + madhu. 2) Kavala : - Pippali + madhu. 3) Mukhadhavana sarja Kshara, Yava Kshara of patola, Triphala, Nimbatwak. etc. 4) Shiro Virechana: Kshara, Yava Kshara + III. Kshara, Nimbatwak. etc. 4) Shiro Virechana. 5) With the decoction of patola, Triphala, Nimbatwak. 1) Adhimamsa chedan and Prathisarana with Vacha, Chavya, Patha, Sarja
1) Adhimamsa chedan and Prathisarana with Vacha, Chavya, Patha, Sarja

Virechana dhooma.

# 8) SAUSHIRA OR SUSHIRA

(Apical abscess Or Chronic gingivitis.)

gums, associated with salivation and itching sensation, is named as saushing pain, Oedema and destruction of gums and tooth is explained as saushira. The Kapha and Raktha doshas vitiate and causes a painful swelling in the

Treatment :-

1) Raktha mokshana (Sushrutha), Su. Chi. 22 chapter)

2) Chedhan and Lekhan (Vagbhata) Ah. Uth. 22 Cahpter)

- $\mathfrak{S}$ phalasha pushpa, Katphala + Madhu (Vagbhata) a) Pratisarana:- With Lodra musta Rasanjan + Madhu (Sushrutha) b) Pratisarana: With Lodra, musta, shata pushpi, Triphala, Rasanjan, Patang,
- 4 b) Gandoosha with Ksheeri Vruksha Kashaya (Sushrutha) a) Gandoosha: - With the decoction of above drugs (Vagbhata)
- 5 Nasya:- With medicated ghritha prepared with sariva, Neela Kamala, Yastimadhu, Lodra, Agaru, Chandan (for Kalka). 10 times milk, Ghritha

## 9 Maha Saushira (Concrum Oris )

gums, and associate with tooth decay, cleft palate and pain in the oral cavity, The Tridoshas vitiate and causes pain swelling ulceration and destruction of

vitiation of Tridoshas and Raktha dosha Vagbhata :- Bleeding pus discharge from the gums with Fever, due to the

Kills the patient within 7 days. Bhoja: Herelip, Cleft palate and cracked teeth are also associated and

Treatment :-

Like in saushira.

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### 10) PARIDHARA

(Concrum Oris Or Gangrenous stomatitis)

bleeds while spitting. (Su. Ni. 16th Chapter). The Pitta Raktha and Kapha doshas vitiate, gums are destructed and

Treatment: -

Like in Sheetada (Su. Chi. 22nd Chapter)

# 11-15) DANTHA NAADI (SINUSES OF GUMS)

It is of 5 types, they are

4) Shalyaja Dantha Naadi . 5) Tridoshaja Dantha Naadi. 1). Vataja Dantha Naadi 2) Pittaja Dantha Naadi. 3) Kaphaja Dantha Naadi

fluids that causes severe complications, even the maxilla and mandible are destructed asthi of gums and causes sinuses (cavities) which are filled with pus and infected fluid propogates into the deeper structures and vitiate the twak Raktha mamsa and If gum abscess is not drained in time and is neglected, the pus Or infected

### Treatment :-

3) Puya nirharana (pus drainage) 4) Prakshalana (Cleaning the gum cavity) 5) Purana Vrana Chikitsa. (Ulcer therapy). Or pratisarana (Application of medicine) (Sushrutha), Su. Chi. 22 chapter) 6) Nadi 1) Upanaha Swedam (Hot applications) 2) Nadi Vidarana (incision of sinus)

## Special Treatment : -

Pratisarana. (Applicaton of medicine.) remove pus and impure blood) 3) Kshara Or Agni Karma. (cauterisation) . 4) 1. Dantha Nirharan (Tooth Extraction) 2. Lekhana (Scraping at the site to

### **COMMON YOGAS**

Following tooth powders are helpful in the infammatory conditions of gums.

1. Babbula, Bakula, Jamun Sticks, used for brushing the teeth.

spatika 250 grm. Maricha 25 gr. and kapur 12 grm. the fine powder is used as 2. Application of Swetha Manjan :- Katika 1kg, Saindhava Lavana 1/2 Kg.

3. Jeerakadya Choorna: application of fine powder (Tooth powder) of Jeerak, Saindhavalana Hareetaki, shalmali kantak (Yoga ratnakar).

4) Kanadya Choorna :- Regular application of fine powder of pippali -

5) Dashamoola taila Or ghritha + Madhu (Honey). Gundoosha for treating the saindhava lavana and jeera to the gums (Yoga ratnakar).

Sahacharadi taila gandoosha for treating the Chala Dantha.

7. Bhadra mustadi Vati - Kavala to treat the Chala dantha (Yoga Ratnakar) Badra musta, Hareetak, Trikatu, vidang, Nimbapatra, grinded with gomutra and used

for chewing).

8. Fine Powder of Tejobala beeja and Twacha, Haridra dwayam, kusta. Patha, Katuki, Lodra, manjista and Nagar musta, is used as tooth powder.

 The tablets prepared from Trikatu, Yavakshar, Manahshila Haritala, saindhava lavana, Daruharidra, is used for chewing

Pratisarana - Kavala and Gandoosha with the drugs prepared with Kashaya Tiktha Dravya, is very useful in the disorders of gums and teeth.

### DISEASES OF GUMS (DANTHA MOOLA VYADHEIS )

Ol Ma	Name of the Disease	Doshas	Signs and symptoms	Treatment Principle.
1.	Sheetada (Bleeding gum)	kapha Raktha	Gums become Painful, soft, black with foul smell, debris Collection on gums, and finally destructed and bleeds.	Swedana, Rakthamokshana Pratisarana Gandoosha and Nasya.
2.	Dantha Pupputa (Gingivitis-gum boli)	Kapha Raktha	Pain and Oedema at the roots of 2 or 3 gums and suppurates quickly.	Raktha mokshana, Kshara Pratisaran, Gandoosha & Nasya.
3.	Dantha Vestak (Pyorrhoea alveolaris)	Raktha	The Root of teeth are infected, accumulation of pus and blood causes destruction of teeth and follows tooth decay.	Raktha mokshan, Pratisaran, Gandoosha, and Kavala.
8 <del>4.</del>	Upakusha (Stomatitis)	Pitta Raktha.	Gums ulcerates, bleeds and bulges again associated with pain, burning sensation and itching	Shodhan-Raktha mokshan, Prathisaran, gandoosha and Nasya.
5.	Dantha Vydarbha (allergio guma)	Abhighatha	It is a traumatic condition of gums.	Shodhan,Kshara, saran, Cold applica- Sheetha Nasya, and gandoosha.
6.	Vardhan (Extra tooth)	Vata	Extra tooth erupts, during eruption pain, Oedema, itching, associates (Pain subsides after eruption of tooth).	Extra tooth should remove then Agni Karma and Vrana Chikitsa.

- ' '-	SI.No. Name of the Disease	Doshas	Signs and symptoms	Treatment Principel.
7.	Adhimamsa (impacted Wisdom tooth)	Kaphaja	It occurs at the site of last molar tooth, during eruption pain Oedema salivation associates after eruption symptoms get contro	Adimamsa Chedan,
8.	Saushira (Ch-gingivitis)	Kapha-Raktha Pitta or Raktha	Painful swelling at gums associates with Salivation and itching	Raktamokshana, Gand- oosha, Pratisaranand nasy
9. 1	Maha Saushira (Concum Oris)	Tridoshas	Gums inflame and suppurate, associates with tooth decay, cleft palate and stomatitis.	Like Saushira.
10.	Paridhara (Gangrenous stomatitis)	Pitta Raktha Kapha.	Gums destructed and bleeds while spitting	Like Sheetada.
11. 12. 13. 14. 15.	Vataj Dantha nadi Pittaja Dantha nadi Kaphaj Dantha nadi Sannipataj Dantha Nadi Abhigataj Dantha (Sinus in gums).	Kapha	If gum abscess is not treated perfectly in time, the pus propagates into deeper Structures and vitiate Twak, Raktha, mamsa and asti and causes Severe complica	Incision and drainage of sinus, Prakshalana, Pratisaran, gandoosha. tions.

5. <b>भञ्जनक</b> वक्तं वक्तं भवेद्यस्मिन् दत्तभङ्गश्च तीब्रस्क्। कफवातकृतो व्याधिः स भञ्जनकसंज्ञितः॥	साप्युपेक्षिता शातयत्यणुशौ दन्तात् कपालानि कपालिका।	<ol> <li>कपालिका     दलित दत्तवल्कानि यदा शर्करया सह।     देशया कपालिका सैव दशनानां विनाशिनी।</li> </ol>	<ol> <li>दत्तशर्करा शकीरेव स्थिरीभूतो मलो दन्तेषु यस्य वै। स दन्तानां गुणहरी विज्ञेया दन्तशर्करा॥</li> </ol>	दनहर्षे प्रवाताम्लशीतभक्षा क्षमाद्वजाः भवन्त्यम्लाशनेनेव सरुजा श्चिलता इव	<ol> <li>द्रनहर्षे शीतमुष्णं च दशनाः सहन्ते स्पर्शनं न च। यस्य तं दन्तहर्ष तु व्याधिं विद्यात् समीरणात्॥</li> </ol>	वातादुष्णंसहा दन्ताः शीतस्पर्शेधिकव्यथाः॥ दाल्यन्त इव शूलेन शीताख्यो दालनश्च सः।	<ol> <li>दालन         <sub>दाल्य</sub>न्ते वहुधा दन्ता यरिमस्तीव्रकार्दिता:।         दाल्यनः स इति ज्ञेयः सदागतिनिमित्तजः॥         </li> </ol>	दन्त रोग
(মু লি ঞ 16/31)	(ঞ হু ত अ॰ २१)	(মু নি अ 16/33)	(सु॰ नि॰ अ॰ १६/32)	(अ॰ ह॰ उ॰ अ॰ २१)	(মু॰ নি॰ अ॰ 16/30)	(अहं के अं २१)	(ਜ਼ਰ ਜ਼ਿਰ ਕਰ 16/28)	

6. कृमिदन्तक, कृमिदन्त अनिमित्तरूजो वातात् विज्ञेयः कृमिदन्तकः॥ कृष्णशिछद्री चलः स्नावी ससंरम्भी महारुजः।

प्रलूनः पूयरकसुत् स चोक्तः कृमिदन्तकः। अहेतुतीब्रार्त्तिशमः ससंम्भोसितश्चलः॥ पूतित्वात् कृमयः सुक्ष्मा जायन्ते ततः। शोषिते मिष्त्र सुषिरे दत्तेनमलपूरिते॥ समूलं दन्तमाश्रित्य दोषैरुल्वणमारुतै:।

सु. नि. अ. 16/29

7. श्यावदन

योस्ड्मिश्रेण पित्तेन दग्धो दन्तरत्वशेषतः। श्यावतां नीलतां वापि गतः स श्यावदन्तकः॥

(अ॰ ह॰ उ॰ अ॰ २१)

वातेन तैस्तैभविस्तु हनुसन्धिर्विसंहतः। हनुमोक्ष इति ज्ञेयो व्याधिरर्दितलक्षणः॥

(सु॰ नि॰ अ॰ 16/34)

(सु॰ नि॰ अ॰ 16/35)

(अ॰ ह॰ उ॰ अ॰ २१)

(अ॰ ह॰ उ॰ अ॰ २१)

3. दत्तविद्रिधः

सरुदाहः स्रवेद् भिन्नः पूर्यासं दन्तविद्रिधः। दत्तमांसे मलैः सास्नैर्बाह्यान्तः श्वयथुर्गुरुः। 2. दत्तचाल

चालश्चलद्भिदंशनैभंक्षणाद्धिकव्यथः॥

1. कराल

करालस्तु करालानां दशनानां समुद्गमः॥

(अ० ह० उ० अ० २१)

According to :-Sushrutha

Bhavamishra Madhava Kara 8 Diseases only

(Diseases of Teeth) DANTHA ROGAS

Vagbhata 10 Diseases

# A) SUSHRUTHA AND BHAVAMISHRA'S CLASSIFICATION OF DANTHA ROGAS.

 $_{\it 8}$  Diseases, they are as follow :-

- 1) Dalana (Tooth ache or Odontina or Cracked tooth)
- 2) Krimi Dantha (Caries tooth)
- 3) Dantha harsha (Sensitivity of tooth due to exposed nerve Filament).
- 4) Bhanjanka (Broken teeth or falling of Teeth)
- 5) Dantha sharkara (Tartars)
- 6) Kaplika (Tooth Enamel separation)
- 7) Shyava dantha (Black or bluish teeth)
- 8) Hanu Moksha (mandibular dislocation)

# B) MADHAVA KARA'S CLASSIFICIATION OF DANTHA ROGAS = 8

1 to 7 diseases are same as above; 8) dantha Vidradi (Alveolar abscess Or

# C) VAGBHATA'S CLASSIFICATION OF DANTHA ROGAS (10)

1 to 7 are same as above (except few wording differences they are as follow. Dalana (sushrutha) sheetha dantha (Vagbhata)

Bhanjanaka (sushrutha) = Dantha bheda (Vagbhata)

- 8) Karala (ill formed teeth).
- 9) Chala dantha (Loose teeth)
- 10) Adidantha (eruption of extra tooth).

Note :- Vagbhata and Madhava Kara were not explained Hanu moksha.

### 1) DALANA

(Tooth ache or Odontina or Craecked Tooth)

The Vitiated Vata causes untolerable cutting type of pain in the teeth, is known

<sup>as</sup> dalana.

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eat or drink cold items. (Sheetha asahishnutha). Vagbhata called it as sheetha dantha why because the patient cannot able to

which the nerve filament of teeth is exposed. This condition commonly observed in the Old, caries teeth, cracked teeth, in

Treatment :nent :-As per sushrutha it is Asadhya Vyadhi. But Vagbhata explained the following

treatment principles.

Priyangu, jambuasti, Shunti + Madhu. 5) Kavala with Kseeri Vruksha Kashaya. 6) Agni Natriia will have a saindhava lavana, dadima twacha, Triphala, Rasanjan, fine powders of Musta, saindhava lavana, dadima twacha, Triphala, Rasanjan, of external coaming of external coaming of external coaming to the coaming of external coaming of external coaming to external of external coating on tooth (Lekhana with vreehi mukha shastra) 3) After lekhana of external coating on tooth (Lekhana with vreehi mukha shastra) 3) After lekhana, of external coating on tooth (Lekhana with vreehi mukha shastra) 3) After lekhana, of external coating of external coatin ent principles.

1) Sweda with hot water (Hot water gargling) 2) Dantha pali lekhan (Scraping)

1) Sweda with hot water (Hot water gargling) 2) Dantha pali lekhan (Scraping)

## Dantha Harsha :-

(Odontitis due to exposed Nerve filament Or due to caries teeth)

Sheetha - Ushna-Amla asahishnutha " the patient cannot able to take hot or cold things (sour things also - Vagbhata) " The vitiated vata causes (Vata + Pitta + Other Acharyas) the disease in which

posed and causes sensitivity to cold or hot things. ies teeth ) in which due to cracking or perforation of teeth the nerve filament is ex-This condition commonly observed in Krimi dantha or Dantha kshaya (car-

# 1) Kavala Or Gandoosha :-

Paka Aushada). d) Sarshapa taila Or Narayan taila Or vishnu taila or prasarini talla b) Trivruth ghritha Or with Vataghna Aushadas. c) Yastimadu, Tila and Kseera (ksheera a) With Lukewaram Oils (Chathur Sneha sarpi - taila vasa and Majja)

ghritha . 6) Vatahara Chikitsa. with vataghna taila. 5) SnIgdha bhojan Like mamsarasa, Kseera - Navaneetha and 2) Nasya :- Snehan nasya.3) Dhoma Pana :- Snehika dhooma pana.4) Shiro Vasti:-

# Dantha Sharkara (Tartars)

in time leads to tooth decay and other complications... in time leads to those a second coloured precipitations and foul smell. If it is not treated the Kapha and dantha mala (The waste Precipitations on teeth) and so the teeth It is due to improper cleaning of mouth and teeth by which vitiated vata dry

Treatment :-

Treatin), Nidana Parivarjana (Proper brushing and gargling etc). 2) Shareera shodhana (Vamana Virechana etc.,) 3) Dantha mala Lekhana without injuring the enamel and gums(scraping of the Yellow pigment). 4) Pratisarana with Kshara + enamel 5) Poorana with Laksha + Madhu (filling) & Value 19 Pratisarana with Kshara + <sub>Dantha</sub> harsha. enaliro: 5) Poorana with Laksha + Madhu (filling). 6) Kavala Or Gandhoosha like in

purana only (Scaling - washing and filling) Accoring to modern science also the principle is Lekhana Prakshalana and

# Dantha Kapalika :-

(Enamel separation due to caries tooth Or injuries)

of teeth (the outer strong covering of teeth) and fall in small pieces and leads to destruction of teeth, is known as kapalika. Signs and symptoms are pain, burning and sensitivity to hot and cold things. The disease Dantha Sharkara if not treated in time, causes injury to the enamel

Sharkara and Dantha harsha. Treatment: - It is Kasta Sadya Vyadhi but advised to treat like Dantha

### 5 Bhanjanaka:-

(Cracked Or fissured teeth).

teeth fall down or broken due to facial paralisis (mukha vakratha) and associate with severe pain. Vagbhata called it as 'Dantha bhedha." it is Kapha vataj disease in which

Ksheera paka 7) Kavala with Aakara Karavadi Yoga 8) Erenda taila panam Abhyanga with Narayan taila 4) Swedan 5) Vasti 6) Gandoosha with Yastimadu, tila-Treatment: 1) kapha Vataghna Chikitsa 2) Ardhitha Vata Chikitsa 3)

### Krimi Dantha :-(Dental Caries.)

assoicate with pain swelling etc. ing the Dantha moola rogas, Dantha sharkara, Kaphalika. Shyava vadantha etc.,) in conditions like improper brushing of teeth, improper washing of mouth, bitting the which tooth becomes black, perforate, become loose, discharges foul fluid hard items, Taking very hot or very cold items, picking of teeth with needles neglect-It is Vataj, tooth destructing disease (affecting the teeth due to oral un hygeinic

- Dantha Majja sosna - Puya Raktha Srava - Dantha Shoola, Srava ---Vagbhata:- Expalined the aetic pathology more discriptively as follows:-Dantha Kshatha Vata Vitiation Chala dantha. Production of Krimi -Sushira (Perforation) Dantha moola Shotha Tooth decay.

Vaghbata's discription is merely equal to modern dental science.

Treatment :-

A) If tooth is not moving

1) Sweddia 4) (1989) 4) 1) Sweddia 4) (1989) 4) 1) Snigdha bhojan. etc. A) If tooth Is not more and the first tooth is not make a second of the first tooth is

B) If tooth is moving at the site :- Extraction of tooth and cauterisaton

and daha Karma b) Filling the gap with the milk of Sapthacchada or Arka. c) If tooth is perforated:- a) Filling the gap with Guda Or madhuschista

## D) For Pain Relieving :-

Shrungatak, 10 times of milk-taila, Nasya. 9) Sarshapa taila Nasya. 10) Medicated oil prepared from Vidari, Yastimadu, Kasheruk 6) Brahatyadi Gandoosha. 7) Medicated oil prepared from Hingu, Katphala, Kaseesa, Sarja Kshara, Kusta, vidanga, oil-gandoosha. 8) Application of Clove Oil at the site. dharara (chewing) as Krimighna. 5) Vataghna taila, ex:- Narayana taila for Gandossha pared Will - Illiya Markana (chewing) as Krimighna. 4) Ardhraka + Krishna Lavana, Mukha Kalka, Mukha Dharana (chewing) as Krimighna. 4) Ardhraka + Krishna Lavana, Mukha pared with - Hingu Katphala, Kaseesa, Sarja Kshara, Kusta and Vidanga. 3) Sariva 1) Dhoopana with the seeds of Kantakari. 2) Keeping the vati in mouth, pre-

"If pain is not relieved by above treatments, the tooth should be extra-cted

remove) after extraction snigdha sheetha madura Chikitsa should give (A.H.U. 22care should be taken for extraction to prevent complications. (Upper teeth should not The tooth should not extract in children, Old, weak vatarogi, If comulsory

Apathya: Dantha rogi should not take sour, cold, Rough hard items.

### ك Shyava Dantha (Black Tooth )

and becomes black or blue, is known as shyava dantha. tion (Sushrutha). Due to the vitiation of doshas the enamel (Dantha twacha) is burnt It is due to Vata, pitta and Raktha vitiation (Vagbhata); Pitta and Raktha vitia-

Treatment :- Asadya Vyadhi.

(It is asymptamatic and so no need of any treatment )

### 8) Hanu Moksha :-

(Dislocation of Mandible).

added it in dantha rogas. Due to head injury, Loud talking, bitting hard substances, and lifting the heavy weights, Vata dosha vitiates, deranges the Hanu sandhi and causes the disease. causes the disease. It is not related to dantha rogas, but contain dantha shoola so sushrutha

reatment :-

1) Arditha Vata Chikitsa. 2) Shiro Vasti. 3) Nasya 4) Dhooma 5) Upanaha

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Additional Diseases of Vagbhata:

Karala :- (ill formed teeth)

dental disorders and caries. etc. abnormelities, Malnutrition, Oral unhygein, chronic debilitative diseases, recurrent It may be due to adenoids, chronic naso pharyngeal catarrh, congenital Irregular shape, size and positioned teeth is explained as Karala.

Treatment : -

1) Cause Should Treated :-

erals, treating the chronic naso pharyngeal and oro pharyngeal infections etc. " In modern dental medical science different technieques are there to treat ex improving immunity powder, suplementing the required vitamines and min-

irregularities of teeth.

2) Chala Dantha :- (Loose tooth)

tars, gum diseases etc.,. Really it is a symptom arises by neglecting caries teeth, cracked tooth, tar-

so many complications even the healthy teeth and mandible Or maxilla also affected Loose teeth causes pain and discomfort during eating Or drinking it causes Treatment :-

3) Snigda nasya.4) Snigda Kavala.5) Snigda bhojana with Tutha, Lodra, Pippali, Triphala, Raktha Chandan saindhava lavana. etc 1) Sneha and Dasha moola quath Gandoosha .2) Gharshana (Rubbing).

# 3) Adidantha (Explained in Dantha Moola Rogas)

Dantha Vidradi (Alveolar abscess or gum boil )

Explained By :- Madhavakara.

blood stained pus when suppurates. Vitiated Raktha causes burning painful Oedematous gums that discharges

Treatment :-

and Lepa.c) Katuki, Kusta, Punarnava, Mesha Shrungi, Yava-For rubbing at the site. A) In Ama Stage :- a) shamana Chikitsa b) Katu Teekshna ushna Kavala

B) In Patwa Stage :-

a) Bhedhan. b) Puya nirharana c) Shothahara Vrana ropana Chikitsa. C) If Gambheera (deep rooted) :- Agni Karma should be done.

# DANTHA SHOOLA.

Chikitsa:-

1) Hingu, Katphala, Kaseesa, Sarjakshara, Kusta, Vidanga, Pratisaran.

3) Erenda, Bruhati dwaya, mundi, siddha taila gandoosha. 2) Hingwadi taila gandoosha.

4) Kantakari beeja dhoopana.

If pain is not under control and tooth is moving with pus discharge, tooth

extraction has to do and then following ,medication should given.

2) Vidari, Yastimadu, Shrungataka, Kasheru, Ksheera Siddha talla Nasya. 1) Yastimadu + taila has to apply to the site.

### DISEASES OF TEETH - (DANTHA ROGA) (BY SUSHRUTHA - 8 DISEASES)

1 1 1 1	. Name of the disese	Dosha	Sign - Symptoms	
1.	Dalan (SU) Sheeta dantha (Vag)	Vata	Severe untolerable quities and in	Treatment Principle
	(Odontina-Toothache)		and cannot bear the cool things (Sensitivity to cool things - Sheetahasahishnutha)	Sushrutha - Asadya Vagbhata :- Swedan - Lekhan Pratisarana -gandoosha
2.	Dantha harsha (Exposed nerve fila ment of tooth)	Vata (Pitta)	Due to vitiated Vata patient cannot take cool or hot things (Sheetha - Ushna Asahishnutha)	
3. I.	Dantha Sharkara (Tartars)	Vata Kapha	Due to improper mouth wash or brushing of teeth Kapha and Ama accumulates on teeth and get dried by vitiated Vata and teeth 3) Gar appears with Yellowish brown precepitations.	1) Dantha mala Lekhan
	Kapalika Enamel separation	Vata Abhignata	If dantha sharkara is neglected, the tartars. and enamel spearated in small pieces.	1) Asadya 2) Like dantha Sharkara.
	Bhanja naka (SU) Dantha bheda (Vag)	Kapha Vata.	Teeth fall down or broken due to mukha Ardith Vakratha (Facial Paralysis) assoiated with pain.	
	Krimi Dantha Dantal carious)	Vata	Tooth becomes loose, black, perforated and discharges foul fluid, assoicate with pain and oedema- causes tooth decay.	1) If tooth is strong: Lepa Gandoosha. 2) Moving: Extraction of Tooth and agni Karma. 3) Perforated:- Filling.

7.	Shyava Dantha (Blackish tooth)	Vata Pitta Raktha.	Due to Vitiation of doshas the enamel is burnt and tooth become black.	Asadya.
3.	Hanu Moksha (Dis location of Mandible.)	Vata	Due to Loud talking bitting hard things, Lifting heavy weight, Vata, vitiates and deranges the Hanu Sandhi and causes the disease.it causes tooth ache.	Arditha Vata Chikitsa.
		ADI	DITION 3 DISEASES OF VAGBHATA	
		Vata	Irregular size shape position of teeth	Nidana Parivarjana
2.	Chala Dantha (Loose tooth)	Doshaj Aganthaja	Loose tooth causes pain and discomfort during eating and drinking	Prathisarana Gandoosha, if not controlled. extraction of tooth is must.
3.	Adidantha (Extra tooth)	Vata	Extra tooth erruption is called adidantha and during the eruption pain assoicates and after eruption pain subsides.	1) Dantha Nirharan 2) Agni Karma. 3) Gandoosha.
4.	Extradisease of m  1) Dantha vidradi (Alveolar abscess)	adhavakara Raktha	Gums are vitiated by Raktha and get inflammed with pain and oedema, after 2) Bhee suppuration discharges blood stained pus	1) Shaman Chikitsa. dan 3) Prathisaran.

### जिह्वागत रोग

1. वातिक कण्टक जिह्नानिलेन स्फुटिता प्रसुप्ता भवेच्च शाकच्छदनप्रकाशा॥

शाकपत्रखरा सुप्ता स्फुटिता वातदूषिता॥

(सु<sup>6</sup> नि<sup>6</sup> अ<sup>6</sup> 16/37) (अ॰ ह॰ उ॰ अ॰ २१)

पित्तेन पीता परिदह्याते च चिता सरक्तैरपि कण्टकैश्च॥

'n

पैतिक जिह्नाकण्टक

(सु॰ नि॰ अ॰ 16/37)

जिह्या पित्तात् सदाहोषा रक्तेमीसांकुरैश्चिता॥

3. श्लीष्मक जिह्नाकण्टक

कर्फन गुर्वी वहला चिता च मांसोद्गमै: शाल्मिलिकण्टकाभै:

(अ॰ ह॰ उ॰ अ॰ २२)

(सु॰ नि॰ अ॰ 16/37)

शाल्मलीकण्टकाभैस्तु कर्फन वहला गुरुः॥

(अ॰ ह॰ उ॰ अ॰ २२)

जिह्नां स तु स्तम्भयति प्रवृद्धो मूले तु जिह्ना भृशमेति पाकम्॥ जिह्वातले यः श्वयथुः प्रगादः सोलाससंज्ञः कफरक्तमूर्तिः।

(सु॰ नि॰ अ॰ 16/38)

मत्स्यगन्धिभवेत् पक्वः सोलसो मांसशातनः॥ कफपितादधः शोफो जिह्नास्तम्भकृदुनतः।

(अ॰ ह॰ उ॰ अ॰ २१)

उपनिह्ना या उपनिह्निका

प्रसक्कण्डूपरिदाहयुक्त प्रकथ्यतेसावुजिह्निकेति॥ जिह्नग्ररूपः श्वयथुर्हि जिह्नामुनम्य जातः कफरत्तमोनिः।

प्रबन्धनेधो जिह्नयाः शोफो जिह्नाग्रसन्निभः।

(सु॰ नि॰ अ॰ 16/39)

तादृगेवोपांजह्नस्तु जिह्नाया उपरिस्थित:॥ अधिजिह्नः सरुक्कण्डूवंक्याहाराविधातकृत् साङ्कुरः कफपित्तासैर्लालोषास्तम्भवान् खरः॥

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(अ॰ ह्र॰ उ॰ अ॰ २१)

### JIHWA GATHA ROGAS (Diseases of Tongue)

A) According of sushrutha Jihwa rogas are 5, they are
A) Vataja Jihwa kantaka (Chronic glossitis)

2) Pittaja Jihwa kantaka (Acute glossitis)

3) Kaphaja Jihwa Kantaka (Chronic glossitis - Leuco Plakia)

4) Alasa (Sub lingual cyst or abscess)

5) Upajihwak (Ranula or Cystic swelling)

According to vagbhata Jihwa rogas are Six (6) they are, 1 to 5 are same as sushrutha - and 6) Adhijihwaka.

<u>B</u>

Vataja Jihwa Kataka (Chronic glossitis)

dry thorny and cracked with loss of taste perception, loss and sensation, discomfort, pain and burning sensation. The Vata vitiation changes the smooth regular surace of tongue into rough

Treatment :-

Like Vataja Osta Prakopa

1) Abhyanga with (Chatur snehas) 2) NadiOr Upanaha sweda. 3) Sneha Pratisarana. 4) Snehan Nasya. (Vata hara, Vrana ropana, Shothahara, Chikitsa has to give.)

Pittaja Jihwa Kantaka (Acute Glossitis)

red or Yellow colour with, red thorny buds. The symptoms - pain, burning sensation discomfort and loss of taste perception Vitiated Pitta causes inflammatory changes in tongue, the tongue appears in

Treatment :-

vihara. 5) Kakolyadi dravya Milk + Sneha Siddha, Sneha Nasyam. 6) Pitta hara ahara and with Kakolyadi Madhura sheetha dravyas. 4) Kakolyadi dravya Kwatha Gandoosha. Gojihwa or shephalika. (impure blood is removed.) 2) Sira Vyadana. 3) Pratisarana 1) Raktha Mokshana:- By rubhing the surface of tongue with the leaves of

 $\omega$ Kaphaj Jihwa kantaka.

thorny buds resembling shalmali Kantaka and assoicated with pain discomfort itching shalmali kantaka and assoicated with the shall be as a shall be as Vitiated kapha causes the Jihwa as heavy, thick, wide and is scattered with (Chronic glossitis - Leukoplakia)

ing sensation and sticky salivation.

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Treatment:

1) Lekhana Or Gharshana with the leaves of Gojihwa Or Shephalika to re1) Lekhana Or Gharshana with the leaves of Gojihwa Or Shephalika to re1) Lekhana Or Gharshana with the leaves of Gojihwa Or Shephalika to re1) Lekhana Or Gharshana with the leaves of Gojihwa Or Shephalika to re1) Lekhana Or Shep with patola Nimba twak, Varthaka, Yava Kshara otc., Swotha Sarshapa + Saindhava lavana 5) Yusha Sevana :- Food + Yusha prepared Swotha Sarshapa + Saindhava lavana Kshara etc., 

struction of muscles of tongue and Expels Matsya gandam. tul swelling uniquinity, it is known as Alasa, after suppuration it causes detion of root of tongue occurs, it is known as Alasa, after suppuration it causes detion of root of tongue occurs, it is known as Alasa, after suppuration it causes detion of root of tongue occurs, it is known as Alasa, after suppuration it causes detion of root of tongue occurs, it is known as Alasa, after suppuration it causes detion of root of tongue occurs, it is known as Alasa, after suppuration it causes detion of root of tongue occurs, it is known as Alasa, after suppuration it causes detion of root of tongue occurs, it is known as Alasa, after suppuration it causes detion of root of tongue occurs, it is known as Alasa, after suppuration it causes detion of root of tongue occurs, it is known as Alasa, after suppuration it causes detion of root of tongue occurs, it is known as Alasa, after suppuration in the root of tongue occurs, it is known as Alasa, after suppuration in the root of tongue occurs, it is known as Alasa, after suppuration in the root of tongue occurs, it is known as Alasa, after suppuration in the root of tongue occurs, it is known as Alasa, after suppuration in the root of tongue occurs, it is known as Alasa, after suppuration in the root occurs, it is a suppuration of tongue occurs, it is a suppuration of tongue occurs. Tridosnas trapina i transperse by which immobiliasation of tongue and suppuration it welling underneath the tongue by which immobiliasation of tongue and suppuration it was a suppuration it was a suppuration if we suppuration it was a suppuration if we suppuration it was a suppuration in the suppuration in the suppuration in the suppuration is suppuration. Alasa:(Sub lingual cyst Or abscess).
(Sub lingual cyst Or abscess).
Tridoshas (Kapha Raktha Or Pitta prodominently ) Viliate and causes a dread
Tridoshas (Kapha Raktha Or Pitta prodominently ) Viliate and causes a dread

5 Upa Jihwa :-

Asadhyam.

Vaman, 7) Nasya.

The disease with short duration is sadyam. chronic Or with long duration is

Asadhyam. But can try with the following treatment Principles.

1) Virechan 2) Raktha mokshan 3) Kavala 4) Shiro Virechan 5) Dhooma 6)

Treatment :-

(Ranula Or Cystic swelling of tongue :-

tongue (lihwaagra), and pushes the tongue upwards, assoicated with itching sensation salivation and burning sensation. (Vagbhata called it as adhi jihwaka). Vitiated Kapha and Raktha doshas causes a cystic swelling resembling tip of

B) Chedan and Teekshana dravya Pratisaran (Vagbhata) A) Raktha Mokshana Lekhana - Pratisarana - Nasya - Gandoosha and Dhooma Panam,

Treatment ;-

Adijihwa :-Pratisarana dravyas :- Katuki, Pippali - Nimba etc

to the sushruta's Upajihwaka and Vagbhata said the cyst arises below the tongue and adhijiwaka arises below the tongue) and pushes it upwards. (According to vagbhata Upajihwaka arises above the tongue Note: Among the jihwa roga Alasa is only Asadya. Chdan Lekhan Pratisarana. Treatment :-Sushrutha explained it in Kantha rogas, the discription of Adhijihwaka is equal

SI. No.	Name of the Disease	Dosha	Signs and symptoms	Treatment Princiiple.
,	Vataj Jihwa Kantak (Chronic glossitis)	Vata	Dry rough thorny appearence of tongue with Crackings and loss of Sensation	1) Abhyanga 2) Sweda 3) Sneha Pratisaran 4) sneha gandoosha 5) Sneha Nasya.
	Pittaja Jihwa Kantak (Acute glossitis)	Pitta	Inflamed tongue (Red Or Yellow colour) 1) Ra ulceration, thorny appearence of mucosa with pain and burning sansation.	ktha Mokshan 2) Sheetha Pratisaran 3) Sheetha Kavala Nasya.
<b>3</b> .	Kaphaj Jihwa Kantak (Chronic Leucoplakia)	Kaphaj	Thicky bulky heavy tongue with thorny appearence of mucosa of tongue (like shalmali Kantaka) assoicated with itching and salivation	1) Raktha Mokshan 2) Teekshna Pratisaran 3) Shodhan Nasya 4) Teekshan Gandoosha.
4.	Alasa (Sublingual abscess Or Carcinoma)	Tridosha and Raktha	A dreadful swelling underneath the tongue that causes immobilisation and suppuration of tongue.	Asadya.
5.	Upajihwaka (Cystic Swelling)	Kapha Raktha	A Cystic swelling resembling the tip of the tongue, puspes the tongue upwards (Vagbhata called it as adijihwa)  3) Gand	1) Lekhan 2) Pratisarana doosha 4) Nasya
6.	Adijihwak (Cystic swelling	Kapha Raktha	A cyst arises on the dorsum of the tongue (Vagbhata called it as upajihwaka)	1) Lekhan 2) Pratisaran 3) Gandoosha 4) Nasya.

### तालुगत रोग

1. गलशुण्डिका या कण्ठशुण्डी

तृष्णाकासश्वासकृत् सम्प्रदिष्टो व्याधिवेँदै: कण्ठशुण्डीतिनाम्ना॥ श्लेषासुग्थ्यां तालुमूलात् प्रवृद्धो दोर्घः शोफोध्मातवस्तिप्रकाशः

तालुमूले कफात् सास्रात् मत्स्यवस्तिनिभो मृदुः। प्रलम्बः पिच्छिलः शोफो नासयाहारमीरयन्॥

कण्ठोपरोधतृट्कासवामिकृद् गलशुण्डिका।

(अ॰ ह॰ उ॰ अ॰ २१)

2. तुण्डिकरी

शोफः स्थूलस्तोददाहप्रपाकी प्रागुक्ताभ्यां तुण्डिकेरी मता तु॥

9. तालुपाक

शोफ: स्तब्धो लोहितस्तालुर्देश रत्ताज्ज्ञेय: सोध्रुषो रुग्ज्वराढ्य:॥

(सु॰ नि॰ अ॰ १६)

कूर्मोत्सनो अवेदनोशीघ्रजन्मारकज्ञेयः कच्छपः श्लेष्मणा स्यात्॥ (सु॰ नि॰ अ॰ 16/43)

4. कच्छप वा तालुकच्छप

कच्छपः कच्छपाकारश्चिरवृद्धिः काफादरुक्॥

(अ० ह० उ० अ० २१)

पद्मकारं तालुमध्ये तु शोफं विद्याद्रस्तदर्वुदं प्रोस्तलिङ्गम्॥

(अ० ह० उ० अ० २१)

पद्माकृतिस्तालुमध्येरत्तच्छृवयथुरवुंदम्॥

6. मांससंघात

दुष्टं मांसं श्लेष्मणा नीरुजं च तान्वन्तःस्थं मांससङ्घातमाहुः ॥

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(सु॰ नि॰ अ॰ 16/44)

7. तालुपुप्पुट दृष्टं मांसं नीरुजं तालुमध्ये कफाच्छूनं मांससङ्घातमाहु:॥

(মৃ৽ নি৽)

नीरुक् स्थायी कोलमात्रः कफात् स्यात् मेदोयुत्तात् पुप्पुटस्तालुदेशे॥

कोलाभः श्लेष्ममेदोभ्यां पुपुटो नीरुजः स्थिरः॥

(अ॰ ह॰ उ॰ अ॰ २१)

8. तालुशोष

शोषोत्यर्थ दीर्यते चापि तालुः श्वासो वातातालुशोषः सपितात्॥

वातिपत्तज्वरायासैस्तालुशोषस्तदाह्वयः॥

(सु॰ नि॰ अ॰ 16/45)

(अ॰ ह॰ उ॰ अ॰ २१)

पित्तं कुर्यात् पाकमत्यन्तघोरं तालुन्येनं तालुपाकं वदन्ति॥

(सु॰ नि॰ अ॰ 16/45)

पित्तेन पाकः पाकाख्यः पूर्यास्रावी महारुजः॥

(अ॰ ह॰ उ॰ अ॰ २१)

### Diseases of Palate TALU ROGAS

A) 9 diseases according to sushruthaB) 8 diseases according to Vagbhata.

# A) Sushrutha's Classification ( 9 diseases)

1) Gala Shundi (Elongated Uvula Or Uvulitis)

2) Tundikeri (Tonsilitis)

 Kacchapa (Adenoma of Palate) 3) Adhrusha (Palatitis)

Talu arbuda (Epithelioma or Carcinoma of Palate)

6) Mamsa Sanghatha (Adenoma or fibroma of Palate)

7) Talu Pupputa (Epulis or fibroma or Cyst of Palate)

8) Talu sosha ( Atrophy of Palate)9) Talu Paka (ulceration of palate)

# Vagbhata's classification (8 diseases)

So only 8 diseases according to him. he added Talu pitica in Place of Adhrusha. В He has not explained tundikeri in Talu rogas but explained it in Kantha roags

remaing chedan sadya Vyadhies (chedan and Bhedan for tundikeri and Talu Pupputa) Note: - Among 9 diseases Talu Arbuda is only Asadya - Talu sosha aushada Sadya

# 1) Gala Shundi (Kantha Shundi)

(Elogated Uvula Or Uvulitis)

irritation in the throat, dry cough, dyspnosa, thirst, Vomiting through nose and fever palate (Talu moola), Resembles swollen bladder (Admaatha Vasti Prakasham-Matsya vasti nibham) and manifest the symptoms like, Obstruction while swallowing the food The vitatied Kapha and Raktha doshas produces soft lengthy bulk swelling in

### 1) shaman Chikitsa :-

trolled chedan karma is advised 1) Kavala Gandusha Nasya and Dhooma panam 2) If the disease is not con-

### 2) Chedan Karma :-

tions like salivation Insomnia and aggravation of the disease. sive cutting causes bleeding complications. and improper cutting causes complications like salivation in the complications and improper cutting causes complications. mandalagra shastra the lower 1/3rd part should cut by leaving the upper 2/3. Excessive cutting relief. Gala shundi has to firmely handled with samdamsha Yantra and with

# Pashchyath Karma (Post chedan therapy regimen):-

saindhava lavana + madhu. Prathisarana with maricha, Ateesa patha, Vacha, kusta Shyonak, rasna.

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Dhooma Pana :- With Panchangee Varthi prepared by Ingudi, Kinihe, danthi, Kavala:-With the decoction of Vacha, ativisha, patha, Rasna, Katuki, and

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Trivruth and Devadaru. Kshara Siddha mugda Yoosha bhojan

:: itis:ر

soft palate). The disease occurs due to It is an inflammatory condition of Uvula (the free central posterior border of

2) Dust smoke and cold allergy (cold wind Or cold items allergy)
2) Dust smoke and cold allergy (cold wind Or cold items allergy) 1) Recurrent or Chronic Oropharyngeal Or Upper respiratory tract infections

and produces irritative dry cough thirst, pain during deglutition, fever and pharyngitis elongated Uvula causes irritation at Posterior dorsum of tongue, Oro pharynx

Treatment :-

1) Broad spectrum antibiotics.

(Ex. Erythromycetin)

2) Anti inflammatories and Analgesics

Ex. Ibuprofen Or Diclophenac sodium.

phenaramine maleate). Anti histamines and cortisones (Betamthasone and Dexamethosone, Pheneramine maleate and chore

4) Lukewarm salt water gargling

If the disease is not controlled the lower 1/3 parts should excise under local

# 2) Tundikeri (Tonsilitis)

Pricking pain in the throat and with suppurative cyst. bling the fruit of Vana Karpasa, the assoicated symptoms are Burning sensation, The Vitiated Kapha and Raktha doshas causes a bigcystic swelling resem-

(Note :- Vagbhata explained it in gala rogas)

### Treatment :-

## A) Shamana Chikitsa

Kavala Gandusha Dhooma and Nasya.

galashundi has to do (chedan) B) If the disease is not controlled by shamana chikitsa, Shastra Chikitsa like

" According to modern also it is Chedana sadya Vyadhi (Tonsilectomy) But

Dalhana explained it as Bhedan sadya vyadhi

Saindhava lavana and Tila Kalka. Nasya :- Taila Prepared with Apamarga beeja, Vishnukrantha, danthi, Vidanga, Pratisarana :- with Gruha dhooma + Katu Varga dravyas.

949gulu Or Triphalaguggulu, Gandak rasayan, Chopa chenyadi churna . Khadhiradi Vati, Sarivadi.... Note:- Shoola, shotha, grandhi hara, Aushada's should give Ex: - Kanchanara guqqiili. O- Thoma chenvadi churna. Khadhiradi vati, Sarivadivati etc., are helpful to reduce the inflammation of the tonsils.

### TONSILITIS

The palatine to is in Protecting the respiratory and alimentary in between faucial pillars. These help in Protecting the respiratory and alimentary tracks from \*The inflammation of tonsils, is known as Tonsilitis. " The palatine tonsils are subepithelial lymphiod collections situated in between the palatine tonsils are subepithelial lymphiod collections situated in between

### Acute Tonsilitis :-

strepto coccus, surprive constant programmes are important predigental hygiene, Poor nutrition and congested surroundings are important predigent upper respiratory was a strepto coccus, staphylo coccus, haemophilus influenzae, and pneumo coccus, por strepto coccus, staphylo coccus, haemophilus influenzae, and pneumo coccus, Por strepto coccus, staphylo coccus, haemophilus influenzae, and pneumo coccus, Por strepto coccus, staphylo coccus, haemophilus influenzae, and pneumo coccus, Por strepto coccus, staphylo coccus, haemophilus influenzae, and pneumo coccus, por strepto coccus, propried influenzae, and pneumo coccus, por strepto cocc Aetiology: It may be supported that the causative Organisms are, recondary to upper respiratory tract viral infections, The causative Organisms are, Haemolytic and pneumo coccus, haemophilus influenzae, and pneumo coccus of the causative Organisms are, recondary to Acute Tonsilitis:

Aetiology:- It may occur as a Primary infection of tonsil, Or secondary to Aetiology and wiral infections, The causative Organisms are, Haemary to

2) Multiple white spots of exudative collections in crypts on an inflamed tonsilar which discharge into crypts known as catarrhal tonsilitis ngy:
1) Tonsils are inflammed and lymphoid follicles convert into small abscesses.

3) Some times exudation from crypts Form a membrane over the surface of

4) Whole tonsil if uniformly congested is known as . Parenchymatous

### Clinical Features :-

ache, 6) Anorexia 7) Body pains. 8) Earache, 9) Constipation 10) Tachycardia. Symptoms :- Sore throat 2) Fever 3) Painful deglutition 4 Malaise 5) Head-

digastric lymph nodes). are stubbed with yellowish spot 4) Surrounding part of Pharynx are often inflammed (Soft palate and uvula) 6) Enlarged Tonsilar lymph nodes with tenderness (Jugulo Signs :- 1) Enlarged congested tonsils 2) Raise of temparature 3) Tonsils

Antiphyretics and Anti inflammatory drugs 4) Salt Water (Lukwarm) gargling spectrum antibiotics (Erythromycetine Ampicilline pencillin etc.,) Analgesics Treatment: - 1) Bed rest 2) Giving plenty of fluids. 3) Administration of Broad

Parapharyngeal abscess 4) Acute otitis media 5) Acute nephritis 6) Rheumatic fever Complicatios:- 1) Chronic Tonsilitis 2) Peri tonsilar abscess (Quinsy) 3)

# Chronic Tonsilitis :-

matous tonsilitis 2) Chronic fibrotic tonsilitis. matoris tonsilitions treated inadquately. It is of two varieties 1) Chronic Parenchy-Chronic inflammatory changes in the tonsils are usually the result of recur-

of Voice of Voice Symptoms:- 1) Recurrent sore thorat 2) Difficulty in deglutition 3) Discomfol the property of the same of the same

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rreatment:- 1)
reatment:- 1)
reatmen sls. Gyrement of jugulo digastric lymph nodes.
3) Enlargement:- 1) Treatment should alice. signs appear open from which epithelial debris may be squeezed on pressure signardement of jugulo digastric lymph nodes. 1) Hypertrophic tonsils and protruding out of the pillars 2) Congested ton-

3) Enlary: 1) Treatment should give to control the infection of Tonsils Nasal and Treatment sinuses

Broad spectrum antibiotics.

Anti histamines. Analgesics and anti-inflammatories

Surgery of Nasal and Paranasal abnormalities

Ex septal deviation (DNS), Adenoids, Nasal Polyps etc.,

If the disease is not responding to medical treatment, surgical excision of

Tonsils is must (tonsilectomy).

### Complication :-

Peritonsilar abscess 2) Para Pharyngeal abscess

Intra tonsilar abscess 4) Tonsilolyths

Rheumatic fever 6) Acute nephritis

<u>5</u>9

Tonsilectomy: Excision of tonsils, is known as tonsilectomy

sore throat 7) weight loss 8) Persistent carrier to strepto coccus haemolyticus and swallowing and respiration. 6) Chronic enlargement of regional lymph nodes with scess (Quinsy) 5) Huge enlargment of tonsils causing mechanical obstruction for Repeated attacks of acute follicular tonsilitis 4) After the attach of peritonsilar ab-Diphtheria bacilli . 9) Carcinoma of tonsil 10) Benign tumours of tonsils. Indications: 1) Failure of conservative treatment 2) Chronic tonsilitis 3)

Acute glomerulo nephiritis, chronic suppurative otitis media. etc., Tonsilitis if causes secondary effects in other organas ex Rheumatic fever.

## Contra Indications :-

local infection 9) During menstruation 10) During pregnacy. epidemic of polio 6) Systemic infections 7) Debilitative diseases 8) presence of acute agulation defects, aplastic anaemias and Purpura) 4) Allergy - asthama 5) During 1) Severe diabetes 2) Gross Hypertension 3) blood dyscrasias (Bleeding Co-

# Investigation Needed:-

8) Enquiry about menstruation, pregnancy, Allergy and other past medical history. metabolic disorders 6) Blood pressure 7) General examination of Heart & ECG terol, uric acid levels etc., 5) Urine examination to know kidney damage and other 1) C.B.P. 2) Hb% 3) Bleeding and coagulation time 4) Blood sugar - Choles-

### అ Adrusha (Palatitis)

The Vitiated Raktha dosha causes red coloured hard Oedema in Talu, asso-

clated symptoms are pain and fever.

"Vagbhata not explained this diseases."

(Rakta dosha hara chikitsa should be given. Treatment :- 1) Shamana chikitsa : ent :- I) Similar and sweda, gandusha, dhooma pana, nasya and sweda Abhyanga, pratisarana, kavala, gandusha, dhooma pana, nasya and sweda

"Now a days for palatitis only shamana chikitsa (Anti inflammatory treat."

ment) is practicing.

gala shundhi) is advised i.e. sneha - sweda - chedan and prathisarana. 2) If the disease not responds to shamana chikitsa, shastra chikitsa (Like

4) Talu kacchapa (Adenoma of Palate):-

kacchapa (Dorsum of Tortoise) originates in Talu. suppurating whitish or pale coloured oedema (Arakta vruddhi ) which resembles The vitiated Kapha dosha causes a painless, slowly developing and slowly

Treatment :-

2) Shastra Chikitsa - Chedana, if Shamana Chikitsa get failure Chedana is advised like Galashundi. Abhyanga, Sweda, Pratisarana, Kavala Gandoosha, Dhooma and Nasya. 1) Shamana Chikitsa:-

5 **Epithelioma Or Cancer of Palate** Talu Arbuda :-

Talu, resembles Raktha padma (Red lotus) The Vitiated Raktha doshas causes Red coloured Arbuda in middle part of

Treatment :- Asadhya Vyadhi. (Rejected for treatment )

+ Mmadhu - Gandoosha 4) Teekshna taila nasya. principle. ) 1) Chedana and 2) Pratisarana with sarjakshara, shunti + Honey 3) Taila Note: (If Arbuda is newly developed, can try with the following treatment

9 Mamsa Sanghatha (Fibroma of Palate)

(Sushrutha). The Vitiated Kapha dosha causes painless Oedema in the Talu Mamsa

middele part of talu is known as talu samhati. Vagbhata: Kapha + Raktha, doshas Produces painless swelling in the

Treatment: 1) Shaman Chikitsa 2) Chedan Chikitsa like Galashundi

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(Epulis Or Fibroma Or Cystic Swelling )

(It is a non specific cystic swelling (Fibroma) commonly arises due to trauma at Talu, resembles kola phala (Badari phala ), is known as Talu pupputa The vitiated Kapha dosha and Medo dhathu causes painless fixed swelling

Vagbhata :- Lekhana, Prathisarana, Kavala and nasya. Treatment :- Sushrutha :- Like Galashundi (Chedan - Pratisaran)

Talu Sosha.

(Atrophy of Palate - Cleft Palate.)

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thirst urge ) 3) Vata Pitta Jwara 4) Parishrama (Exersion), The talu get dried, some times bifurcates and associates with swasa (Dyspnoea) It arises Due to 1) vata and Pitta vitiation 2) Pipasa nigraha (suppressing the

Treatment:-

snehapanam is contra indicated in Thirst). sevana. 8) Ksheeri sarpi Nasya (Nasya with Ghee prepared from milk) (ghritha or shunthi)6) Amla dravya Or Sneha drava Gandoosha 7) Snigda Jangala mamsa rasa shunthi) 5) Pippali shunti - Pakwa ghritha panam (ghee prepared with pippali, take after meals. 4) Pippali shunti - Pakwa jala panam (boiled water with pippali, 1) Nidana Parivarjanam (Treat the cause) 2) Vata Pitta hara Chikitsa. 3) Ghee should

9 Talu Paka (Palatitis Or ulceration of Palate).

(painful pus discharging ulcer in Talu) (vagbhata) The vitiated pitta causes severe dreadful ulceration (Talu Paka ) in Talu-

Ulceration of palate may be classified as follows :-

ulceration (Charmakeelaja) 4) Epithelioma (malignant carcinoma -Ghatakaarbuda). 1) Simple ulceration 2) Syphilitic ulceration (phirangaja) 3) Lupoidal

Treatment :-

with sheetha Kashaya, and Madhura dravyas like Kakolyadi etc., 4) If Talu get sup-(Apakwa) a) Kaseesa Madhu and rasanjan - should be applied at the site b) Kavala purated (Pakwa) a) Asta Pada Vatha Bhedan (eight limbed incision) b) Teekshna Ushna Pratisarana c) Kavala with Vasa, Nimba twak, and patola etc., dravyas. 1) Nidana Parivarjanam 2) Pitta - Visarpa hara Chikitsa 3) If Talu is not suppurated

duces painful, rough, hard and exudating piticas (Polyps) in Talu, known as Talu Talu Pitika: - Explained by only vagbhata in which vata dosha vitiates and pro-

Treatment: - 1) Shaman Chikitsa 2) Shastra Chikitsa.

DISEASES OF PALATE (TALLI BOCAS)

1.	No. Name of the Disease	Dosha	OF PALATE (TALU ROGAS ) Signs and Symptoms	•
	Gala shundi (Elongated Uvula)	Kapha	Doshas vitiate the root of T.	Treatment.
2.		Raktha	a soft lengthy bulky swelling resembling vasti of matsya, it obstructs the throat and causes irritation thirst cough and dyspnoea.	<ol> <li>Shaman Chikitsa, if get failure 2) Chedan, Pratisaran.</li> </ol>
3.	Tundikeri (Tonsilitis)	Tridosha	A swelling resembling the fruit of Vana Karpasa develops at Talu, that causes pain burning and obstruction of throat	1) Shaman Chikitsa if get failure.2) Chedan /bhedan & Pratisaran.
	Adhrusha (Palatitis)	Raktha	Red Coloured hard Oedema develops in talu, assoicated with pain and fever	1) Shaman if get failure 2) Chedan, Pratisaran
4.	Kacchapa (Adenoma of Palate)	Kaphaj	Painless slowly growing Oedema develops resembling the dorsum of tortoice, in talu	Shaman chikitsa, if get failure.     Chedan, Pratisaran
5.	Talu arbuda (Epithelioma Or (Carcinoma of Palate)	Rakthaj Karnika	Red Coloured arbuda resembling padma a, develops in Talu treatr	Asadya (Rejected for
6.	Talu Pupputa (Cystic swelling)	Kapha, Medo dhathu	Vitiated doshas causes painless swelling resembling Kola Phala develops in talu 2) Bhe	1) shaman Chikitsa dan/Chedan 3) Pratisaran 4) Kavala.

ame of the Disease	Dosha	Signs and Symptoms	Treatment .
allu Sosha Atrophy of Palate)	Vata Pitta	Talu get dried, bifurcates and associate 1) New with dyspnoea, due to suppressing the urgor of thirst, Exertion and fever etc.	lidana Parivarjan 9 2) Vata Pitta hara. mhana Chikitsa.
Mamsa Samghatha	Kapha Raktha	Painles Oedema in Palate	1) Chedan 2) Pratisaran.
Tali, Daka	Pitta	Vitiated Doshas causes ulcer in Palate	1) Pitta hara Chikitsa 2) Asta pada Bhedan 3) Pratisaran
	Vataj	Painful rough hard exudating piticas (Polyp Or follicles ) erupts in Talu	1) Shastra Chedan Pratisaran.
	Atrophy of Palate)  Mamsa Samghatha (fibroma of Palate)	alu Sosha Vata Pitta Atrophy of Palate)  Mamsa Samghatha (fibroma of Palate)  Talu Paka (Ulceration of Palate)  Vatai	alu Sosha Atrophy of Palate)  Mamsa Samghatha (fibroma of Palate)  Talu Paka (Ulceration of Palate)  Vata Pitta  Talu get dried, bifurcates and associate 1) Nowith dyspnoea, due to suppressing the urgular of thirst, Exertion and fever etc.  Bru  Painles Oedema in Palate  Vitiated Doshas causes ulcer in Palate  Vatal  Painful rough hard exudating piticas

#### कण्ठगत रोग

1. रोहिणी

तां रोहिणी वातकृतां वदन्ति वातात्मकोपद्रवगाढ्युक्तम्॥ जिह्नं समनाद् भृशवेदना ये मांसाङ्कुराः कण्ठरोधिनः स्युः प्रदूष्य मांसं गलरोधिनोड्कुरान् सृजन्ति यान् सासुहरा हि रोहिणी॥ गलेनिलः पितकफो च मूच्छितो पृथक्समस्ताश्च तथैव शोणितम्।

मांसाङ्कुराः शीघ्रचया रोहिणी शीघ्रकारिणी। जिह्नाप्रबन्धजाः कण्ठे दारुणामार्गरोधिनः॥

(판 fio अo 16/48)

2. पित्तज रोहिणी

स्रोतोनिरोधिन्यपि मन्दपाका गुर्वी स्थिरा सा कफसम्भवा वै॥ क्षिप्रोद्गमाक्षिप्रविदाहपाका तीव्रज्वरा पित्तन्मित्तजा स्यत्।

(सु॰ नि॰ अ॰ 16/49)

क्षिप्रजा क्षिप्रपाकातिरागिणी स्पर्शनासहा॥ पिताज्ज्वरोषातृण्मोहकण्ठधुमायनान्विता।

(अ॰ ह॰ उ॰ अ॰ २१)

सांकुरः कफित्तासैर्लालोषास्तम्भवान् खरः॥ प्रबन्धनोधो जिह्नायाः शोफो जिह्नाग्रसनिभः।

कर्फन पिच्छिला पाण्डु:

3. कफज रोहिणी

स्रोतोरोधिन्यपि मन्दपाका गुर्वी स्थिरा सा कफसम्भवा वे॥

(सु॰ नि॰ अ॰ 16/49)

(अ॰ ह॰ उ॰ अ॰ २१)

4. त्रिदोषजा रोहिणी

गम्भौरपाकाप्रतिवारवीर्या त्रिदोफलिङ्गा त्रयसम्भवा स्यात्।

गम्भारपाका निचयात् सर्वोलङ्गसमन्विता।

(सु॰ नि॰ अ॰ १६)

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(अक हर उर अर २१)

5, रक्तज रोहिणी

रकोटाचिता पित्तसमानलिङ्गासाध्या प्रदिष्टा रुधिरात्मिकेयम्॥

असृजा स्फोटकाचिता। तप्ताङ्गारनिभा कर्णरुक्करी पित्तजाकृति:॥

(अ० ह० उ० अ० २१)

6. कण्ठशालुक

कोलास्थिमात्रः कफसंभवो यो ग्रन्थिगले कण्टकशूकभूतः। खरः स्थिरः शस्त्रांनेपातसाध्यस्तं कण्ठशालूकमिति ब्रुवन्ति॥

(सु॰ नि॰ अ॰ 16/51)

दोषै: कफोल्बणै: शोफ: कोलवद् ग्रथितोनत:॥ शुककण्टकवत् कण्ठे शालूको मार्गरोधनः।

(अ० ह० उ० अ० २१)

(अ॰ ह॰ उ॰ अ॰ २१)

7. अधिजिह्निका

जिह्नाग्ररुपः श्वयथुः कफातु जिह्नाप्रबन्धोपरि रक्तमिश्रात्। ज्ञेयोधिजिह्नः खलु रोग एष विवर्जयेदागतपाकमेनमे॥

(মু॰ নি॰ अ॰ 16/52)

(अक् हुक उक २१)

तादृगेवोपजिह्नास्तु जिह्नाया उपरिस्थितः॥ अधिजिह्नः सरुक्कण्डूर्वाक्याहारविधातकृत्।

8. वलय

बलास एवायतमुनतं च शोफं करोत्यनगतिं निवार्य। तं सर्वथैवाप्रतिवारवीर्यं विवर्जनीयं वलयं वदन्ति॥

(सु॰ नि॰ अ॰ 16/53)

(अ॰ ह॰ उ॰ अ॰ २१)

वलयोनातिरुक्शोफस्तद्वदेवायतोन्तः॥

9. वलास गले तु शोफं कुरत: प्रवृद्धों रलेष्मानिलों श्वासरुजोपपनम्। मर्मोच्छदं दुस्तरमेतमहुर्वलाससंज्ञं निपुणा विकारम्॥

10. एकवृद

वृत्तोनतो यः श्वयथुः सदाहः कण्ड्विन्वतोपाक्यमृदुगुरुश्च । नामैकवृदः परिकोत्तितोसो व्याधिर्वलासक्षतजप्रसूतः॥

(सु॰ नि॰ अ॰ 16/55)

तं चापि पित्तक्षतजप्रकोपाट् विद्यात् सतोद पवनासृजं तु ॥ समुनतं वृत्तममन्दराहं तीव्रज्वरं वृन्दमुदाहरिन्त ।

(सु॰ नि॰ अ॰ 16/56)

वृन्दो वृत्तोनती दाहज्वरकृद् गलपाश्वंग:॥

ग्रन्थिगले त्वामलकास्थिमात्रः स्थिररोल्परुक् स्यात् कफरत्तमूर्तिः संलक्ष्यते सत्तमिवाशनं च स शस्त्रसाध्यस्तु गिलायुसज्ञः॥

केच्छ्रीच्छ्वासाम्यवहातः पृथुमूलो गिलायुकः मांसकीलोगले दोषै रेकोनेकोथवाल्परुक्

(सु॰ नि॰ अ॰ 16/58)

(३० ह उ अ २३)

13. गलविद्रिध

स सर्वदोषो गलिवद्रधिस्तु तस्यैव तुल्यः खलु सर्वजस्य॥ सर्व गतं व्याप्य समुस्थितो यः शोफो रुजो यत्र च सन्ति सर्वा:।

व्याप्तसर्वगलः शीघ्रजन्मपाको महारुजः॥

(सु॰ नि॰ अ॰ 16/59)

पूर्तिपूर्यनिभसावी श्वयथुर्गलविद्रिधः।

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(अ॰ ह॰ उ॰ अ॰ २३)

14. गलौंघ

शीफो महानन्जलावरोधी तीव्रज्वरो वातगतोर्निहत्ता। कर्फन जातो रुधिरन्वितेन गले गलौधः परिकीत्तर्यतेसौ॥

बाह्यान्तः श्वयथुपर्घोरो गलमार्गार्गलोपमः।

(सु॰ नि॰ अ॰ 16)

नि॰ अ॰ 16/54)

गलीधो मूधगुरुतातन्द्रालालाज्वरप्रदः॥

(अ॰ ह॰ उ॰ अ॰ २३)

15. स्वरध

योतिप्रताभ्यन् श्वीसीति प्रसक्तिभिनस्वरः शुष्कविमुक्कण्ठः। कफोपदिग्धेष्वनिलायनेषु ज्ञेयः स रोगः श्वसनात् स्वरघ्नः॥

(सु॰ नि॰ अ॰ 16/61)

ताभ्यन् प्रसक्तं श्वसिति येन स स्वरहानिलात्॥ श्लेष्मरुद्धानिलगतिः शुष्ककण्ठो हतस्वरः।

(अ॰ ह॰ उ॰ अ॰ २१)

16. मांसतान

प्रतानवान् यः श्वयथुः सुकष्टो गलोपरोधं कुरुते क्रमेण। स मांसतानः कथितोबलम्बी प्राणप्रणुत् सर्वकृतो विकारः॥

(सु॰ नि॰ अ॰ 16/62)

17. विदारी सदाहतोदं श्वयथुं सरकमन्तर्गले पूर्तिविशीर्णमांसम्। पित्तेन विद्याद् वदने विदारीं पार्श्वेविशेषात् स तु येन शेते॥

(सु॰ नि॰ अ॰ 16/63)

गलाबुद

जनयन्ति स्थिरं रक्तं नीरुजं तद् गलाबुदम् जिह्वावसाने कण्ठादावपाकं श्वयथुं मलाः।

(अ॰ ह॰ उ॰ अ॰ 21)

गलगण्ड के सामान्य लक्षण

वातः कफश्चैव गले प्रवुद्धौ मन्ये च संसृत्य तथैव मेदः। कुर्वित्ति गण्डं क्रमशः स्विलिङ्गैः समिवतं तं गलगाण्डमाहुः॥

(सु॰ नि॰ अ॰ 11/22)

वर्धमानः स कालेन मुष्कवल्लम्बते नीरुक् ॥ प्वनश्लेष्ममेदोभिर्गालगण्डो भवेद् बहिः।

महान् वा यदि हस्वो गलगण्डं तमादिशेत्॥ निबद्धः श्वयथुर्यस्य मुष्कवल्लम्बते गले।

(अ॰ ह॰ उ॰ अ॰ २१)

( 판 fio 과 11/29)

SI.No. Name of the Disease

Modern Name.

They are as follows :-

#### वातज गलगण्ड

तोदान्वितः कृष्णसिरावनद्धः कृष्णोरुणो वा पवनात्मकस्तु मेदोन्वितश्चोपचितश्च कालाद्भवेदितिस्निग्धतरोरुज्श्च॥

(सु॰ नि॰ अ॰ 11/23)

वैरस्यामास्यस्य च तस्य जन्तोर्भवेत्तथा तालुगलप्रशोषः॥ पारुष्ययुक्तिश्चरृब्द्यपाको यदृच्छया पाकमियात् कदाचित्।

(सु॰ नि॰ अ॰ 11/24)

वृद्धस्तालुगले शोषं कुर्याच्च विरसास्यताम्॥ कृष्मोरुणो वा तोदाद्यः स वातात् कृष्णराजिमान्।

चयाभिवृद्धि कुरुते चिराच्च प्रपच्यते मन्दरुजः कदाचित्॥ स्थिरः सवर्णोल्परुगुप्रकण्डूः शीतो महांश्चापि कफात्मकस्तु

(सु. नि. 11/25)

वृद्धस्तालुगले लेपं कुर्याच्च मधुरास्यताम्॥ स्थिरः सवर्णः कण्डुमां शीतस्पर्शो गुरुः कफात्।

(अ॰ ह॰ उ॰ अ॰ 21)

माधुर्यमास्यस्य च तस्य जन्तोभवित्तथा तालुगलप्रलेपः॥

नि. अ. 11)

#### मेदोजगलगण्ड

स्मिधास्यता तस्य भवेच्च जन्तोर्गलेनुशब्दं कुरुते च नित्यम्॥ प्रलम्बतेलावुवदल्पमूलो देहानुरूपक्षयवृद्धियुक्त :। स्निग्धो मृदुः पाण्डुरनिष्टगन्धो मेदःकृतो नीरुगथातिकण्डूः

(픿. 뒤. 왜. 11/26,27)

Bhava mishra 18 Vagbhata 18 Sarangdhara 18

According to

Sushrutha

Diseases.

DISEASES OF THROAT (Gala Or Kantha Rogas.)

Kaphaj Rohini Rakthaj Rohini Sannipathaj Rohini -Kantha Snaaluka

Pittaj Rohini Vataj Rohini

Valaya Adijihwa

Ekavrunda, Vrunda Balasa Gilaya

Gala Vidradi Shathaghnee

Swaraghna Gala ugha

Vidari Mamsatana

Diphtheria

**Epiglottitis** Adenoida Benign tumour Tumour in throat

Retropharyngeal abscess Retropharyngeal abscess Benign tumour Benign tumour

Malignant tumour Malignant tumour.

Retropharyngeal abscess

Paralysis of larynx

Note :-

cause of similarity, So only according to him Gala rogas are only 17 1) Shushrutha counted Eka Vrunda and Vrunda as a single disease be-

SI.No. Vagbhata not explained Eka Vrunda Adijihwa Mamsa Tana Balasa 3. Medoja Galaganda Kaphaj Galaganda Vagbhata Explained. Additionally 1. Vataj Gala ganda 5. Tundikeri 4. Galaarbuda

added extra five diseases which are given in above chart. Among 18 diseases vagbhata not explained the 5 diseases of Sushrutha and

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and Adjinwa in jinwa rogas (Diseases of Tongue). Sustration struct. But Vaponeta explained Tungken in Galage.
In Galages (Diseases of Tonger). But Vaponeta explained Tungken in Galages.
In Galages (Diseases of Tongue). NOTE Y Susmuffe sipleined Tundikeri in Talurogas (Diseases of Palate) and Adjinwak

#### ROHINI

Diphtheria)

produces a very service of the produce of the service of the servi Triobstas (Vata, This "Wall by and throat obstructing swelling (Single produces a hard quickly spreading, or eachly and throat obstructing swelling (Single produces a hard quickly spreading, or eachly and food in take, is known as a complete or the complete of the compl It is a complimental and Raktha either separately or togetherly within the Tribustras (Vata, Pita Kapha) and Raktha either separately or togetherly within and throat obstructing swelling for and It is a complicated, trouble some and poor prognostic disease of throat. The

1) Venzje Rohini 2) Pittaj Rohini 3) Kaphaj Rohini

4) Rakthaj Rohini 5) Sanni pathaj Rohini

1. Vataj Rohini 2. Pittaj Rohini 3. Kaphaj Rohini 4. Rakthaj Rohini 5. Sannipathaj Rohini	SL No. Name of the Disease
Causes death in 7 days Causes death in 5 days Causes death in 3 days Causes death in 3 days Causes death immediately (Asadya) Asadya.	Fatal time.

Asadya So treatment should be tried for the rest of the diseases (Vataj, Pittaj and The prognosis of the disease is very poor, Rakthaj and Tridoshaj Rohini are

### 1) VATAJ ROHINI

that causes death in 7 days if proper treatment is not given in time ears, obstruction for respiration and food intake and other general complications of vaia are also associated It is known as VATAJA ROHINI a very complicated disease root of Tongue. The symptoms are Dryness of mouth and throat, pain in jaws and The vitiated Vata dosha causes a painful throat obstructing swelling at the

coction of Hareetaki with Madhu. (Gandoosha) with Character and Where Lekhana has conducted. 7) Lukewarm gargles Nakha (Nails), Lekhana has to do at the lesion. 6) Application of saindhava lavana (Prathisarana) to the lesion. Vasa - Majja). 3) Light fomentation (Mrudu Swedam) in General aswellas Local 4) (Gandoosha) with Chatur Snehas. 8) Lukewarm gargles (Gandoosha) with the decotion of Haraetaki with the July Lukewarm gargles (Gandoosha) with the decotion of Haraetaki with the July Lukewarm gargles (Gandoosha) with the decotion of Haraetaki with the July Lukewarm gargles (Gandoosha) with the decotion of Haraetaki with the July Lukewarm gargles (Gandoosha) with the Vamana Karma (emesis therapy ). 5) Raktha Mokshana :- with anguli shastra or 2) Oral intake of luke warm medicated Oils (Chatur snehas - Sarpi talla 1) Bahya Abhyanga (massage) with Lukewarm Vatahara Oils (Chatur Sneha)

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Lukewarm gariges (Gandoosha ) with the decoction of panchamoola. 10) photosha and Nasya, with the medicated Oil prepared form Ela, punamava, Gandoosha, Khapitta, Godugda and tila talla. 11) Nasya Kamanawa, Tarahamawa, Amerikani, Khapitta Natahamawa, ASTENSION WITH Vatahara Aushada. 13) Shotha hara shoola hara, krimighna propinara medicines, Local aswellas systemic can he chim. Bindous Knapitta, Godugda and tila talla. 11) Nasya Kama with Tila talla. 12) Nasya Kama with Tila talla. 12) proofficer medicines, Local aswellas systemic can be given, warzhara medicines.

## 2) PITTAJA ROHINI

swelling at the root of tongue. It is an unbearable, very painful, disease with sepolicated disease that causes death in 5 days if proper treatment is not given port of pitta dosha are also associated. It is known as PITTAJA ROHINI, a very burning and fever thirst vertigo drowsiness unconsciousness other complications compared to the complete comple The vitiated pitta dosha causes quickly originating, spreading and suppurat-

Treatment :has to do, at the lesion. 6) Application of the paste (Pratisaran) Prepared from Raktha therapy). 5) Raktha Mokshan with anguli shastra Or Nakha (Nails ) Lekhana Karma Light formentation(Mrudu Sweda) General and Local. 4) Vaman Karma (Emesis ducted. 7) Gargles (Kavala- Gandoosha) with the cold decoctions prepared from Chandan, Lodra, Priyangu, sugar and Honey to the lesion where Lekhana has conchandan, Lodhra, Priyangu Sharkara and Honey. 8) Gargles (Gandoosha ) with the Milk and Ghee (Ghrita Paka Vidhi) Oral intake of Ghritha Prepared From Triphala Lodra Sariva.Kashmari Yastimadu decoctions of Draksha and parooshak. 9) A medicine for Gargling, Nasya and for 1) Abhyanga (massage) with cold oils. 2) Sneha panam (Ghritha etc..). 3)

## 3) RAKTHAJ ROHINI

throat with severe burning pain and earache (pain in ears). All the symptoms of pittaja Rohini are also associated: The vitiated Raktha Dosha causes a dreadful, Red coloured swelling in the

Treatment :-

ately. But treatment can be given as like pittaja Rohini for suppressing the symptoms It is an incurable and highly complicated, disease that causes death immedi-

## 4) KAPHAJ ROHINI

Obstructing and slowly suppurating swelling in the throat, associated with atropic changes and slowly suppurating swelling in the throat, associated with atropic obstructing and slowly suppurating swelling in the throat, associated with atropic obstructing and slowly suppurating swelling in the throat, associated with atropic obstructing and slowly suppurating swelling in the throat, associated with atropic obstructing and slowly suppurating swelling in the throat, associated with atropic obstructing and slowly suppurating swelling in the throat, associated with atropic obstructing and slowly suppurating swelling in the throat, associated with atropic obstructing and slowly suppurating swelling in the throat obstruction obstruction obstructions. changes pain and dyspnoea. If it is neglected kills the person within 3 days. The vitiated kapha dosha produces a whitish, immobile, sticky, bulk, throat

der. 3) Nasya and Gandusha with the Oil prepared from apamarga, aparajitha Vidanga 1) Lekhan and Raktha Mokshan 2) Prathisaran with Ghruhadhooma + Katuki Powder 3) Ni-

ganthi saindhavalavana and taila.

## 5) SANNIPATHAJ ROHINI

appears in this variety The Triousius ...... usep rooted, incurable, quickly suppurative disease in the throat, all the symptoms of Tri-dosha incurable, quickly suppurative disease in the throat, all the symptoms of Tri-dosha incurable, quickly suppurative disease in the throat, all the symptoms of Tri-dosha incurable, quickly suppurative disease in the throat, all the symptoms of Tri-dosha incurable, quickly suppurative disease in the throat, all the symptoms of Tri-dosha incurable, quickly suppurative disease in the throat, all the symptoms of Tri-dosha incurable, quickly suppurative disease in the symptoms of Tri-dosha incurable, quickly suppurative disease in the symptoms of the sy The Tridoshas vitiate and produces a dreadful, most complicated, deep rooted,

Treatment :- Asadya. (Rejected for the treatment )

# COMMON TREATMENT PRINCIPLES OF THROAT DISEASES.

3) Kavala Or Gandoosha. 4) Nasya Karma. 5) Dhooma Panam. 1) Lekhan and Raktha Mokshan. 2) Prathisaran Or Lepa

Oral intake of decoction prepared with Daru Haridra, Nimba patra, Rasanjan,

Decoction of Hareetaki with Honey.

Chitraka Rasanjan Patha Tejobala and Nimba with shuktha Or gomutra. Gandoosha & Pratisaran with Triphala Trikatu Yavakshara Daruharidra

Danthi and Moorva. Local application of Amlavetas Malkangini musta devadaru Shunthi. Vacha

The yogas explained is Sarva Sara mukha rogas are also useful in gala rogas.

#### DIPHTHERIA

a gram positive Organism, usually spread by droplet infection and its incubation period is 2 to 4 days, It is a dreadful contageous disease caused by Coryne bacterium diphtheria,

affects the conjunctiva and genital tract. the mucosa of Nose, Nasopharynx oralcavity, Oropharynx and Iarynx, etc., but rarely still a problem in developing countries like India. The disease commonly occurs in It commonly occur in 5 to 12 Years of age group. It is mostly eradicated but

### Clinical Features :-

Clinical features depends upon the site of infection

branes of body and vital organs. geal obstruction and systemic toxaemia (infection also spread to other mucous membranes of hody and wife and wi separatable and bleeds when try to separate it, finally it causes nasal nasopharynnasal mucosa, formation of greyish white thick layer on nasal mucosa which is not excoriation of anterior nares, blood stained mucopurulent nasal discharge, inflamed A) Nasal diphtheria :- The clinical features are, fibrinous rhinitis, chronic rhinitis,

## Faucial diphtheria - Clinical Feature :-

infection spreads to oral cavity and oropharynx. Faucial diphtheria may be primary disease Or secondary to Nasal diphtheria.

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temic toxaemia are associated. geal will rever, head ache, Tachycardia, cervical lymphadenopathy (bull's neck appearence), Throat Obstruction and sysdia, cervical are associated. The greyish white layer develops on tonsils Uvula soft palate and posterior pharyn-The gray wall, pain in the throat, difficulty in degludition, mild Fever, head ache, Tachycar-geal wall, pain in the throat, difficulty in degludition, mild Fever, head ache, Tachycar-

C) arynx and produces Greyish white layer on vocal orders, laryngeal vestibule, subglottis laryngeal. Due to inflammatory changes in local. larying chea. Due to inflammatory changes in larynx, causes dyspnoea and Asphyxia. Laryngeal Diphtheria: - Clinical features . Diphtherial infection spreads to

Complications:-

and Larynx if affected causes dyspnoea and Asphyxia. 3) Myocarditis and peripheral Vascular problems. 4) Neuritis. 5) Kedney and Liver Problems. 1) Throat Obstruction (Difficulty in deglutition of food and water ). 2) Nose

## Treatment of Diphtheria.

Identification of the disease by clinical (features ) findings

Deep intra muscular injection of Anti diphtheric. Serum 10000, I.U. to 50.000,

Administration of suitable antibiotics (By culture/Sensitivity) I.U. should give to neutralise the toxins.

Symptomatic treatment.

precautions should take tosave from pulmonary complications. in between 3rd and 4th rings, and tracheostomy tubes are inserted. So antiinfective Ostomy " Operation is only the alternative, in which an artificial hole is done in tracha The main complication of the disease is Breathing problem for that "Trache

## 6) KANTA SHAALUKA (ADENOIDS

(Noso Paryngeal Tonsil)

rough and hard cyst resembling the seed of Kola Phala (Badari Phala ) in the throat, causes throat obstruction dis comfort pricking pain (Like pricking with thorn and hook ) and sounds during respiration. It is Kaphaj, Shastra sadya Vyadhi, vitiated, Kapha produces an immobile

#### Treatment :-

is explained for "Kanta Shaaluka Tundikari Gilay and Vrunda, i.e. - Bhedan Or Lekhan. 3) Raktha Mokshana. 4) Ghee + Yavanna. 5) Kaphaj Rohini Treatment. 6) Shodhan Chikitsa. 7) Breathing exercises etc. 1) It is Shastra Sadyam (only surgical treatment is needed). 2) Similar surgey

#### Naso Pharyngeal Tonsils. Adenoids

appears by pubety, But due to recurrent upper respiratory tract infections (in 3 to 10 hypertrophied and causes nasal and aural complications. Years of age group) instead of atrophic changes, the nasopharyngeal tonsils get As the child grows the size of naso pharyngeal tonsils diminishes and dis Hypertrophied Naso pharyngeal tonsils are called as adenoids.

Signs and Symptoms :-

Naso pharynx adenoids have a feel like bag of worms. upper tip, profitted by section of the profit of the profi peror wall of nasopharymx, pinched nostrils, dull look, mental instability, retracted peror wall of nasopharymx, pinched nostrils, dull look, mental instability, retracted peror wall of nasopharymx, pinched nostrils, dull look, mental instability, retracted ebstruction, shoring, (inclusitis) headache, enlarged mass of adenoids on posterio of paranasal Shuses (Shusitis) headache, enlarged mass of adenoids on posterio of paranasal shuses (Shusitis) headache, enlarged mass of adenoids on posterio of paranasal shuses (Shusitis) headache, enlarged mass of adenoids on posterio of paranasal shuses (Shusitis) headache, enlarged mass of adenoids on posterio of paranasal shuses (Shusitis) headache, enlarged mass of adenoids on posterio of paranasal shuses (Shusitis) headache, enlarged mass of adenoids on posterio of paranasal shuses (Shusitis) headache, enlarged mass of adenoids on posterio of paranasal shuses (Shusitis) headache, enlarged mass of adenoids on posterio of paranasal shuses (Shusitis) headache, enlarged mass of adenoids on posterio of paranasal shuses (Shusitis) headache, enlarged mass of adenoids on posterio of paranasal shuses (Shusitis) headache, enlarged mass of adenoids on posterio of paranasal shuses (Shusitis) headache, enlarged mass of adenoids on posterio of paranasal shuses (Shusitis) headache, enlarged mass of adenoids on posterio of paranasal shuses (Shusitis) headache, enlarged mass of adenoids of paranasal shuses (Shusitis) headache, enlarged mass of adenoids of paranasal shuses (Shusitis) headache, enlarged mass of adenoids of paranasal shuses (Shusitis) headache, enlarged mass of adenoids (Shusitis) Fequent attacks Program of the following proctumal cough (due to post nasal discharge), infection of costruction, shoring, noctumal cough (due to post nasal discharge), infection of costruction, shoring, noctumal cough (due to post nasal discharge), infection of costruction of costruction of the following the and Symptoms:

Frequent attachs of Cold, persistent Mucopurulent nasal discharge, nasal frequent attachs of Cold, persistent Mucopurulent nasal discharge, nasal frequents, nasal discharge), inferences.

Diagnostic Criteria :-

Xray of Naso pharynx. Posterior Rhinos copic Examination . 4) Palpation of Naso pharynx. 5) Lateral view ostic Criteria:

1) Nasal obstruction and Open mouth. 2) Apearence of adenoid facies. 3)

1) Nasal obstruction and Open mouth. 2) Apearence of adenoid facies. 3)

Complications :-

chronic nasal changes (Prinched Nose etc.,) 5) Adenoid Cysts. 1) Recurrent attaches of Ottis media. 2) Sinusitis 3) Speech problems. 4)

Conservatory Treatment :-

 And allergic drugs. 4) Nasal decongestants (Nasal drops and systemic drugs). 1) Anticiotics (Erythromycetin etc.,) 2) Analgesics and anti inflammatory drugs.

adenoid curette with a guard is the instrument more commonly used for adenoided tomy is done along with tonsilectomy under general anaesthecia. St clair Thomson enoids, (Adenoidectomy), is only the next alternative treatment. Commonly adenoidec-If the disease is not controlled by above treatment, surgical excision of ad-

then Antibiotics, anti inflammatories analgesics and anti histamines are prescribed. need to clear the roof, post nasal cavity is packed for few minutes to arrest bleeding enoids are curetted out and are help up in the guard of curette, a second stoke may to engage the adenoid mass, then with downward and forward movement the adpalate to the end of the nasal septum. It is pressed against the roof of Naso pharynx The adenoid curette is held in the right hand and passed behind the soft

#### ADIJIHWAK

(Epiglottitis)

resembling the tip of tongue, is named as Adjijhwa. It becomes incurable (Asadya) The witiated Kapha and Raktha doshas produces a swelling above the tongue

Swelling above the tongue is " Upajihwa"

Note: - According to Vagohata Adjihwa and Upajihwa are the diseases of tongue. In

Swelling below the tongue is "Adijihwa"

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Treatment :-

Treatment 1) Lekhana and Pratisaran with Yavakshara. 2) Shiro Virechan Nasya. 3) Kapha and Raktha dosha hara Gandoosha. 4) Kapha Raktha hara dhooma panam.

It can be correleted to Epiglottitis (Inflammation of epiglottis), it is a rare con-

on on the drugs. dition. If it is not severe can be controlled with Antibiotics Analgesics, Anti

(Tumour in throat either benign Or Malignant)

" Charaka Called it as Bidalika.

Obstructing. Swelling that causes difficulty for food intake, it is named as Valaya. The vitiated Kapha produces a lengthy, bulk complicative, round and throat

It is Asadya (incurable) and said to be rejected for treatment.

Treatment :- Incurable disease.

#### 9) BALASA

(Benign Or malignant tumour of Throat)

pain breathlessness and injury to vital parts (Marmaabhighatha), it is known as Balasa. The vitiated Kapha and Vata dosha produces a dreadful swelling that causes

Treatment: - Incurable disease (Asadya Vyadhi)

### 10) EKA VRUNDA

Vagbhata not explained this disease.

throat obstruction, it is known as Eka Vrunda. purative cyst in the throat that causes pain, itching sensation burning sensation and The vitiated Kapha and Raktha doshas Produce a round bulk, hard, non sup-

Treatment :-

Rohini Chikitsa. tion of the medicine ) with Yava Kshara. 3) Gandoosha. 4) Dhooma Panam. 5) Kaphaj 1) Shodhan (Raktha Mokshan Nasya etc.,) 2) Prathisaran (Local Applica-

#### 11 VRUNDA

swelling in the throat (in the lateral side of throat by vagbhata ) with fever and ourning sensation, it is known as Vrunda. The vitiated pitta and Raktha or vata and rakta, produce a bigger, painful,

Note :- (vedana Daha Jwara are more severe than Eka Vrunda)

Treatment :- Same as Ekavrunda. diseases, So only explaining sensation and fever are more in Vrunda than Ekavrunda the severity of pain, burning sensation and fever are more in Vrunda than Ekavrunda the severity of pain, burning sensation and fever are more in Vrunda than Ekavrunda. Note: According to summer the similar later than expanded seperately but counted as one and they expained similar diseases, so only explained seperation and fever are more in Vrunda than Ekair. That they expained that Note: According to sushrutha and Dalhana - Vrunda and Ekavrunda are similar en only explained seperately but counted as one and they expained light and fever are more in Vrunda are similar.

### 12 GILAYU

(Benign Cyst of Throat)

in the throat ) an breathing, it is known as Gilayu, need surgical treatment, cyst (Cysts- vagurus ); cyst (Cysts- vagurus ); representation of food ( and have a feel that food bolus is obstructed causes difficulty in deglutition of food ( and have a feel that food bolus is obstructed causes difficulty in deglution of food ( and have a feel that food bolus is obstructed causes difficulty in deglution of food ( and have a feel that food bolus is obstructed causes difficulty in deglution of food ( and have a feel that food bolus is obstructed causes difficulty in deglution of food ( and have a feel that food bolus is obstructed causes difficulty in deglution of food ( and have a feel that food bolus is obstructed causes difficulty in deglution of food ( and have a feel that food bolus is obstructed causes difficulty in deglution of food ( and have a feel that food bolus is obstructed causes difficulty in deglution of food ( and have a feel that food bolus is obstructed causes difficulty in deglution of food ( and have a feel that food bolus is obstructed causes difficulty in deglution of food ( and have a feel that food bolus is obstructed causes difficulty in deglution of food ( and have a feel that food bolus is obstructed causes difficulty in deglution of food ( and have a feel that food bolus is obstructed causes difficulty in degline). The vitiated kapha and Raktha doshas produces a hard, immobile, painful cyst (Cysts- Vagbhata), resembling the seed of Aamalaki Fruit, in the throat that cyst (Cysts- Vagbhata) of food (and have a feel that food bolus is have

- 1) Surgical Treatment like Kantha shaaluka Tundikeri and Vrunda
- 2) Kaphaj Rohini Treatment.
- For Oral intake and for Gargling usag of Musta, Trikatu Ativisha, Devadaru, Go Mutra, Tikthaushadhas.

#### (Retropharyngeal abscess) 13) GALA VIDRADI.

sensation, oedema, itiching sensation and discomfort etc. and teases by manifesting the symptoms of vitiated Tridoshas, like pain, burning and suppurating abscess with foul pus discharge that completely obstructs the throat The Tridoshas vitiate and produces a painful, quickly originating spreading

#### Treatment :-

- 1) If the abscess is not at vital prats (marma sthana ) Bhedhan, pooya nirharan, Shodhan, Ropana has to do (Incision and drainage).

2) Raktha mokshan- then prathisarana and Gandoosha

Triphala Haridra, Rasanjan, Gyrika, Lodra, saindhava lavan, Raktha chandan

Powder is for prathisaran and the decoction is for Gandoosha

### 14 GALAUGHA

(Retropharyngeal Abscess)

drowsiness heavyness of head and discomfort in throat. drowsiness heavy and food intake, other symptoms are salivation the throat (oedema not only in throat but also externally Vagbhata ), assoicated with fever and obstruct the contraction The vitiated kapha and Raktha doshas produces biggger oedema Or Cyst in

Treatment :- Asadya Vyadhi (incurable disease ) but can try as Rohini

### 15) SWARAGHNA

( Carcinoma Or Paralysis of Larynx. )

grown as Swaraghna which is incurable, is known as Or Swarptoms like breathlessness in ability to talk, dryness of throat and giddiness, it the Symptomas Swaraghna which is incurable. Or Swara like breathlessness in ability to talk Annother of Vata and produces The vitiated Vata (Vata + Kapha - Vagbhata ) by affecting shabdavaha srotas

Treatment :-Asadya Vyadhi (Incurable disease.)

#### (Cellutitis Or Carcinoma of Throat) 16) MAMSA TANA

incurable and rejected for the treatment, ing, hanging, Cyst Or Polyp in the throat, it is known as mamsatana which is The vitiated Tridoshas produce an abnormal, spreading, throat obstruct-

Treatment :-Asadya Vyadhi.

17) VIDARI

(Gangrenous Stomatitis Or Retro pharyngeal absess)

ated, it is known as Vidari which is incurable and rejected for the treatment. (Abscess ) in the throat, the tissue of the abscess gradually get necrosed and exfoli-Treatment :- Asadya (incurable) The Vitiated pitta and Raktha produce a painful, burning type of red growth

## 18) SHATHAGHNEE

to be more dangerous and so it should be rejected for the treatment. causes throat obstruction, severe pain, burning sensation, head ache, fever and said The Tridoshas vitiate and produce multiple cysts or Polyps in the throat, that

#### Treatment:

Asadya (Incurable)

## ADDITIONAL DISEASES OF THROAT,

EXPLAINED BY VAGBHATA.

Galaganda. Galaarbuda 2) Tundikeri 3) Kaphaj Galaganda 4) Medoja Galaganda. 5) Vataj

rative, reddish tumour in the throat. It is known Galaarbuda. Galaarbuda (benign Tumour in Throat) The vitiated Vatadi doshas produces a hard, immobile, painless, non suppu-

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Treatment: free growth is smaller Chedan & Pratisarana should be done (Excision and Honey).

10 Nasya and abhyanga

Usage of Yava as food (Yavanna Sevena ) With : 1) Concentrated Sarshapa Taila.

## 2) 3) 4), GALAGANDA (GOITRE)

A) Sushrutha expalined it in the chapter " Grandhi "

C) Vagbhata B) Charaka " Gala roga, Shopa "

Vitiation it is of 3 types. It occurs by the vitiation of vata, Kapha and medas So only on the basis of

Kaphaj Galganada Vataj Gala ganda

Medoja Galganda.

Common Features of Galaganda:-

on the neck, the size of cyst is not unform (changes time to time) A painless slowly progressive movable (Hangs like scrotum,) cyst develops

## Vataj Galaganda:-

not. The other symptoms are Talu sosha, Gala Sosha and Viirasya. pain and is encircled with black capillary net, some times suppurate and some times A slowly developing blackish red cyst develops on neck, it assoicates with

#### Treatment :-

- Swedam. 4) If Cyst suppuratives Vrana chikitsa should do with following external 1) Nadi Swedam with Vata hara drugs. 2) Raktha Mokshana 3) Upanah
- and used as External application. Amrutha, Arka Moola, Trivruth and padmak should be grinded with sura Or Kanji a) Shigru Tilwaka Tarkari (Arani), Gaja Pippali, Swetha punarnava, Neeli,
- Pippali Devadaru and Baladwayam. b) Guduchi Taila :- Oil prepared with Guduchi Nimba Kutaja Hamsapadi

## 2) KAPHAJ GALAGANDA.

on palate and throat and with unpleasant sweetness of mouth. on palate and throat and mitching sensation, Coldness, formation of Sticky layer The vitiated Kapha dosha causes, a hard, painless, skin coloured, bigger

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#### Treatment :-

Like Vataj Galaganda But with more potent drugs.

Shodhan Nasya 7) Rechana Dhoomapana. 8) If the cyst suppurates Vrana kshara - grinded with sura or Kanji and applied to the lesion. a) Ajaganda, Ativisha, vishalya, Gunja, Karkatata Shrungi, Alabu and Phalasha Chikitsa with the following external applications. 1) Sweda 2) Vimlapana, 3) Upanaha. 4) Raktha Mokshan 5) Vamana 6)

## 9) Oral Adiministriation of :-

- 1) Taila Prepared with the drugs of Vatsakadi group.
- 2) Jala Kumbhee Kshar + Gomutra
- 3) Taking of Kodrava diet.

## 3) MEDOJA GALAGANDA

cyst reduces in size ). built (if the body build is perfect, cyst increases in size and if the body is emaciated sensation assciated. The size of the cyst increases and decreases along with body normal noises in throat, abnormal (obstructed) Voice, Foul smell, and severe itching The signs and symptoms of Kaphaj Galaganda present, additionally ab-

#### Treatment :-

- Like Kaphaj Galaganda Chikitsa.
- 2) Sira Vyadana.
- 3) The powder of the drugs of Aasanadi Group + Gomutra, for Oral intake
- kaseesa + Tutta + Ropana taila (if the disease is not controlled; incision, should be given to remove the fat, suturing then Healing therapy should be followed as an afternative method 4) Daha Karma with Vasa ghritha and madhu, then application of Gorochan +

#### ADDITIONAL DISEASES OF THROAT, BY MACRIM

-	No. Name of the Disease	Modern Name	Vitiation of Dosha		
1.	Galarbuda	1_7	- Dosna	Lakshanas	Treatment.
2.		Benign Tumour in Throat	<u>Vatadi Doshas</u> Sadya	Hard, Painless, fixed non suppurative, red tumour develops in throat.	Chedan. Pratisaran.
	Tundikeri	Tonsilitis	<u>Kapha Rakthaja</u> Sadya	Red, bigger, painful swelling develops at Talumoola resembling Karpasa phala .	Bhedhan/Cheda Pratisaran.
<b>.</b>	Vataj Galaganda	Goitre	Vataj/Sadya	Painful reddish black cyst with black vessels develops on neck.	Sweda, Raktha Mokshana, vra Chikitsa.
	Kaphaj Galaganda	ш	Kaphaj/Sadya	Hard painless big cyst develops on neck with itching sensation.	-do-
	Medoja Galaganda	rr	Medoja /Sadya	Kapha features, Swara Vikruthi, foul smell with itching sensation.	-do-

#### DISEASES OF THROAT GALAROGAS

SI. No.	Name of the Disease	Modern Name	Vitiation of Dosha Sadya-asadhya	Lakshanas	Treatment
1.	Vataja Rohini	Diphtheria	Vathaj Kasta Sadya Vyadhi	Painful, throat obstructing Swelling develops in the throat with dryness of oralcavity, obstruct the food and . airway	Sneha -Sweda, Vamana. Raktha Mokshana, Pratisarana, Kavala. it kills the person in 7 days if neglected.
2.	Pittaja Rohini	a.	Pittaj/Kasta Sadya	Spreading type of swelling develops in throat with burning pain, fever, thirst, vertigo and unconsciousness.	Treatment principles same as above and kills the person in 5 Days if neglected
3.	Kaphaj Rohini	e de la companya de l	Kaphaj/Kasta Sadya	obstructing swelling deve- lops, with atrophic changes in throat	Treatment principles same as above and kills the person in 3 days if neglected.
4.	Rakthaj Rohini	ц	Rakthaj/Kasta Sadya	Red swelling develops in throat with burning pain-and symptoms of pitta also present.	Freatment principles same as above and kills the berson immediately.
5.	SanniPathaj Rohini	u	Tridoshaj/Asadya	Most complicated swelling with all the above symptoms develops in throat.	Asadya.

6.	Kantha Shaaluka	Adenoids	<u>Kapha-</u> Shastra Sadya	Fixed, hard cyst resembling Badari Phala Develops in	Bhedan/Lekhana
7.	Adijihwa	Epiglottitis	Kanha	discomfort.	and Prathisaran.
 8.	Valous		<u>Kapha-Raktha</u> sadya	A Swelling develops above the tongue resembling the tip of tongue	
	Valaya	Tumour of Throat	Kaphaja Asadya	Lengthy bulk, complicative throat obstructing swelling causes obstrution of air and Food way.	dhoomapana.  Asadya.
9. 98. 10)	Balasa	"	Vata Kaphaj Asadya	Dreadful, painful, throat obstructing swelling that causes injury to vital parts develops in throat.	Asadya.
			Kapha Rakthaj Sadya	Round fixed, bulk, hard, non Suppurative cyst with pain, burning anditching sensation develops in throat.	Pratisaran
11)	Vrunda		Pitta Raktha Or Vata Raktha Sadya.	Bigger, painful burning swelling develops in throat, more complicated than ekavrunda.	

12.	Gilayu	a a	Kapha Raktha Shastra Sadya	Hard, fixed, painful swelling like Amalaki Seeddevelops in throat end and obstructs the air and food way	Bhedan/Lekhan Pratisarar Kavala-Dhoomapan
13.	Gala Vidradi	Retro Pharyngeal abscess	Tridoshaj Asadya	Painful, suppurating and throat obstructing swelling with features of Tridosha.	Bhedan Shodhan Ropana.
14.	Galaugha	æ	Kapha Raktha Asadya	Bigger, painful, throat obstructing Swelling with fever, drowsiness and heavyness of head, develops in thorat	Asadya.
15.	Swaraghna	Paralysis of Larynx	Vata Asadya	Shabdavaha srotas is deranged and causes breathlessness, inability or to talk, Dryness of throat and giddines	Asadya.
16.	Mamsatana	Carcinoma of Throat	Tridoshaj Asadya	Abnormally spreading, throat obstru- cting swelling or polyp develops in throat	Asadya.
17.	Vidari	Gangrenous stomatitis	Pitta Raktha Asadya	Painful, burning type of red growth with necrotic Or atrophic changes, develops in Throat.	Asadya
18.	Shataghnee	Tumour of throat	Tridoshaj Asadya	Multiple cysts obstructs the throat with burning pain, fever and headache.	Asadya.

## सर्वसर मुखरोग या सर्वसर मुखपाक

सर्वसरास्तु वातिपत कफ शोणितनिमित्ता त्रयः सर्वेध्वायतनेषु॥

कण्ड्युतेरल्परुजैः सवर्णैर्यस्याचितं चापि स वै कफेन। रक्तेन पित्तोदित एक एव केश्चित् प्रदिष्टो मुखपाकसंज्ञः॥ रक्तैः सदाहैस्तर्गुभः सपीतैर्यस्याचितं चापि स पित्तकोपात्॥ स्फोटैः सतोदैर्वदनं समन्ताद्यस्याचितं सर्वसरः स वातात्।

विवृणोति च कृच्ल्रेण मुखं पाको मुखस्य च॥ जिह्न शीतासहा गुर्वी स्फुटिता कण्टकाचिता। संचारिणोरुणान् रुक्षानोष्ठौ ताम्रौ चलत्वचौ॥ करोति वदनस्यान्तर्ज्ञणान् सर्वसरोनिलः।

( अ॰ ह॰ उ॰ अ॰ 21)

### पित्तज मुखपाक

क्षारोक्षितक्षतसमा व्रणाः, तद्वच्च रक्तजे॥ मुखस्य पित्तजे पाके दाहोषे तित्तव्रक्त्रता।

(अ॰ ह॰ उ॰ अ॰ 21)

कुर्यात् घट्टतं छिनं मृदितं च विवधते। मुखपको भवेत् सास्रेः, सर्वेः सर्वाकृतिर्मलेः॥ अन्तःकपोलमाश्रित्य श्यावपाण्डुकफोर्बुदम्॥ कफजे मधुरास्यत्वं कण्डूमित्पिच्छिला त्रणाः।

### अध्वीगुद के लक्षण

यात्यूर्धं वक्त्रदौर्गन्थ्यं कुर्वन्र्रथ्वगुदस्तु स:॥ अधः प्रतिहतो वायुरशोंगुल्मकफादिभिः।

(3,0 हु० उ० अ० २१)

## पूतिवक्त्रता के लक्षण

पूत्यास्यतां तैरेव दन्तकाष्ठादिविद्विषः॥

## असाध्य मुखरोग

(सु. नि. अ. १६)

दत्तेषु च न सिध्यन्ति श्यावदालनभञ्जनाः। दन्तमूलेषु वज्यौ तु त्रिलिङ्गयतिसौषिरौ॥ ओष्ठप्रकोपे वर्ष्याः स्युर्गासरक्तत्रिदोषजाः। असाध्या अपि वक्ष्यते रोगा ये तत्र कीर्तिताः॥ रोगाणां मुखजातानां साध्यानां कर्म कीर्तितम्। स्वरध्नो वलयो वृन्दो विदार्यलस एव च। तेषाँ चापि क्रियां वैद्यः प्रत्याख्याय समाचरेत्॥ असाध्याः कीर्तिता ह्येते रोगा नव दशैव च। गलौघो मांसतानश्च शताध्नी रोहिणी च या॥ जिह्वागतेष्वलासस्तु तालव्येष्वबुदं तथा॥

(अ॰ ह॰ उ॰ अ॰ २१)

(सु. चि. अ. 22/77 से 81)

# SARVA SARA MUKHA ROGAS ( MUKHA PAKA )

" Vagbhata	Sarangdhara	according to Sushrutha
œ	) (J)	3 Diseases

# CLASSIFICATION OF THE DISEASES OF MUKHA.

 6. 8.	ι ω 4 το	~ · ·	SI. No.
	Kaphaj Mukha Paka	Vataj Mukha Paka Pittaj Mukha Paka	Sushrutha
	Kaphaj Mukha Paka Rakthaj Mukha Paka Sanni Pathaja Mukha paka	Vataj Mukha Paka Pittaj Mukha Paka	Sarangdhara
raka. Urdwa guda Mukhaarbuda Puthi Mukha.	Kaphaj Mukha Paka Rakthaj Mukha Paka Sanni Pathaj Mukha	Vataj Mukha Paka	Vagbhata

Sarvasara Mukha rogas are named as "Mukha Paka". occur by spreading competely in the Mukha so only named as Sarvasara mukha rogas.

## NIDANA SAMPRAPTHI OF MUKHA ROGAS.

## Aetio pathology of mukha roga :-

Lose of appetite, Indigestion, constipation, eating of very hard, hot, cold items; improper cleaning of teeth and mouth Intestinal worms, caries teeth, general weakness, Hypovitaminosis (defficiency of B. Complex, Vit C) Allergy to Tooth powder or paste, physical and chemical traumatic injuries to oral mucosa; pitta and Raktha, witiating food intake. Due to above causative factors, vatadi doshas vitiate the oral mucosa and causes mukha paka.

## Common Signs Symptoms of Mukha Paka.

1) Inflammation of Oral mucosa. 2) Ulceration in the mouth. 3) Altered taste. 4) Pain Burning Sensation and itching sensation in mouth. 5) Difficulty in mastication and deglutition 6) Headache and discomfort.

# Common Treatment Principles of Mukha Roagas.

Nasya, Rkatha Mokshana) 3) Lekhana Or Bhedhana Or Chedan. therapies. 4) Prathisarana (application of medicine) 5) Kavala Or Gandoosha (Gargling) 6) Dhooma the causative factor) 9) Dosha shamana chikitsa. 10) Samyak mukha prakshalana (Perfect mouth wash).

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## COMMON YOGAS FOR MUKHAPAKA

After shareera shodhan, Local treatments should give, among the Local treatments Kavala Gandoosha and prathisaran are having utmost importance in the management of Mukha rogas.

## Medicines for Gargling and for Oral Intake. :-

a) Triphala Kashaya Or Aaragwadadi Kashaya Or Pancha Pallava Kashaya Or panchakola Kashaya Or Dashamoola Kashaya Or Pancha Valkala Kasahaya Or Pancha tiktha Kashaya Or udumbara Kashaya Or Shigru Kashaya Or jathi Patra Kashaya.
Or Mutra Or Ksheera Or Madhu Or ghritha Or

Yastimadu Kashaya Or Pancha Lavanas + Water Or shubra Bhasma + Water or Tankan Bhasma + Water.

 Patoladi quath: Decoction prepared with Patola shunti Triphala Vishala, Karanja, Katuki, Haridra, Daruharidra, Guduchi + honey.

<u>B</u>

- 2) Khadhiradi Kashaya: Decoction prepared with Khadhira Agaru Triphala, Arjunatwak, malathi, Babbula twak.
- 3) Kshudradi Kashaya: Decoction Prepared with kantakari, Guduchi Jathipatra, Daruharidra, Triphala + Honey.
- 4) Jathyadi Kashaya: Decoction prepared with Jathipatra, Daru-Haridra, Triphala, Dadimapatra, Babbula twak, Badari moola twak and add Tankan bhasma shubra bhasma and use for Gargling.
- 5) Sapthacchadadi Kashaya: Decoction prepared with Sapthacchada, usheera, patola, Musta, Kiratha tiktha, Katuki, Yastimadu, amlavetas, chandan.
- 6) Tiladi Kashaya :- Decoction prepared with Tila, Neelothphala, Ghritha, Sugar, Milk and Lodra.
- 7) Dhaarvee Kashaya + Honey
- 8) Jathipatra kashaya + Honey .
- 9) Dhaarree Ghana Kwatha + Gyrika + Honey
- 10) Patoladi ghana Kwatha + Gyrika + Honey.

(Patola, Nimba, Yastimadu, Vasa, Jathipatra, Babbula, Khadhira

sara, Triphala ).
11) Go mutra, Hareetaki + Sadapa, Kusta and usheera Kashaya.

0 Khadhiradi Taila etc., are used for gargling. Haridradi Taila, Arimedadi Taila

Tablets and powders for chewing.

pared, half (1/2) movement and prepared concentrated medicine, tabets are prepared should be added, heat it and prepared concentrated medicine, tabets are prepared Amra Twak, Aljula in an arrange for decoction, then remaining pared, half (1/2) medicine should be prepared for decoction, then remaining half pared, half (1/2) medicine should be prepared concentrated medicine, tabets are not pared. Tablets and powders in the Tablets and Tablets and

ed for chewing.

2) a) Khadhiradi Vati b) Lavangadivati c) Trijatha Kadi Vati) Eladi churna

2) a) Khadhiradi Vati b) Lavangadivati c) Trijatha Kadi Vati) Eladi churna e) Krishnajeera + Kusta + Indrayana should be used for chewing

3) Triphala small pieces or Powder, Yastimadu small pieces Or powder, Amla small pieces Or powder, jathi Patra, Tamala patra + Khadira + Pudeena +

E) Dantha Manjan ;- (Prathisaran)

1) Pathadi Manjan :- Patha, Daruharidra, Kusta, Musta Manjista, Katuki,

2) Kaalak churna manjan :- Gruhadhooma, Rasanjan, Patha, Trikatu Triphala, Yavakshara, Loha bhasama, Tejobala, chiktrak + Honey,

3) Peetak Churna Manjan :- Daru haridra, Saindhava lavan, Manashila, Yavakshara, haritala, Ghee and Honey

4) Tankan bhasma + Honey Pratisaran

5) Shubra bhasma + Honey pratisaran.

Saindhava Lavana + Honey Pratisaran.

Nasya Karma :-

J

vitiation of doshas and used as nasal drops. Medicated ghee or oil or powder or liquid should be selected according to

Ex: 1) Yastimadwadi Taila 2) Ksheera bala taila etc.

and use for dhooma pana. Dhooma Pana:- Medicine should select According to the vitiation of doshas

3 If the disease is not controlled by medical treatment, surgical methods like LEKHANA BHEDHANA and CHEDANA has to do in assoication with

Same remedies useful in Mukha rogas,

Triphala guggulu, Sapthamrutha Loha, khadhiradiyati, Gandak rasayan tab, Lavangadi Vati Trijathakadi vati, G. 32 tabs, Kanchanara guggulu, Naradeeya Lakshmivilas ras, Lagusuthasekara ras, Arogyavardini vati, sarivadi vatı, Lakshmivilasras, Maha Lakshmivilas ras, maha lakshmivilas ras with Gold,

Pravala, Akeeka, Jaharmohra, shankha etc., are more beneficial in the manage-Sannadyarista, mahamangistadi quath, Maha Rasnadi quatha, Bhasmas like muktha Pravala Akadka Lahamangistadi quath, Maha Rasnadi quatha, Bhasmas like muktha Pasmankyaras, vyadhiharan rasayan.Panchatiktha-gugglu-ghritha, Khadhirarista, Chuma, Panchanimba chuma, Trikatu chuma, Tankanbhasma, shubra bhasma Haridra Khanda, Chopacheenyadi Churna, Yastimadu Churna, Triphala

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#### 1) VATAJ MUKHA PAKA (Stomatitis)

The vitiated vata dosha causes a single Or multiple ulcers in the Oral mucosa with acute inflammatory changes. The disease is progressive in nature, very painful, mucosa becomes dry and rough. The associated symptoms are inflamed lips palinion, and palate, difficulty in opening the mouth and sensitivity to cold items. etc.

Treatment :-

Nidana Parivarjan (Avoiding causative factors ) 7) Lekhana and prathisarana. dhooma pana (medicated smoking) 5) Snehana Nasya (Vata hara Nasal drops) 6) virechan, Nasya, Raktha Mokshan) 3) Kavalagraha or Gandoosha (gargles) 4) Snehika 1) Sneha, sweda (Oleation and Fomentation ) 2) Shodhan Karma (Vaman,

Some Yoga of Gandoosha (Gargling)

decotion + Honey 6) Vata hara taila or ghritha. Pallava Kashaya 5) The decoction of Triphala, patha, Mrudweeka, jathi patra, the 1) Triphala Kashaya 2) Dashamoola Kashaya 3) Rasnadi Kashaya 4) Pancha

Nasya :- With Vata hara taila or Ghrita

00 Dhooma Pana: - Snehika dhooma pana with shalaphaladi drugs. Sarja rasa Khadhiradi vati etc., drugs.

D Pratisaran :- Local application of medicine 1) Pippali + Lavan + Ela + Honey.2) Pancha lavana + Honey

## 2) PITTAJA MUKHA PAKA

(Acute Stomatitis )

ing pain. altered taste (Bitter mouth), difficulty in mastication and deglutition. Smaller reddish yellow papules develop throughout the mouth. causes severe burn-The vitiated pitta dosha causes inflammation and viceration of oral mucosa.

Treatment :-

Shaman Nasaya 5) Shaman Dhooma Pana 6) Nidana Parivarjana 7) Lekhana and virechan, Nasya, Raktha Mokshan etc ) 3) Kavala graha Or Gandoosha (Gargling) 4) 1) Sneha, sweda (oleation and Fomentation ) 2) Shodhan Karma (Vaman,

Some Yoga of Gandoosha:-

Usheera, mustadi Kashaya 7) Gargling with Milk Or Sugar cane juice Or Ghee. kakolyadi Kashaya 4) Pancha Tiktha Kashaya 5) Yastimadu Kashaya 6) Chandana. 1) Triphala Kashaya 2) Pancha valkala Kashaya 3) Vidari gandhadi or

B Nasya and Gandoosha :-With sheeta Veerya, Pitta hara taila, ghritha Or Kashaya.

1) Similia Similia Pallava Kalka 5) Jathi Pallava Kalka etc., Chandanadi Lepam 4) Nimba Pallava Kalka 5) 0 Pratisaran Yoga (Local application of the Medicine with the following drugs Pratisaran Yoga (Louca Fritha 2) Amalaki Churna + Water 3) Hariga 1) Shunti Choorna + Ghritha 2) Amalaki Churna + Water 3) Hariga 1) Shunti Choorna + Ghritha 2) Jathi Pallava Kalka etc.

### (Sub acute Or Chronic, Stomatitis ) 3) КАРНАЈ МИКНА РАКА.

mucosa, The House Sevelop and become more severe by compression and exc. The Villative over The Villative over the Villative of the Villative over the Villative o The vitiatied Kapha dosha produces inflammation and ulceration in the oral

#### Treatment :-

5) Virechanika Dhooma Pana. 6) Lekhana / Bhedhan / Chedan and Prathisaran 7 Virechan Nasya Raktha Mokshan) 3) Kavalagraha and Gandoosha 4) Shodhana Nasya 1) Sneha sweda (Oleation and Fomentatin ) 2) Shodhan Karma (Yaman

## Some Yoga of (gargling) Gandoosha:-

A) Ghritha Or taila or madhu Or Ksheera

Aaragwadadi Kashaya Or Trikatu Kashaya. B) Triphala Kashaya Or pancha valkala Kashaya Or Panchakola Kashaya Or

- C) Haridradi taila Or khadhiradi taila.
- D) Khadiradi vati Or Trijathakadi Vati Or

Lavangadi vati for chewing.

F) Oral intake of E) Oral in take of Ativisha, patha, musta, Devadaru, Katuki, Indrayava, with Gomutra

Trikatu Or pancha Kola Kashaya

## 4) SANNIPATHAJ MUKHA PAKAM.

All the symptoms of Tridosha and Raktha dosha are present in this

Treatment :- Tridosha hara Chikitsa should be given.

mocha ras + Madhu. Pratisaran with Haridra, Kaseesa, Kamkshi, Rasanjan,

## 5) RAKTHAJA MUKHA PAKA.

Signs symptoms and treatment is like pittaja mukha paka

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#### (Intestinal Obstruction) 6) URDWA GCDA

the mouth the Apana vayu is obstructed and propogates upwards and emits foul smell through The Annavaha srotas is obstructed due to Gulma Arsha and Kapha by which

Treatment :-Asadya

2) Symptomatic treatment.

#### 7) (PUTHI VAKTRATHA) (Puthi Mukha)

teeth (with dantha Kaasta) and mouth The Vitiated dosha produces Foul smell in mouth due to improper cleaning of

#### Treatment :-

- 1) Sneha Sweda
- 2) Vaman
- 3) Teekshna nasya
- 4) Teekshana Dhooma Pana
- 5) Brushing of teeth and gargling with manjista, Dhataki, Lodra, priyang, and Padmaka.
- 6) Sheetada Upakusha Chikitsa (these two are Dantha moola Vyadhies)
- Daruharidra, Guduchi, Nimba and patola etc.,. 7) Gandoosha, with the decoction of Triphala, Jathi Patra., haridra
- 8) Irimededi taila Gandoosha
- 9) Chewing of Khadhiradi Vati Or Lavangadi vati

## 8) MUKHA ARBUDA

(Tumours in oral cavity,

and excision the disease recurs and aggravates. oral cavity (in the internal surface of Kapola i.e. cheeks.). By compression incision The Vitiated Kapha dosha produces blackish white colour tumour in the

#### Treatment :-

- Chedhan and prathisarana with Kshara + Shunthi + Madhu. 2) Gandoosha with the decoction of Guduchi + nimba + Tila taila + Honey. 1) If tumour is smaller
- 3) Teekshna Nasya, Dhooma pana and abhyanga.
- 4) In take of food prepared with yava-
- 5) Kapha hara Picchu at Vrana\_(Ulcer or lesion)

(In total 19 Disease are Asadya. in mukha roga)

7) Mamsatana 8) Shathaghnee 9) Rohini (Tridoshaj)

5) Balasa 6) Galaugha

<u>,</u> 61	4, 13,	, κ	<u> </u>	SI. No.
Gala Rogas	Jihwa Roga Talu Rogas	Dantha Wyadhies	Osta Rogas	Name of the Group
1) Swaraghna 2) Valaya 3) Vrunda 4) Vidari	1) Alasa.  1) Talu arbuda.	<ul><li>2) Sannipathaja Danthanadi</li><li>1) Shyava Dantha</li><li>2) Dhalana</li><li>3) Bhanjanaka</li></ul>	1) Mamsaja Osta prakopa 2) Rakthaja osta prakopa 3) Sannipathaja Osta Prakopa.	Asadya Vyadhies.

#### SARVA SARA MUKHA ROGA.

SI.No.	Name of the Disease	Modern Name	Vitiation of <u>Dosha</u> Sadya Asdya	Lakshana	Chikitsa.
1.	Vataja Mukha Paka	Stomatitis	Vataja Sadya	Dry - rough progressive Vata Ulceration & inflammation of Oral mucosa associated with pain and sensitivity	hara Chikitsa. Sneha, sweda, Sneha, Gandoosha Snehika dhooma.
2. 5]	Pittaja Mukha Paka	Acute Stomatitis	Pittaja Sadya	Ulceration and inflammation of oral mucosa with severe burning pain and bitter taste	Pitta hara Chikitsa Sneha, Sweda, Gandoosha (Tiktha Kashaya) Shamana dhooma and nasya.
3.	Kaphaja Mukha Paka	Chronic Stomatitis	Kaphaja Sadya	Ulceration and inflammation of oral mucosa with negligible pain, itching sensation and with unpleasent sweet taste	Kapha hara Chikitsa Sneha, sweda, Teekshna Nasya, Gandoosha, Dhooma, Lekhan and Pratisaran.
4.	Sanni Pathaj mukha paka	Acute Stomatitis	Tridoshaja Sadya.	All the symptoms of Tridosha present	Tridosha hara Chikitsa.

N .	I Name of the Disease	Modern Name	Vitiation of <u>Dosha</u> Sadya Asadya	Lakshana	Chikitsa.
5. 6.	Rakthaja Mukah paka Urdwa guda	Acute Stomatitis	Rakthaja Sadya.	All the Symptoms of Vitiated Pitta present	Like pittaja muka paka.
7	Dut	Obstruction	Kaphaja Asadya	Apana Vayu is obstructed by kapha - gulma Arsha and emits foul smell thorugh the mouth	Asadya.
	Puthi Mukha	Oral unhygien Condition.	icVatadi Sadya	Foul smell comes from mouth due to improper brushing of teeth.	Sneha - sweda Kavala, Nasya, dhooma Mukha Prakshalana.
8.	Mukhaarbuda	Tumour in Oral cavity	Kaphaj Shastra Sadya	White tumour develops in mouth aggravates by excision	Chedan Kshara Pratisara

# COMMON SIGNS AND SYMPTOMS OF PHARYNGEAL DISORDERS.

symptoms:-

Pain (Odynophagia):- Pain on Swallowing and may referred to ear.

Salivation:- it may increase due to infrequent swallowing due to pain, it may be blood stained and with foul smell in malignanay and dental sepsis. Irritation or Foreign body Sensation in throat due to allergy Or post nasal.

short palate and palatal perforation. Nasal regurgitation due to improper functioning of soft Palate, cleftpalate, discharge, foreign bodies inflamed mucosa and malignancy.

Swellings of neck:- Lymphadenitis Or metastatic lymph nodes. Dysphagia: - Due to laryngopharyngeal or Oesophageal diseases

signs: The signs of the diseases depends upon the nature of the disease, but the

common signs. are. Congestion Or oedema Or inflammation of Pharyngeal mucosa

Mucoid Or mucopurulent Or purulent secretions membrane formation Or lymphadenitis are observed Inflamed glands, development of cysts Or tumours Or abscess or

Treatment - Principle.

usage of cytotoxic drugs. 7) Stoping the irritants. 8) Symptomatic treatments. of Vitamines -Nutrients (Vit-B.C.) 6) Excision of malignant tumours, Radiation, and drugs. should use.4) Medicated hot gargles Or steam inhalations. 5) Supplementation accordingly.3) Anti inflammatories analgesics anti pyretics, and anti histamines, etc., Culture and sensitivity of throat swab and using Broad spectrum antibiotics Cause should be removed.

# DISEASES OF BUCCAL CAVITY (ORAL CAVITY)

STOMATITIS: systemic diseases. Diffuse inflammation of the oral mucosa caused by the following local and

#### Local Causes :-

1) Traumatic Stomatitis:-

cheeks and gums becomes eroded, producing painful shallow ulcers, sloughy base and with surrounding hyperaemia. food, medicaments, fumes, smoke and radio therapy, The epithelium of the palate It is due to ill fitting of dentures, incorrect brushing of teeth, hot and spiced

Ireatment :-1) Removal of primary cause 2) Orodental hygiene 3) Antiseptic gargles 4) Supplementation of vitamines (especially B.Complex) 5) Antibiotics anti inflammatories and analgesics.

2) Infective Stomatitis :-Inflammation of the oral mucosa with bacteria virus Or fungi.

Happes surproduces small painful vesicles which later ulcerates... cosa and palate and produces small painful vesicles which later ulcerates... a) Viral Infective stomatitis :-I Infective stomatius.

Herpes simplex, herpes Zoster etc., involve the mucosa of lips, buccal mu.

b) Bacterial stomatitis :-

tococcus Or Gonococci infection. erial stomatitis:

Acute ulcerative stomatitis commonly caused by the staphy lococcus, strep.

c) Fungal Stomatitis :-

ngal Stomatitus :-Stomatitis caused by candida albicans, etc. it is known as thrush Or Monilia

Treatment : 1) remove of the property of the p sis.

Treatment :- 1) Removal of causes 2) Antibiotics 3) Antiseptic Gargles 4) Orodental Treatment :- 1) Removal of causes 2) Antibiotics 3) Antiseptic Gargles 4) Orodental Treatment :- 1) Removal of causes 2) Antibiotics 3) Antiseptic Gargles 4) Orodental Treatment :- 1) Removal of causes 2) Antibiotics 3) Antiseptic Gargles 4) Orodental Treatment :- 1) Removal of causes 2) Antibiotics 3) Antiseptic Gargles 4) Orodental Treatment :- 1) Removal of causes 2) Antibiotics 3) Antiseptic Gargles 4) Orodental Treatment :- 1) Removal of causes 2) Antibiotics 3) Antiseptic Gargles 4) Orodental Treatment :- 1) Removal of causes 2) Antibiotics 3) Antiseptic Gargles 4) Orodental Treatment :- 1) Removal of causes 2) Antibiotics 3) Antiseptic Gargles 4) Orodental Treatment :- 1) Removal of causes 2) Antibiotics 3) Antiseptic Gargles 4) Orodental Treatment :- 1) Removal of causes 2) Antibiotics 3) Antiseptic Gargles 4) Orodental Treatment :- 1) Removal of causes 2) Antibiotics 3) Antiseptic Gargles 4) Orodental Treatment :- 1) Removal of causes 3) Antibiotics 3) Antiseptic Gargles 4) Orodental Treatment :- 1) Removal of causes 3) Antiseptic Gargles 3) Antisepti

# 3) RECURRENT ULCERATIVE STOMATITIS - APHTHOUS ULCERS.

psychosomatic factors, habitual constipation, autoimmune reactions, and vitamine deficiencies etc. are suggested. Aetiology is un known but various factors like viruses, endocrine disturbances,

tion, S) maintainance of Orodental hygiene. 4) Local hydro cortisone usage. 5) Antibi-Treatment: 1) Cause should be ruled out 2) Vitamines and nutrients supplementasoon ulcerate and surrounded by enythema, they are very painful and usually occur in gingiobuccal groove tongue, or buccal mucosa; Single Or multiple small vesicles appear in Oropharyngeal mucosa, the vesicles

## 4) ANGULAR STOMATITIS

otics - Anti inflammatories and analgesics. 6) Antiseptic gargles.

ulceration and cracking of the angles of the mouth is observed as the main sign of th It is due to III fitting of dentures and avitaminosis (Riboflavin deficienency)

Removal of the cause 4) Local applications of 1% Gention voilet 5) Symptomatic treat-Treatment:- 1) Supplementation of nutriets and Vitamines. 2) Orodental hygiene 3)

## 5) BEHCETS SYNDROME

and blindness) and conjunctivitis. Oral cavity, External genitalia (Some times neurological problems like encephalitis This is a disease of un known aetiology characterised by ulceration of the

Administration of Steroids. 2) symptomatic treatment.

## 6) LICHEN PLANUS

co exist हों is a pre malignant condition of unknown aetiology, the mucosal lesions are

Treatment :- Symptomatic treatment

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### 7) PEMPHIGUS

repture leaves a raw surface it is also with unknown aetiology. Treatment :-Bullus lesions without erythema on oral mucosa and skin, the bullae when

Administration of steroids and symptomatic treatment.

8) STOMATITIS DUE TO DRUGS.

matitis. Excessive doses of Bismuth lead iodides and mercury etc., causes the sto-

9) STOMATITIS DUE TO SYSTEMIC CAUSES.

mal- absorption syndrome and haemotalogical lesions (Agranulocytosis - leukemias, poly cythemia, mononucleosis etc.,) Stomatitis occur due to vitamine B. Complex, deficiency, pernicious anaemia,

### 10) LEUKOPLAKIA

malignant lesion. smoking, alcohol, spices, dental sepsis, syphilis and vitamin deficiency, it is a pre It occurs as white patches in oropharyngeal mucosa, usually arises by heavy

Treatment :-

Avoiding the irritating Factors and Biopsy to rule out malignancy.

11) ERYTHROPLAKIA

## 12) SUBMUCUS FIBROSIS.

Red patches on oral mucosa, it is also a premalignant lesion

# It is characterised by diffuse dense white patches on oral and pharyngeal mu-

cosa, due to deposition of Fibrous tissue in submucosa, often associated with Tris-Predisposing Factors. 1) Irritants- Chewing of paan, Tobacco, Betal nuts, and intake of Chillies and spicy Exact cause is unknown but following factors may cause the disease.

## Clinical Features :-

nyperacidity.

Nutrition and Vitamine deficiency. 4) Poor Oro dental hygiene. 5) Achlorhydria and foods. 2) Trauma \_ Repeated mechanical and thermal trauma. 3) Nutrition :- Poor

enitis, (submandibular) involvement of cheeks, leads to failure in blowing whistling and area, hard palate and soft palate, it leads to difficulty in mastication and swallowing sucking etc., White patches are seen in the Oral cavity on the cheeks, retromolar poor oro dental hygiene, deafness and malignancy may supervene in some cases. Trismus, Burning sensation in Oral cavity, recurrent ulcers in mouth, lymphad

#### Ireatment :-

6) Symptomatic therapy. Cortisonse Or Hyaluronidase. Once a week submucously. 4) Surgery. 5) Physio therapy 1) Avoiding the irritants 2) Correction of dental hygiene . 3) Local injections of Hydro

## TUMOURS OF THE ORAL CAVITY .

A) Benign Tumours.

1) Cyst - Usually retention cysts develop in the Floor of the mouth or in tongue (Mu-

and require surgical excision. 2) Ranula: A Cysuc arrown of sublingual salivary gland, appears bluish in colour tongue, commonly associate with sublingual salivary gland, appears bluish in colour tongue, commonly associate with sublingual salivary gland, appears bluish in colour tongue, commonly associate with sublingual salivary gland, appears bluish in colour tongue, commonly associate with sublingual salivary gland, appears bluish in colour tongue, commonly associate with sublingual salivary gland, appears bluish in colour tongue, commonly associate with sublingual salivary gland, appears bluish in colour tongue, commonly associate with sublingual salivary gland, appears bluish in colour tongue, commonly associate with sublingual salivary gland, appears bluish in colour tongue, commonly associate with sublingual salivary gland, appears bluish in colour tongue, commonly associate with sublingual salivary gland, appears bluish in colour tongue, commonly associate with sublingual salivary gland, appears bluish in colour tongue, commonly associate with sublingual salivary gland, appears bluish in colour tongue, commonly associate with sublingual salivary gland, appears and appears are salivary gland, appears ar cous cysts).

2) Ranula :- A cystic swelling develops in the Floor of mouth and under surface of the country of the cystic swelling develops in the Floor of mouth and under surface of the cystic swelling develops in the Floor of mouth and under surface of the cystic swelling develops in the Floor of mouth and under surface of the cystic swelling develops in the Floor of mouth and under surface of the cystic swelling develops in the Floor of mouth and under surface of the cystic swelling develops in the Floor of mouth and under surface of the cystic swelling develops in the Floor of mouth and under surface of the cystic swelling develops in the Floor of mouth and under surface of the cystic swelling develops in the Floor of mouth and under surface of the cystic swelling develops in the Floor of mouth and under surface of the cystic swelling develops in the cystic swelling develops in the Floor of mouth and under surface of the cystic swelling develops in the cystic state of the cystic swelling develops in the cystic state of the cystic state of the cystic swelling develops in the cystic state of the cy

3) Haemangioma :-

mangloma:It occurs usually on the tongue Or in the inner surface of cheek, it requires

4) Papilloma ;-

surgical excision. It usually occurs on the tongue and other parts os oral mucosa, requires sur-

Pleomorphic adenomagical excision.

It Usually occur on the palate

lis c) Malignant epulis It is benign as well as malignant, require surgical excision and A swelling on gums, having different types a) Fibrous epulis b) Gaint cell epu-

### 7) Ludwig's angina :-

and breathing, the oedema may spread to larynx. induration of the sub-mandibular and submental region, causes difficulty in swallowing The patient appears toxic with swelling and Oedema of floor of the mouth and brawny This is an acute inflammatory condition producing cellulitis of Floor of mouth.

Treatment :- 1) Heavy doses of pencillin. 2) Symptomatic treatment.3) may require

### 8) Ameloblastoma :-

The tumour arises frequently from mandible - benign in nature and need surgi-

## B) Premalignant Lesions.

Ex:- Leukoplakia and syphylitic ulcer.

## C) Malignant Tumours :-

chewing, smoking, poor orodental hygiene, thought to play a part for the origination of aspect of cheek etc., the aetiology is uncertain but factors like tobacco, betel nut Squamous cell carcinoma is the commonest malignancy of tongue and inner

which bleeds easily on touch, it also involve the adjacent areas and lymph node me-The lesions present as a slough covered ulcerated mass with raised margins

Treatment:- Surgery and Radio therapy

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### PHARYNGITIS

Inflammation of Pharynx is known as Pharyngitis.

A) Naso Pharyngitis:

2) Chronic Naso pharyngitis 1) Acute Naso Pharyngitis.

b) Atrophic

1) Acute Naso Pharyngitis:-It may be Bacterial Or viral and it follows nasal Or sinus infection.

### Clinical Features :-

headache and body ache. etc., Dry ness, burning sensation in naso pharynx, pain while swallowing, Fever,

Like acute Rhinitis and acute sinusitis

## 2) a) Chronic Simple Naso Pharyngitis:-

Chronic Nasal Or Sinus Infections may extend and cause the disease

## Clinical Features :-

with granular pharyngitis. Post nasal irritation, inspiratory snoring and mucopurulent sticky discharge

Treatment:- 1) Cause should be treated. 2) Alkaline douches and gargles

Similar to atrophic Rhinitis 2) b) Chronic Atrophic Pharyngitis.

# B) OROPHARYNGEAL AND LARYNGO PHARYNGEAL INFECTIONS

It is of Two Types-

non specific Acute and Chronic pharyngitis, again they are divided into two, specific and

#### Pharyngitis:-

Specific - Non specific | Specific - Non specific

## Acute Pharyngitis :-

Acute Inflammation of pharyngeal mucosa is known as Acute pharyngitis

## 1) Acute Simple Pharyngitis:-

pox, influenza, typhoid etc., inflammatory lesions may also occur after trauma by a dental sepsis, mouth breathing, after administration of certain drugs. like potassium lodide, mercury, Arsenic etc., It is common in other infections like measles Chicken Foreign body or after instrumentation. It may occur because of so many Local and systemic causes. Common cold,

## Clinical Features :-

hoarsness of voice. Examination reveals diffuse congestion of pharyngeal mucosa, tonsils with its pillars, palate, uvula may be swollen and Resolution usually occurs. in 3 to 7 days (it depends on the seviority of the infection) Sore throat, mild fever, head ache, body ache, cough dysphagia, slight

Treatment: 1) Grant Treatment: 1) Symptomatic treatment, Antibiotics, anti inflammatories and analgesics 5) Symptomatic treatment, Treatment:-1) Bed rest 2) Plenty of fluids 3) Alkaline gargles 4) Giving of suitable and analgesics 5) Symptomatic treatment.

2) Acute Septic Pharyngitis :-It is more acute tractions, staphylo coccus aureus, pneumo coccus etc. It is more acute nature than simple pharyngitis, Bacterial in Origion, organ, It is more acute nature than simple pharyngitis, Bacterial in Origion, organ, It is more acute haemolyticus, staphylo coccus aureus, pneumo co

predisposing Factors:
1) Low body resistence 2) unhygienic condition. 3) Poverty (malnutrition) 4) Epedemio 1) Low body resistence 2)

form in schools and hospitals.

lymph nodes are Visualised. sils and epigious, cross and pillars, pulse is full and rapid at to the posterior pharyngeal wall palate, tonsils and pillars, pulse is full and rapid at First then weak and tender cervical Clinical Features :-High reven, "By The Book and elongated, mucopurulent discharge is sticked sils and epiglottis, Uvula its swollen and elongated, mucopurulent discharge is sticked sils and epiglottis, Uvula its swollen and elongated, mucopurulent discharge is sticked sils and elongated, mucopurulent discharge is sticked sils and elongated, mucopurulent discharge is sticked. High Fever, rigor, dysphagia, sore throat, congested pharyngeal mucosa, ton-

Complications.:-

1) )Oedema of Larynx 2) Ludwigs angina.

Antipyretics, Anti inflammatories. 5) Tracheostomy in laryngeal Oedema broad spectum antibiotics accordingly. 3) nutritious soft liquid diet. 4) Analgesics, 1) Bed rest 2) C/s of throat swab to detect the infective organism then administration of

3) Ludwig's Angina :-

extending on to the neck, a brawny indurated swelling forms under the chin, there is acute dysphagia and sore throat This is cellulitis and eventually abscess formation in the floor of the oral cavity

tomatic treatment. 1) Incision and drainage of abscess if needed. 2) Broad spectrum antibiotics. 3) Symp-

4) Vincent's Angina :-

and spirochaete. it spreeds to soft palate and gums also This is an acute ulcerative lesion of one or both tonsils due to fusiform bacilli

Predisposing factors :-

Carious teeth, pyorrhoea, - Malnutrition.

toxic and with cervical lymphadenitis. membranous patch on one or both tonsils, bleeds easily from mouth, patient appears Clinical Features :- Acute pain in throat, high fever, dysphagia, greyish ulcero

freatment :-

1) High dose of pencillin injections. 2) Antiseptic mouth wash 3) Symptomatic treatment

5) Acute Diphtheretic Pharyngitis:-

diphtheriae, usually occur in the first decade of age, occurs by airborne or by direct Diphtheria is an acute infection due to specific organism Corynebacterium

Clinical Features :-

pulse rate, that is disproportionate to the rise of temparature. Child complains of sore throat, fever and discomfort in throat. There is raised

piagnosis:- Swab culture is confirmmatory (Growth of C. diphtheariae or K.L.B.) brane formation may extend to the larynx causing respiratory obstruction. Neurologioften englarged and tender due to secondary infection. In advance cases the memremoval leaves a raw bleeding surface. The child is often toxic, cervical glands are tonsils and extends to Uvula and soft palate, it cannot be easily removed and on cal and cardiological complications like neuritis myocarditis etc., can occur. The characteristic feature is the greyish white membrane formation on faucial

diet, 4) Bed Rest. 5) Tracheostomy may be necessary in diphtheretic laryngitis. Units. 2) Systemic antibiotics (Pencillin is drug of Choice). 3) Nutritious soft liquid able without waiting for bacteriological confirmation, usual dose is 20000 to 100000 1) Anti toxin :- Early administration of anti diphtheric serum (A.D.S.) is always advis-

6) Agranulocytosis Or agaranulocytic Angina:-

reduction of neutrophils) associated with Oro-pharyngeal ulceration, pyrexia and se-This condition is characterised by polymorpho nuclear Leukopenia (marked

and amidopyrine- These causes bone marrow destruction and non formation of neutro-Actiology: Sensitivity to drugs like chloramphenical sulphonamides, cytotoxic drugs

Clinical Features :-

tonsils, pillars, palate, posterior pharyngeal wall and throughout The gastro intestinal tract. W.B.C. count falls below 3000 per C.M.M. and neutrophils are rarely seen. Head ache, pyrexia, sore throat and malaise Pharyngeal ulcers develop on

freatment :-

Transtusion. Pentnucleotide is the drug of Choice by injection to stimulate bone marrow. 4) Blood 1) With drawal of the concerned sensitive drugs. 2) heavy doses of pencillin.3)

7) INFECTIUS MONONUCLEOSIS OR GLANDULAR FEVER:-

agent is Epstein-Barr-virus, where there is increase of large mononuclear cells. It is a viral disease, Some times associated with oral lesions. The causative

pharenopatry and splearonegaly. Olinical Features > । Features " Sore findat, malaise, weakness, nausea, Vorniting, fever, generalised । Sore findat, malaise, weakness, nausea, Vorniting, fever, generalised । ।

1) Paul - bunnel test positive, differential count of W.B.C.

Treatment : Symptomatic

B) Monillesis (Thrush) :-

the attribution of previous write patches on Orophanyngeal mucosa surrounded by enythema write Or grayish write patches on Orophanyngeal mucosa surrounded by enythema. deplinative children white Or grayest write your answer easily by leaving a raw area, it commonly occurs in the The membrane can be removed easily by leaving a raw area, it commonly occurs in the ilitiasis (Timusny -It is a fungal infection of mouth due to candida albicans, The lesions appear as

Treatment :-

Good Nutrition Supplementation. Treatment:

1/2 gention Voilet Or Nystatin inglycerine Or Silver nitrate. 2)

9) Leucaemia :-

cerations with membrane formation. Acute lymphocytic leaucaemia some times associate with Oropharyngeal ul-

10) Herpes Simplex :-

ful vicers form after rupture of the vesicles. It is a viral infection causes small vesicles in themouth and Oropharynx, pain-

Treatment ?

drugs like acyclovir. 4) Symptomatic treatment. 1) Antiseptic mouth wash. 2) Lignocaine 2% appplication to reduce pain 3) Antiviral

Herpes Zoster:-

Treatment :- Same as obove, and may referred to the ear Vesicles occur unilaterally in a row on the pharynx Or palate, pain is severe

## CHRONIC PHARYNGITIS

Sions Chronic inflammation of pharynx, may be due to specific Or non specific le-

## 1) CHRONIC NON SPECIFIC PHARYINGITIS.

the disease, those, predisposing factors are as follows. Various aetiological factors (Exogenous endogenous etc) influence and causes

Allergic rhinitis 3) Allergic sinustitis 4) Chronic tonsilitis 5) chronic Orodental diseases. the patient takes mouth breathing leads to dryness and inflammation of pharynx. 2)

Allergic rhinitis 31 Allergic discrete to the patient takes mouth breathing leads to dryness and inflammation of pharynx. 2) the patient takes mouth handles, nasal polyps, cysts, tumours adenoids etc. So that 1) recurent nasal paranasal infections causes nasal block due to deviated nasal septiant transfer a state of that

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 Bronchitis 7) Eosinophilia 8) intestinal parasites, 9) Tobacco beteinut chewing, 10) Smoking 11) in take of severe irritants like alcohol 12) atmosphere pollution and 13) Smoking factors, causes prolonged irritation to the pharmy and account and 13) Smoking factors, causes prolonged irritation to the pharynx and caues diseases.

Clinical Features :-

and blood stained spit. Irritation and foreign body sensation in throat, dry cough, pain, Vocal Fatigue

1) chronic catarrhal pharyngitis:

Diffuse congestion of pharyngeal mucosa,

2) Chronic Granular Pharyngitis:

colour (hypertorphy of lymph nodules). posterior pharyngeal wall appeares to be stubbed with granules - pinkishred in

3) Follicular pharyngitis:-

inflammatory changes (mucous glands). Single Or multiple Yellowish cysts develop in pharyngeal wall due to chronic

4) Lateral band pharyngitis:-

nasal discharge. Manifest at the lateral portion of the pharyngeal wall along the track of post

5) Atrophic pharyngitis:-

Rhinitis. Examination reveals a dry thin glazed mucosa with wrinkles and crusts. Atrphic changes in pharyngeal mucosa as a result of extension of atrophic

tion 4) Local alkaline gargles. 5) Chemical Or electric Cautery. 6) Symptomatic treat-1) Cause should be treated 2) Hawking should be avoided. 3) Medicated steam inhala-

Keratosis Pharyngitis:-

out growths on faucial tonsils, base of the tongue and posterior pharyngeal wall. It nard with no erythema peripherally. results from hypertrophy and keratinisation of superficial epithelium, The lesions are It is a condition of unknown aetiology which is characterised by whitish horny

No specific treatment require, subside within few months

## CHRONIC SPECIFIC PHARYNGITIS

## 1) Tuberculosis Of Pharynx :-

and dysphagia, anti tubercular Treatment should be given. rounded by area of congestion in Oro pharyngeal region. The Chief complaint is pain It is secondary to chronic pulmonary tuberculosis. Mucosal ulceration sur-

2) Lupus of Pharynx:-

And the streak down, ulcerate and heal by cicatrisation It is secondary to Lupus of nose, tubercles appear on pharyngeal mucosa. The

Anti tubercular treatment should be given.

## 3) Syphilis of Pharynx:-

congestion, mucosal patches, snail track ulcers and lymphadenitis, congestion, mucosal patches, snail track ulcers and lymphadenitis, stion, mucosal pateries, soft palate, soft palate and in tertiary syphilis the gummatous ulcer involve hard palate, soft palate and hills of Pharymx is usually involved in the secondary stage of syphilis, with diffuse Pharymx is natches, snail track ulcers and lymphadenitis.

drug of choice for the treatment. x. Biopsy and serological tests confirm the diagnosis and pencillin is used as the

## 4) Leprosy of Pharynx :-

nodules ulcerate, destruct and perforate the palate and heals with cicatrisation. osy of Pharyux -The pharyngeal involvement is Secondary to nasal and skin lesions. Leprous

## PHARYNGEAL ABSCESSES.

## 1) QUINSY (PERITONSILLAR ABSCESS).

while tonsilectomy and recurrent Oropharyngeal infections, leads to Quinsy. Aetiology:- Recurrent Tonsilitis, Foreign Body embedded in tonsil, tonsilar tag left as peritonsilitis and culminates into peritonsillar abscess, it is usually unilateral, sule and medial to superior constrictor muscle, it originates in the peritonsillar tissue In Quinsy Or peritonsillar abscess collection of pus outside the tonsilar cap.

### Clinical Features :-

medially and downwards by the abscess. nation. Anterior pillar of tonsil and uvula becomes inflamed, tonsil is congested, pushed 3) Salivation 4) Rattling sound of saliva while speech. 5) Fever 6) Bodyache. on exami-1) Pain in throat which refer to ear and aggravate during swallowing 2) Trismus

and infection. 2) Oral hygiene. 3) Incision and drainage of the abscess, after 4 to 6 weeks tonsilectomy should also perform to prevent recurrence of quinsy. 1) Antibiotics, anti inflammatories and analgesics to get relieve from pain inflammation

## 2) Retropharyngeal Abscess.

It is of two types a) Acute b) Chronic.

## a) Acute Retropharyngeal Abscess :-

the children.it is secondary to Oropharyngeal nasopharyngeal, traumatic and It occurs due to suppuration of the retropharyngeal lymph nodes, usually affect

### Clinical Features :-

infections, Acute lymphadenitis of jugulo digastric lymph nodes and nodes of upper Fever, malaise, dysphagia, dyspnoea, cough, stiffneck, Oro naso pharyngeal

Diagnosis:- soft tissue X ray of neck lateral view confirm the diagnosis

1) Broad spectrum antibiotics, steroids and symptomatic treatment 2) incision and drainage of abaceaectronics.

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b) Chronic retropharyngeal abscess:- It is due to tuberculosis of cervical spine b) Chiving the consist incision and Drainage and Tubercular treatment.

3) PARA PHARYNGEAL ABSCESS:

Oropharynx, parotid lesions and sub mandibular glands, The infection spreads to para pharyngeal space From infected tonsil, teeth,

Clinical Features :-

tion of neck shows a diffuse tender swelling below the angle of mandible on affected patient looks ill, toxic, Febrile, difficulty in swallowing and Trismus. Examina-

Treatment :-

Treatment 1) Broad spectrum antibiotics. 2) Incision and drainage. 3) Symptomatic treatment.

## TUMOURS OF PHARYNX

## A) Tumours of Nasopharynx :-

1) Benign tumours2) maligant tumours

## 1) Benign Tumours .

ally, arises from theroot of the naso pharynx, causes nasal obstruction, epistaxis, proptosis, swelling of cheeks, neuralgic pain and intracranial extension. and by the extension of disease causes broadening of nose (Frog face deformity) nasal Voice (rhinolalia clausa ), blocking of eustachian tubes, conductive deafness a) Nasopharyngeal Fibroma :- it is smooth lobulated red Or pink turnour, usu-

Investigations :- 1) X ray of Naso pharynx, Base of skull and sinuses. 2) Biopsy. Treatment:-Surgery Or radio therapy.

## OTHER BENIGN TUMOURS ARE

b) Adenoma c) Papilloma d) salivary tumour e) Enchondroma. f) Angioma. etc.,

# 2) MALIGNANT TUMOURS OF NASOPHARYNX.

cell carcinoma. The commonest site of origin is fossa of Rosen muller The commonest (60 to 75%) malignant tumour of Naso pharynx is squamous

## Clinical Features :-

<sup>obstruction.</sup> epistaxis. etc. soft palate, Trigeminal neuralgia: 2,3,4,6,9, 10, 11, cranial nerves may involve, nasal Metastasis in neck glands, conductive deafness, immobility of homolateral

Diagnosis ;- 1) X ray 2) Cytology and biopsy posterior rhinoscopy

Ireatment :- 1) Cytotoxic drugs. 2) Radiotherapy

The other malignant tumours of naso Pharynx are

1) Sarcoma 2) Lympho Epithelioma 3) Adeno Carcinoma 4) Chondroma etc.,

## B) Tumours of Oropharynx.:-

1) Benign 2) premalignant 3) Malignant tumours.

1) Benign Tumours ;-

enoma, angloring, receiption and have a sensation of lump in the throat, difficulty in breathing, deglutition and have a sensation of lump in the throat, Benign tumous of Benign tumous of Benign tumous and lipoma are rarely found. Large tumours produce enoma, angioma, neurilemma and have a sensation of lump in the throat In Tumours:

Benign tumours of Oropharynx are not so common, Papilloma fibroma adenign tumours and lipoma are rarely found. Large tumours not ad-

2) Premalignant Tumours :-

malignancy and irritating factors should be forbidden. Leucoplakia is a common to bettlenut. Biopsy should be done to exclude tion by smoking, chewing of pan and bettlenut. Biopsy should be done to exclude malignant uniform of pan and bettlenut. Biopsy should be done to chronic irrita-

3) Malignant Tumours:

nant Tumours.

Sommonest malignant tumour is squamous cell carcinoma the site of Ori-

sarcoma. lympho epithelioma, and adeno carcinoma. gin is ionstructional wall. The other malignant Oro pharyngeal tumours are part of posterior pharyngeal wall. The other malignant Oro pharyngeal tumours are gin is Tonsilo Lingual sulcus and may also originate in tonsils Uvula Palate and lower

movements, otalgia, altered speech and upper cervical metastasis. The common clinical features are sorethoroat dysphagia, difficulty in tongue

The cytology and biopsy confirms the diagnosis.

Treatment ;- 1) Cytotoxic drugs. 2) Radio therapy

# C) Tumours of Hypo Pharynx Or Laryngo Pharynx :-

region and the lateral and posterior pharyngeal wall. ynx upto the upper end of oesophagus, it includes two pyriform fossae the post cricoid This part lies posterior to the larynx extends from the lower limit of the Orophar-

spread of the disease is vast even upto lungs and other viscera. may be betainut chewing and smoking. Pyriform fossa, is commonest site for cancer, elderly age (except post cricoid cancer that occur in females ) the commonest cauase Malignant tumours are common than benign. Commonly affects the males of

Clinical Features :-

with refered pain in the ear. on swallowing. In the late stages progressive dysphagia is themain symptom along Early symptoms are vague and the patient may complain discomfort in throat Or Pain

soft lissues of neck 4) Hypo pharyngo scopy 5) Direct laryngo scopy 6) Biopsy 7) X Diagnosis ;- 1) Indirect laryngo scopy 2) neck examination for lymphnodes 3) X ray of

Treatment :- Surgery and radio therapy.

## COMMON SIGNS AND SYMPTOMS OF LARYNGEAL, & OESOPHAGEAL DISORDERS.

expectoration, purulent blood stained foul sputum comes in malignant cases. 5) Dysonoea with strider Or Williams which is not responding to conservatory treatment. 4) Cough - Irritative cough with expectoration primitive cough with pharyngeal Or oesophageal lesions. 3) Hoarsness of Voice - with 2 weeks history pnoea with stridor Or Wheezing. 1) Pain - may radiate to ear. 2) Dysphagia - difficulty in swallowing due to larnygo

> oedema conditions or purulent secretions From throat. 10) Polyps Or cysts Or conditions or paralytic changes are seen in larynx. 6) Cervice: of the control of laryngeal mucosa alongwith pharyngeal mucosa. 9) Congestion or or mucopurulent Or purulent secretions From the control of the 6) Cervical or peripheral lymphadenitis Or metastatic lymphnodes . 8) Congestion or

THE TREATMENT PRINCIPLE :-

7) Stero--tracheostomy if needed. 10) Surgery (Laryngectomy) Or radio therapy Or Chemotherapy. tamilies, systematics and cough linetus. 8) Avoiding irritants. 9) Findo tracheal intubation Or 1) Steroids and cough linetus. 8) Avoiding irritants. 9) Endo tracheal intubation Or 1) Surgery (Larynoectomy) Or 2.1. spectrum (1998). 4). Hot gargles. 5) medicated steam inhalations. 6) Vocal rest and Bed rest. 1) Caure antibiotics accordingly. 3) Anti inflammatory drugs Or analgesics Or antihis-1) Cause should be removed. 2) Culture and sensitivity of throat swab and using broad

#### LARYNGITIS

(I) Chronic laryngitis A) Specific B) Non specific 1) Acute laryngitis A) Specific B) Non specific Inflammation of larynx is known as laryngitis it is of two types.

## I/A) Acute Non specific Laryngitis:-

- a) Acute non specific laryngitis.
- b) Acute laryngo tracheo bronchitis.
- c) Acute epiglottitis.

## I/B) Acute Specific Laryngitis.

a) Díphtheric laryngitis.

## II) A) Chronic Non specific Laryngitis

- a) Chronic non specific laryngitis.
- b) Hyper karatosis (leucoplakia).
- c) Vocal nodule.
- d) Vocal polyps.
- e) Reinka's Oedema.
- f) Atropic laryngitis etc.,

## II/B) Chronic specific laryngitis:-

- a) Tuberculosis
- b) Syphilis.
- c) Lupus,
- d) Leprosy
- e) Scleroma etc.,

# I/A/a) ACUTE NON SPECIFIC LARYNGITIS

It is the commonest cause of temporary hoarseness of voice

#### Aetiology :-

etc., improper instrumentation during intubation, endo laryngeal surgery and mis use changes, recurrent attack of infections like tonsilitis, adenoids, sinusitis, rhinitis, pharyngitis, Bronchitis etc., habits or irritative factors like smoking, alcohol. tobacco chewing The infection (bacterial Or viral Or Exanthemata) Common cold, seasonal

Clinical Features :al Features:
Hoarseness of Voice, Rawness feeling in throat, irritative cough, pain, stridor,

and constitutional symptoms.

ments of vocal cord. other parts of larynx lilic primers in influenza like infections and restricted move-purulent in severe cases) white plaques in influenza like infections and restricted movesigns observed by white plaques in influenza like infections and restricted by other parts of larynx into pinkish red colour, Oedema, exudation, (mucoid initially and other parts of larynx into pinkish red colour, Oedema, exudation, (mucoid initially and other parts of larynx into pinkish red colour, Oedema, exudation, (mucoid initially and other parts of larynx into pinkish red colour, Oedema, exudation, (mucoid initially and other parts of larynx into pinkish red colour, Oedema, exudation, (mucoid initially and other parts of larynx into pinkish red colour, Oedema, exudation, (mucoid initially and other parts of larynx into pinkish red colour, Oedema, exudation, (mucoid initially and other parts of larynx into pinkish red colour, Oedema, exudation, (mucoid initially and other parts of larynx into pinkish red colour, Oedema, exudation, (mucoid initially and other parts of larynx into pinkish red colour, Oedema, exudation, (mucoid initially and other parts of larynx into pinkish red colour, Oedema, exudation, (mucoid initially and other parts of larynx into pinkish red colour, of lary nstitutional symptomes.

nstitutional symptomes.

signs observed by indirect laryngoscopy are, congestion of Vocal cords, and signs observed by indirect laryngoscopy are, congestion of Vocal cords, and signs observed by indirect laryngoscopy are, congestion of Vocal cords, and signs observed by indirect laryngoscopy are, congestion of Vocal cords, and signs observed by indirect laryngoscopy are, congestion of Vocal cords, and signs observed by indirect laryngoscopy are, congestion of Vocal cords, and signs observed by indirect laryngoscopy are, congestion of Vocal cords, and signs observed by indirect laryngoscopy are, congestion of Vocal cords, and signs observed by indirect laryngoscopy are, congestion of Vocal cords, and signs observed by indirect laryngoscopy are, congestion of Vocal cords, and signs observed by indirect laryngoscopy are, congestion of Vocal cords, and signs observed by indirect laryngoscopy are, congestion of Vocal cords, and signs observed by indirect laryngoscopy are congestion of Vocal cords, and signs observed by indirect laryngoscopy are considered by the vocal cords of the Vocal cords of Vocal cords o

complications:- Infection spreads to Tracheo bronchial tree 2) Dyspnoea 3) Peri

#### Treatment :-

antiinflammatories and antihistamines. 7) Steroids and cough linctus. 8) Avoiding irrithol Or Eucalypius On Tracheostomy for Children in stridor. 6) antibiotics tracheal intubation Or Tracheostomy for Children in stridor. 6) antibiotics thol Or Eucalyptus Oil in Hot water). 4) Hot gargles and neck Fomentation. 5) endo ment:Bed rest 2) Vocal rest (Restrict speaking) 3) Medicated steam inhalation (men-

## I/A/b) ACUTE EPIGLOTTITIS.

The epiglottis get inflammed and becomes markedly swollen.

Dyspnoea, pain especially during swallowing, Fever and discomfort in throat

needed in Children, with stridor. 1) Vocal rest 2) Steam inhalation 3) Antibiotics 4) Steroids 5) Tracheostomy may be

# I/A/C) ACUTE LARYNGO TRACHEO BRONCHITIS.

power and with virulent infection. It is more complicated than diphtheria. involved, the child appears toxic, it commonly occur to the people with low resistence It is a severe condition in which larynx and tracheo bronchial tree entirely

haemolyticus, It causes oedema, congestion and crusting of entire tracheo bronchial The common infective organisms are virus, H. influenzae. streptococcus

### Clincal Features :-

tree with membrane formation. rales and Rhonchi of lungs and acute follicular Or ulcersevere dyspnoea. in examination Congestion and Oedema of entire tracheo bronchial High Fever, Cough, hoarsenes of Voice, dysphagia, discomfort in throat and

copy to suck the secretions. 5) Tracheostomy may needed in children with stridor. 1) Broad spectrum antibiotics. 2) Steriods. 3) Endo tracheal intubation 4) Bronchos-

## I/B/a) LARYNGEAL DIPHTHERIA.

like laryngeal obstruction. It is due to extention of faucial diphtheria. It may lead to serious complications

Coryne bacterium diphthriae is the causative agent, a membrane is formed on

larynx and causes laryngeal obstruction,

and chest is clear. Clinium problem and greyish white membrane formation on tonsils larynx etc., Clinical features: - Mild fever, tachycardia with weak pulse, cough hoarseness of

and Circo.

Erytinon: (aryngeal obstruction. 6) Tracheostomy for persistent stridor 7) Fluid intake. Treating (Treating of Treating Treatment:- 1) Antitoxin 40000 to 100000Units. 2) Antibiotics (pencillin or II) CHRONIC LARYNGITIS.

and nonspecific aetiological factors. Chronic inflammation of larynx is known as chronic laryngitis it may occur by specific

## ||/A/a ) Chronic Nonspecific Laryngitis:-

Predisposing factors.:-

etc., repeated attack of acute laryngitis with incomplete treatment leads to chronic like smoking tobacco chewing alcohol etc., atmospheric pollution with dust fumes infections, misuse or over use of voice (Teachers actors singers etc), irritative habits Chronic inflammatory focus of tonsils adenoids, teeath, gums, nasal, paransas

### Clinical Features ;-

sation in throat, and patient develops a tendency to clear the secretions of throat (hawking - Choking). Hoarseness of Voice, dry irritative cough, raw sensation or forgeign body sen-

visualised in larynx according to the vitiation. O/E Hyperaemia, hyperplasia, atrophy, oedema, viscid secretions etc, signs are

#### Treatment :-

ments. /) surgical corrections by Microlaryngoscopy etc., 6) Antibiotics expectorent, Anti allergic anti inflammatory and other symptomatic treat ing tobacco chewing, alcohol etc., 3) Inhalation of medicated steams, 4) Traeating the Infective sources like tonsils adenoids etc., 5) Change of environment or place of work 1) Rest and Vocal rest. 2) Avoid irritative factors those causing the disease, like smok-

## II) A/b) Vocal Nodules (Singer's nodes)

nodules appear in pinkish or pearly white and rarely exceeds 1.5 mm of size. etc., Hoarseness of Voice, strain in Voice, pain in the neck and On examination the misues Or over use their Voice continuously for a long time. Ex: Actors, singers teachere tion of anterior 1/3 and middle part) it commonly occurs in the female and those who Chronic nodular hypertrophy of free edge of vocal cords (approx - at the junc-

Treatment principles are same but when the nodules are big those should be ex-

cised under operative micro laryngoscope.

II/ A/c ) Vocal Cord Polyp :-

region and become visible on coughing or phonation. If is a peduliculary form both the cords. The polyp may hang down into the sub glottic missure and sometimes form both the cords. The polyp may hang down into the sub glottic ) **vocal Cord PolyP**Nocal Cord PolyP

One of the polyp may hang down into the sun of t

Clinical features and Treatment is like vocal nodules.

## II/A/d) Laryngeal hyperkeratosis (Leucoplakia)

patient must remain under continous supervision. voice and white raised patches on vocal cords Bipsy rules out the malignancy but the of vocal corus vaverers to syphilic infection, etc. The clinical features are hoarseness of tobacco chewing, or due to syphilic infection, etc. The clinical features are hoarseness of tobacco chewing, or due to syphilic infection, etc. The clinical features are hoarseness of tobacco chewing, or due to syphilic infection, etc. The clinical features are hoarseness of tobacco chewing, or due to syphilic infection, etc. The clinical features are hoarseness of tobacco chewing, or due to syphilic infection, etc. of vocal cords davelops due to chronic irritation to laryngeal mucosa by excessive smoking. It is considered with a chronic irritation to laryngeal mucosa by excession of epithelium Laryngeal nypernament and thought the considered to be a pre malignant lesion in which white patches develop on the lis considered to be a pre malignant lesion in which white patches develop on the

supplementation 6) Excision of vocal cords or striping of surface Or Radio therapy 1) Voice rest 2) Biopsy 3) Avoiding irritants like smoking et., 4) Steam inhalation 5) Vit-A

## II/A/e) Reinke's Oedema.

Reinke's space, Indirect laryngoscopy reveals bilateral pale spindle shaped swellings of It is Blateral Polypoidal degenerationand Oedema of membranous Vocal cords in

Treatment ;-Micro surgical excision of stripes of mucosa from membranous cords

## III/Aff) Atrophic Laryngitis:-

cold secretions and hoarse Vice. glands disappear and there is crusting dryness of throat irritative cough blood stained mu-It occurs in association with atropic rhinitis Or atropic pharyngitis, the mucosal

Treatment :- Voicerest, controlling the infective focus.

## II/B/a} Tuberculosis of Larynx.

sputum blood or lymphatics It is usually secondary to pulmonary tuberculosis, mode of infection is by infected

cords, epiglottis) is involved. The posterior part of larynx (inter arytenoids region, vocal cords, arytenoids, false

c) Sputum for A.F.B. d) Mantoux test e) Biopsy & hitopathology of granulation. perichondritis - Cold abscess Formation) It is comfirmed a) Clinical features b) X-ray chest Oedema and perichondritis of larynx develops in later stages (Tuberculoma - ulceration gested ulcerated in posterior 1/3, the ulceration produces the mouse nibbled appearance. and the movements of vocal cords also affected. The vocal cords initially pale then con-Hoarseness of voice, aphonia, cough, fever, pain on swallowing (refers to the ear)

treatment. 5) Tracheostomy if needed. Treatment ;-1) Tuberculosis treatment. 2) Vocal rest. 3) nutritious diet. 4) Symptomatic treatment streatment at treatment.

Syphilis of Larynx:-

But gumma may occur on epiglottis and anterior 1/2 of Vocal cords in the tentary and syphilis. SyphinIt is rare now a days. In primary secondary stages of syphilis it doesn't affect the

Clinical Features ;-

deeply ulcerated, perichondritis and laryngeal stenosis occur in late stage hoarseness of voice, difficulty in breathing, anterior part of laryngeal mucosa is

piagnosis:- 1) VDRL test. 2) Biopay.

Treatment:-

Treatment 2) Tracheostomy and laryngoplasty if needed 1) Anti Syphilis treatment 2) Tracheostomy and laryngoplasty if needed

I/B/c Leprosy of Larynx:-It is rare diffuse nodular infiltration of epiglottis, andenoids, talse cords and defor-

II) /B/d) mity and stenosis of larynx in late stages may result. Laryngeal Scleroma.

larynx and causes stenosis of larynx. Treatment :- 1) Streptomycin 2) Steroids 3) Tracheostomy 4) Laryngial dilatation. Rhino scleroma of the nose causes the disease but affecting subglottic region of

II/B/e) Laryngeal Lupus :-

are involved, destructive lesions, ulceration and cicatrical changes occurs It is secondary to Lupus vulgaris of nose, The epiglottis, Eryepiglottic folds, arytenoids

Treatment: - Anti Tubercular treatment.

## II/B/f) Perichondritis of Larynx:-

and malignancy Inflammation of laryngeal cartilages due to trauma, infection (T.B. syphilis etc.,)

# Pain, Hoarseness, inspiratory dyspnoea, Abscess formation and stenosis of larynx.

Clinical Features :-

Treatment ;-

- Antibiotics 2) Steroids 3) Tracheostomy
- laryngeal dilatation 5) Laryngectomy

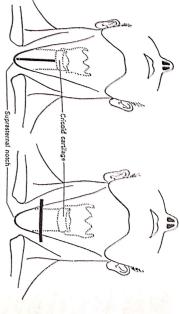
## TUMOURS OF LARYNX

Turnours of larynx classified into 1) Benign turnours 2) Malignant turnours

## 1) Benign Tumours of Larynx:-

a) Papilloma b) haemangioma c) Fibroma d) Chondroma e) Adenoma f) Myoma g)Lipoma h) Granuloma i) Retention cysts j) Dermoid cyst k) Laryngocele I) Vocal nodules m) Polyp of

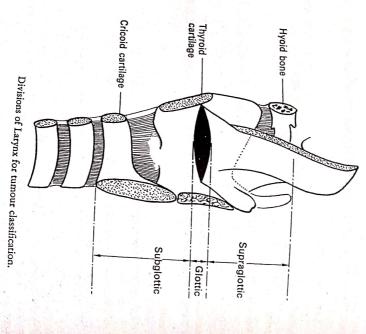
papilomas and Fibroma are common, rest of the diseases are rare. Benign tumours are Frequently seen than malignant, among the benign tumours



Vertical incision; for beginners, and in emergency

operations, for cosmetic reasons. Horizontal incision; in elective

Tracheostomy incisions.



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) Papilloma :- a) Single B) Multiple.

a) Single Papilomas :-

Treatment :and may be pedunculated. The common clinical features are hoarseness of voice and le Pay....
Common in adult male, it usually come from the edge of the vocal cord anteriorly

b) Multiple Papillomas ;-Treatment.

Treatment the treatment of the excised mass is send for histopathological excision for the conformation of condition of the disease

cords and ventricular bands but may extend to epiglottis and tracheobronchial tree. Common in children and infants, most probably it is viral Origin, originates on vocal

Clinical Features :-

cavity and spreads completely. if excised like single papilloma, have tendency to recur. Hoarseness of Voice, difficulty in breathing, multiple papillomas fill the larynngeal

Treatment :-

surgery are also used. 1) Antibiotics Steroids etc., has no use. 2) Repeated surgical excision 3) cryo and laser

2) Fibroma :-

matory Origin. It appears as reddish mass with smooth surface, produces hoarseness of formation of fibrous tissues element or Organisation of sub mucosal haematoma Or inflam-It is usually arises from the Vocal cords and others parts of larynx, it is either new

Treatment :-

Excision by Direct micro laryngoscopy.

Note: - other benign tumours are not common.

## MALIGNANT TUMOURS OF THE LARYNX.

Classification:-

1) Krishaber's (1879) Isambert (1876) Classification

Intrinsic B) Extrinsic.

2) Lederman's classification. ventricu lar bands, ventricles and marginal zone (Supra hyoid portion of Supra glottic carcinoma-24% - arising in Infrahyoid portion of epiglottis,

b epiglottis ary epiglottic folds and arytenoids). Glottic carcinoma = 66% commonest, arises in vocal cords anterior

Subglottic carcinoma = 10% commissure and posterior commissure.

C

It arises in the walls of subglottis (under surface of true cords.

3) T.N.M. classification is the latest widely accepted classification for malignant tumours. M= Metastasis. I = Tumour, N= lymph nodes

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CHAIL MANN, HARIOSE A KADISPIKA, ÖLETI OLI OETOETOES, HOS KASTOSES VIDA STAN, BY DIKKON, KARAOSE A KADISPIKA, ÖLETI I OLI OETOETOES, HOS KASTON SE CHANGERIAN DI SHAKE CHENDENIN DENKE O BEST DEKONON SESENTE DENGLOSSE ON SESENTE DENGLOSSE CHENDENING OF CHENDENING

# 1) GLOTTIC CARCINOMA OR CARCINOMA OF VOCAL CORDS

only 4%, so prograsis is good if turnour is treated early. He was common to the sentence 210. Youth node involvement is rare, metastasis is many of the Vocal cool in its anterior 210. Youth node involvement is rare, metastasis is If is the commonest type emong the ell, common site is tree upper surface or

involve the other cord) (The spread Occurs locally along the cord to the anterior commissure and may

## 2) SUPRAGLOTTIC CARCINOMA

cault flower like growth prognosis is better than utcerative growth. to the deep vervical nodes on both side of neck (40%), So only prognosis is very poor. The turnours are detected in late stages, due to rich lymphatic drainage of this area metastasis The Growth arises from infrainyoid, epiglottis, ventricular band and ventricles. The

## SUB GLOTTIC CARCINOMA

lower deep cervical and paratracheal pretracheal mediastinal glands. vocal cord or below the anterior commissure. Lymphatic spread is moderate (17%) to the It is not common, early detection is difficult. Affecting site is subglottic surface of

### CLINICAL FEATURES:

- = Among 3 types of carcinoma symptoms appear earlier in glottic cancer than
- N Metastasis also poor 4%, so only prognosis is good in glottic carcinoma.
- అ Hoarseness of Voice also earlier symptom in glottic carcinoma.
- 4 carcinoma. Irritative cough and feeling of discomfort in throat appears early in supra glottic
- 5 sputum, cervical lymphadenitis Other common symptoms are pain, dysphagia, dyspnoea, blood stained

DIVENCES 2) Organic paralysis. (D) (D) A) MOTOR PARALYSIS. Bilateral 1) Functional paralysis (Eflateral adductor paralysis) PARALYSIS OF THE LARYNX AND SPEECH DISDRIDERS Incomplete Unilateral Chemo therapy. Radio therepy. erce Or absence of neck nodes and distance of metadasis The Choice of treatment depends on the extent site, histology of tumour, pres Treatment: Eggs. X ray chest. Soft insole X Ray of neck Hours to Roomstossi-Cirical Features, Surgery-Partial or total lanynosciony with or without neck dissection. ridirect and Direct lenyingo scopy 11 Either Right Or Left side Either abductors or adductors. b) Bilateral (a) Unilaterel A) Motor Paralysis: (B) Sensory Paralysis EBEB Complete in complete Complete. incomplete

H H Abductors and adductors.

Complete

NOTE: - Unitateral paralysis is only for abductors, adductors commonly Bilaterally paraly-

recurrent laryngeal nerve of vagus except cricothyroid (by superior laryngeal nerve of vagus) AETIOLOGY: - Most of the intrinsic muscles of larynx having motor nerve supply of by

The causes of recurrent laryngeal nerve paralysis are.

- Central (Bulbar lesions Or Cortical lesions Or Corticobulbar lesions)
- 2) Peripheral -Lesions of recurrent laryngeal nerve proper

# ) LEFT RECURRENT LARYNGEAL NERVE PARALYSIS:

It is more common.

nary tuberculosis Or Fibrosis etc. mitral stenosis, Aortic aneurism, following patent ductus arteriosis operation, and pulmo-CAUSES IN CHEST:- Carcinoma bronchus, mediastinal growth, carcinoma Oesophagus,

CAUSES IN NECK: are, carcinoma thyroid, following thyroid surgery, penetrating wounds

Malignant metastasis etc.,

2) RIGHT RECURRENT LARYNGEAL NERVE PARALYSIS Causes only in new and Causes only in new and tumours Aneurism of subclavian artery, thyroid surgery, Apical tuberculosis and tumours Aneurism of subclavian artery, IT RECURREN I LAND Same as on left and right side commonly involved in Causes only in neck are - same as on left and right side commonly involved in Causes only in neck are - same as on left and right side commonly involved in

3) GENERAL CAUSES: LIKE DIABETES, SYPHILIS, DIPHTERIA ENTERIC FEVER, STREPTOCOCAL INFECTIONS.

4) INDIOPATHIC CAUSES.

BILATERAL PARALYSIS. carcinoma of Oesophagus, cut throat injury and peripheral neuritis etc., RAL PAHALTOW.

1) Abductor paralysis causes Idiopathic, malignancy of thyroid, thyroid surgery,

1) Abductor paralysis causes Idiopathic, malignancy of thyroid, thyroid surgery,

2) Adductor paralysis:-

ground. It is functional or commonly seen in girls and women with psychological back

3) Total Paralysis:-

Viral neuritis, peripheral neuritis etc.

# c) Superior laryngeal nerve paralysis causes :-

Rarely seen alone, usually involved with recurrent laryngeal nerve

CLINICAL FEATURES:-

vocal cord palsy. Voice respiration swallowing and position of vocal cords are affected by the

# 1) IN UNILATERAL RECURRENT LARYNGEAL PARALYSIS:-

Haspiration is not usually affected but there is dyspnoea on exertion

a) In complete (only abductors are paralysed) Vocal cord occupies median position, voice is unaffected, patient is asymptamatic.

b) Complete (Abductors aswellas adductors are paralysed). Vocal cords occupies paramedian position and produces hoarse voice.

# 2) BILATERAL RECURENT LARYNGEAL NERVE PALSY.

voice unchanged but severe dysphoea stridor and cyanosis of larynx occurs. a) Incomplete (abductor palsy) Vocal cords occupies median Or paramedian position

b) Complete (Abductor and adductor palsy)

at rest but get dyspnoea on exertion. Cords remain fixed in paramedian position during phonation, respiration unaffected

## 3) SUPERIOR LARYNGEAL NERVE PALSY

feeble voice, inhalation of Food in to larynx due to sensary paralysis. feeble voice, inhalation of English of cricothyroid muscle. This produces hoarse and It usually occur along with recurrent laryngeal nerve palsy vocal cords lies in cadaveric position of abdurtion due to a cadaveric

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## INVESTIGATIONS

Planting in the principle of the princip Radiography of Barium swallow to detect malignancy of Oesophagus, Radiography of Chest to detect malignancy Or enlargment of heart etc.

Blood sugar estimation for diabetes.

V.D.R.L estimation for syphilis

Neurological investigations. E.S.R estimation for Tuberculosis etc.

Cardio Vascular investigations.

C.T. Scan.

## Treatment

1) UNILATERAL PARALYSIS:-

Specific cause should be treated.

If a symptomatic require no treatment. If hoarse Voice present that should be corrected by speech therapy, Taflon paste inj into vocal cords, implantation of cartilage and Arytenoidopexy in mid line (This procedure requires, if paralysis persist for more than 9 to 12 months.)

Specific treatment for the cause.

Intubation Or Tracheostomy for severe stridor and dyspnoea

Arytenoidectomy for the dyspnoea patients.

## 3) SUPERIOR LARYNGEAL NERVE PALSY:

Specific treatment for cause

00 Ryle tube feeding.

Tracheostomy

## 4) BILATERAL ADDUCTOR PALSY.

Speech therapy.

Psychotherapy.

Shock treatment.

## SPEECH AND VOICE DISORDERS

### Speech disorders.

Aphasia - loss of speech due to lesion of cortical speech centre of brain.

Dysphasia - Speech disorder due to lesion of cortical speech centre of brain.

Dysarthria - speech disorder due to lessions of cranial nerves responsible for

production of speech.

Stammering - Functional speech disorder where there is break in the flow of

# SPEECH DISORDERS ALSO SEEN DUE TO FOLLOWING.

in mentally retarded children.

in Partially deaf child.

Cleft palate and palatal palsy

1) Rhinolalia (R. Clausa - H. Aprensy )
1) Rhi VOICE DISORDERS:1) Rhinolalia (R. Clausa - R. Aperta) change of Voice due to Nasal paranesal problems,
1) Rhinolalia (R. Clausa - R. Aperta) change of Voice (Phonation by ventricular band instead of Voice)

or due to over tensed voice in males at puberty due to emotional as well as hor 3) Pubophonia - Cracking of Voice in males at puberty due to emotional as well as hor or due to over tensed Vocal cords.)

Weakness of Voice due to pulmonary insufficiency.

Aphonia: loss of voice due to Bilateral vocal cords paralysis. Aphonia: loss of Voice work of larynx, Aphonia: weak voice defect due to weakness of Intrinsic muscles of larynx, Voice asthenia:

Stridor - Noisy respiration.

Treatment :-Cause should be treated.

Auditory and speech therapy for defective speech due to deafness Speech therapy is recommended

Correction of emotional instability.

HOARSENESS OF VOICE.

more than 2 weeks inspite of conservative treatment, laryngeal examination and diagnosis A notice view of the result of the sample from simple laryngitis to malignancy. If hoarse Voice is Causes of hoarse Voice may range from simple laryngitis to malignancy. If hoarse Voice is A hoarse Voice is rough and unpleasant it results from the lesions of Vocal cords.

Tension of Vocal cords and approximation of edges of Vocal cords. It is due to interference with movements of vocal cords, mass of Vocal cords,

## *I) LARYNGEAL - LARYNGO PHARYNGEAL*

A) Congenital Causes

1) Laryngeal web at anterior commissure 2) Cyst and tumours of larynx

B) Traumatic causes.

1) Mis use and over use of Vocie Ex. singers teachers

2) External injuries like strangulation at throat causes haematoma of vocal cord.

3) Internal injuries-inhalation of hot acids, irritant acid, furnes etc.causes laryngitis.

4) Irradiation cauase damage to Vocal cords.

Intubation trauma.

## Infective Causes:-

and scleroma may cause Acute and chronic laryngitis (with hoarse voice) Bacteria virus fungus and specific Organism of Tuberculosis syphilis leprosy lupus

1) Benign and Malignant tumours of larynx causes Hoarse Voice etc.

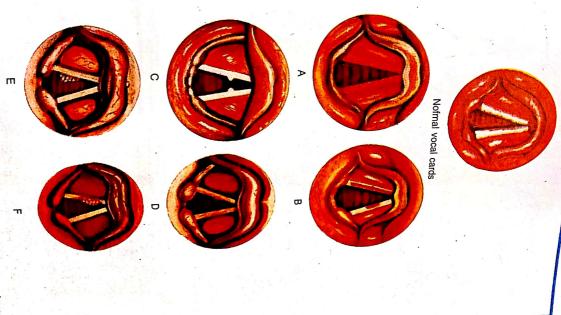
Miscellaneous Causes.

tricle of larynx, and Arthritis of crico arytenoid joints etc., of recurrent laryngeal nerve of Vagus, Functional aphonia, laryngocele, prolapse of the ventricle of larvny and Admitical Company an Singer's nodes, Laryngeal Oedema, Laryngeal Polyp, laryngeal stenosis paralysis

causes recurrent laryngeal nerve palsy and hoarseness. Oesophageal Causes :- Cervical - mediastinal malignancy etc.

soning may cause recurrent laryngeal nerve palsy. Myxoedema, cardiac Oedema, renal Oedema, diabetes, Syphilis, and lead pol-



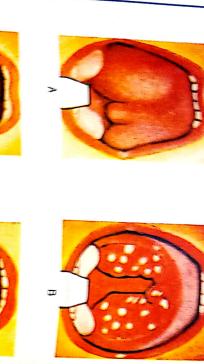


A Acute simple laryngitis. C. Singer's nodules

E. Subglottic (right) carcinoma

B. Submucuous haemorrhage of the vocal cords

F. Carcinoma of right vocal cord. D. Fibroma of right vocal cord.









E. Papillary hypertrophy of the C. Faucial disphtheria. A Acute peritonsillar absess posterior ends of interior

- B. Acute follicular ton
   D. Vincent's angina.
   E. Antro-choanal polyi Acute follicular tonsillitis.
- Antro-choanal polyp (right) as seen by posterior rhinoscopy.

Treatment :-CONTOLINATION At Mebs and divertibule 6) Dyspheges Fishele, 3) Cargains Serioss of op-INFO (1) DINE Y FALL DE CONTROL DE LA CONTROL DE CONTRO Heatment (1990) be headed. 2) Sham hhadann a) hogha, 6) bhadhas hoghad 1) (1995 sho) bh imhannathras hoghad Calana, 6) hoghad, 6) bhadhas hoghad CONGENITAL ANOMALIES OF GESOPHAGUS

(1) OPTIME A) Webs and divertious 5) Dysphaga Lucing.

# SYMPTOMATOLOGY AND DISEASES OF DESOPHAGUS,

metestetic lymph nodes, adony annothing like cough, hoarse voice and dyspones etc. 7) Spread of malena a) Pulmonary symptoms like cough, hoarse voice and dyspones etc. 7) Spread of malena a) Pulmonary symptoms. 1) Dyspins of the Hourn, A) Regurgitation of Food, 5) Heamstemests and materials 3) Hyper additive and materials (a) Hyper additive and materials (b) Hourse voice and dvsnonae at the second materials (b) Puting 87mm 1) Dysphagia :- Diffculty in Swallowing. 2) Loss of Weight and lossof appetus. 3) Hyper 1) Disphagia :- Diffculty in Swallowing. 2) Loss of Weight and lossof appetus. 3) Hyper

#### DYSPHAGIA.

to find out the cause. Ossophagus and due to pressure on the above parts, so thorough investigations are needed Odynophagia). It is a symptom of various diseases of mouth, tongue, pharynx, larynx, The word dysphagia means diffuculty in swallowing the food (painful swallowing is

Aetiology: (A) Oesophageal lesions B) Other than Oesophagial Lesions.

## (I) OESOPHAGIAL LESIONS.

a) In the lumen - Foreign body Or large bolus,

#### b) In the Wall.

Congenital :- Tracheo Oesophageal fistula - stricture,

Traumatic :- Corrosive Food drinks Or poisons,

Inflammatory:- Hiatus hernia after exanthemata and corosive poisoining.

Neoplasma: - Leiomyoma - Carcinoma of Oesophagus,

Neurological :- Paralytic lesions, spasm of cricopharynx and Oesophagus, tetanus

myasinenia gravis

Miscellaneous :- Paterson - Brown - Kelly syndrome in female Achalasia (Cardio spasm)

## (C) Pressure on Oesophagus by:-

Hepatomegaly etc., aorta, mediastinal tumours, cardiac enlargment, pericardial effusion, Retrosternal golfre Malignancy of thyriod gland, lymph nodes. Cervical spondylosis Aneurism of

## (ii) OTHER THAN OESOPHAGEAL LESIONS

- Nose-Nasal obstruction due adenoids and tumours.
- caroinomatous ulcers on tongue, T.B. of tongue, cleft plate paralysis of soft palate, inflammation mation of floor of mouth, dental lesions etc.. Oral cavity - Trismus, Ludwings angina, stomatitis, glossitis

paralytic lesion of pharynx, spastic lesions of pharynx, Pharynx - Acute tonsillatis, Follicular tonsillats, quinsy, carcinoma of pharynx, enocific organisms, Retropharyngeal and parapharyngeal about

and spastic lesions of larynx. cleson of Pice for the Arynx, paralytic lesions of larynx, Laryngeal Oedema Larynx - Caronoma of lawnx.

#### FUNCTIONAL

gioridouso Globus hystericus- painful conditions like glossitis and tonsilitis cause

### Clinical Features >

Menopause age suggests paterson kelly syndrome. #Features -#Ge 20 to 40 Year suggest cardio Spasm. 50 to 70 Year suggest cardinoma.

#### 13 Past History?

rest usery. Anaemia, smoking, alcopholism, Tobaco chewing etc., are contributtory factors

metrongs in Ferrale) hysterical patient may have globus hystericus (Lump in throat without any posi History of ingestion of Foreign bodies contribute Obstructive Lesions. History of corrosive poisining suggest stricture of Oesophagus Poliomyelitis, diabetes diptritheria may cause neurological lesions

**= 6** stricurs and in swallowing of liquids in cardio spasm. Diffculty in swallowing of solid especially due to malignancy and Acute dysphagia due to Acute Oesophagitis or due to to Foreign

Regurgitation of Food especially liquids in cario spasm. occurs in paterson Brown keily syndrome, in Menopause ladies. Glossits, angular stomatitis and anaemia, Chronic cricopharyngeal, dysphagia

Weight loss, neck glands, Hapatomegaly or Ascites, suggests cardinoma Feeling of lump in throat Hysterically in feamle (Globus Hystericus) AL CAS

ostraties total raigrancy. Stationary dysphagia suggest Benign condition, progressive

Slow on set of disease in malignacy but rapid onset suggest miniary esors

w POR DIR LANDE Dyspraga in children suggest congenital lesions and dysphagia in elders

100 given in the list of aetology There are other so many factors those cause dysphagia are An elderly person with the history of dysphagia for more than 2 weeks and not responding to conservationy treatment suggest malignancy.

renouner/nogal abscisses cardio megaly - media stinal tumours, aortic aneurisms etc. steam, Cesophegad Varices, Stricture, malignancy. adenoid, polyps - tumours, by plane - Barlum and soft fiscus X ray ) 1) Cinical Findings 2) Readic logical Examination for the detection of foreign bodies, Cardio

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Hearnogram for Hypochromic anaemia, ESR, Hb%, TC & DC etc., to find out

V.D.R.L- for syphilis to rule out neurological dysphagia.

Blood sugar for Diabetes to rule out neurological dysphagia

Neurological, cardio vascular examination Endoscopy.

Indirect laryngo scopy - Posterior Rhinoscopy neck examination of lymph nodes.

Routene examination of oral cavity and Oesophagus Throat swab for bacteriological Examination.

Nose pharynx larynx to detect abnormalities those causing dysphagia.

#### Treatment:-

The cause should be detected and treat accordingly.

## DYSPHAGIA LUSORIA:-

Aortography). Ex:- Right acritic arch, sub clavian artery and patent ductus arteriosus (Diagnosis by It is a congenital abnormality of Dysphagia due to vascular anomalies of chest

## STRICTURE OF OESOPHAGUS:-

etc., causes severe burns and ulcerations that causes, stricture depending upon the nature of the cause. It is due to congenital, traumatic, inflammatory and malignant. Corrosive poisons

## PLUMMER VINSO SYNDROME:-

superficial pharyngo Oesophagitis is known as plummer virson syndrome. Progressive dysphagia to solids with hypochromic microcytic anaemia and chronic

## **OESOPHAGEAL VARIX:**

the cardiac end. Haemopiesis due to portal obstruction cirrhosis of liver. The condition is found at

## ACHALASIA CARDIA (CARDIOSPASM)

diagnosis). sphincter for the passage of food (Oesophgoscopy and Barium meal X Ray confirm the This is a condition characterised by failure of relaxation of the lower Oesophageal

## CARCINOMA OF OESOPHAGUS.

ate dyscomfort, dysphagia, weight loss, cough and supra davicular ymphrodes enlargment, sophagus, affects in between 40 to 70 Yrs. age group at the middle third of Oesophagus. The growth may be ulcerative proliferative Or inflittrating in nature. The common symptoms Squamous cell Carcinoma is the commonest type of malignant tumour of Oe-

it is confirmed by Barium meal X ray, oesophagoscopy, Biopsy.

# KRIYA KALPA (TREATMENT PROCEDURES)

Ayurveda is the life saving science, aimed to preserve the health and to treat the diseases (swasthasyaujaskarm-Aarthasya roganuth).

In Ayurveda to preserve the normal health different methods are explained, they are - Regular practice of Dantha dhavan, mukha Prakshalan, kavala, Gandoosha, Abhyanga, Vyayama, Pratimarsha nasya, Dhooma Paana, Anjana, Pathya Apathya, Rasayan Vidhi, Nidra, Brahmacharya, elimination of Adhaaraneeyavega, and suppression of dharaneeya Vega. in seasonal doshic variation relavant ahar, vihar, Aushada Vidhi, and for special doshic variations-Vaman (for Kapha), Virechana (forPitta) Vasti (for Vata) Raktha mokshan (for Raktha) and Nasya (Shiro-Virechan) are explained to save the body from doshic complications etc.,

In addition to above, a person by indulging Asaatmya Indriaartha Samyoga, Pragyaaparaada, Parinama and other factors, dosha dhatu and malas are affected, becomes abnormal and produce diseases in the body and mind. So it is the aim of the doctor to treat the diseases by different treatment procedures, selection of the procedures should be decided by the doctor by his professional experience. Some of the treatment procedures are exaplained as follows:

- Swasthasyaujaskaram (Preventive treatment) preservation and promotion of health.
- Artasya roga nuth (curative treatment) cure of the diseases.Curative treatment can be grouped as
- 1) Diiva Vyapashraya Chikitsa (devine therapy) 2) Yukthi Vyapashraya Chikitsa (Rational therapy with drugs diet excercise etc.,3) Satwaavajaya (Psychotherapy).
- III) Yukthi Vyapashraya Chikitsa can be grouped as

  1) Antar parimarjana (internal purification) Ex. Shodhan Karma.

  2) Bahir parimarjana (External purification) abhyanga, seka, sweda and psychotherapy. 3) Shastra Pranidaana (Surgical treatment) Ex. Chedan Bhedan, Lekhan, Vyadan, Seevan Eshan etc.,
- Shat upakramas (Bahir and Antar Parimarjan)
- A) 1) Langhan (karshan) Catabolic therapy 2) Brumhan (Tarpan) Anabolic therapy.3) Rukshan (Dehydration therapy). 4) Snehan (Oleation therapy).5) Swedan (Sudation)6) Stambana (Retaining).
- A) LANGHAN GROUP = Langan, Rukshan and Swedan
  B) BRUMHAN GROUP = Brumhan, snehan and stamban

LANGHAIN.

a) Shodan (Elimination ) of doshas Ex:- Pancha karmas.
b) Shaman (Palliation)

Ex. 1) Deepan (Appetisers) 2) Pachana (digestives Capability) 3) Upavasa (Fasting) 4) Pipasa (Thirst ) 5) marutha (Air bath) 6) Aatapa (Sun bath) and 7) Vyayama (Exercise)

1) In Kshaya (Depleted) Restoration (Brumhan)

<

2) In Kupitha (Vitlated) - Prashaman (Palliation). in chaya prakopa - shodhana therapy and in Achaya Prakopa - Shamana therapy.

In vruddhi (Aggravation) - Nirharan (Elimination). (samhatrupa Vruddhi Samshaman therapy and in Vilayana rupa Vrudhi Shodhan therapy.)

In equilibrium of the dosha paripalya (maintenance) etc are advised to maintain normal health.(preservation of condition.)

Nidana Parivarjan (Avoiding the causes) 2)Aushada Chikitsa (Drug therapy)
 Shastra Chikitsa (Surgical therapies.) 4) Kshara karma. 5) Agni karma.

 Local treatment (Sthanika Chikitsa) 2) Systemic treatments (Sarva dehika chikitsa.)

Note: In Shalakya tantra II, ear diseases Nose diseases Throat diseases and Diseases of Shiras are present, in these diseases. common treatment procedures Are as follows:-1) Karna Prakshalan (Ear Wash) 2) karna pramarjana (Dry mopping) 3) Karna Avadhoolan (Dusting of Fine Powders) 4) Karna Dhoopan (Fumigation) 5) Karna Pooran (Filling the ear with medicine drops) 6) Nasya karma (nasal drops) 7) Nasa pichu (nasal plug) 8) Kavala. 9) Gandhooshan (medicated gargles) 10) Shirolepa (Application of medicine to shiras) 11) Shiro Abhyanga (head massage) 12) Shiro pichu (Putting of medicated varthi at Brahma randra) 13) Shiro Vasti (Keeping Oleus substances on the head by special Procedure). 14) Pratisaran (Applying the medicine to the affected site.)

Note: In the treatment principles of most of the diseases first shodhan karma are explained to eliminate deep rooted systemic doshic vitiation then only local treatments are explained - So only here poorva Karma and panchakarma procedures are explained briefly along with E.N.T. Kriya Kalpas.

# A) SNEHA KARMA ) (OLEATION THERAPY)

It is a process used to induce Oleusness in the body with the help of Sneha Dravyas by "Snehan - Vishyandana and kledana" properties. It is not only Poorva karma (Pre therapy) to panchakarma procedures to mobilise the vitiatted doshas from their sites but also Pradhana Karma (main therapy - One among shat upakaramas - Rukshana Chikitsa) to Vata Vyadhi like diseases. Among the 5 Basic elements (pancha maha Bhuta) Pruthwi and jala are the predominent elements of Sneha dravyas.

Properties Snehana Drugs :-

Properties 2) Guru (heavy Or Weight gaining property ) 3) 1) Snigda (unctuousness) 2) Guru (heavy Or Weight gaining property ) 3) 1) Snigda (unctuousness) 5) Drava (liquidity) 6) Pischila (Stickyness) 3) Sheeta (Coolness) 4) Mrudu (Slow activity ) 9) Sukshma (easily penatration nature ) 8) Manda (Slow activity ) 9) Sukshma (easily penatration)

capacity in to the tissue channels of the body. Sheeta (Coolness) 4) Mruuu (Slow activity ) 9) Sukshma (easily penetrating sara (Spreading nature ) 8) Manda (Slow activity ) 9) Sukshma (easily penetrating sara (Spreading nature ) 8)

Classifications of Snehas Dravyas.

a) sthaavara (CUITECTURE SARShapa a) sthaavara (Animal products) :- Ex - Milk, Curd, Ghee, animal Fat, Bone taila etc.,b) Jaangama (Animal products) 1) According of Yonibheda (uthpathi) 2 types by Charaka. ording of Yonibreua (\*\*\*): - Ex - Tila taila, Erenda taila sarshapa a) sthaavara (collected from plants): - Ex - Milk, Curd, Ghee, animal Fat napa

2) According to action of drugs - by Sushrutha.

shala Parni (10 drugs) Yastimadu, madhu Parni, Meda, Vidarigandha, Kakoli, ksheera kakoli, jeevak, jeevanthi Ex:- Devadaru, Agaru taila etc., m) Snehopaga group by Charak. Ex:- Drakshya mentation). Ex. Shyonaka Priyang taila etc., I) Kusta upayogi (useful in Skin lesions) in white patches) vibheetaki bhallataka taila k) Pandukaram Upayogi (useful in depig-Vata (Vata Pitta Vitiation). Ex:- Taal, narikel taila ., j) Krishneekaran Upayogi (Usefu prayoya (useful in diabetes). Ex. Sarshapa - Nimba Taila etc., i) Pitta Samsrusta upayogu (useful in Urinary Stones), Ex. Bakuchi, Haritaki taila Taila etc., h) vyadyupugi (vseru mana). Ex. Eravaaru taila Kushmand taila etc., g) Ashmari upayogi (Useful in teention of urine). Ex. Eravaaru taila Kushmand taila etc., g) Ashmari upayogi (Useful in teention of urine). Ex. Bakuchi. Haritaki taila Taila eliminate dosnas iruir oring. ex - Karanja, Puthikaranja Sneha etc. e) maha Dusta Vranopayogi (ulcer healing). ex - Karanja, Puthikaranja Sneha etc. e) maha tum.) Ex. Erenda talla etc., ..., Shiro Virechanopayogi (useful to doshas through mouth.) Ex. madan Phala etc., ... c) Shiro Virechanopayogi (useful to doshas through mouth.) Ex. brough nose.). Ex. Vidanga, Sarshana Shah a) Viredian (Parks) b) Vamanopa yogi (Causes Vomitings Or Elimination of tum.) Ex. Erenda taile etc., b) Vamanopa yogi (Causes Vomitings Or Elimination of tum.) Ex. madan Phala etc., c) Shiro Virechanopayori (... a) Virechanopayogi (Causes motions Or Elimination of doshas through recall virechanopayogi (Causes Womitings Or Elimination of doshas through recall virechanopayor).

Classification of sneha drugs according to therapy.

Teekshna Veerya Sneha Aushadas (Ex. Oily drugs used for Vaman - Virechan - Nasya a) Shodhan sneha: Causes Elimination of doshas by mouth, nose, Rectum by

Oily drugs- (Ex- Oily drugs used to control Kusta etc., diseases). b) Shaman Sneha: Causes suppression of doshas in the body by moderate potent

C) Brumhan Sneha; - The oily drugs that gives nourishment to the body (ex:- Ghee)

4) CLASSIFICATION OF SNEHA DRAVYA ACCORDING TO IT'S USAGE:-

Samvahan, Padaghath, Moordha Taila, Gandoosha, Karna Pooran, Akshitarpan a) Bahya Sneha: (External applications) Abhyanga, Lepa, mardan, udavarthan

b) Abhyantar Sneha :- (Internal usage )

For food preparations, Drinks, nasal drops and for medicated enema (Vasti).

snehas c) maha sneha - Combination of 4 Or more snehas. a) Yamala sneha - Combination of 2 Snehas b) Trivruth Sneha - Combination of 3 snehas c) maha sneha sn 5) Classsification of sneha dravyas accoording to combination of drugs.

> 6) Classification of Sneha Dravya according to dosage a) Hruseeyasi Matra (test dose ) b) Hraswa matra (minimal dose c) Madyama a) Fire matra (moderate dose). d) Uttama matra (perfect dose).

7) Classification of Sneha dravyas, according ot sneha paka
a) Mruda paka b) madyama c) Khara paka

a) Mruda paka b) madyama c) Khara paka.

8) Classification of Sneha dravyas according ot good quality (uttama Snehas) 8) Classification (Ghee) B) Taila (Tila Taila) c) Vasa (Fats) d) Maii. (B. عال (Ghee) B) Taila (Tila Taila) c) Vasa (Fats) d) Maija (Bone marrow) عام (Ghee) B) Sarpi (Ghee) B) Sarpi (Ghee) B) Taila (Tila Taila) c)

INDICATIONS OF SNEHA KARMA (OLEATION) (SNEHAN YOGYA)

ministers, Financiers etc., 18) To improve the stamina Or immunity, to face or to preor immature cataract) 5) for the improvement of intellect and memory capacity. 16) the daily habit of excercise 6) Alcoholic people. 7) Debiliated or Weak persons. 8) Old Vamail virible of body. 4) To treat Vata Vyadhi etc., diseases. 5) The people who are having condition of excercise 6) Alcoholic people. 7) Dehiliated a vivibal. Varian virechan etc., 3) To induce Oleusness in the body or to treat Rough and dry vent the diseases. 19) Before Exercise Or Fighting Or to build the body Improper Opening and closing of eye lids. 17) The persons who have mental tiredness, kshaya (Blood loss Or Anaemic) 12) Anxiety 13) Abhishyandi 14) Timira (Dim Vision people 9) Ladies 10) who indulge more sex (Shukra dhathu Kshaya) 11) Haktha dhathu 1) Before Fomentation therapy (Sweda Karma) 2) Before Shodhan therapy like

CONTRA INDICATIONS OF SNEHA KARMA (SNEHAN AYOGYA)

srotas.4) Poor digestive Capacity (Mandaagni) 5) Indigestion(Ajeema) 6) Thirst (trushna) Posioning (Visha dosha) 14) More debiliated conditions. 15) After shodhan karma ness Or atropy of palate (Talu sosha ) 11) Vomitings (Chardi) 12) Ama Dosha 13) 7) Un consciousness (moorcha) 8) Pregnancy (Garbinei) 9) Anorexia (Aruchi) 10) Dry-Vruddhi (fatty persons) 3) Excessive salivation and secretions From Bahirmukha (After Vaman - Virechan Vasti, Nasaya etc.,) Rukshanarha (Those eligible for Rukshana Chikitsta. 2) kapha & medo

Rakthamokshana. severe digestive capacity) 26) Contra indicated Before nasya Vasti and Prasutha) 22) Gala rogi (The patient who have neck diseases.) 23) Urustamba (Rigid jwara) 20) Chronic Alcoholic patient (weakperson) 21) Premature delivered patient (Akaala more Fluids and Fat) 18) Unctuous patient (Oily Sticky person) 19) Acute Fever (Taruna neavy thigh) 24) Dirarrhoea or Dysentry patient 25) Ati Teekshna gni (Who contain 16) udara rogi (Liver spleen and Ascitic like disorders) 17) Ati sthula (who contian

DIFFERENT AUTHORS RELATION OF SNEHA PAKA WITH THE USAGE ACCORDING TO

3 types 1) Mruda paka 2) Madhyama Paka 3) Khara Paka (Additionally dagdha Paka is explained by Sushrutha and Ama paka by Sarangdhar) The medicated Snehas are prepared according to sneha paka vidhi, they are of

is as follows According to differenet acharyas. According to the nature of processing of the medicine the usage is depending on, that

ţ'n		4,	in 10	ind.	S (2)
(ear drop)	enema)	(Masal drops) Vasti (Marinated	(Massage) Pana (Oral) Nasya	Abhyanga	Usage
•		madyama	Madyama Mruda	Khara Paka	Charak
Khara		Khara	Mruda Madyama	Madyama pal	Sushrutha
•		madyama	Madyama Mrudu	ka Kara paka	Vagbhat
Madyama,		Madyama	Paka. Madyama Mrudu	Madyama	Sarangdhar,
	(eardrop) - Khara -	enema) Karna Pooran (ear drop) - Khara -	(Nasal crops) (Nasal crops) (Masti madyama khara madyama (Medicaled enema) enema) Kama Pooran (ear drop) - Khara -	(Massage) Pana (Oral) Madyama Muda Madyama Nasya Muda Madyama Mudu (Masal drops) Vasti madyama khara madyama (Medicaled enema) Kama Pooran (ear drop) - Khara -	1. Abhyanga Khara Paka Madyama paka Kara (Massage) paka (Madyama Madyama paka Madyama (Masyama (Masyama Muda Madyama Muda Madyama Mudu (Masal drops) Madyama Khara madyama (Medicated enema) Kama Pooran (ear drop) - Khara - Khara -

madyama paka are used for oral and for nasya - But not the Khara Paka. used for Abhyanga Vasti and karna Pooran But not the mrudu Paka. 2) Mrudu and Note :- By above description it is clear that 1) Khara and madyama sneha Paka is

# OLEATION THERAPY-SNEHA VIDHI (STEPS OF OLEATION THERAPY)

- Complications of the Oleation. 9) Post Snehan Regimen. the patient for adequate Oleation or inadequate oleation or excessive Oleation, 8) tion of materials useful for the therapy. 6) Procedure of sneha Pana 7) Observation of termination of dosage for Oleation. 4) Dietetic Management prior to Oleation 5) Collec-1) Examination of the patient 2) Determination of duration for Oleation. 3) De-
- Pancha Vidha, shatvidha Etc., Pareekshas. dosha, dushya prakruthi, Vikruthi are assessed by Dasha Vidha - Asta Vidha, Trividha, eases and to know whether indicated for Oleation Or not, The strenght of the patient, 1) Examination of the patient is to work out the strength of the patient, dis-
- Determination of Duration for Oleation.
- 4 to 6 days in madyama Kosta patients. Determination of Duration for Oleation.
- and 7 days in krura Kosta Patients.

symptoms of adequate Oleation, there is no specific time limit. Vagbhata emphasises that, snehan should continue upto the appearance of

produce shodhana effect in the body . Note:- if Oleation therapy continued longer time it becomes saatmya and doesnot

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# 3) DETERMINATION OF DOSAGE FOR OLEATION THERAPY.

ven (Oil digesting capacity). The dosage is fixed on the time required for the digestion of Sneha which is

t,	4.	ω	10	-1/3	2 is / 1
	Uttama Matra	Madyama Matra	Hraswa matra	Hriseeyasi Matra	Dosage of drug
hours	Digestible within 18to 24	Digestible with 12 hours	Digestible with 6 hours	Test dose	Definition
Krura Kostha.	Strengthy, good digestive capacity, more vitiation of doshas and in	Moderate Strength of body and digestive capacity, moderate vitiation of doshas and in Madyama	Children, Old, Weak. Slight vitiation of dosha, less digestive capacity and in Mrudu Kostha.	Testing dose to know the nature of Kostha.	Indications.

Note: In Hruseeyasi matra less dosage of Sneha is given for the test dose.

Dosage is 2) 2 1/2 Tolas

1) 2-4-6- Phala

(According to Kosta) (Accepted by the Majority)

# DIETETIC MANAGEMENT PRIOR TO OLEATION.

be given before the day of Oleation and the Food should contain the follwing qualitities. previous Food should be perfectly digested). 7) and Light food should give to prevent the complications, (on theday of Oleation the 1) Liquid diet 2) hot, 3) Regulated Quantiy 4) Incompatible 5) Non sticky 6) Non Oleus Tasty, easily digestible, appetisers, easily absorbable and light Food should

# COLLECTION OF MATERIALS NEEDED FOR THE OLEATION

collected. The medicines requried to the therapy and to treat the complications should be

# PROCEDURE OF SNEHA PANA (OLEATION METHOD)

symptoms of adequate or inadequate Oleation 4) Complications - Treatment 1) Mangalaacharan (prayer) 2) Intake of Oleus drug (Sneha Aushada) 3) Waiting for

1) Mangalaacharan (Prayer) :- Gives mental strength and satisfaction to face the therapy.

2) Sneha Pana: Should give immediately after 15 to 30 minutes of sunrise, shodhan 2) Sneha Pana: Should give immediately after 15 to 30 minutes of sunrise, shodhan 2) Sneha Pana: Sneha Pana: Should give in middlen dosage of medicine of oleation is as follows, trashould not give in mrudu kosta, the dosage of medicine of oleation is as follows.

						•	matra silonici
6th day 7th day	5th day	4th day	3rd day	2nd day	Ist day	Test day	
30	23	20.0	15.0	10	7.5	G	2.5
Tolas.	Tolas	Tolas	Tolas	Tolas	Tolas	Tolas	Tolas

predominence with kshara And Trikatu Vata predominence ghee+ lavana 7) Pitta predomience only ghee 8) Kapha majja with manda (Boiled Rice Water) 5) Bhallata Sneha panam with Cool water 6) In Suggested as follows a) Ghritha with Lukewarm water b) Taila with yoosha c) Vasa palletti. 4) it was 1900 and 1 Note:-1) aosage sucularis como ante anno ante anno and Brumhana Or shaman patient. 2) If diarrhoea occurs should be given while the cleation and patient. Note:-1) dosage should increase gradually by observing the digestive capacity of the

#### 7) COMPLICATIONS OF OLEATION. (Sneha Vyapath

Complications arises due to the mistakes done during the therapy. These are

plications without requirement of immediate treatment. 1) Acute complications with the requirment of immediate treatment. 2) Chronic com

## 1) ACUTE COMPLICATION:

a) Indigestion (Ajeerna) b) Thirst (Trushna)c) Un consciousnes (Sangyanaash) d) Dullness (Tandra) e) Nausea (Uthklesha) f) Fever (jwara) g) Stiffness of body (Stamban) h) Aanaaha. i) Anorexia (Aruchi) j) Abdominal pain(shoola) k) Aama dosha (Complications of chronic indigestion)

## 2) CHRONIC COMPLICATIONS:

ness) i) Vaaknigraha (difficulty in Speeech) a) Kusta (Skin Lesions) b) Kandu (itching sensation) c) Pandu (Anaemia) d) Shotha (Oedema) e) Udara roga (G.I.T. diseases) g) Arsha (Haemorrhoides) h) Stiimitya (Numb-

### ADEQUATE OR IN ADEQUATE OLEATION 8) OBSERVATIONOF PATIENT FOR

## FEATURES OF ADEQUATE (SAMYAK SNEHANA).

tiredness) i) Debility in the body tissues j) Thirst (Trushna) k) Fresh eructations (shuddha shining comes) g) Vataanuloman (normal movement of Vayu) h) Klama (Feeling of Softness in the body (Mrudutwa) f) Oleus Skin (Roughness of skin is removed and Olly Normal motions without discomfort (Oilystools) d) Lightness in the body (Laghutwa) e) a) Accelerated digestive capacity (Agni deepthi) b) Introlerance ot snehas c)

## B) FEATURE OF, IN - ADEQUATE OLEATION ) (Asmyak Sneha Karma)

<sub>Sne</sub>ha present rough and Weakness in the body g) All the Opposite features of Samyak (Agni many) (Aukshaand Khara) e) Burning Sensation in the chest (Uro vidaha) the lough and dry (Aukshaand Khara) e) Burning Sensation in the chest (Uro vidaha) the lough and Weakness in the body g) All the Opposite factors (Agni mandya) c) Vata pratiloma (Improper movements of Vayu) d) Body becomes (Agni mand dry (Rukshaand Khara) e) Burning Sensation in the characteristics of Vayu) d) Body becomes a) Painful dry Oilless stools (graditha Pureesha) b) Weak digestive capacity

## C) FEATURE OF EXCESSIVE OLEATION

e) Duairhoea Dysentry Or Anal Secretions (Guda Srava) k) Burning sensation in Recipitation and Adaha) tum (Guda daha) ness in the body (Stamba) d) Un digested Foodparticles inStools (Apakwa Pureesha) ness Or Sleepy mood (Tandra) f) Nausea (ו וואלובייהים ער כון אינולים אינולים וואלובייהים אינולים וואלובייהים אינולים וואלובייהים אינולים וואלובייהים אינולים וואלובייהים אינולים וואלובייהים וואלובייהי a) Anaemic (Panduta) b) Heavyness of the body (Gurutwa) c) Rigidity Or stiff-

# 9) Post Oleation Regimen. (Sneha pashchat Karma)

After Oleation therapy the patient should follow the Following principles upto 7

postures and should take easily digestible food. 1) Bed rest, Brahmacharya, Night Sleeping, Warm water intake, Resting in suitable

dust, fume and open air. c) Should avoid coarse constipated food, Night arousal, day 2) a) The patient should not suppress natural urges. b) Should not expose to hot. Cold, sleeping, exercise, hard work, journey, anger, loud speaking and anxiety

## SHAMANA SNEHA VIDHI:-

2) It is given while the patient is hungry (at 9 to 10 AM Or 5 to 6 PM ) for proper digestion of Sneha, for quick spread and to control the vitiated doshas. 1) Shaman sneha is used to supress the doshas and to treat the disease.

3) The dosage of th Sneha is Madyama matra that is 4 tolas to 8 Tolas approximately.

## BRUMHANA SNEHA

the body. Sneha dravyas are given along with food items for the proper nourishment of

Ex:-1) mamsa rasa. 2) Ksheera 3) Yoosha 4) Bread 5) Food (Rice) 6) Curries. approximately 1 to 2 tolas. Snehas are used to prepare the above preparations, the dosage of snehas is

### Acchapeya ;-

best for Adequate results. It is a pure Sneha therapy with out other preparations and so explained as the

22) Akshi Tarpan 23) Basti 24) Uttharabasti. Shaka 10) Yoosha 11, Managa 19) Gandoosha 20) Karna Puran 21) Nasa Tarpana Leha 17) Bhakshya 18) Abhyanga 19) Gandoosha 20) Karna Puran 21) Nasa Tarpana 1) Odana 2) Vilepi of nasa Villa (12) Khada 13) Sakthu 14) Tila Pista 15) Maya 16) Shaka 10) Yoosha (15) Mahalika 12) Khada 13) Sakthu 14) Tila Pista 15) Maya 16) Shaka 10) Yoosha (15) Ahhvanga 19) Gandoosha 20) Karna Puran 21) Nasa Taran 19) Sneha preparations with food etc., items 24 in number they are as follows:
Sneha preparations with food etc., items 24 in number they are as follows: Sneha preparations will 1975 ammsa 5) Ksheera 6) Dadhi 7) Yavagu 8) Soopa 9) 1) Odana 2) Vilepi 3) Rasa 4) mamsa 5) Ksheera 6) Dadhi 7) Yavagu 8) Soopa 9) Sneha Vicharanas :-

### Sadyah Sneha :-

without following the general principles. It is an Emergency type of sudden Oleation therapy given for a single day

Ex:- 1) medicated mamsa rasa 2) Ghee + Milk+ Medicines.

# SEASIONAL INDICATIONS OF OLEATION THERAPY.

1) A Good, non cloudy day, after sun rise only oleation should be given

son with Tila Taila, sharath ruth with ghritha, vasanth ruthu with vasa and majja oleation the Vata vitiation Or Vata pitta Vitiation Oleation should give at nights, (in Rainy Sea-2) In the Kapha vitiation Or Vata kapha vitiation Cleation should give in day time 3) In

Pravara 7th days madyama 5th days 1to 3 day. 8th day 6th day 4th Day5th day Sweda 9th day 7th day Vaman 7th day. 11th day. 9th day

Note :- After snehapana - Vasti, Raktha mokshan and Nasya are contra indicated

### Bhaya Sneha :-

14 Types are explained they are.

tion of eardrops) 13) maasthishkya (Medicated Oils + paste application to head) special method) 11) Nasa tarpan (Sneha Tarpana nasya) 12) Karna Poorana (instillations. etc., on head). 10) Akshi Tarpan (Keeping of medicated sneha on eye ball by gling the medicated fluids) 9) Shiro tarpan Or moordha taila (medicated Oil applicamedicated liquids on body ) 7) Samvahan (Gentle Oil massage) 8) Gandoosha (Garin Pratiloma direction) 4) mardan (massage with pressure ) 5) Pariseka - (Pouring 1) Abhyang (massage) 2) Lepa (External applications) 3) udwarthan (Rubbing with Oils

## Shiras Tarpana (Moordha Tailam) :-

other diseases, it is used for preventive as well as curative aspects. It is more beneficial in thediseases of Shalakya tantra (Especially in Shiro roga) then poured on the head for a specific time, it is known as moordha taila Or shiras tarpana, It is a special therapy in which the medicated (Snehas) Oils are kept on or

the best then pichu, dhara, Abhyanga and the every method is having it's own impor-Seka Or shiro dhara 3) Shiro pichu 4) Shiro Vasti, in these 4 therapies Shiro Vasti is According to Vagbhata it is of 4 types they are 1) Shiro abhyanga 2) Shiro

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## A) Shiro Abhyanga. (Head Massage)

appropriet to the condition of the disease, according to for aspections of Cool Chakra taila for Shiro abhyanga. The medicine should be selected application to the condition of the disease. for aspecific period. it is preventive as well as curative therapy. Sushrutha suggested for inations of Cool Chakra talla for Shiro abhyanga. The medicine should suggested It is a process in which the head is gently massaged with medicated Oils etc.,

## Use of Shiro Abhyanga:

<sub>By</sub> Vagbhata.

in the diseases of the hair (Ref.A.H. SU. 22 - 24) It is beneficial in Roughness, itching sensation, dirty collections of scalp and

#### ву Charak.

By regular shiro Abhyanga a person may get relief from Shira shoola (Head-

ache) phalitha (dis colouration of hair), khalitwa (Baldness), Kesha paata (falling of Vikar (lesions of Sensory organs) and gives strength to head and Scalp. (Ref. Ch.Su hair), Kesha vikar (Abnormal hairs), Twak vikar (Abnormalities of Skin of sclap, Indria

#### By Sushrutha .

(Ref. SU. Chi. 24 -25, 22) face, proper nourishment to Indrias and head, the hair becomes blackish Shiro Abhyanga gives relief from Shira shoola, gives colour, complexion to

# B) SHIRA SEKA -SHIRO PARISEKA - SHIRO DHARA.

shiro seka Or shiro pariseka or Shiro dhara . It is mostly useful in Shiro roga than ear droped on the head from 4" height by special process for a specific period is known as nose, throat, eye and other general diseases. medicated decoctions, Breast milk, Boiled rice water (Kanji) etc., fluids are poured or t is a process in which the medicated Oil, ghee, Honey, Butter Milk, Milk,

According to the medicine used for the therapy it is named as follows:-

<ol> <li>6. Ksheera Dhara</li> <li>7. Kanji Dhara</li> </ol>	<ol> <li>Takra Dhara</li> <li>Kwatha Dhara</li> </ol>	<ol> <li>Ghritha dhara</li> <li>Madu Dhara</li> </ol>	1. Taila dhara
( "Boiled Rice Water)	Decoctions )	( "Honey )	(Pouring of medicated Oils )

Note:- 1) Dhara has to do in the mornings in between 7 and 10 AM, and contra indicated:

disorders. 2) Leukwarm dhara in Vata and Kapha disorders and Cool dhara in Pitta and Raktha disorders Indicated in after noon and nights

Drug Selection. selection. The Choice of the drug depends upon the diseases But in general the following

ders Taila one part and Ghritha 1/2 part is used for dhara. vata and raktria vusuori Trilla + Kapha disor. Rakta Vitiation Talla and ghritha in equally quantiy is used. 4) In Vata + Kapha disor. Rakta Vitiation Talla and ghritha 1/2 part is used for dhara. In vata and Naphia Countries ) In Pitta and Raktha Vitiation and Vata + Pitta + vata and raktha vitiation cool ghrifina 3) In Pitta and Raktha Vitiation and Vata + Pitta + vata and raktha vitiation cool ghrifina in equally quantity is used. 4) In Vata + Kanksneha are used. are used.
In vata and Kapha disorders Leukwarm Tila Taila is used for Shirodhara. 2) In In vata and Kapha disorders Leukwarm Tila Taila is used for Shirodhara. 2) In

strength of the patient and the disease. DURATION OF SHIRO DHARA:- is 1 to 1 1/2 hours, it is also depending upon the

### Time Schedule for Shiro Dhara.

Shiro dhara has to do 14 days Or 21 days.

### 14 Days Schedule

14 th day 1 hour duration. 8th to 14 day (duration is decreased daily 5 minutes) 7th day1 1/2 hour duration. 2nd day to 7th day (duration is increased daily 5 minutes) Ist day 1 hour duration.

### 21 Days Schedule.

21 st day 1 hour. 15 to 21 days (Duration decreases daily 5 minutes) 8th day to 14th day 1 1/2 hour. 2nd to 7 day (duration increases daily 5 minutes) Ist day 1 hour

#### Uses of Shiro Dhara:-

2) He explained Dashamoola Ksheera shiro Seka in Shira shoola. (Ref.A.H.U. 24-3) paka (inflammatory changes on scalp), Vrana (Ulcers on scalp).(Ref. A.H.SU.22-24) Shiras toda (Pricking pain on scalp), Daha (Burning sensation of scalp and head) 1) He said Shiro dhara is useful in Arumshika (multiple pustules on scalp),

2) Shiro Seka in Shankhaka Shiro Vyadhi (Ref. : ch. si. 9-73) 1) Shira Seka with Ghee Or Milk in Pittaj Shira Shoola. (Ref. Ch. chi. 26-176)

#### Sushrutha:-

- Leukwarm shiro dhara with Vataghna milk in Vatik Shira snoola. (Ref.su. chi. 26 - 5)
- (Ref.: su U. 26-12, 13) Cool ghee shiro dhara in Pittaj and Rakthaj Shiro roga.

alcoholism, coma, In somnia, fainting, confusion, excessive purspiration and tiredshalakya yyadhies but alsoin general diseases like psychosis, epilepsy, Neurosis, Note: Kerala people called shiro seka as Shiro dhara, it is mostly useful not only in

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hold the dharaa patra. The Common Requirements for Dhara. (any 10) Eye bandage material 12) Containers to collect the medicine. 13) Stand to eyes. etc..) 7) Thick cloth for shiro bandan (to prevent the medicine from entering in to the 2) Dhara party (Chairs, Tables, Stools etc.) 7) Gas Stove 8) Hot water 9) medicines for shiro dhara and to face complications etc.) 10) Thick cloth for shiro bandan (to prevent the medicine from 1) Clean version (Vessel to hold medicine) 5) Pillows. 6) Furniture (Chairs, Tables, Stools 4) Dhara patra (Vessel to hold medicine) 5) Pillows. 6) Furniture (Chairs, Tables, Stools 4) Dhara patra (Vessel to hold medicine) 5) Pillows. 6) Furniture (Chairs, Tables, Stools 4) Dhara patra (Vessel to hold medicine) 5) Pillows. 6) Furniture (Chairs, Tables, Stools 4) Dhara patra (Vessel to hold medicine) 5) Pillows. 6) Furniture (Chairs, Tables, Stools 4) Dhara patra (Vessel to hold medicine) 5) Pillows. 6) Furniture (Chairs, Tables, Stools 4) Dhara patra (Vessel to hold medicine) 5) Pillows. 6) Furniture (Chairs, Tables, Stools 4) Dhara patra (Vessel to hold medicine) 5) Pillows. 6) Furniture (Chairs, Tables, Stools 4) Dhara patra (Vessel to hold medicine) 5) Pillows. 6) Furniture (Chairs, Tables, Stools 4) Dhara patra (Vessel to hold medicine) 5) Pillows. 6) Furniture (Chairs, Tables, Stools 4) Dhara patra (Vessel to hold medicine) 5) Pillows. 6) Furniture (Chairs, Tables, Stools 4) Dhara patra (Vessel to hold medicine) 6) Pillows. 6) Furniture (Chairs, Tables, Stools 4) Pillows. 6) P The Comnium The Com. 2) Dhara table or Droni 3) 2 to 5 Attenders and Massagists.

1) Clean Patra (Vessel to hold medicine) 5) Pillows. 6) Furniture (Chair, Table 1) Phara patra (Vessel to hold medicine) 5) Pillows. 6) Furniture (Chair, Table 1) Phara patra (Vessel to hold medicine) 5) Pillows. 6) Furniture (Chair, Table 1) Pillows. 6)

finger willow uning dhara. The container should have 2 litres capacity to hold the medicated fluid (2 prasta or 1 Aadaka that is prepare with Gold, silver, copper etc., have which is fitted with cotton varthi to allow uniform flow during dhara. The container finger which is fitted capacity to hold the medicated fluid to process. 1) wide mouth, 5 to 6" depth with central perforation at the bottom in the size of little have which is fitted with cotton varthi to allow uniform flow during the bottom in the size of little that the neck of the vessel may be tied with rope for handling. The contianer should that the Gold, silver, copper etc., shound in the problem of the borders of themouth should have been folded outwards so approximately 2 litres). The borders of themouth should have been folded outwards so Dharaa Patra. (Vessel or pot used to hold the medicine for dhara). It should

### Droni or Dharaa Table.

4) depth of the table 4 1/2 to 9 inches. 1) Length of the table 6 feet. 2) Width "2Feet. 3) height from the ground 1 1/2 to 2 feet

arraangements. it should prepare with Vataghna wood, with head resting and Oil collecting The surface should be smooth even comfortable to the patient and massagist,

### 3) Common Medicines :-

honey, nagar, musta. etc; in Pitaja disordes usheera chandan coconut water and ghee In Vataj disorders Tila taila, Bala taila, Dashamoola taila; In Kaphaj disroders with

#### 4) Attenders :-

and another to collect the oil which is irrigated. after shiro seka, sneha and sweda for total body is advised, for that 5 attenders are needed 2 Attenders are needed for shiro seka, one for pouring the medicine properly

### Shiro Dhaara Therapy.

to apply around the head, above the eyebrows with thick cloth to prevent the entry of Patient should be given intermittent massage. After the specific time - Sarvanga sneha, Should replaced it in the Dhara Patra and Simultaneously the head and limbs of the collected time to time from the bottom of the Droni, should be cleaned warmed and should shou medicine should irrigate in different postures of head, Irrigated medicine should be collected in different postures of head, Irrigated medicine should be Pour from 4 inches height on the head with constant speed neither quick nor slow, the medicine in to the eyes, head should rest on the pillow properly. The medicine has to patient should cut into small to allow proper absorption of medicine, Shiro bandan has be bandaged with cotton pads to prevent the entry of Fluids into the eyes. Hair of the SHUBHA MUHURTHA by SWASTIVACHAN and MANGALACHARAN. Eyes should cally. Dhara patra is fixed at about 4 inches height from the head of the patient in materials and accessaries are procured and are placed in the therapy room systemati-A clean Droni is placed in a clean appropriately ventillated room, necessary

absorption of the medicine, so only said as more effective. medicated Oil or ghee on the Shiro dhara. Pichu gives scope for gradual and slow effective than shiro abhyanga and Shiro dhara. Pichu gives scope for gradual and slow Shiro pichu mealis arrivanta at Brahma randra (Anterior fontanellae). It is more medicated Oil or ghee on the shiras at Brahma randra gives scope for gradual and medicated Oil or ghee and Shiro dhara. Pichu gives scope for gradual and medicated Oil or ghee on the shiro dhara. C) Shiro Pichu. niro Pichu.

Shiro pichu means application of cotton piece or cloth piece by dipping in Shiro pichu means application at Brahma randra (Anterior fontanellae). It is sufficient to the shiras at Brahma randra (Anterior fontanellae).

of eye ball) and in Shiro rogas etc., is useful in Kesna raavia ( ), netra stambana (rigid and ristricted movements sputanam (hair fall), Vrana (ulcers ), netra stambana (rigid and ristricted movements sputanam (hair fall), Vrana (ulcers ), netra stambana (rigid and ristricted movements) It gives nourisilities of hair), Kesha Vikruthi (abnormalities of hair), kesha is useful in Kesha Paatha (Falling of hair), netra stambana (rigid and ristricted manners). It gives nourishment to the scalp, head, indria, and other organs of the body, it

Nasa Pichu (Pichu is inserted in Nasa guha ) etc. Guda Pichu (Pcihu is inserted in rectum), In addition to shiro pichu some other pichu are also explained like Yoni Pichu (pichu is inserted in Vagina)

or ghee that is named as Plotha. Ref: - AH. Su. 22-25. Note: if Bigger cloth piece or gauze piece is used by dipping in medicated Oil

#### D) Shiro Vasti.

afternoons or in the evenings. level of hair with the help of vasti Yantra (leather cap like structure open on both sides for a specific period is known as Shiro Vasti. Shiro Vasti Should conduct in the cess in which medicated sneha (Oil Or ghee) are kept on the head, 2 inches above the Vagbhata explained it as the best among 4 types tof moordha taila. It is pro-

#### Shiro Vasti Yantra:-

to 16 inches in length, width should be according to the size of the head of the patient. It is fixed to the head to keep the medicated Oil or ghee on the head for a specific time. It is a leather cap like structure with open base (2 sides of cap is open), it is 12

#### Shiro Vasti Therapy:-

- Sneha, Sweda, Shodhana has to do before shiro Vasti.
- 20,3 absorption of the medicine Hair has to remove (Mundana) Or should cut into small for proper
- Patient is asked to sit in a chair comfortabely with out any tension
- Patient isadvised not to move the head during the therapy.

0 4 C

for a specific time. that has to exchage with Leukwaram Oil, like that the medicine should kept upto 2 inches height above the level of hair, if the medicine become cool of medicine, then Leukwarm medicated sneha has to pour into vasti Yantra and cap masha Kalka or godhuma kalka has to apply to prevent the leakage Shiro vastiYantra (leather Cap) has to fix to the head, at the junction of head

> Shiro Vasti is advised for 7 days. when, muking used for massage of the shoulders, neck, chest and Back etc., The the same and follow the pathva water, is advised to have bath with hot water and follow the pathva water. The when reduction arava (Salivation), appears then Oil should be removed carefully. Then the oil care to have bath with hot water and c... reck, chest and Road Then וויפח וeduction of pain, arrivalof lacrimation (Ashru srava), nasa srava (Nasal dis-וויפח וויו, ובי ווsed for massage of the shouldbe removed concerns. Indigenie oil is advised to have bath with hot water and follow the pathya vidhi to avoid watering salions. The pathya vidhi to avoid to avoid the pathya vidhi to avoid to avoid the pathya vidhi the pathya vidhi to avoid the pathya vidhi the avoid the pathya vidhi the avoid the pathya vidhi to avoid the

3) Kapha diseases 2) In Pitta Diseaes 1) In Vata diseases puration of Shiro Vasti.

8000 Matraakala 6000 Matraakala 1000 Matraakala 10000 Matra Kala

Approx 5 to 6 Minutes Approx 31 Minutes. Approx 43 Minutes. Approx 53 Minuts.

Indications ;-Shiro Vasti is beneficial in the following diseases.

 $\widetilde{A}$  Healthy Person

sosha (Atrophic Changes in nasal caivty) (Sleephon) ) Arthava Bhedak (migraine, half headache) 7) Shiro roga 8) Daarunaka (Lookjaw) 6) Arthava Bhedak (migraine, half headache) 7) Shiro roga 8) Daarunaka (Loonjerf) 9) Timira (dim vision) 10) Aasya sosha (Dryness of oral cavity) 11) Nasa (pandruff) 9) Timira (dim vision) 10) Aasya sosha (Dryness of oral cavity) 11) Nasa 1) Prasupthi (Numbness of scalp ) 2) Arditha Vata (Facial paraysis) 3) Nidraalpatha ر) Prasure (المجابع) 4) manya Stamba (neck rigidity) 5) hanugraha and Hanu shoola (sleepless) 4) Arthava Bhedak (migraine, half haaracha) جريدة المجابعة ال

### KARNA POORANA.

karna Poorana. It is more effective not only in karna rogas but also in other diseases (Oil), ghritha (Ghee), mutra (Goats urine etc) in to external auditory canal is known as Putting of medicated Leukwarm Swarasa (Liquid extract of medicine), Taila

the Jaw (Hanu shoola ) etc., used for karna pooran. regularly should get stamina against deafness, neck reigidity (manya shoola) pain in Vagbhata and sushrutha advised that a person who practices the karna poorana

manya Shoola (pain in neck) and Shira shoola. (head ache.). Badirya, Karna gootha, Karna Srava, karna kandu etc.,) hanu Shoola (pain in the jaws) It is indicated in different types of ear diseases (like karna Shoola, karna nada

Note: The common Oils are nirgundi taila, Kshara taila, Apamarge taila, Bilvadi tailam, Ksheera bala taila etc.

#### Duration.

Swaras etc., Before meals. 2) Oil at night and 1000 matra kalas in Shiro rogas. 500 Matra kalas in Throat diseases. 100 Matra Kalas in ear disease.

#### Shiro Lepa.:-

applied on the head in 1/4 1/3 inch thickness, should keep for 1/2 to 1 hour and advisor to advised to continue the therapy for 7 days. It is named as pothicchil according to kerala Therapy, medicated paste is

and most of the Neurological problems. It is indicated in Shiro rogas, Arditha Vata, Pakshaghata, Khalithya, Palithya

(Hot applications named as upanaha and cool applications named as Lepa).

"The qualities of Shiro Lepa are merely equalant to Takra dhara."

(32 Tolas ) Butter Will Property water (32 Tolas ) Butter Will Property water evapouration then the paste should be applied on the head it is useful in most of the tion of Flesh of Fish in Kapila, June 1997, 1997 vamshi, Yastimadu, Musik tion of Flesh of Fish in Kaphaj Shira Shoola. 4) 1Kudava (16Tolas) Amalaki, 2 Kudava tion of Flesh of Fish in Kaphaj Shira Shoola. 4) 1Kudava (16Tolas) Amalaki, 2 Kudava paste prepared with naia, verectly paste pa 1) Vataghna Aushadna Sivering Friedricated 1) Vataghna Aushadna, veteas, Shiivala, Raktha kamala, Chandan, uthphala, padmaka, paste prepared with nala, veteas, Shiivala, Raktha kamala, Chandan, uthphala, padmaka, paste prepared with nala, veteas, Shiivala, Raktha kamala, Chandan, uthphala, padmaka, paste prepared with nala, veteas, Shiivala, Raktha kamala, Chandan, uthphala, padmaka, paste prepared with nala, veteas, Shiivala, Raktha kamala, Chandan, uthphala, padmaka, paste prepared with nala, veteas, Shiivala, Raktha kamala, Chandan, uthphala, padmaka, paste prepared with nala, veteas, Shiivala, Raktha kamala, Chandan, uthphala, padmaka, paste prepared with nala, veteas, Shiivala, Raktha kamala, Chandan, uthphala, padmaka, paste prepared with nala, veteas, Shiivala, Raktha kamala, Chandan, uthphala, padmaka, paste prepared with nala, veteas, Shiivala, Raktha kamala, Chandan, uthphala, padmaka, paste prepared with nala, veteas, Shiivala, Chandan, uthphala, padmaka, paste prepared with nala, veteas, Shiivala, Chandan, uthphala, padmaka, paste prepared with nala, veteas, Shiivala, Chandan, uthphala, paste prepared with nala, veteas, Shiivala, Chandan, uthphala, paste paste prepared with nala, veteas, Shiivala, paste p "The qualities of Sillio Formation of the qualities of

### Method of Shiro Lepa Therapy.

9) Advised to follow pathya vidhi 10) Like this shiro lepa therapy is advised for 7 days. cleaned. 7) Again Oil massage is advised. 8) Patient is advised to have hot water bath medicine should be kept for 1/2 to 1 hour. 6) Then the medicine should be removed and scalp not on fore head- and head should be wrapped with banana leaves. 5) Then the Abhyanga (nead magazer) - Coording to the diseases. 4) Paste should apply in 1/4 Or 1/3 inch thickness only on the 1) Shiro mundan (lian siver) Application of paste to the head which is prepared ac-

## GANDOOSHA - KAVALAGRAH.

Gandoosha and kavalagrah. According ot them the difference is, only in the dosage of Charaka explained only Kavala grah But sushruth and Vagbhata explained

#### Gandoosha.

then asked to spit it out (Because of full quanitiy, the fluid cannot able to rotate in the Holding of medicated fluids in the mouth in full quantity for a specific time and

#### Kabalgrah :-

mouth for a specific time and then asked to spit it out Medicated Fluids are kept in themouth incompletely and asked to rotate in the

Su. Chi. - 40 -58.

and Liquids are used in Gandoosha. Note: - According to Sarangadhara, Kalka (Medicated bolus) drugs are used in kavala

Sharangdhar. 4th 10-4.

# CLASSIFICATION OF KAVALA OR GANDOOSHA.

### According to Sushrutha

- 2) Prasadan 1) Snehan Gandoosha
- Shodhan
- 4) Ropan

## 1) Snehan Or Snigda Gandoosha :-

prakopa. The medicine should mix with other Vata hara sneha, mamsaras etc., items.

### According of Vagbhata.

- 1) Snigda Gandoosha
- 2) Shaman

#### Shodhan

The Drugs should be snigda - Ushna, Madura, Amala, lavana - used in Vata

ghaman Gandoosha:authors for pitta shaman. man. But in present sharman. The both are one and same but explained with Madura sheetha for pitta sharman.

Sheetha for pitta sharman. 2) by Druby But in Prasadan gandoosha of sushruth the drugs should be prepared with Madura that for pitta shaman. The both are one and same but explained by the formula of the formula of the but had but a shaman. man Garian man Madura rasa for pitta shangaran gandoosha of sushruth the drugs should he control of sushruth the drugs should be control of the shangar man Garian ma

3) Shodhan Gandoosha :be used along with medicines. Programment The Gomutra, madya, shuktha, madu, Dhanyamala etc., should pasa for kapha with medicines. dhan Garrage Should be prepared with Tekshna, ushna ,Ruksha ,Katu ,Amia ,Lavan Chaman. The Gomutra, madya, shuktha madu nanan ,Amia ,Lavan

### 4) Ropan Gandoosha :-

(ulcer healing). The Ghritha, ksheera, sneha dravya are used along with the ropana Durgs should be prepared with ushna, kashaya, Katu, madura, Rasa,for Vrana

#### <sub>Gandoosha</sub> Vidhi.

Karma etc., to save the body from the complications of Kapha dosha. It is a Special process as well as pashcyath karma to nasya karma, Vaman It is a Special process as well as pashcyath karma to nasya karma, Vaman It is a process having utmost importance in the management of mukha rogas.

1) Preparation of the patient for Gandoosha

2) Preparation of the medicine according to the condtion of the patient.

or to rotate in the mouth. etc., drugs should be grinded to prepare kalka (Bolus Or Paste ). to keep in the mouth a) Example: Triphala - Trikatu, pancha Valkala, Dashamoola, vacha, Yastimadu,

### b) Liquid Medicines :-

of medicines, shuktha, kanji etc., drugs. Like Grhitha, Taila, madu, water, madhya, Mamsa rasa, Gomutra, decoctions

be selected for the therapy) c) According to the vitiation of doshas either kalka Or Kashaya Or mixed should

- 3) Gentle massage
- 4) Light Fomentation at neck, Cheeck, face, head, shoulders, etc.
- 5) Patient is asked to sit in a chair with comfort then the medicine is given to hold in Nasa Srava etc then the medicine should be spit it out. Pashcyath karma Or other the mouth or to rotate upto the specific time(upto the collection of Kapha in mouth,
- 6) Again Gentle massage and light Fomentation at Neck, face, Cheecks, shoulders gandoosha should be given.

### Indication of Gandoosha;-

5) Netra roga (eye diseases) 6) Lala srava (Salivation) 7) Mukha sosha (Vataj disorders of mond) 10) Aruchi (Tastelessgers of mouth) 8) Hrullasa (Nausea) 9) Tandra (Sleeping mood) 10) Aruchi (Tasteless-(otalgia) 4) Mukha roga (Diseases of Osta, dantha moola, Dantha, jitwa, Tatu, Gala) 5) Netro lless ) 11) Peenasa (Rhinitis ) 12) Siro roga. 1) manya Stamb (neck rigidity ) 2) Shira shoola (Head ache) 3) Karna shoola

Better Taste perception of Description of Shiro rogas, Karna rogas, Nasa roga and Netra Doshaja or Aaganthuja mukha rogas - Shiro rogas, Karna rogas, Nasa roga and Netra (Strength to voice ) () (Strength to voice) (S Regular Gandousii (Strenght to Jaws) 3) Strength to face 4) Ruchyam (Strength to voice) 2) Hanubalam (Strong and healthy teeth) 6) Stamina Strength to perception 5) Druda dantha (Strong and healthy teeth) 6) Stamina Strength Regular Gandoosha vidhi achieves the following benefits 1) Swara balam (Strenght to Jaws) 3) Strength to face 4) Rich.

Time Schedule For Gandoosha:chedule For Gailers.
The medicated fluids should kept in the mouth upto the manfestation of follow-

ing symptoms. ing symptoms.

1) Collection of Kapham in the mouth 2) Nasa Srava 3) Karna Srava 4) Netra Srava.

pashchyath Karma has to do according to the condition of the patient. Then the drug should spit it out. Then New drug should be kept in the mouth or

Samyak Yoga Lakshanas of Gandoosha (Symptoms of Adequate Gandoosha):

Lightness of Body 4) Sound sleep 5) Normal taste, appetite, digestion capacity and 1) Relief from the disease or symptoms. 2) Freshness of all Indrias, Face and mind. 3)

Atiyoga Lakshanas of Gandoosha . (Symptoms of Excessive gandoosha):-

(ulceration ) 4) Trushna (Thirst) 5) Aruchi (loss of Taste) 6) Klam (Debility). 1) Shosha (Dryness of mukha etc., srotas) 2)Daha (Burning sensation)3) Paka

(Symptoms of Inadequate gandoosha):-Asamyak Yoga Lakshanas of Gandoosha

(Tastelessness) 5) Hrullasa (nausea) 6) Tandra (inactive state Or sleepy mood.) 1) Alastwa (Lazyness) 2) Agravation of the disease 3) Kapha vitiation 4) Aruchi

Some Important Yogas of Gandosha.

9hritha gandoosha in Pittaj mukha rogas. 17) Yastimadu Kashaya gandoosha in Mukha paka. 18) Kakolyadi or Vıdarigandhadi Kaphaja mukha roga. 16) Tila taila gandoosha is better to do daily to prevent mukharoga Saindhava Lavana, gandoosha in Kaphaja jihwa roga. 15) Kshara jala gandoosha in Dasha moola Kashaya + Tila Taila gandoosha in Dantha rogas. 14) Trikatu, Sarshapa. moola Vyadhi). 12) Patola - Nimba, Triphala Kashaya gandoosha in gum disorders 13) Lodra, musta, jatamamsi, rasanjan, Patranga+ Honey, gandoosha in saushira (Dantha talla Or prasarini talla in gum disorders (Dantha moola vyadhies).11) The decoction of 10) Gandoosha with Irimedadi, Taila Or sahacharadi taila Or sarshapa taila Or narayan Pancha pallava kashaya + Ghritha + madu + Sugar Gandoosha in (Gingivitis) Upakusha. priyang, Tejohwa + Honey, Gandoosha in Pyorrhoea (pus discharge from gums) 9) gandoosham in Bleeding gums. 8) Decoction of Kaseesa, Lodra, Pippali, manahshlla, 6) Ghritha Or Ksheera gandoosha in Pittaja mukha rogas. 7) Ksheeri Vruksha Kashaya Gandoosha in Kaphaj Mukha roga. 5) Tila Kalka + Water gandoosha in Dantha harsha. Gandoosha in Mukhapak. 4) Trikatu Sarshapa hareetaki Kalkam + ksharajala with Kanji Or Dhanyamla in Aruchi 3) Daruharidra - rasa Kriya Or-Triphala Kashaya 1) Hot water gandoosha in general Kapha disorders of mukha 2) Gandoosha

### B) SWEDANA KARMA

Sweating by heat application is known as swedan it is beneficial in vata kapha disorders and harmful in pitta. Balth. Sweating is the physiological process But over sweating or Absence of Sweat-

Liquification Being the principal poorva karma procedure, swedana is also a specific swent procedure for number of diseases like vata vyadhi (It is also a specific treatment Property is also a main that is one among shat upakramas and quite opposite to stambana therapy). sweating. Freedure for number of diseases like vata vyadhi (It is also a specific treatment procedure for number of diseases like vata vyadhi (It is also a main therapy and proceeding of doshas occurs that relieves stiffness, heavyness, cold and induces principal poorva karma procedure, swedana is also principal poorva karma procedure, swedana is also procedure. and proceedes Varnan karma, it is a process in wihich by the application of doshas occurs that relieves stiffness, heavyness cold after sneha Karma ing is patholy in the beneficial in vata kapha disorders and harmful in pitta, Raktha disorders, karma procedure conduction is known as swedan karma procedure conduction. Swedana is a major poorva Karma procedure conducted after sneha Karma

Qualities of swedan dravyas.

Guru (Heavy or bulkness) direction: , penetrating into minute channels.) 7) Drava (liquidity) 8) Sthira (Fixed) 9) Sukshma (penetrating into minute channels.) 7) Drava (liquidity) 8) Sthira (Fixed) 9) 1) Usinia (1) Snidga (oleus- unctuous) 5) Rooksha (Rough - opposite to snigda 6) directions) 4) Snidga (oleus- unctuous) 5) Rooksha (Rough - opposite to snigda 6) 1) Ushna (Hot) 2) Teekshna (Quickly spreading) 3) Sara (Spreading nature in the all

## Classification of Swedan Karma

I) According to Charak

- a) Agni Sweda 13 types. b) Anagni Sweda 10 types.
- a) Snigda Sweda in Vata disorders. b) Ruksha Sweda in Kapha disorders.
- a) Ekanga Sweda (Swedan only at the affected part ) b) Sarvanga Sweda (Swedan to thecomplete body)
- 3 a) Mrudu Sweda - in weak persons, less vitiation of doshas and at Heart of dosnas. disease and at groins. c) Maha Sweda :- Strengthy people with high vitiation scrotum eyes etc., b) Madyama Sweda :- moderate Strength of the patient
- According to Sushrutha and Vagbhata
- a) Tapa Sweda b) ushma Sweda c) Upanaha Sweda d) Drava Sweda
- ≦ a) Shaman Sweda (Remission of the diseases) b) Shodhan Sweda (elimination of doshas)
- VII) a) Bahya Sweda (External) b) Abhyanthar Sweda (Internal)

## Swedana Karma - Indications.

8) Shira shoola (headache) 9) Swara bheda (hoarseness of Voice) 10) Gala grah (neck b) heaviness of body 6) Karna Shoola (otalgia) 7) manya shoola (Pain at neck region) limbs) 17) Padaarthi- jaanurathi Jangaarthi Uru arthi (Pain in all parts of Lower Limbs 18) Ardian 19) Sarvaanga Vata nanu grah (rigid jaws) 16) Pada - jaanu- janga-uru graha (Rigidity in all parts of Lower Limbs) trunk ) 13) kati graha (rigid Lumbo sacral region) 14) Kukshigrah (rigid abdomen) 15) rigidity) 11) Paarshwa graha (rigid flanks ) 12) prusta grah (rigidity in the dorsum of (lotal paralysis) 21) Pakshaghaata (hemi Plegia Or paraplegia) 1) Pratishyaya (Rhinitis) 2) Kasa (Cough) 3) Hiccah (hiccough) 4) Swasa (Dyspnoea) 18) Arditha Vata (Facial palsy) 19) Ekaanga Vata (Monoplegia) 20) Sarvaanga Vata (Idal palsy) 19) Ekaanga Vata (Monoplegia) 20)

41) Kampayada 42 (Crimary Caliculus 45) Most of vata and Kapha dis-(after normal delivary) 44) Ashmari (Urinary caliculus 45) Most of vata and Kapha dis-(haemorrhoids) 38) Diagrams (Uvists) (haemorrhoids) 43) Samyak Prajatha 41) kampa Vata 42) Shalyaapahrut (after removal of foreign bodies) 43) Samyak Prajatha 41) kampa Vata 42) Shalyaapahrut (after removal of foreign bodies) 43) Samyak Prajatha (Orchitis) 36) Moodila 9... Alsha (haemorrhoids) 38) Bhagandar (Fistila in ano ) 39) Arbuda (Tumours) 40) Grandhi (Cysts) (haemorrhoids) 38) Bhagandar (Fistila in ano ) 39) Arbuda (Tumours) 40) Grandhi (Cysts) Shukraghaath (Heteliudi Vinda) Shukraghaath (Heteliudi Vinda) Woodha garbha (malpresentations during delivary ) 37) Arsha (Orchitis) 36) Moodha garbha (malpresentations during delivary ) 37) Arsha Vibandha (Constipation of Semen ) 34) Mutra kruchra (Dysuria) 35) Muska Vruddi Shukraghaath (Retention of Semen ) 34) Mutra kruchra (delivary ) 37) Vruddi Supthi (loss of Sensation) 20) Aama Vata 31) Shotha (Oedema) 32) Jrumba 39) Vibandha (Constipation ) 30) Aama Vata 31) Shotha (Oedema) 35) Muska V. 22) Angamarda (Body pains 23) Aadya Vata 24) Vata kantaka 25) Ghrudrasi Vata 26) 22) Angamarda (Body pains 23) Stamba - Sankocha (Spastic pains) 28) Aanaha 29) Supthi (loss of Sensation) 30) Aama Vata 31) Shotha (Oedema) 32) Jrumba 29)

# CONTRA INDICATIONS OF SWEDAN KARMA

deha - (dehydrated) 34) After Virechan 35) Stambana Arha (Those indicated for stambana oil etc., 30) Indigestion 31) Madu Meha 32) Pittaja Prameha 33) Ruksha - Shuska of rectum) 28) Rajaswala (menstruation period) 29) After intake of milk, alcohol, curd, Visarpa (Skin rashes) 25) Sosha (Dehydrated) 26) Kusta 27) Guda bramsha (prolapse 20) Shukra kshaya 21) Ojo kshaya 22) Timira (Dimvision) 23) Pandu (Anaemia) 24) 16) Angry 17) Weeping due to mental illness 18) Urustamba 19) Debilitative persons 10) Pitta Prakruthi 11) Tired 12) Poisoning 13) unconscious 14) Sthoola (fat) 15) Thirsty megaly - hepatomegely, Ascites etc. disorders) 8) urakshata (chest injury) 9) Burns mala) 5) Atisara (Diarrhoea) 6) Raktha Pitta (Bleeding disorders) 7) udara roga Spleeno 1) Raktha and Pitta Disorders 2) Alcoholism 3) Pregnancy 4) jaundice (ka-

# CLASSIFICATION OF SWEDA ACCORDING TO CHARAK

a) Agni Sweda - 13 types b) Anagni Sweda - 10 types

#### a) Agni SWedas 13:-

Inducing sweda by heat applications they are

10) Bhoo sweda 11) kumbhi Sweda 12) Koopa Sweda 13) holak Sweda. Sweda 6) jenthaaka Sweda 7) Asmaghna Sweda 8) karshoo Sweda 9) kutee sweda 1) Sankara sweda, 2) Prastara sweda 3) nadi Sweda 4) pariseka Sweda 5) Avagaha

### b) Anagni Sweda 10 types.

Inducing sweda by other than heat applications, they are.

9) Aayath - Fighting 10) Aatap - Sun Bath complexion. 7) Krodha - By anger 8) Upanaha - Application of ushna Veerya Aushada hungry 5) Bahupaanam - in take of more alcoholic drinks. 6) Bhaya - By inducing Fear room 3) Guru praavaran - By covering thick blankets etc., 4) Kshudha - Supressing the 1) Wayana - indulging more exercise 2) ushna Sadan - Residing in hot non Ventillated

## 1) Sankara Sweda - Or Pinda Sweda :-

a) Snigda Pinda Sweda b) Ruksha pinda Sweda.

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a) Snigda Pinda Sweda: meuro disease. In Vata predominent disease. polius or pinda 4 to 6 according to the requirement, these poulties should be prepare poulties of bolius of decoctions and apply to the affected areas for specific time. It is needed to be a predominent disease polius of prince poulties and apply to the affected areas for specific time, It is especially medicated in Vata predominent disease. Tila, Mastrices should keep in a Fresh, thin white cloth and should prepare poulties or pinda 4 to 6 according to the requirement, these poulties change poulties 5nigda First Medicated Kalkam (Semi solid paste) which is prepared with coocked Tila, Masha, Kuluttha, Amladravya, Taila, ghritha, Ksheera, payasa and other incentived medicines should keep in a Fresh, thin white cloth and should be and other incentived of the requirement.

<sub>white cloth</sub> like above. healed and applied to the affected area directly or by keeping them in the fresh, thin healed and above. Metalic particles, stone pieces, sand and dried faecal material of animals- is

It is especially indicated in Kapha predominent diseases.

Time 1/2 to 1 hour - Once or Twice a day. Shastika shall pinda Sweda Or NAVARAKIZI with advanced techniques, shastika shall pinda Sweda) in the 1 hour - Once or Twice a day. Kerala people are practicing this therapy (snigda pinda Sweda) in the name of

### <sub>2)</sub> p<sub>rasthara</sub> Sweda :-

Prasthara means stone. In astanga sangraha it is explained as samsthara

lie down on the stone for a specific time. It is meant for sarvanga sweda should cover with medicated leaves Or thin cloth and the massaged patient is asked to payasa etc., are coocked and kept on the 6 feet x 21/2 feet stone uniformly and Shali dhanya, Yava, godhuma, masha, Kuluttha, mudga, Kodrava, Tila, mamsa,

## 3) Nadi Sweda Or Bhaspa Sweda.

a) Bhaspa yantra b) Bhaspa Nalika c) Medicated decoction are required.

De exposed to the massaged part which is affected or to the entire body for boiling the medicine. The medicated vapour will come through the tube that should connected to the lateral part of the Bhaspa Yantra. Bhaspa Yantra is kept on the stone wide vessel. The mouth of the vessel is sealed and 6 feet tube (Bhaspa nalika) is Mamsa, or other needed medicines according to the disease should collect in a Big Bala, Shigru, Punarnava, Varuna, guduchi, Amla dravya, Lavana, mutra, Ksheera, lime: 1/2 to 1 hours, 7 to 21 days according to the vitation. The medicated decocotion prepared with Rasna, Erenda, devadaru, Nirgundi,

# 4) PARISEKA SWEDA - SNEHA DHARA SWEDA

### PIZICHIL - PISHIMCHIL.

lacility to collect the Oil which is used for the therapy. Droni is a special table used for abhyanga and Sweda in which there is a

lime, kerala people call it as has to do before pariseka. Lukewarm medicated decoctions, Oils, ghee, milk, butter milk etc. milk etc., is poured on the body with the help of dhara patra from 9" height for specific line, kerolo. Patient is asked to lie down on the droni, Shiro Abhyanga and Kaya Abhyanga

pizichil Orpishimcili. Social strenders is to collect the medicine from the bottom of sides for giving dhaara and 5th attenders is to collect the medicine from the bottom of pizichil Or pishimchil. 5 Attenders are required for the therapy, 2-2 attenders on either

Note : - 1) Daily if medicine is changed it is perfect

2) Milk has to change daily

3) Dhanyamla should change once in 3 daily

change competely after 7 days. 3) Dranyallia and the should add to the old medicine and should 4) Taila, after 3 days freshmedicine should add to the old medicine and should

Time: - 1/2 to 1 1/2 Hour daily, for needed duration according to thedisease.

### 5) Avagaaha (Medicated tub Bath)

measure ments of tub :the tub, the patient is asked to dip upto neck for 1/2 to 1 hour, then asked to have hot Medicated decoctions, Oils, milk, ghee, mamsa rasa etc., should be filled in

Width 2 feet Lenght 4 to 6 feet

height - 11/2 to 2 feet.

#### 6) Jenthaka Sweda :-

ance of adequate symptoms of fomentation asked to sit - on the place arranged peripherally - upto specific time (up to the appear rangement is done for the patient . A patient after masssage is send in to the room and room centrally Angarakosti is arrnanged, peripherally all around the room seating ar-A special equidimensional round room is arranged for this therapy, in side the

### 7) Ashma ghana sweda :-

effect to the patient. stone and the massaged patient is asked to lie down on the stone by covering his bodywith cloth upto the ncek the vapour coming from the stone gives fomentation 2 feet stone, medicines are removed, Water is sprinkled thin cloth is covered on the It is a type of prasthara sweda in this variety medicines are burnt on on 6 x 2 1/

#### 8) Karshoo sweda :-

the pit and massaged patient is asked to lie down on a cot which is kept on the pit, tor should be narrow (approximately 4x21/2 feet dimentions) medicines should be burnt in A pit has to dig on the ground in which the bottom should be wide and mouth

#### 9) Kutee seda :-

with Angaara kosti, due to absence of air, thick covering, and heat, sweating is Massaged patient is covered with thick cloth and asked to sit in a non ventillated

10) Bhoo Swedam :-

The literated burnt particles are removed, water is sprinkled, covered with cloth and mas-medicated burnt is asked to lie down upto the specific time. 

(1) Kumbhee sweda: on the site, then hot iron balls are dropped into the decoction then medicated vapours A pot with medicated decocotion is burried in the earth, a cot Or stool is kept

<sub>12)</sub> Koopa Sweda :-

<sub>Karshoo</sub> sweda ) wider than the cot dried faecal material is burnt in the pit (medicinal parts are burnt is wore sweda ) opa Sike Karshoo sweda but more hot because themouth surface of pit is more

<sub>13)</sub> Holaaka Sweda :-

neath the cot instead of pit. It is also like Koopa sweda but dried faecal material is burnt and is kept under-

### SWEDA CLASSIFICATION ACCORDING TO SUSHRUTHA AND VAGBHATA.

1) Tape Seda :-

things, salt, sand, cloth or hand etc., Swedana is done with the direct touch of hot or heated objects like metalic

2) Ushma Sweda :-

vapour liberating from medicated hot items. It is indirect Formentation in which swedana is carried out with the touch of

3) Upanaaha Sweda :-

bandana (Saalavana sweda) Swedan by the application of ushna lepa, Sankara Sweda and ushna dravya

4) Drava Sweda :-

Swedan with hot medicated liquids like in pariseka Or Avagaha

#### Sweda Vidhi

I) Poorva Karma.

1) Collection of requirments like Vessels, medicines for the therapy and to

Sweda etc.) g) Age consideration is important todice the type of sweda and for treatment or site of the disease also gives the idea about the sweda (like Aamashaygatha vata - Ruksha c.... economincal status, estimation of money to purchase the medicines for sweda f) Desha or site. Sweda, moderate strengthy madyama sweda and for weak person mrudu sweda ) e) economical to the strengthy madyama sweda and for weak person mrudu sweda în Desha mrudu sweda in ushna rutu etc.,) d) Strength of the patient (for more strengthy maha Ruksha Sweda Pakwashaya gatha kapha snigda sweda, vrushan Hrudaya netra mrudu sweda eta vone of sweda and for treattype of Sweda is required, c) Seasonal indications (maha Sweda in sheeta rutu and 2) Assessment a) About the Common principles like indications, b) Which treat complications.

II desarrant Variety

Supplication of the April 1998, the second The Triangle means of the behinds of anothers of the triangle of 

NOTE > NETTOC CECENTS LOOF THE TIGE OF SHEXIS WHICH IS SELECTIVE EX-

Habitos & Linguist (Simisks ) Suecis

SET OF THE CHARMES CHARMED THE COLD TENSE ton results 5 Setting sincolness in the body 6) Adequate Suevering 7) Remission Designation of the first form only 8 Relief from stringer 4) Relief

Reduces of Inacequate Suecia (Assimpalia Suecia)

THE SECTION OF THE TOTAL STREET TO SECTION OF

Plating of Distance Sweets (1) Sweets

5 Lathorgy 5 Loint tains 7 Eruption of depigmented papules on Skin 8) Vertigo 9) This 10 Treates 110 Faler 120 Vamilitys 13) Raktha prakopa Pitts provides It Surning Sensation in the body S. Fainting 4) Heaviness of the body

attoried ") State - pitte shamen, Lepe, Keihere, Aushade has to give figure awass symptoms are considered the following measures should be

Sheata Veanja madhura Tikta Kashajia rasa Aahana, avoiding of katu Amla Lavana Ex. > Cool applications, cool air, residing in air conditioned room, intake of

ANS SWEETING SECTION AS

SHEET STONE GITE

THE STATE water sportung 4, Rest 5) Warm water bath 6) Sleeping after taking light liquid and non To not expose to cold Or open air directly. 2) Avoid Cold water 3) Warm

- 3 Nesia. Vest. Sakz mokstra, should do immediately after swedan

### TENSORSHE

unwanted step and drawsyness (3) Activates the Joints (4) Eliminates the doshas desire to take froot (1) All the minute channels of the body are purified. (2) Removes organs 8 Appeirer 9 Brings normal promertation and softness to skin 10) Increases Liquities the costies 5) Normally maintenance of Vera dostra 7) Brings softness in the () Removes rigidity 2) Reduce heaviness 3) Reduce Coldness 4) Induce Sweating 5)



## VAMANA KARMA. (EMESIS THERAPY)

e emerge tood, vittated kapha and pitta. Valuated Kapha dosha through the oral route, the expetied meteral consists of food, vitilated kapha and pitta. Cannaha Kalina is one among the panchakama therapy, especially mentioned

pews in healthy condition for the preservation of health. which has in it is indicated for elimination of dosha not only in diseased condition for the preservation of health. to the both virechana word is used but particularly vamana is lerned as The appravated doshas can be expelled out either through oral route or through

excelled out through the mouth. then brings them from Shakha to kostha, from here, by Vamana, doshas are Sheha and Sweda Karma causes softening mobilisation and liquitication of

## PROPERTIES OF VAMAKA DRAVYA.

1) Ushna 2) Teekshna 3) Sukshma 4) Vyavayi 5)Vikasi 6)Prabhava

NOTE:- (3) The drugs those induce vomiting are called as vamaka dravya

(b) The drugs those helps or enhance the qualities of vomiting are known as Vamanopaka dravya.

## INDICATIONS OF VAMANA KARMA.

) Peenasa 2) Kusta 3) Navajwara 4) Rajayakshma 5) Kasa 6) Swasa 7) Gala-grah 8) Sieepad 9) Galagand 10) Prameha 11) Mandaagni 12) Vishuchika 13) Alasak 14) S) Kantha paka S9) Karna Srava 40) Adhi Jihwak 41) Gala Shundika 42) Kapha Nedo roga SS) Grudroga S4) Chitta Vibrama S5) Visarpa S6) Vidradhi S7) Poothi nasa 26) Shopha 27) Pandu 28) Mukha Paka 29) Stanya dysti 30) Arbuda 31) Vidanka 32) Hrullasa 20) Aruchi 21) Apachi 22) Grandhi 23) Apasmara 24) Unmada 25) Atsara Visha Peetha 15) Viddha 16) Adho rakthapitta 17) Mukha praseka 19) Arsha 19)

# CONTRA INDICATIONS OF VAMANA KARMA.

Pleeha roga 33) Gulma 34) Udara 35) Ashtheetia 36) Swaropaghaatha 37) Timira 38) Shankhaka 39) Karna Shoola 40) Arsha 41) Akshi Shoola 42) Dukha 43) Brama 44) Aasthapitha 28) Hrudroga 29) Anuvasitha 30) Udaavartha 31) Moottaa ghaatha 32) Kostha 23) Dushchardan 24) Urdwa rakthapitta25) Prasakta Chard 26) Urdwa Vata 27) 17) Chita Prasaktha 18) Kshaama 19) Garbini 20) Sukumara. 21) Vibanda 22) Krum Shrantha 8) Pipasitha 9) Kshudhita 10) Karmahatha 11) Bhaarahatha 12) Aadhwahata Paarshwa ruk 45) Vata Vyadhi. 13) upavasitha 14) Miithuna prasaktha 15) Adhyayan prasaktha 16) Vyayana Prasakth 1) Kshatha Ksheena 2) Ati sthula 3) Ati Krusha 4) Baala 5) Vruddha 6) Durbala 7)

Клитаvedana, Sarshapa, Pippali, Karanja, Chakramard, kovidara, Ashwagand Viduk, Shananinska-DRUGS LIST USED FOR VAMANA KARMA. (a) ACCORDING TO SUSHRUTHA: Nadarphal Jeemotak lishwaku Dhanagan Vidus

Shanapushpi, Bimbi, Chitra, Swethavacha etc.

# DING TO BHAVAMISHRA AND SARANGADHAR.

Kalka		Decoction.	4) ACCORDING TO DES
Minimum dose	Moderate dose	Perfect duse	NG 10 Die
12 Tola 8 Tola 4 Tola.	3 Prasta	6 Rrasta	g Prasta
	11	11	11
	192 Tola	384 Tola	576 Tola

# 5) IDEAL OR PRACTICALLY USING DOSAGE BY MOST OF THE DOCTORS, IS.

	Powder
1/2 To 1 Tola.	Decococi
10 to 20 iolas	Demotion

### PREPARATION OF THE PATIENT:

before Vaman Karma. Suitable diet, Snehana, swedana, suggestions and assurances etc., should give

## 1) DIET REGIMEN DURING SNEAHA KARMA

Klesha (Nausea) food like Anupamamasa, dadhi, Ksheera, Masha, Tila, Drava etc., should Light, hot, Non sticky food should give, during the rest day Abhishyandi Kaphoth

conducted after intake of liquid diet only - not in empty stomach. During the day of Vaman :- Ksheera, Yavagu, ghritha should give, Vaman is

#### 2) SNEHA SWEDA :-

3 to 7 Days. 3 Times, in the 2) Rest day 3) [
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f Vamana,

to the Kosta, that should be expelled out by Vaman Karma. So, Sneha Pana, Abhyanga, Bashpa Sweda liquifies the doshas and brings them

#### 3) MAANASOPACHAR:-

dress and garlands, taking blessings from God, Brahmins, elders and Friends should be anxiety should be removed; head bath, application of Cented Flavours, wearing of new Patient should be explained about the therapy and its advantages, tension fear

After these preparations, ina a good day vamana karma has to conduct.

#### = PRADHANA KARMA,

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Service to the Patient and waiting for Vamana.

Waiting for Vamana, Vega -

ල යු උ පු කු Determination of Samyak Or Asmyak Vega.

Complications and its Management.

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### (a) INDUCTION OF MEDICINE,

Pausing Pausing Pausing Pausing Pausing Pausing Pausing Patient is given Vamanopaga dravya like Ksheera, Ikshurasa, madya, mamsarasa etc., to provoke patient is asked to sit in a Chair comfortablely, after examination, the patient is

y pha for proper emesis.

r<sub>honey)</sub> should be given. ommonly patient get satifaction after intake to 40 to 64 Lbs (Auns) Juice, then madana phala + 2 Parts Vacha + 1 Part sainchaus 1. compound (4 parts madana phala + 2 Parts Vacha + 1 Part saindhava lavana with phala α compound be given. The quantity of milk Or Sugar cane juice shouldbe measured before administration,

### (b) SERVICE TO THE PATIENT :-

for 1 muhartha (48 minutes) for Vaman Vega. Lukewarm sweda should be done at face chest flankes and back and should wait

sis, 10 to 20 Lbs (Auns) Yastimadu Phanta 5 to 8 times should be given that cause 4 to 10 initated, and repeatedly salt water Or Yastimadhu kwatha should be given for proper eme-23 Vega has to come if not with sticks or madhana phala compound throat should be sea are the Signs of Provokation of dosha to cause proper emesis commonly in one muhurtha Vamana Vega, than Samples should be collected for analysis. Sweating on frontal region, horripulations, balooming of abdomen, salivation, nau-

(c) Vamana Vega Nireekshan. Waiting for Vamana Vega.

observed carefully to assess the adquate or inadequate emesis. Number of Vamana vegas expelled matter, its quantity, features etc., should be

1st vega after induction of medicine should be Omitted.

		Avara
1>Prasta = 54 Tota.	Kapha antha	3. Minimal Emesis 4
1 1/2 Prasta=81 Tola	Kapha antha	(Pfavara)  2. Moderate Emesis 6
2 Prasta = 108 Tola	Pitta antha	<sup>1.</sup> Best emesis 8
Quantity of Vomited matter.	Dosha	Sl. No. Emesis grades Vega Sankya

(b) VAGBHATA CLASSI (Vishala, Vishala, Bimbi, nimba, madhuka, chitrak, Vidanga, Murva, Devadali, Kutaj, Trapusha, Vishala, Bimbi, nimba, madhuka, (b) VAGBHATA CLASSFICATION: Lavana, vacha, Ela, Sarshapa, Karanja, Pipaali, (b) VAGBHATA CLASSFICATION: Lavana, vacha, Bimbi, nimba, mark...

medenphala.

### (c) ACCORDING TO CHARAKA

Madanaphala Jeemutaka Ikshwaku Dhamagav Kutaj Krutavedan	
Yogas Yogas Yogas Yogas Yogas Yogas	
355 355 355	)

jeemuta, Krufavedan, pippali, kutaj, Ikshwaku, Ela, dhamargav etc., drugs. and in Kapha pitta Amasshaya Vyadhies he explained madanphala yastimadu, nimbu, He explained moolini, phalini, Pushapa, patra, lavana, Vaman-opaga, Kashya, drugs,

#### VAILANA KALPANAS

Chuma, Veti, kalka, Venti, Kashaya, Leha, sneha, Mamsa ras yavagu, yoosha, Ksheer, dadhi, Takra, Ikshuras, asava, Arista, and with different food items.

### I) YAMAN KARMA PROCEDURE

Poona Karra. Essental pre requisites for Varnana

ture, spillions, assisting staff and drugs for inducing varnana and to treat the complications a) Collection of necessary facilities such as :- Equipped room, utensits, furni-

(b) Examination of the Patient:

Designation of the second of t Regarding his suitability for variana, this assessment is done by Asta Vidha

# (c) DETERMINATION OF THE DOSAGE OF VAMANA

Paterarces for classics

= 1 Tola. The other deciding factors are, strength of the patient, disease and Sustruffie suggests varrian dosage for Decoctions = 16 Tola. Powder and paste ACCOUNT OF THE PARTY

any complications Minimum dosage of drug should eliminate doshas, should be pleasent without producing

Weather and strength of the patient etc. He said dosage should be fixed basing upon severity of desease, age, Climate,

# d) FEATURES OF ADEQUATE EMESIS (SAMYAK VAMAN LAKSHAN)

proper elimination of doshas first Kapha then pitta

Lightness in hrudaya moordha, Kantha, Paarshwa, Srotas, indria and body.

500 Should not have complications.

4 Starting and stoping of Vamana Vega should be natural without any

stimulations.

# FEATURE OF INADEQUATE EMESIS (ASAMYAK VAMAN)

Salivation. 7) Fever. 1) III Process in hrudaya, Kantha and Srotas 5) Erruption of Spotha, Kotha, Kandu 6) Shoky 1) Improper elimination of doshas 2) Only medicine is expelled out 3) Delayed emesis. 4)

### Features of Excessive emesis.

Weakness 11) Death. 1) Frothy Vomiting. 2) Blood stained vomiting. 3) Pain in the Chest heart and throat. 4) Thirst 5) Delirium 6) Vertigo 7) Un consciousness 8) Burning sensation 9) Insurmia 10)

# e) Complications of Vamana. (Vamana Vyapath.)

Symptoms of Heena Yoga and Atiyoga of Varnana. 1) Aadmana 2) Parikarthika 3) Hruthgraha 4) Gatragrah 5) Stamba 6) Ktama 7) Stava 8) Raktha Pitta 9) Vibramsha 10) Vibanda 11) Atisara 120 Pravanika 13) Vata Shoota 14)

## PASHCHATA KARMA. (Post Vaman Regimen.)

Santarpana - nourishing therapy 6) Preparation for proceeding shodhara therapy suitable suggestions (Pariharya Vishaya) 4) Samasarjana krama to activate agrii 5) 1) Rest for 1 Muhurtha (48 Minutes) 2) Dhooma Paana for sroto studdhi 3) Following the

# Suitable Suggestions after Vamana Karma:

ing, travelling, Anger, Anxiety, heat, Cold,Open air, coitus, night arousal, day sleeping. suppressing of natural urges etc. The Patient should avoid. Loud talking, excassive eating, constant sitting, excessive walk-

### SAMSARJANA KRAMA:-

The Varnana Karma Temporarily diminishes the agni, it has to be revived with the spropriate diet schedule for 7 days, itis here under.

37	3	3	7	語	34	75	3	計	年	g	27	<b>19</b>		15 \$ B	in.
*	75		<i>ā</i>		9		4		ω		N)			No. of Anna kale. (diets)	elp of approp
night	Morting	Marie .	Morning Accura	Night	Suppor	a form	Morning	N. Com	3rd Dey Morning Vilepi	Nigh	2nd day Morning	Night	lst day Morning.	No. of the day	help of appropriate diet schedule lot i
Nomal	Krutina Marrica racia	krutha Manna rasa	mamsa rasa	Kocha Yusha	Krutta Yusta	Akoutha Yusha	Vilepi	Villeti	ži Vilegi	Peya	Peya	Peya	•	Havaia Shuddhi Shi	
				of Normal	Krutha marnsaras	a Akoutha mamsaras	Krutha Yusha	Akrutha Yusha		Vilepi	Peya	Peya	,	Shuddhi Shuddhi Shuddhi	machama
					1735 1735	Saras		a Normal diet	Mamsarasa	Yusha	Vilepi	Peya	•	Avara	٨

Note: a) For pravara shuddhi, at 7th day evening normal diet should be given. c) For avara shuddhi at 3rd day evening normal diet should be given. b) For Madyama Shuddhi at 5th day evening normal diet should be given.

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Proceeding Shodhana karma. Value: 12th 13th, 14th, Rest days and 15th day Swedan and Virechana should be 

### VIRECHANA KARMA.

nucleo atter Vamana it is aimed to expell out the pitta predominent doshas through the anal passage, it is aimed to expell out the pitta predominent doshas through the anal passage, it is aimless complicative than Vaman Karma. esplest, and less complicative than Vaman Karma. It is also one among the pancha karma procedures, commonly proceed after Vamana

il Use Institution of expelling dosas through anal Canal. gaptution and Jala. 7) having the effect (Prabhava) of expelling dosas through anal Canal. District 1 Teekshna 3) Sukshma 4) Vyavayi 5) Vikaasi 6) Predominent basic elements oualities of Virechana Drugs.

Note: Vernana and Virechana drugs are having mostly Similar qualities but oppposite

efect is due to the prabhava of the drugs.

## NTRODUCTION OF VIRECHANA DRUGS.

د) المحمر المالية المحمد المح

1) Best drug of Sukha virechan is Trivruth root mrudu Virechana is Aragwada

Teekshna Virechana is Snuhi Ksheera.

Charaka - explained in detail about Virechana drugs in Kalpa stana From 7th to

a) Shyama Trivnuth Yogas 110, b) Snuhi yogas 20, c) Aragwada Yogas 12, d) Tilwaka Yogas 16, e) Sapthala & Shankhini Yogas 39, f) Danthi & Dravanthi yogas 48, in addition to 12h chapter (6 chapters) and explained 24 5 Virechana Yogas, they are. 1) Moolini drugs 2) Phalini drugs 3) Lavan Varga 4) Ksheera Varga 5) Pakwashaya dosha zione description Charaka Also given the classification of Virechan drugs as below:-Sresta dravyas 10) Virechana dravya sangraha. raran dravyas 6) Bhedinee drugs 7) Virechanopaga Varga 8) Pureesha Viraajaneeya 9)

### B) ACCORDING OT SUSHRUTHA:-

The Best drug of:

Virechan - Shuni Ksheera. Pareetaki 4) Taita Virechan - Erenda Tail 5) Swarasa Virechan - Karavellaka 6) Ksheera )) Moola Virechan, - Shyama Trivruth 2) Twak Virechan - Tilwaka 3) Phala Virechana .

Karripiliana, naliyan, hamayaka, Sapthacchada, Jyotismati,Arka, Aavartaki, Vidanga, Erenda, Poothika, Maha Vruksha, Sapthacchada, Jyotismati,Arka, Aavartaki, Vidanga, Lavan, Vacha, Katuki, Drakshna, Yastimadu, Mutra, Ksheera, Karavellaka. Vishanika, Gavaakshi, Siruin, Siruin, Baretaki, vibheetaki, Aamalaki, Neelinee, Aaragwada, kampillaka, Ramyak, Patala, Pooga, hareetaki, yibheetaki, Aamalaki, Neelinee, Aaragwada, kampillaka, Ramyak, Patala, Vorikcha, Sapthacchada, Jyotismati,Arka, Aavartaki, Vink Virechan drugs list - py susminima ksheeri, Chitrak, Kinihi, Kusha, Kaasha, Tilwaka Vishanika, Gavaakshi, Snuhi, Swarna ksheeri, Chitrak, Kinihi, Kusha, Kaasha, Tilwaka Vishanika, Gavaakshi, Snuhi, Swarna ksheeri, Chitrak, Kinihi, Kusha, Kaasha, Tilwaka Virechan drugs list - by sushrutha & Charaka.:- Trivruth, Danthi, Dravanthi, Sapthala,

9) Erenda Taila 10) hareetaki 11) Yastimadu 12) kakuki 13) Draksha etc., Important Drugs volument 3) tilwaka 4) Snuhi 5) Sapthala 6) shankhni 7) Danthi 8) Dravanthi 1) Trivruth 2) Aaragwada 3) tilwaka 4) Snuhi 5) Sapthala 6) shankhni 7) Danthi 8) Dravanthi Important Drugs Commonly used:-

Indications of Virechana.

nya 47) yulanida 407 yulanida 407 (1907) Medhra daha 57) Nasa daha 58) Karna daha 59) Aanaha 60) Shleepada 61) Stanya dosha ruja 47) vibanda 48) Vidradhi 49) Shotha 50) Kshatha 51) Dagda Vrana 52) Guda daha 56) Aarthava dosha 41) Timira 42) Udara 43) Avipaka 44) Chardi 45) Visphota 46) Pakwashaya roga 27) Neeting 27) (1907) (1908) Apasmara 37) Unmada 38) Vata raktha 39) Yoni dosha 40) kasa 34) Kamala 35) Apachi 36) Apasmara 37) Unmada 38) Vata raktha 39) Yoni dosha 40) Snirán Snoula 44) Aruchi 29) Netra Srava 30) Nasa srava 31) Haleemaka 32) Swasa 33) roga 27) Neelika 28) Aruchi 29) Netra Srava 30) Inmada 38) Vata raktha 30) Vani 15) Adiasana 10, moon 3, moon 123) udaavartha 24) netra daha 25) Aasya daha 26) hrud Shirah Shoola 22) Parshwa shoola 23) udaavartha 24) netra daha 25) Aasya daha 26) hrud 16) Aalasaka 16) Mootra ghata 17) Krimi Kosta 18) Visarpa 19) Pandu 20) Vyanga 21) Indications of Virguisians (17) Bradhna 8) 1) Jwara 2) Kusta 3) Prameha 4) urdwa Raktha Pitta 5) Bhagandar 6) Arsha 7) Bradhna 8) 1) Jwara 2) Kusta 3) Prameha 4) urdwa Raktha Pitta 5) Bhagandar 6) Arsha 14) Vishoochila 10) Arbuda 11) Galaganda 12) Grandi 13) Gara Visha 14) Visaroa 19) Pandu 20) Visaroa 17) Krimi Kosta 18) Visaroa 19) Pandu 20) Visaroa 19

Contra Indications of Virechana.

kshuditha 36) Dukhitha 37) Hrudrogi 38) Bhaya bheet. Prasakta 30) Kshaama 31) Garbini 32) Nava prasoota 33) Raja Yakshma 34) Atisar 35) sthula 19) Ati Krusha 20) Bala 21) Vruddha 22) Shraantha 23) Pippasitha 24) Adwaha 25) Upavasitha 26) Miithuna Prasaktha 27) Adayaan Prasakta 28) Vyayama Praskta 29) Chinta 13) Abhigatha 14) Ati snigda 15) Ati ruksha 16) Daruna Kosta 17) Kshata Ksheena 18) Ati Mandagni 7) Niruha 8) Ajeerna 9) Nava jwara 10) Madatyaya 11) Aadmana 12) Shalyaarditha 1) Kshata guda 2) Guda bramsha 3) Adho Raktha Pitta 4) Langhana 5) Durbala Indria 6)

# DIFFERENT WORDS RELATED TO VIRECHAN BY SARANGADHAR

anal canal. ex :- hareetaki Pureesha, perfectly formed (Pakwa) disintigrated and eliminated out through the

Sramsana.

canal. ex: - Aaragwada Puresha, imperfectly formed (Apakwa) but forcibly send out side through the anal

out side through the anal canal. ex :- katuki Acumulated pureesha whether pertectly formed or not, get disintigrated and send

Pureesha is send out side through the anal canal in fluid form Ex:- Trivruth

Virechana Kalpanas :-

The virechan drug can be used in so many forms as follows:-

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1) Churna 2) Vati 3) Modak 4) Varti 5) Avaleha 6) Aasava 7) Arista 8) Kwatha 9) 1) Yavagu 11) Madya 12) Panak 13) Kseera 14) Takra 15) Dadhi 16) Taila 17) 10) Yavagu 11) Food preparations 20) Water. الموالة الله Mamsarasa 19) Food preparations 20) Water.

poorva Karma Procedure. القوابها Poorva Karma Procedure. whethen - rungerial required material. 2) Examination of the patient. 3) Preparation of the paralled the dosage.

lient. 4) Fixation of the dosage.

A SPT-Land Karma and to treat complicatios, should be collected. eduired Material:-ا)Collection of Required Material:petion ייייין equipped room with furniture, utensils, spittons, bed pans, medi-A special well equipped to treat complicatios. should be במוכמים אמרשים and to treat complicatios.

g) Examination of the patient. raucing the patient and disease should assess by Asthastana and dashavidha pareeksha stellah drug and dosage for rechana should fix basing on the above for the stellah drug and dosage for rechana should fix basing on the above for the stellah drug and dosage for rechana should fix basing on the above for the stellah drug and dosage for rechana should fix basing on the above for the stellah drug and dosage for rechana should fix basing on the above for the stellah drug and dosage for rechana should fix basing on the above for the stellah drug and dosage for rechana should fix basing on the above for the stellah drug and dosage for rechana should fix basing on the above for the stellah drug and dosage for rechana should fix basing on the above for the stellah drug and dosage for rechana should fix basing on the above for the stellah drug and dosage for rechana should fix basing on the above for the stellah drug and dosage for rechana should fix basing on the above for the stellah drug and dosage for rechana should fix basing on the stellah drug and dosage for rechana should fix basing on the stellah drug and dosage for rechana should fix basing on the stellah drug and dosage for rechange for the stellah drug and dosage for the s slengli المالية والمالية والم minatuuייייייי ביי Patient should be perfectly examined whether indicated for the therapy or not, the

3) Preparation of the patient. pilla viuvuii. 15th day in empty stomach, Virechana therapy should be conducted. agall المالي المالية various ninda drava. ushna. mamsarasa. Amlaraca oto too again sheha panda drava. ushna. mamsarasa. Amlaraca oto too again sheha panda drava. ushna. mamsarasa. paration of the seriod of the

4) river. The patient, disease, and digestive gosage should be fixed according to the strength of the patient, disease, and digestive

According to Sarangdhar. Powder & Paste-perfect dose Decoction perfect dose Minimal dose Maderate dose Minimal dose Moderate dose 2 Tola 4 Tola 1 Phala (4 Tola) 2 Phala (8 Tola) 1/2 Phala (2 Tola

			CA 1410 CAMPAGE COM	ange to a	THE WEST	and the print, and had	Mary Control of the	
-/	Çn	4.	۽ ج	υľ	· <del>- ·</del>	₹	SS	
, de 1	Snuhi	Hareetaki Mayaphala	Aragwada	Invith	Erenda sneha	602 102	Drugs	
3 Masha	do-	-do-	1 To 2 Tola	1 to 3 Masha	1/2 to 2 Tola		Mrudu Kosta	
3 To 6 masha	-do-	다 수 5 기	2 1/2 To 5 Tola	3 to 6 Masha	2 to 5 Tola	Kosta	madyama	
1 Tola.	4 to 8 Rati.	do do	5 To 10 Tola	1/2 To 1 Tola	5 to 10 Tola		krura kosta.	

1) Valagredominent cus as course and Draksha Kwath. 3) Kapha predominent 2) Pitta predominent doshas - Inkruth cruma and Trikett. Usage of drugs according to dosha: 

doshas - Triphala kwatha, Gomutra and Trikatu

 I) Induction of measurements, inadequate Or Excessive rechana 5) Complice.

Virechan Vega. 4) Waiting for Adequate, inadequate Virechana - pradhaaana Karma Procedure. (Virechan Therapy) 

tally, in a good day after worshipping the god, elders, Brahmins etc., in between 7 and 8 AM, medicine should be given. 1) Induction of Medicine :-After periest preparations when the patient is well prepared physically and men-

According to thecandition medicine should be selected for the therapy. Commonly

Trivruth churna or. Katuki 1/2 hareetaki Aragwada Draksha 1 Tola 1 Tola 1/2 tola Boil it and reduce to 1/4, so 4 Tolas decoction is prepared. + 16 Tola Water

4 Tolas above compound + 21/2 tola erenda taila + 4 Rati lcchabhedhi rasa - is given orally to the patient.

2) Service to the Patient.

gargling and intake, chewing and application of Flavoured items and Wearing Or inhaling of Vornitings so only patient should be advised to Wash the face with Cold water, hot water After intake of medicine, due to its taste odour and effect there is every possibility

3) Determination of Virechan Vega.

be given and mrudu sweda at abdomin should do for the activation of the therapy. After drug administartion Virechana vega will start if not repeatedly hot water should

If Virechana doesnt occur on the day, medicine should not give again and in

the evening normal diet should give.

The next day medicine should give again.

If Second day also Virehan doesn't occur, by giving 10 days gap Virechana

should conduct with sneha, sweda, vaman etc., procedures.

Care should be taken to collect the expelled matter spearately for the assess

gradually (Kaphaantha) For the adequate Virechana therapy pureesha pitta and kapha has to come

0 While counting the number of vegas the first 2-3 vegas should be avoided

> and 10 Respectively. Names of Virechan Vegas for perfect moderate and minimal should be 30-20

and perfect moderate andminimal should be 4 Prasta 3 prasta Quantity of rechana for perfect moderate andminimal should be 4 Prasta 3 prasta

and 2 praste respectively. וות יישי איישים איישים ווישים איישים ב- Saindhava lavana compound. The vegas should start and stop naturally, after the appearance of adequate

∜obseravation of Symptons. Yacha + Saindhava lavana compound.

a) Adequate symptoms of Virechana.

and elimination of doshas in time. nizīratīve, ravoid - madyama aavara), Absence or Ayoga Or Atiyoga Lakshana, 432 prasta pureesha (pravara, madyama, Avara), Absence or Ayoga Or Atiyoga Lakshana, The pure sha (pravara, madyama, Avara), Absence or Avara - nadyama aavara), a pure sha (pravara, madyama, Avara), Absence or Avara - na dyama aavara), Srotoshuddhi, Indria prasannata, Laghutwa, Vatanulomana, Agni deepana,

b) in Adequate symptoms of Virechana.

ال Agery Vata pitta Kapha prakopa, Agnimandya, Gourava, pratishyaya, Tandra, Chardi, Vata pitta Kapha prakopa, kukshi hrudaya Ashuddhi, kandu, Vibanda, mutrasanga, بريرتُانَ, Vata Pratilomana, Daha, kukshi hrudaya Ashuddhi, kandu, Vibanda, mutrasanga,

c) Excessive Symptoms of Virechana.

Brama, Rakta Kshaya and medokshaya. Tana Prayesha, unmada, apasmara, hiccough, murcha, Gudabramsha, shoola, Trushna Vata Pitta Kapha Kshaya, Supti, Angamarda, Klama, Vepadu, Nidra, Dourabalya,

5) Complication .

Stambha, Klama, upadrava. Aadmana, parikarthika, Srava, hrudgraha, Gatragraha, Raktha pitta, Vibramsha,

Pashchyat karma.

Post Virechan Regiment.

Except Dhoomapana rest of the method is as like Vamana.

Virechanottaa karma.

laangala mamsa then Niruha Vasti has to give. 7 days samsarjankram. 8th day rest 9th day Anuvasan Vasti, 3 days food with

VASTI KARMA

ulmost importance in pancha karma procedures and said it is the HALF of the or WHOLE lithon of semen etc., dhatus, improves vision, lustre, strength and health, So only given Stope of applicability, It is said as the special treatment for Vata dosha (for pitta Kapha and Hakla also ) it is having the effect of Samshodha, Samshaman, Anabolic, catabolic, resto-Vasti Karma is themost important therapy in pancha Karma Procedures, with vivid

used to introduce the medicated materials through rectum, urethra and Vagina etc., The word vasti is derived From the vasti Tantra (animal urinary bladder) which is

Classification of Vasti Karma.

1) Anatomical classification (for wound Or abscess). Anatomical classification (adhistana bhed) Anatomical classification (rectum into Pakwashaya) b) Garbhashaya gath (Through rectum into Pakwashaya) b) Garbhashaya gath (Pethro Vesican) a Natura Shaya gath (Urethro Vesican) a Nat

Pharmaceutical Crassinoscopy (Or kashaya vasti b) Anuvasan Vasti Or Sneha a) Niruha Vasti Or Aastapan Vasti Or kashaya vasti b) Anuvasan Vasti Or Sneha Pharmaceutical Classification (Dravya bhed)

2

Pharmacological classification (Karma bhed)

According to Sushrutha

a) Shodhana Vasti - It is used to expell the doshas Forcibly

b) Snehan Vasti - It is used for Oleation effect - ( Anuvasan Vasti).

d) Brumhan Vasti :- It is used to nourish the saptha dhathu (Anabolic activity) c) Lekhan Vasti :- It is used to scrape out medho dhathu Or Kapha dosha

According to Vagbhata.

c) Shaman Vasti. :- It suppressess the propogated Or vitated doshas. a) Uthkleshan Vasti - It increases the quantity of dosha Or mala.
b) Dosha hara Vasti. :- It is like shodhan Vasti in which doshas are expelled out.

III) According to Sarangdhar.

 h) Deepan Vasti - it is used to regularise the intensity of jatharagni. the dhatus g) Pischila Vasti - Vasti given with sticky items to control Atisara like disorders the vitated Or propogated doshas. d) Shodhan Vasti- Doshas expelled out Forcibly. e) Lekhan Vasti - it is used to scrape out medo dhathu or Kapha. f) Brumhan Vasti. - Nourishes Vasti - it is shodhan Vasti in which doshas are expelled out. c) Shaman Vasti - it suppress a) Uthkleshan Vasti - it increases the quantity of dosha Or mala. b) Dosha hara

IV) According of Charak.

semen. e) Krimighna Vasti - Destructs Krimi. f) Vrushatwa kruth - Increases sex potency, and Colour complexion c) Snehan Vasti\_like anuvasan Vasti. d) Shukrakruth - Increases a) Vataghna Vasti - Controls Vitated Vata dosha b) Bala Varna Kruth- Gives strength

Classification of Vasti Based on Number of Vasti.

a) Karma Vasti - 30 Vasti b) Kala Vasti 16 Vasti given. c) Yoga Vasti 8 Vasti should

5) Different words used for Vasti.

Vasti 33) Dosha hara vasti. Raktha Vasti 29) Ksheera Vasti 3)) yuktha ratha Vasti 31) Deepan Vasti 32) Krimighna Vasti 24) Pada heena Vasti 25) Mrudu Vasti 26) Pischila Vasti 27) Teekshna Vasti 28) Siddha Vasti 21) Prasrutha Yougika Vasti 22) Dwadash Prasruth vasti 23) Madhu tailkika Yoga Vasti 16) Aastapan Vasti 17) Anuvasan Vasti 18) Matra Vasti 19) Yapan Vasti 20) Vasti 11) Sangraahi Vasti 12) Varna Prasadan Vasti 13) Karma Vasti 14) Kala Vasti 15) Vasti 6) Karshan Vasti. 7) Rasayan Vasti 8) Vaji Karan Vasti 9) Snehan Vasti 10) Chakshushya 1) Shodhana Vasti 2) Shaman Vasti 3) Lekhana Vasti 4) Uthkleshan Vasti 5) Brumhana

Vasti Or Niruha Vasti Or Kashaya Vasti :- Ireat the diseases.

Mayuri Treat the diseases. 

المجامعة المستخطعة . Decoction predominent medicines used in this type. المجامعة المستخطعة المستحد

Yaavii - Gives strength colour complexion and treats thedisease - Siddha Vasti - Gives strength colour complexion and treats thedisease -Magruthi, taila 3 prasruthi, Kwatha 4 prasruth, Kalka 1 prasruthi, prasruthi, restores aging and causes Assured اه: مال tailika vasti - Honey Oil are Basic elements of the medicine (honey 2 Madhutailika yasti - Honey Oil are Basic elements of the medicine (honey 2 plasturi, plasturi, restores aging and causes Aayur Vruddhi - (ch.Si. 12-5)

(Ch. si -10-3 Vukta ratha vasti -given even in journeys

Ex. Ksheera Vasti, Taila Prasanna vasti. yukta rawing prasruth yougika Vasti -8 Tolas (1 Prasruthi) medicine is given (Ch. SI 8-2) prasruth yougika Vasti. Taila Prasanna vasti

Patoladi Vasti - Vidangadi Vasti.

pwadasha Prasruthi Vasti (Su. Chi 37-30)

Teekshna Vasti (su. Chi. 35-10) 12 russi - 9 Prasruti (72 Tolas) medicine is used (Su. chi. 38-118 pada heena Vasti - 9 Prasruti (72 Tolas) medicine is used (Su. chi. 38-118

Mrudu vasti

pischila (Sangrahi ) Vasti - (Cha.Si. 8 to 26) pischila (sangrahi ) Vasti - (Cha. Chi. 19-64 to 68) 6 to 83

http:// The dosage of Aastapana Vasti is 12 Prasruthi = 96 Tolas (in general)

յհոսvasan Vasti Or sneha Vasti.

minamed as Anuvasan Vasti, in the combination of medicines Oily drugs are predominently ങ്ങ also named as sneha Vasti. Itean be given daily and dosen't cause any complications if retained in thebody so

It can be named as follows according to dosage.

Sneha Vasti Dosage

1/4th of Niruha Vasti = 12 prasruthi 3 prasruthi

11 24 Tolas.

1/2 of Anuvasn Vasti = 1 1/2 Prasruthi 1/2 of Sneha Vasti = 3 Prasruthi 11 11 1 1/2 Prasruti 12 Tolas.

II

6 tolas

Matra Vasti dosage

Anuvasan Vasti dosage

Total 30 Vasties are given

among them 18 Anuvasan Vasti and 12 Niruha Vasti.

Masti should give and at last 6 anuvasan vasti should be given. First anuvasan Vasti is given then Niruha Vasti, like this 12 Anuvasan and 1:

IV) Kala Vasti :s **Vasti :-**Total 16 Vasiles are given among them 10 Anuvasan Vasti and 6 Niruha Vasti

Vastl should be given and at last 4 anuvasan vastl should be given. First Anuvasan Vasti is given then Niruha Vasti, like this 6 Anuvasan and 6 Niruha

v) Yoga Vastl.

give, at last 2 Anuvasan Vasti should be given. Total 8 Vasties are sixten in the Vasti like this 3 Anuvasan 3 Niruha Vati should First Anuvasan Vasti Leond he given Vasti.
Total 8 Vastles are given, among them 5 anuvasan Vastl and 3 Niruha Vastl

Indications of Niruha Vasti.:-

Moodha garbha 47) Mutra Kruchra 41) Vata Raktha 42) Arsha 43) Stanya Kshaya 44) Manya Graha 45) Hanu graha 46) Pratishaya 36) Adhimantha 37) Arditha 38) Pakshaghaatha 39) Ashmari 40) Upadamsha 29) Stambha 30) Antra Koojana 31) Parikartika 32) Vata Vyadhi 33) Jwara 34) Timir 35) Gulpha Paarshwa Prapada Yoni Bahu Anguli stana Nakha and dantha shoola. 28) Sopha Gulpha Paarshwa Prapada Yoni Zav Padikarika 20) Vata Vvadhi 33). Iwaza 24 Tarabanika 20) 23) Anga gourava 24) Laghutwa 25) Kshaya 26) Vishamaagni 27) Spik janu Jangha Uru 20) Shirah, Karna, hrudaya, Paarshwa, prushta and Kati shoola 21) Kampa 22) Aakshepa dosha 13 Gulma 14) Shoola 15) hrudroga 16) Bhagandara 17) unmada 18) Jwara 19) Bradhna Sanga (Retention) 4) Bala Mamas Shukra and dosha Kshaya 5) Aadmana 6) Anga Supthi lons of Wrutta vas...

1) Ekanga and Sarvanga roga 2) Kukshi roga 3) Vata, mutra, Puroosha and shukra,

1) Ekanga and Sarvanga roga 2) Kukshi roga 3) Vata, mutra, Puroosha and shukra,

Contra Indications of Niruha Vasti.

Guda sotha 49) Shopha 50) Alpa Varcha. Sthoulya 43) Kantha sosha 44) Kshatha Ksheena 45) Garbini 46) Bala 47) Vruddha 48) 35) Kusta 36) Arsha 37) Paandu 38) Brama 39) arochak 40) Unmada 41) Shoka grasta 42) 29) Aadmaana 30) Alasaka 31) Vishuchika 32) Aamadosha 33) Aama Atisara 34) prameha 24) Kasa Prasakta 25) Hikka Prasakta 26) Baddha gudodara 27) Chidro daru 28) Jalodars Mattha 20) Morrchtha 21) chardi Praskta 22) Nishteevana Prasakta 23) Swasa prasakta 13) Peetodaka 14) Vaamitha 15) Viriktha 16) Krutha Nasya 17) Kruddha 18) Bheetha 19) Durbala 8) Kshudhitha 9) Trushnartha 10) Shramaartha 11) Krusha 12) Bhukthaabhaktha 1) Ajeerna 2) Atisneha 3) Peeta sneha 4) uthklista doshas 5) Alpagni 6) Klama 7)

### Indications of anuvasan Vasti.

1) Ati ruksha 2) Vata vyadhi 3) Teekshnagni All the indications of Niruha are also indicated for anuvasan, additionally

### Contra Indications of Anuvasan Vasti.

24) Prameha 25) Kusta 26) Sthoulya 27) Peenasa 28) Krusha. 18) Vishyandi 19) Guru Kostha 20) Shleepada 21) Gala ganda 22) Apachi 23) Krimi Kosta Pleehodara 13) Kaphodara 14) urustamba 15) Atisara 16) Visha Peetha 17) Gara peetha 5) Kamala 6) Prameha 7) Arsha 8) Pratishyaya 9) Arochaka 10) Mandaagni 11) Durbala 12) 1) All Contra indications of Niruha Vasti 2) Abhukta bhaktha 3) Nava jwara 4) Pandu

> vasti yantra :-יי ווייסטעכפּ the med. אין lt contain 2 parts 1) Vasti Netra 2) Vasti Putaka, antra : It is the instrument used to introduce the medicine in to Rectum or urethra or

Vasti Netra:րը։ը»-թերի հիկիіla, paarshwa Chidra, Vakra etc., թերի թերի հետում է հ damoler, wasti netra should be perfect without errors like hraswa, deergha, Tanu, sthula melhod, shithila, paarshwa Chidra, Vakra etc., build hasti putaka (Bladder) is attahced, the size depends upon the age and device should be perfect without errors like hraswa device. pollos, to which vasti putaka (Bladder) is attahced, the size denanda manaler in etra the metallic tube (Prepared with gold, Silver Copper lead, Tin, Brooze, long, It is the metallic tube (Prepared with gold, Silver Copper lead, Tin, Brooze, long,

<sub>Vasti</sub> putak :-Infoduce ... I viewed, in Olden days per-polly purified urinary bladder is used, but now adays Rubber bladders are available for the polly putaka should be without the errors like Vishama Manager ... (60)) Purify putaka should be without the errors like Vishama, Mamsala, Chidrayuktha, 1989, Islavuktha, vatala, Snigda and Klinna. (Anema cane Micros) the medicine into rectum or uterus etc., through vasti Netra, in Olden days per-infoduce the medicine into rectum or uterus etc., through vasti Netra, in Olden days perutan elastic bag used to collect the drug and pressed while the therapy to It is an elastic bag used to collect the drug and pressed while the therapy to

### VASTI KARMA PROCEDURE

<sub>1) Poorva</sub> Karma. The following factors should be considered in Poorva Karma, they are

1) posha (Humors) 2) Aushadhi (Medicine)

a) In dosha kshaya :- Brumhan, Balya, Varnya, uthkleshan Vasti should give. 3) Desha (climate) 4) Kala (season) 5) Saatmya (Adaptability) 6) Agni (Digestive capacity) 7)Satwa (Pasychic state) 8) Oka (adaptations) 9) Vaya (age) 10) Bala (Strength) nosha: (its influence in the Selection of vasti) Vasti is given in Vata Predominent

b) In dosha Vruddhi :- Dosha hara,shodhan, Teekshna Vasti should give. c) Rasagatha medo gatha dosha :- Lekhana, Karshan, Vasti. g) Astigatha dosha : - Ghritha, Ksheera <sub>Rakta</sub> Vasti. e) Mamsa gatha dosha :- Kshara, agni Karma, Lekhan Brumhan Vasti. t) dosha : Langhan, paachan chikitsa. d) Raktha gatha dosaha :- Shaman, Varnya, Balya, Vasti. j) In Aama dosha vasti is contra indicated. կեմ։ h) Majjagatha dosha :- shaman, Brumhana Vasti. i) Shukra gatha dosha :- Vaajikarar

Note: According to Rasa and other symptoms also Vasti can be planned

#### 2) Aushadhi - (Drugs)

disease, patient and digestive capacity etc., Drug composition should be planned according to the diagnosis, strength of the

leekshna, ati mrudu, ati snigda, ati Ruksha, ati sandra and ati drava etc. The drug should not be Aamata, heenata, Atimatra, Atisheeta, ati ushna, ati

3) Desha (Climates - influence)

<sup>a) Bhumi desha (jangala, Anupa, Sadaran)</sup>

b) Aatura (Patients body constituion)

s. Vaman after 15 days Virechana, after 7 days Niruha, after 9th day Anuvasan. Vaman after 15 days Virechana, after 7 days Niruha after 9th day Anuvasan then Niruha after 14 day.

5) Satmya > (Adaptability)

5) Setmya ১- (এবইচারতাত্ত্ব) Niruha Vasti should give on empty stomach (after fully digested but not in hungry state).

6) Agmi :- In mandagmi Niruha Vasti is contraindicated

7) Satura (Mind)

to knowledge of pravara madyama and Avara sativa of thepatient The dosage of drug or tolerance of pain during the therapy can be judged according

s) Oka Saatmya ( Adaptations developed by habbit etc., ) By this the proper indications and selection of the drug can be assessed.

Dosage, size of Vastiyantra, time and duration can be assesed

### Bala (Strength of the Patient).

strength of the patient Selection of type of the therapy dosage and duration can be assessed by the

### DOSAGE OF NIRUHA VASTI

ω 4:	1/2	~ <u>ka</u>
Increase. 18 to 70 Years After 70 Years	1/2 prasruthi increases 12 to 18 Years Yearly 1 Prasruthi	Age 1 to 12 Years yearly
12 Prasruthi	12th Yr = 6 Prasruthi,	Dosage in prasruthi
10 Prasruthi	18 th Year = 12 Prasruthi	1 Yr = 1/2 Prasruti,
96 Tolas	48 Tola	Dosage in tolas
80 Tolas	96 Tola	4 Tola

The common Niruha dosage of an adult is 12 Prasruti = 96 Tolas.

### Pradaana Karma of Vasti:

- b) Vasti Pratyagamana Nireekshan
- c) samyak yoga, Asamyak Yoga etc.

## a) Vasti Pranidanam (Induction of Medicine).

be avoided as it may injure the anal region. 7) Quick Or slow induction of Vasti is not asked to take deep breath during the induction of medicines. 6) Shivering of hands should extremity is straight and right lower extremity flexed on knee and hip joint 5) Patient is and filling the medicine for induction. 4) Patient should lie down on leftside with left lower 1) Abhyanga (local and genral) 2) Swedan (Local and general) 3) Vasti Yantra Preparation

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the should be pulled out immmediately which may produce pain. 9) Vasti tube should be pulled out immmediately should out immmediately should out in the same that patient should the should temain lying in the same that the should the should temain lying in the same that the should the should temain lying in the same that the should the should temain lying in the same that the should temain lying in the same that the should temain lying in the same that the same fotal medicine should not introduce into Pakwashaya in order to avoid entry of Vayu into should be milled out in Pakwashaya in order to avoid entry of Vayu into The same posture for that patient should take up utkatakassan to eliminate mala vegas.

B) VASTI PRATYAACAMAANA rewastroduction of medicine. 10) Patient should remain lying in the same posture for 1/2 start 11) After that patient should take up utkatakassan to eliminate.

## B) VASTI PRATYAAGAMANA KALA,

Duration of elimination of Vasti is known as Pratyagaman Kala, that is 1 Muhurtha

with town in a come out intime. :- 1) Teakehan with a glaration in a come out intime. :- 1) Teakehan in a come out intime. :- 1) Teakehan in the come out intime. :- 1) Teakehan in the come out intime. A Minuser Complications a) Kosta aadmana b) pakwashaya shoola c) Mutra shoola d) win following Complications a) Vistambha g) Arati h) jwara.

Adequate features of vasti (samyak yoga):Adequate features limination of Vocation (sta Preusent come out intime. :- 1) Teekshna vasti 2) phala varthi 3) Katisweda, 4) tyssti come out intime. :- 1) Giving rechan

# disease (ringa Nivruthi) 11) Improvement of health. Elmiliano Good taste in eating. 8) lightness in pakwashya, mutrashaya etc., 9) Control of appetite 7) Good taste in eating. 11) Improvement of health Normal united the late in eating. 8) lightness in Drder. 5) Lightness in the body 6) Good Normal urination (prasrusta mutrata) 3) Normal elimination of Flattus (Prasrusta Vatata) 4) Normal elimination of Flattus (Prasrusta Vatata) 4) 1) Natural Elimination of Vasti without extra stimulations (Prasrusta VitKatha). 2)

In Adequate Features of Vasti (Asmyak Yoga)

Vasti 10) Loss of taste 11) Heavyness of body. 1) Described in the second of Flattus 7) Retention of urine 8) Dyspnoea 9) Improper elimination of raisea 6) Improper elimination of books. In Australian different parts. 2) Oedema 3) Rhinitis 4) Cutting pain at anal region. 5)

Features of Excessive Vasti (Ati Yog).

ness 7) Hiccough 8) Mental disturbances (Unmada) 9) Drowsiness 10) Features of Virechan 1) Body pain 2) Debility 3) Tiredness (Klama) 4) Tremors (kampa) 5) Sleep mood 6) Giddi-

# post Vasti Regimen (Vasti Pashchyath Karma)

out with adequate features. 1) After introduction of Niruha Vasti within one muhurtha Vasti vega has to come

vastican be given for the adequate features and health. Pakwashaya shotha, so After 2nd Niruha Vasti sneha vasti should give, then only Niruha though adequate Features are not seen 3rd 4th 5th Niruha vasti should not give, that causes If the medicine only come out immediately, second Niruha vasti can be given, Even

1) Rest 2) Warm Water bath.

strength, digestive capacity and doshic condition of the patient. 3) Milk, dalsoup (Yoosha) and jangala mamsarasa should give according to the

### According of Sushruth.

Vasti should give. The Following Activities should be avoided after Vasti karma. a) in Vata dosha-Mamsa rasa b) Pitta dosha-Milk c) Kapha dosh -Yoosha should give. Note∵1) Light diet, (1/3 of normal diet ) should give. 2) In the same evening only anuvasan

1) Excessive sitting, standing, travelling and talking.

untimely food and incompatible food. <sup>2) Avoid</sup> day sleeping, coitus, suppression of natural urges, Cold, sunlight, anxiety, anger

Vasti Vyapad :- Complications of Vasti. a) Vasti Netra vyapath complications due to incorrect Vasti netra.

	8)	Z	9	<b>4</b>	<u>છ</u> છ	٦	1	
b) Vasti Putak Vyapad (Complications of Vasti Putak) :-	Irregular Improper entry of Medicine.	Neta with Putaka Perforations. Pain to rectum.	g of	Thick Irritation to rectum.  Pain to rectum.	Lengthy Spireaus to cooper removed. Thin Pain to rectum.	Smaller Drug doesnt enter upto Pakwashaya	Vasti Netra dosha Complications.	
-						- 1	- 1	

Urinary bladder (of animal,) rubber bladder etc.

children in holding.		,
Difficulty for holding	Ati Klinna Vasti	8
Slipping while induction of Medicine.	Atisnigda Vasti	2
Foam Production in the Medicine.	Vatala Vasti	9 0
leakage of Medicine.	jala Yuktha	5)
Difficulty in induction of Medicine,	Sthoola Vasti	4)
leakage of medicine.	Chidra yuktha Vasti	ω
Bad smell produced in the bladder.	Mamsala Vasti	2
goes in other directions.	Vishama Vasti	=
Medicine		
Vyapad.	Vasti Putkaa dosha	

# c) Vasti Pranetha Vyapad (Complications of Vasti)

due to untrained or unexperienced person who gives vasti).

Sweda to rectum may relieve the problem. and causes pain and discomfort in Anus and Pakwashaya. Pakwashaya Abhyanga, Mrudu 1) Savaatha Vasti daan (If complete medicine is introduced without residue, air also enters

### Drutha praneetha Vasti Vyapad.

comfort, dysuria, rigidity and Lumbar pains, Vata hara chikitsa has to give. quick and irrelavantly introducing and removing the Vasti Netra causes pain, dis-

#### 3) Tiryak Pranidaan.

adequate results. Improper introducing of Vasti netra, drugs doesnt enter properly so cannot get the

#### 4) Ulluptha Dattha Vasti :-

tions, If not leads to vata prakopa and need Vata hara Chikitsa Vasti putaka should press carefully, at a time without gaping and pressure varia-

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5) 58 Kampa Vasti Daan:-6) 58 ka... shake or move the hands during the drug administration, ground not shake vasti:-

6) Ati praneetha Vasti :-Ati Pra: Ati Pra: Ati Pra: Ati Pra: Atimanda Datta Vasti -Introducing of Vasti netra into deeper levels, causes ulceration and pain in the rectum.
 Atimanda Datta Vasti -Introducing.

7) Au Franch Pakwashaya property.
The medicine cann't reach Pakwashaya property. Infroducing of Vasti netra superficially and slowly.

Ati Bahya, Atimanda Datta Vasti :-Introducing of Vasti netra superficially and slowly.

v. and causes adverse reactions. patta Vasti:- By Introducing vasti netra very quickly - Medicine enters more strand causes adverse reactions.

Note: After the Vasti administration Patient Should relax by raising the Anal region by

Other Complications of Vasti:- 12 in number they are.

1) Ayosanthi 10) Angaarthi 11) Parikarthika 12) Parisrava. Pravahika 9) Shiroaarthi 10) Angaarthi 11) Parikarthika 12) Parisrava. Other Communication (1998) (Mama 4) Aadman 5) Hiccough 6) Hruthprapthi 7) urdwaprathi 8) 1) Ayoga 2) Atiyoga 3) Klama 4) Aadman 5) Hiccough 6) Hruthprapthi 7) urdwaprathi 8)

### Anuvasan Vasti.

nights. 3) It is administered immediately after meals. Anuvasan Vasti should give in day time, and in sharath, greeshma and Varsha rutu in early dosha and in shodhan indicated disorders. 2) In Hemantha, Shishira and Vasantha ruthu 1) Anuvasan Vasti is contra indicated in Kapha predominent, medo dosha, Aama

In Kapha dosha 1 to 3 Vasti.

In Pitta dosha

In Vata dosha

9to 11 Vasti should give. 5 to 7 Vasti

give. 7) After drug administration, the drug can reside for 12 o 24 hours, if drug cannot come 5) Except in Vata predominent diseases Anuvasan Vasti should accompany Niruha Vasti drug. 8) Rest of the therapy is as like Niruha Vasti. even after 24 hours Teekshna Vasti or phala Varthi should give for the elimination. of the for adequate results. 6) After elimination of male matra vaga only Anavasan Vasti should

### Complication of Anuvasan Vasti:-

Aavruth 6) Complication of Vasti if given empty stomach. 1) Sneha Vata Aavrutha 2) Pitta Aavrutha 3) Kapha Aavruth 4) Anna Aaavrutha 5) Pureesha

#### Uttara Vasti.

Vasti if given through urethra Or Vagina, is known as uttara vasti.

DOSAGE OF DRUG: - 1/2 Phala Or 2 Tola. According to sushruth = 1 Prasruthi, but for Garbhashaya shodhan = 2 Prasruti

Indications:- in most of urinary, vaginal and uterine disorders

Note:-1) In Ladies for Garbhashaya shodhan the vasti should give in Putukala, after 4 days 2) If the given medicine is Oil predominent, the rules of Anuvaasan should tollow, if decoction predominent medicine is given, the rules of Niruha Vati should follow.

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#### **DHOOMA PANA**

Kasa, Swasa etc., 1) It is a special work. Vaksha (Chest) and Deha (General). Ex:- Pratisyaya, Shirashoola, Galaroga, Mukha roga 1) It is a special therapy to treat Kaphaj disorders of shiro Gala nasa, Karna,

2) It is a Pashcyat Karma to Nasya and Gandoosha, to scrape the kapha dosha which is

through mouth is called Dhooma pana, It is very quick and effective treatment for Kapha Taking of medicated smoke either through the mouth or Nose and releasing it

#### Classification:-

According to Charaka - 3 Types they are.

a) Prayogika Or shaman dhooma Pana.

According to Sushrutha: - 5 Types they are b) Virechanika Dhooma Pana c) Snehika Dhooma Pana

3) According to Vagbhata :- 3 types, they are a) Prayogika b) Virechanika c) Snehika d) kasaghna e) Vamaneeya Dhooma pana

a) Snigdha Dhooma Pana (Vata hara)

b) Madyama Dhooma Pana (Vata Kapha haram)

c) Teekshna Dhooma Pana (kapha haram)

a) Shaman b) Virechan c) Brumhan d) kasahara e) Vamak f) Vrana Dhoopana. 4) According to Sarangdhara and Bhavamishra: - 6 types they are

# 1) Prayogika Dhooma Pana - Or Shaman Dhooma Pana.

Kanda which is covered with silk cloth, upto 8" level it should be dried in shade then shara Eladigana dravyas except kusta and Tagaru should parste on 12" length, Shara

kanda should be removed the 8" medicated varthi should use for dhooma pana.

### 2) Snehika Dhooma Pana

varthi should prepared for Dhooma pana. Varthi should prepare with Erenda, devadaru, madooschista sarja ras guugulu

### 3) Virechanika Dhooma Pana:-

Varthi should prepare with shiro Virechana drugs like vidanga and has to use for

### 4) Kasaghna Dhooma Pana.

Guduchi, Karkataka Shrungi.etc drugs. Dhooma Varthi should prepare with Bruhathi, Kantakari, Trikatu, Kasamarda, Hingu,

### 5) Vamaneeya Dhooma Pana :-

and insects Or with Vamaka dravyas. Dhooma Varthi should prepare with snayu, Twak, horns, bones, cried fish, meat

6) Vrana Dhoopana Varthi should prepare with Vrana ropana dravyas.

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Kasa, Swaser, Manyastamba, hanugraha, Kandu, Swarabheda, Galashundi, Upajihwak, Manyastamba, kamaroga, Aruchi, Manyastamba, kamaroga, Kandu, Swarabheda, Galashundi, Upajihwak, Manyastamba, Phalitha, Indraluptha, kshavathu, Tandra, moha, Atinidra an Research iniccough, Galagrah, chaladantha, Mukhapaka, Puthi Vakhratha, Netra shoola, Resa. Swasa, Fuchi, Manyastamba, hanugraha, Kandu, Swarabheda, Galasha, Kanaroga, Kandu, Swarabheda, Galasha, Kanaroga, Kandu, Swarabheda, Galasha, Kanaroga, Kan مهم رمان ... Phalitha, Indraluptha, kshavathu, Tandra, moha, Atinidra etc., Khalithya, Lications of Dhooma Panam :tios of Directives, shirashoola, peenasa, Arthavabhedak, Karnashoola, Netra shoola, Shiro gurutwa, shirashoola, chaladantha, Mukhapaka, Pilihi Valla, Netra shoola,

## Contra Indications of Dhooma Panam :-

billing are not Indicated for dhooma panam, etc., are gosha, murcha, Brama, Trushna, Kshathaksheena, Ruksha gathra, Talusosha, Mukhasosha, bhaya, krodha, daha, the persons who undergone snehanana (L. ... 50sha, Illusosha, Krodha, daha, the persons who undergone snehapana, Vasti, Virechana snot Indicated for dhooma panam. Indiuani Pitta prakopa, Raktha Prakopa, Raktha Pitta, Bala (children), Vrudha (Old), garbini, Prama, Trushna, Kshathaksheena. Ruksha calka Talinani.

#### <sub>Dhooma</sub> Pana Yantra

It is prepared with Gold Silver Copper Bross etc., metals, it is tube like structure to

Snehika <sub>Virec</sub>hanika <sub>Varnak</sub> Kasaghna <sub>For</sub> Prayogika Dhooma which dhooma varthi is attached. The length of Dhooma Pana Yantra is as follows: 24 " 32"

#### <sub>Dhooma</sub> Pana Vidhi :-<sub>Vrana</sub> Dhoopana

mouth only. Though medicated smoke is taken through mouth or nose it should be released through the The patient should be relax without any tensions and should sit for dhooma pana.

Name of Dhooma 1) Prayogika Route of Dhooma Pana Should take through nose

3) Virechanika 2) Snehika Mouth and Nose

5) Vamak 4) Kasaghna Mouth Mouth

6) Vrana Dhoopana The smoke is exposed to Vrana. with dhooma netra.

The smoke is taken 3 to 4 times upto Salivation, lacrimation and Nasal discharge

## Time schedule for Dhooma Pana:-

A) According to charak 8 Times for prayogika dhooma they are

nasya 7) After anjana 8) After sleeping 1) After bath 2) After meals 3) After Vaman 4) After sneeze 5) After tooth brushing 6) After

"9 Times in each time smoke has to take (Slight break should give atter 3 times)."

### b) Sushrutha's Description:-

12 Times - In general for 3 types of dhooma pana they are.

6) After Vaman 7) After sleeping 8) After coitus. 9) After going to tolet 10) After laughing 11) 1) After sneezing 2) After brushing of teeth 3) After Nasya 4) After bath 5) After meals

After Anger 12) After surgery.

c) Vagbhata explained 8 times in general for dhooma pana they are.

8) Unration, Moudu dincorra (Shenika dincorra Pana ) has to give a) After 1) Hungry 2) Yawming 3) Deficatin 4) Coltus 4) Surgery 6) Laugh 7) Brushing of teeth

c) After sleeping Nasya Anjan cem and varrien. Teekshna dhooma has give a) Uhraston-Moudu chootta (Green Basis 11) After Nasya in Madyama dhooma b) above 8 times and 9) at nights 10) After meats 11) After nabasha dhooma has olivo

disease. 4) Sound sleep 5) Normal appetite Samyanyoga Latshalas V. Francisco and houseya niirmalya. 3) Controle of the 1) Lightness in throat Chest and head. 2) Indria and houseya niirmalya. 3) Controle of the Samyaisyoga Lakshanas of Dhooma Pana:-

Heena Yoga of Dhooma Pana:-

head, lazyness, voice problems (hoarsness) and Uncontrolled disease Improper Elimination of Kapha from throat, head, nose, and sinuses; heaviness of

### Aityoga of Dhooma Pana:

ness and loss of sensation. sory nerve damage may cause the problems like deafness - blindness, anosmia, tastelessgeal and languageal mucosa, Bleeding from mouth and nose, vertigo, delirium, debility, sen-Burning sensation in throat, palate, nose, and head; thirst, dryness of oro-pharyn-

#### Complications:-

- 1) Indriopaghatha (Blind, deaf, anosmia, loss of Sensation, speach problems. etc)
- 2) Bleeding disorders 3) Vertigo 4) Delirium
- Raktha and pitta Complications.

#### Uses of Dhooma Panam :-

Vata disorders and Virechanika dhooma controls Kapha disroders Prayogika dhooma reduces Vata & Kapha disorders, snehika dhooma controls

prasadana, and strength to Kesha Smashru and dantha. The uses are Indria shuddi and drudatwa, Vak shuddhi, Mukha Shuddhi, Drusti

Karnaroga, Akshi roga, hanu and Manya roga. Mukhalep, Swarabhed, Mukha srava, Tandra, Nidra, Peenasa, Kshavathu, Shiroroga, The person who takes Dhooma pana regularly get relief from Kasa Swas Arochaka,

### RAKTHA MOKSHANA.

Rakthaharan, Shonitha Mokshan, Asra Visruti Raktha Mokshana, Rakthanirharan, Rakthasravana,

and most Fruitful therapy among all But also causes more comlications if improperly handled. vitiated doshas But Rakthamokshan aimed to eliminate raktha with pitta. It is a very quick added it in panchakarma. The other panchakarma measures are designed to eliminate Charaka and his followers didnot include Raktha mokshan in Pancha karma But sushrutha It is a blood letting process especially mentioned in the Raktha and Pitta dsorders.

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May to Aakasn). Alles of Rektha. AP 1) North Agriculture to agni), 4) Shyandan (mobility due to Vayu), 5) Laghuta (Lightes of Range Haemio smell due to pruthwi), 2) Dravata (Liquidity due to apa), 3)

witiated by doshas it discolours in to other water witiation blackish red. in vata vitigition blackish red. The colour of normal Raktha is compared to the padmaka Laksha and Gunja

imputions of Raktha:the prime cause for all systems to regulate properly. pulle Series (Stimulates the agni). 9) Gives colour complexion to regulate proper the prime cause for all systems to regulate proper pend promotes in and other special senses. 7) Deha sthiratha and dharana (for proper serie senses) jatharagni Preraka (Stimulates the agni). 9) Gioca and charana (for proper series senses) in the senses of the se (Gives strength to dhatu) 5) Nourishes the mamsa dhatu 6) Promotes partion and other special senses. 7) Deha sthirath 1) Jeevana (Life.) 2) Balya (gives strength). 3) Aayushya (longetivity of life). 4)

### Mating Factors of Raktha.

Bakha Mokshan, in Sharat rutu - by above factors Raktha vitiates and causes Rakthaja (s) In take of more oily, rough, Hot, Cool, Spicy, Salt, sour , Itmes 17) Not indulging dissiled materials) 14) Sleeping immediately after meals. 15) In take Viruddhahara Multiha etc., 12) Adyashan (Intake of more bulk Food) 13) Ajeernashan (in take of un Jos Advashan (Intake of France Lill, France Landi, Masha, tila, Madya, Exposure to Sun Stroke). 8) Avashyaya (Exposure to moist). 9) Agni Mandya 10) win (Worm infestation or infection) 6) Shrama (Physical strain) 7) Aatapa Sevana nolyashara vihara). 3) Mental disturbances (mano Klesha) 4) Abhighata (injuries) 5) ||Baling the natural urges (Vagavarodha). 2) By improper food and habits

hakha mokshana is the proper therapy. <sup>™ga, Brama,</sup> murcha, Sanyasa, Kshudraroga and Charmaroga etc., in above diseases <sup>նյղցվե</sup>զ, Shirashoola, Swedan, Shareera dourgandya, shiro roga, indraluptha, Mukha Anchi, Puthinasa, Aasya Dourgandya, Upakusha, Mukha Paka, Asramandala, Pipasa, Ralha netra, Raktha Mutrata, Arsha, Medhra Paka, Pleeha vruddhi, Gulma,Vidradi, Swira, kandu, Kotha, Raktha Pitta, Asrugdhara, Guda Paka, Upajihwak, Rakthatwak, ⊪e-Kusta, Visarpa, Swara kshaya, Pitica, mada, Vyvarnya, Kamala, Vata Raktha, lithe vitiation of Raktha is not treated in time causes Raktha Pradoshaj Vyadhies

#### Contra Indication :-

<sup>7)The Old 8)</sup> Patients of Pandu, Arsha, udara and Kshaya. 1) Sarvanga Shopha 2) Debility 3) Pregnancy 4) Sosha 5) Anaemia 6) Children

Classification of Raktha Mokshan.

1) Shastra Krutha Visravana

(Blood letting with metalic instruments) a) pracchana (incisions) b) Sira Vyadana (Veine Puncutre)

Anushastra Krutha Visravana.

(Blood letting with other than metalic instruments). a) Shrunga (application of Cow's horn for aspiration)

b) Jalauka (application of leeches)

d) Ghati Yantra (Cupping glass application.) c) Alaabu (Application of Alaabu for Cupping)

### Raktha Mokshan Prayog Bheda:-

and strength of the patient. Indication of different types of Raktha Moksham, Based on Dosha Raktha

Alaabu In Kapha Vitiation Raktha and in delicate in twak sthita vitiated In Kapha vitation,In Avagdhatara raktha. in very delicate persons, graditha raktha and in Twak sthita Rakth dosha. In Vata Kapha Vitation (not in pitta vitiation) and

 Sira Vyada InSarvanga Pracchan Raktha dosha and in strong persons Sarvanga Raktha Sarvanga Raktha dosha

Raktha dosha dosha (uttana raktha) Sarvanga and in strong persons Sarvanga Raktha (utthana) Pinditha raktha Sarvang Raktha dosha

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Chikitsa Gulma

Raktha dosha. Pitta vitiation) Twak Sthita Kapha Vata vitiation (not in

> Janukava Charana :-Mar (Leech Therapy).

(Leon name is given for living in water, There are two types 1) Savisha 2) յցիցկեն name is given for living in water, There are two types 1) Savisha 2)

wand body pains etc., المانة العالمة المانة المستورة ال יייין און איייין און פאראראיין איייין און איי איייין איייי איייין איייי 

AllaVISHA JALAUKA ;- 6 types they are. الم الموااه ا الآلالة المستقدم (Shankha Mukhi 4) Mooshika 5) Pundareeka Mukha 6) Saavarika. المالة في Pingala 3) Shankha Mukhi 4) Mooshika 5) Pundareeka Mukha 6) Saavarika. المالة في المالة من المستقدم (Japille 2) Pingala 3) Shankha Mukhi 4) Mooshika 5) Pundareeka Mukha 6) Saavarika.

Male leeches used in severe conditions and female leeches used in mild

phoditions.

ர்) Visarpa 17) Shiro roga. Indications For Jalaukavacharan. (Mb) Tibe 11) Kusta 12) Vata raktha 13) Gala roga 14) Netra roga 15) Visha dametra (M) Wildeli (1) Shiro roga. րջինում բինի 6) Pitta and Raktha Vitations. 7) Avagadha Raktha 8) Gulma 9) Arsha մին The Alch 6) Vata raktha 13) Gala rona 14) Notes pulcative and Weak persons those cannot bear the pain 2) Ladies 3) Children 4) The pulcate and Baktha Vitations. 7) Avanadha Dalata ما المادة عن المادة الم

upper vessel in water with required food items, the water should change once in a Leeches should collect from fresh water in sharath rutu and kept in pot or

purification of Jalauka ;- (Shodhana)

ing measures should be taken. To activate the blood sucking capacity and Locomotion of leeches the follow-

டி, எ2) Application of Haridra and Sarshapa churna to the body for 48 minutes 1) Adding haridra and Sarshapa Churna to the water where the leeches are

such after putting on Gloves and should apply to the affected area of the patient. 3) Again Jalaukas should kept in Kanj and lastly in water The leeches should

शिळवा Oleation (Sneha) and fomentation (the area of leech application should be dry 1) Sneha Sweda Vaman and Virechana should do for body purification.

<sup>©yared</sup> with thin white cloth. beeding surface should create to attract the leeches for proper grip, then it should be 3) Application of Honey, there by a small incision (Pracchana) to the skin

## Observation During Jalauka Vacharana :-

1) Bending of the body and distention of central portion of the body during

1) Bending of the body impure blood without irritative complicatins.)

Raktha mokshana (Leeches suck only impure blood without irritative complicatins.)

1 mokshana (2007) 2) Pulsation on jalauka is visible that indicates it is sucking the impure blood

should sprinkle over the received one for the maagement of the patient and of the leech, two attendants are required one for the maagement of the patient and pure blood so leech should be sometime that immediately the leech separates, after removal should sprinkle over the leech by that immediately the neaded and the neaded should sprinkle over the second are required one for the maagement of the neaded should sprinkle over the second sprinkle 3) If Pain, Irritation is one of the site, for that saindhava lavana churna pure blood so leech should be seperated from the site, for that saindhava lavana churna churna churna churna churna churna churna churna churna 3) If Pain, irritation is experienced at the site that indicate leech is sucking

capacity or it may die. Once used leech cannot be used for 7 days. 4) Leach should individually survey out to theleech tosave from complications like "Inthimada" in which theleech lost blood sucking the survey deach cannot be used for 7 days. Another for themanagment of leech. 4) Leach should handle gently and blood vomiting should be carried out to

ghritha Or madhu lepa, seka, Bandana etc., Should be don according to the necessity. 5) The patient should be treated for bleeding complications at the site, so

#### 2) Sira Vyadana :-

they should be considered as Rakthaja Vyadhies and they should be managed by Sira Certain diseases are not cured by sheeta, ushna, Ruksha, snigda, Chikitsa,

It is indicated in all Raktha pradoshaj vyadhies

#### Contra Indications :-

Pakshaghata, upavasa, Trushna, murcha etc., patients are not indicated for Siravyadan undergone Vaman, Virechan Vasti, impotent, kasa, Swasa, Sosha, jwara. Akshepaka Tired, due To Excercise, sexual inter course, stress and strain. The persons who Children, Old, pregnant Ladies, Timid, sensitive, delicate, debilitative people

### Sira Vyadana Kala: (Time schedule)

too hot Or cool) in emergency at any time sira vyadhana can be conducted with proper there is cool climate, in winter when there is hot climate. (the climate should not be In Rainy Season when there is clear sky without clouds, in Summer when

## Instruments Used For Sira Vyadana.:-

the doctor while doing sira vyada. stambaka dravyas, Alabu, shrunga, Shalakas for Agni karma should kept ready with rials are cotton, thread, bandage material, Saindhava lavana, jathyadi ghritha etc. Raktha 1) Kutharica Shastra 2) Vreehi mukha Shastra 3) Trikurcha 4) the other needed mate-

> вогиа Кагта: diet has to give on the day. Karma. Bahya and Abhyantara sneha Sweda has to do (Sarvanga Shodhana), Liquid Bahya and to give on the day.

<sub>madhana</sub> Karma :pay careful about the complications. yodana III ranks to be punctured, while puncturing the vein the doctor should be the complications. Philipue, "Final exposed part (where tissue is more.) if proper sira is not identified wast sira has to be punctured, while puncturing the wain the religious to the puncturing the wain the religious to the puncturing the wain the religious to the puncturing the religious to the religiou The Dell' Yava pramana Vyadana in well exposed parts and 1 Yava pramana on well exposed parts and 1 Yava pramana pramana pramana wartial exposed part (where tissue is more.) if proper view. phopoling the skin on the lesion should be incised and vessels should be exposed, then the phopoling the skin on the lesion should be incised and vessels should be exposed, then the phopoling the phopoling the skin of view in the short with the s and spin silving the vessels should be pressed and exposed properly, with kutharika spin on the lesion should be incised and vessels and vessels and vessels are incised and vessels and vessels are incised and vessels and vessels are incised and vessels The help of vreehi mukha shastra veinepuncture has todo with perfect care and help of yava pramana Vyadana in well exposed nario and in the help of yava pramana vadana The Purposition Or in lying position by depending upon the site of the disease. and Karing Is asked to be relax for the therapy, Sira Vyadana is carried out The patient of in lying position by depending upon the city.

apelite and sound sleep. phs like-pain. 4) Control of the disease. 5) Physical and mental peace.6) Normal peace sound sleep. of Adequate Sira Vyadana:-1) Bleeding has to stop it self. 2) Lightness of the body. 3) Remission of symp-

## Features of Inadequate Sira Vyadana :-

sensation 6) hyperaemia of the site. [8] Inflammation 3) Agravation of Symptoms 4) Burning Sensation 5) Itching

## Features of Excessive Sira Vyadana:-

Unconscious (Murcha) 17) Death. ad and refractive errors (Timira) 12) Emaciation of body (dhathu kshaya) 13) Mono Inaemia (Pandu) 9) Convulsions (Akshepaka) 10) Glaucoma (Adhimantha) 11) Catapkgia (ekanga Vata) 14) Paralysis (Pakshaghath) 15) Delirium (Mano Vibraman 16) #Burning Sensation(Daha) 5) Hiccough 6) Dyspncea (Swasa) 7) Cough(Kasa) 8) 1) Head ache (Shira Shoola) 2) Thirst (Trushna) 3) Loss of vision (Andhathwa)

## Management of Inadequate Sira Vyadana ;-

Chitraka, Vidanga, Trikatu, ghruha dhooma, Arka, karanja etc., vishyanda Kara dravya to allow bleeding Ex:- ela, Karpoora, Kusta, Tagaru, Devadaru, The veinepucture area should be rubbed with the powders of ushna veerya,

## Management of In Excessive Sira Vyadana:-

<sup>Degiven</sup> to compensate the blood loss. Mynikarma, cauterisation), In addition to above methods oral remedies should also hebleeding 3) Pachanam (medical cautery, by dusting Kshara bhasma etc.) 4) Dahanam suluring etc) 2) Skandana (By sprinking the powders of sheeta veerya dravya to arrest The bleeding should control by 1) Sandhana (adjoining the edges of ulcer by

Note:- Maximum 1 prasta bloodshould remove by Siravyada day (Weekly once for 3 to 4 times).

_		
List of Avedue Single	1) Patient should consume light, easily digestable, haematenic diet, patient should avoid intake of excess cold Or hot items, anger, coitus, day strollow for a month.	
ic legimen shows	train. 3) The diet day ste	that to not in

List of Avedya Sira. (Veins rejected for Veinepuncture). 2) Patient should avoid illians or consider the strain ing, incompatible diet, Excessive work, stress and strain. 3) The diet regimen should

1) / :	ran	follows :-	7
No. of Vertica Co.	No. of Siras	ollows:	Total vaince 700 amazza ii

			4) Dorsum 5) Abdomor	2) Pelvic region 32 3) Flanks	1) Limbs
	56 (Sushrutha), 24 (Vagbhata)	40	24		400
	16				
	14 Matruka	44	4.	8 16	2
Manya	<b>&amp;</b>			53	No. of Vedya Siras.

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Vidura Krukatika Neela

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16 Vagbhata 36 Sushrutha, 16

10) Nose

24 Sushrutha

9) Tongue 8) Jaws

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	Aupanasika Talu
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	Gandha Sevani Talu	
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24 Vagbhata

Pracchana :- It is metalic		3) Temporal 4) Cranium			11) Ear 12) Eyes
cchana:- It is metalic instrumental blood I		10 Sushrutha, 16 Vagbhata 12		53 Vagbhata	10 Sushrutha, 16 Vagbhata 38 (Sushrutha)
	ω	N	ವ		ωΝ
1 &	Uthkshepa 2 Seemantha 5 Adipathi 1	13 Sankha Sandhi	Above - Nimesha Kriya 2 Unmesha Kriya 2	Aavartha 2 Stapani 1	Shabda Vahini 2 Apanga Keshanthak

Mokshan) It is indicated to remove pinditha suptha raktha in twak (Accumulated imonyms, itis a special therapy aswellas poorva Karma to other therapies (of Raktha strumental blood letting process, shastrapada, pada are syn-

proximal part of thelesion should be tied to arrest theblood flow for proper elimination of lel, very close, imaginary incisions should be done quickly in prathiloma direction, the This process resembles Lekhana Karma in which the superficial strait, paral-

4) Shrungavacharana :-The incisions should not do at Marma sandhi asti and snayu.

impure blood by creating vaccum in thehorn, it is meant to treat the Vataj, Raktha It is nonmetalic blood letting process in which 7 "cow horn is used to suck the

<sup>andcollects</sup> in the horm by negative pressure the lesion without air leakage, then vaccum should be created in the cavity of horm After performing poorva karm and precchana, the base of thom should fix to

Alabu removes vitiated Hakula Living.

Madhura Or Tiktha, but Tiktha alabu is only indicated for Raktha mokshana in thekapha principle of cupping (Like Silvings), Principle of cupping (Like Silvings), Principle of cupping (Like Silvings), Principle of Principl יי עני. It is non metalic blood letting process in which Raktha harana is done on the יייי. מארייות אייים ווייים לאיים ווייים וויים וו

Alabu shoulu be volunce. Alabu shoulu be fixed to thewound by creating vaccum in thealabu, karma and pracchana alabu should be fixed to thewound by creating vaccum in thealabu, karma and pracchana alabu should be fixed to thewound by creating vaccum in thealabu, Alabu should be collected, dried, central part should be cleaned, after poorva

#### Ghatee Yantra :-

used it in Gulma vyadhi to separate gulma From the root. The Principle and method of application is as like alabu but charaka especially root.

#### NASYA KARMA

Note: - It is the last step in pancha Karma Therapy. i.e., - Nasya Karma is having not only local but also systemic effects. systemic disorders like Vata Vyadhi - Unmada, Apasmara, Moorcha, Kesha Vikara ment of the diseases of Shalakya tantra (E.N.T. - Eye - and dental disease) and other Nasya Karma is an important therapy among panchakarma, for the manage.

#### Defination of Nasya:-

through thenose, either in the form of powder, liquid, oil or smoke. So only it is known it is a special and important therapy in which the medicine is administered

treat the diseases So only it is having utmost importance in the management of Nasya karma is the process in which the drug is administered through the nose to Importance of Nasya Karma:-Nose is the only gate way of head to eliminate the doshas from the head

disases of Shalakya tantra and also in other systemic dosriders. Like Vata Vyadhi

#### Synomyms of Nasya :-

1) Nasya 2) Shrio Virechana 3) Moordha Virechan 4) Shiro Vireka 5) Pracchardha.

## List of different Words used For Nasya :-

nasya 11) Dhooma Nasya 12) Snehana Nasya 13) Shodhana Nasya 14) Stambana Nasya 15) Prayogika Dhooma Nasya 16) Virechanika Dhoom Nasya Nasya 7) Dmapana Nasya 8) Avapeedana Nasya 9) Marsha Nasya 10) Pratimarsha 1) Nasya 2) Navana 3) Nasta 4) Shiro Virchana nasya 5) Shiro Vireka 6) Pradamana

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Raktha Nasya 30) Ksheera Nasya etc., Nasya etc., (1) 2(1) 5 (1) Choorna Nasya 26) Swarsa Nasya 27) Kashaya Prabhooak Nasya 24) Nasya 27) Kashaya nasya 28) Sneha nasya 28) Sheha nasya 28) Sheha nasya 28) Sneha 19 Shamana Nasya 22) Karshana Nasya 23) Sanghya Prabhooak Nasya 24) (1) Shamana Nasya 25) Swarsa Nasya 27) Sanghya Prabhooak Nasya 24) (1) Shamana Nasya 26) Swarsa Nasya 27) Kashava naswa 24) (1) Shamana Nasya 28) Ksheera Nasya 27) Kashava naswa 28) חומים אמצעם או Brumhana nasya פוף אונים א

porphises a variety of procedures with slight difference in the therapy, those are grouped It is a type of samshodhana Karma administered through the Nasal passage. it

## CLASSIFICATION OF NASYA:

as follows. DBY CHARAKA :-1) Navana a) 5 types b) 3 types

(C.S. Si-9-89 to 92)

2) Avapeedana Stambana Nasya Shodhana Nasya Shodhana Nasya Snehana Nasya

3) Dmapana Nsya 4) Dhooma Nasya Prayogika Dhooma Nasya Virechanika Dhooma Nasya

5) Pratimarsha Nasya Snehan Nasya Rechan Nasya. Snehika Dhooma Nasya,

1) - Rechana Nasya 2) Tarpana Nasya 3) Shamana Nasya

By Sushrutha:a) 2 Types

b) 5 Types

(S.S.Ci. 40-21)

4) - Ava Peedan Nasya 5) - Pradamana Nasya. 1- Shiro Virechana Nasya 2) Snehan Nasya 1) - Nasya 2) - Shiro Virechana Nasya 3) - Pratimarsha Nasya

بع ح

≡ By Vagbhata :-

3 Types (AH. SU. 20-2)

1) - Virechana Nasya 2) - Brumhana Nasya 3) - Shamana Nasya.

3

2 Types

By Kashyap :-1) - Brumhana Nasya (Poorana Nasya ) 2) - Karshana Nasya (Shodak) (Ka.Si.AS, 2,40)

5 By Sarangdhar :-

2 Types

(Sh. U. 8-2 11,24.)

2) - Snehan Nasya Or Brumhannasya. a) Marsha b) Pratimarsha. 1) - RechanNasya Or Karshan . a) Avapeedan b) Pradamana.

By Bhoja :-

€

By Videha

≦

2 types

1) Prayogika Nasya 2) Snehika Nasya

1) Sanghya prabhodaka nasya 2) Stambak nasya 2 Types S.S. Cl. 40-44

VIII) Charaka Also Mentioned:-7 Types of Nasya based on the parts used they are

Indications of Nasya:

loglions of Stiff head ) 2) Manya stamba (Stiff neck) 3) Dantha Shoola (toothache) (1) Stimb (toothache) (1) Shinda (toothache) (1) Shinda (toothache) (1) Shinda (toothache) (1) Shinda (toothache)

: 1) Phala Nasya 2) Patra nasya 3) Moola nasya 4) Kanda Nasya 5) Puspa nasya 6)

IX) Drugs Can be used for Nasya in the Following Forms :-

j) Tail Nasya k) Ghritha Nasya I) Madya Nasya m) Raktha Nasya etc., Nasya f) Saara Nasya g) Udaka Nasya h) Dhooma Nasya i) Mamsarasa Nasya Nasya f) Saara Nasya g) Udaka Nasya h) Dhooma Nasya i) Mamsarasa Nasya A) Drugs can be used in the last of the la

### DRUGS USED FOR NASYA

#### According to Chark :-

ativisha, Lodhra Madanphala, Sapthaparna, Nimba, Devadaru, Agaru, Sarela, Hingu, Kusta, nagadanthi, Vacha, Bhargee, Gavakshea, Awakpushpee, Vruchcnikali, Brahmes, Sumukha, Gandeeraka, Kalmalaka, Parnasa, ghrungver, Mulak, Tarkari, Arka, Alerka, Jyothishmathi, Shunthi, Gandeera, shallaki, Tejovathi, Ingudi, Dalcini, Varthaki, Ela, Shireesha, Lashun, Haridra, Daruharidra, Sauvarchalavana, SaindhavaLavan, Shireesha, Lashun, Haridra, Daruharidra, Sauvarchalavana, SaindhavaLavan, Ajamoda, Pilu, harenuka, Pruthweeka, Surasa, Swetha, Kutheruka, Phaninjaka, Apamarga, Pippali, Maricha Vidanga, Shigru, Sarshapa, Tumburu, Jeerak,

Matulunga, Murangee, Pily, jathi, Sala Tada, madhuka, Laksha, Hingu, Lavana, Madya, Atisa, Shunti, Talisapatra, Tamala patra, Surasa, Arjaka, Indgudi Medha, Shrungi, Bimbi, Sweta parajitha, Kinihi, Vacha, Jyothishmati, Karanja, Arka, Alarka, Lashuna, Pippali, Vidanga, Apamarga, Shigru, Sarshapa, Shirisha, Maricha, Kareera,

#### 3) Vagbhata :-

Saindhavalavana, Daruharidraghana. Ela, Bruhat Ela, Hingu. Vidanga, Apamarga, Trikatu, Daruharidra,Ral, Shireesa, Bruhati, Maukasara,

# Common Drugs Used for Nasya:- Suggested by Kasthure.

#### Churnas

Ghritha etc., Padmakadi Taila, Tailas Anutaila, Maricha Churna Vidanga Churna Swasakuthara, Katphala Churna, Panchaguna Tail, Shatbindu Tail Vata Vidwamsini Trikatu Churna Vachadi Tail Jatyadi Taila Pippali Churna Katu Tumbee Churna

> وروباد المرابع (alteration of Voice) 34) dantha Stamba (Rigidity of teath). هر المرابع (Stamba) (Rigidity of teath). (geth Sell) 31) Vaak grah (Aphonia) 31) Gadga (Stammering 32) Amsa shoola (Shoulder, 23) Krathana (alteration of Voice) 34) dantha Stamba (2) Amsa shoola (Shoulder, 23) Krathana (alteration of Voice) 34) dantha Stamba (2) (Pair University of Pair Indian In the 1998) Phira shoola (Headache) 21) Arditavata (Facial Paralysis) 22) Apatanak (Vata Vyadhi) 24) Gala Ganda (Gnitra) 22) Apatantrek (Wadhi) 23) Apatanak (Vata Vyadhi) 24) Gala Ganda (Gnitra) 25) (Pair diseases) 18) Nasa shoola (Pain in the nose) 19) Akshi Shoola. ກາງທາງພະງ ກ່ວງໄລ (Body pains) 16) Mukha roga (Oropharyngeal disease of Shoulder) ທ່າງທາງສະກາດວ່າ (Pain in the nose) 19) Akshi charia (ກາງປະຊາ diseases) 17) Karna 1/μαπυβίτα: Δυναμίτις) 8) Shukra (Corneal opacities and ulcer) 9) Timira (Dimvision 10) 1/μαπυβίτα: Δυναμίτας (Dimvision 10) 1/μαπυβίτας (Eyelid disorders) 11) Vyanga (Pigmentation of face) 10) 11.

### CONTRA INDICATIONS OF NASYA

	15. weakness if Present 16. After Exercise if debility Present 17. Acute Fever (grieved) 18. Ct. 18.		9. Thirsty " 10. Tierd " 11. Made (Semi Consciousness) "	7. After head (Shira Snana) I "	After Madya Pana After jala Pana Mhen Desire to drink water  ""	InIndigestion 2 After Sneha Pana "	After meals if nasya is given leads	Contra Indicated Condition
Timira - fever Increases. Vata Vitition-Indriyaabhighata Kapha Vitiation, Gurutwa, Kandu, Krimi roga.	Pain in Shira netra vaksha Shakha (Limbs)	Samgya nash. Severe Pain.	Vata Vitiation. Mukha sosha. Pain Increases.	Pratishyaya, netra Srava, Gala Srava, karna Shoola, Shira Kampa. Vata Vikar.	Causes Netra Srava, Gala Srava, Avila netra, Timira and shiroroga.	etc., Kapha Vikara -do-	Kasa, Swasa Pratichus	Complications due to administration.

26. 27. 28. 23. 24. Vegavaroda Raktha Pitta Kasa Swasa Vruddha (Old People) Bala (Children) Apatarpitha (Weak Personality) " Nava PrathiShyaya For suthika (just delivere For Pregnant Lady Dhathu kshaya develops. Kahaya). Cause debility(dhathu Diseeses become more Complicated. Pratishyaya Agrevates. Dhathu Kshaya. Garbha Vikruthi

Ex:- Sangya Prabhodak nasya in Morrcha etc., Note :- Specific Nasya can be given in above contra indications

#### 1) Naavana Nasya :-

Shiro Virechan Nasya so only. It can be mainly classified in to 2 types a)Snehan the help of cotton (Pichu) Or Ink Piller. It is equivalent to Sushrutas Snehan Nasya and more beneficial, it is a procession which the medicated Oil is droped in to nose with It is oneof themost improtant Nasya which can be easily administrable and

c) Dalhana

2) Stamban - in Raktha pitta.

1) Sangya prabhodan - in murcha, Visha roga, Apasmar, moha etc.,

## a) Indications of Snehana Navana Nasya :-

roga 14) Arditha vata 15) Vatahatha Varthma 16) Darunaka. Apabahuka 11) Akala Valee phalitha. 12) Nera Varthma roga 13) Vata Pittaja mukha Karna kshweda 6) Timira, 7) Swedopa ghatha 8) Nasa Roga, 9) Mukha sosha 10) 1) Vataja ShiroRoga 2) Dantha Paatha 3) Keshapaatha 4) Karna shoola 5)

Dosage :- Heena Matra (minimum dose) 8-8 drops in each nostril madyama Matra Uttema Matra (perfect dose). 32-32 drops.

## b) Indication of Shodhana Navana Nasya :-

Pratishyaya 14) Apasmar 15) Gandhagyannash. Aruchi 8) Shiro gurutwa 9) Shira Shoola 10) Peenas 11) Arthava bhedak 12) Krumi 13) 1) Kapha Rogas 2) Talu roga 3) Gala roga 4) Shiro roga 5) Nasa roga 6) Mukha roga 7)

Dosage :-Minimum dose Modern dose 6-6 4-4 drops in each nostril

Note ;- (It should be given before meals and in day time). Time Shedule :-Pitta roga Vata Roga Kapha Roga Perfect dose After noon (madyahna) Fore noon (Poorvahan)

Evening (Aparahna)

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Avapeedan Nasya: " Incompage is called Avapeedan Nasya. It is of two types. gusonal Time Schedule For healthy People. 2) Stambana 3) Shaman Chakrapani. 1) Shodana 2) Stambana (Raktha Stambana). 1) Shodhana (Rechan) <sub>Varsha</sub> rutu Sharat, Vansat rutu Sheeta rutu <sub>Grees</sub>hma Rutu needan Medicated drops extracted from Aushada Kalka (Paste of Medicine) and is For controlling Vitiated doshas Raktha Stambana. kapha rechan. Aparahna (Evening) Poorvahna (Morning) Non Cloudy day nasya has to do madyahna (Noon)

(in debilitated persons).

Siree 15) Bala 16) Vruddha Indications :-(14) (14) Mano roga 12) Karshya 13) Bheeru. 14) Mano roga 12) Karshya 13) Bheeru. 14) (Vishaabhighatha 2) Sanyasa 3) Moorcha 4) Moha 5) Apasmara 6) Apatantrak 7) Madyama Matra Heena matra 6-6 Drops. 4-4 Drops.

## 3) Dmapana Or Pradhamana Nasya :-

Utthama Matra

8-8 Drops.

helop of 6 "Lengthy tube Or inhaling the medicated powder sachet (2 Tola fine powder Dose :- 3 mucchuti. It is shodhana nasya in which medicated powder is blowed in the nose with the

2) Krumija Shira shoola 3) Poisonous cases. Indication :- 1) Mental diseases (unmada, apasmara)

#### Dhooma Nasya :-

ing to Vagbhata.). lorsnehika dhooma Nasya 32 angula. (For prayogika dhooma netra 40 angula accord-In prayogika dhoom Nasya 36 Angula, for Virechanika dhooma nasya 24 angula and lease through nose by that eye complications may arise, the lenght of Nasya netra disorders) 3) Snehika dhooma Nasya (in Vataj disroders). inhaled smoke should not <sup>0</sup> Shaman dhooma Nasya (in Vata kapha disorders) 2) Viirechanika dhooma (in Kapha) of Masya netra by closing the other nostril. It is of 3 types 1) Prayogika dhooma nasya Inhaling Or taking themedicated smoke Or Vapour through nose with the help

**Dose:-** 9 Times the smoke or Vapour should take by giving small break after 3 times

After Excercise

4. The debility. Or tiredness

6. -do-5. -dois removed.

Agaru, Lodra, Sarjaras, Musta, Pancha Valkal Bark etc., 1) Drugs For Prayogika Dhooma Nasya:
Harenu, Priangu, Kesar, Chandan, ela, usheera, padmaka, jata
Harenu, Priangu, Kesar, Chandan, ela, usheera, padmaka, jata

2) For Snehika Dhooma Nasya :-

Vasa, Ghritha, Maducchista and jeevaneeya gana.

3) For Viirechanika Dhooma Nasya :-

Swetha aparajitha, malkangini, harital, manashila, Agaru, etc

5) Marsha nasya - Prathimarsha nasya :-

there is dosage and following differences present in between them. Medicated Oil is droped in to nostrils in marsha and pratima

# COMPARATIVE STUDY OF MARSHA PRATIMARSHA N.

I	9.	8 7 6 0	ω 4.1		
	Preventive aswellas curative therapy Indicated in less vitiated diseases, cannot control the more severe disroders.	No Complications Slow Action Lesspotent Easy administration	3	SI. No Prati Marsha nasya  1. Never Produce Dosha vitiation  2. Dose 2 drops Bid	
	nose. Only curative therapy. Control high vitiated diseases.	5) Consists of More Sneha dravyas. 5) Complications may arise. Quick action. More Potent Helper needed to put the	utthama) 3) Age and Seasional restrictions present.	Marsha Nasya  1) May produce dosha Vititation. 2) Dose 6 to 10 drops (6 heena. 8 marting.)	

Indications of Pratimarsha Nasya :-Note:- Pratimarsha nasya can be droped with droper or by dipping the finge upto 2 inches level.

ω	1,0	:	
While going out side from house	After brushing of teeth	Early Morning	Indication
mouth becomes strengthy, and 3. Prevents dust and smoke allergy.	accumulated at night is reduced.	1. Kanha Dock	Benifit

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	Air Is removed.
<sup>Dreak</sup> after 3 times	After coitus After coitus After coitus After coitus After coitus After coitus
	grah
<sup>Ita</sup> mamsi, Gugguli,	
į	
	g in day time
tc,,	After Steephing controlled and promotes mental Peace.
arsha nasya b <sub>ut</sub>	In the evening
NASYA:	
Wititation.	Nasya Vidhi:- Before instilling the drops into nose the doctor has to concentrate on
estricitions	1. Age of the Patient. a) Indication 8 to 80 Years. b) Dhooma Nasya 12 to 80 Years. c) Pratimorch
eha dravvas	nasya for all age groups.
rise.	Season (Kala) Nasya in indicated in pravrut rutu, sharath and vasantha. a) In greeshma rutu Before Noon. b) In sheeta rutu Noon. c) Varsha rutu Non Cloudy day. Nasya has to give
	3. Strength of the patient. a) For average strength patient - madyama matra, b) Perfect strength patient utthama matra, c) Less than average strength patient Heena matra drug should be given.
er in theOil	4 Strength of the disease. It is important to prepare themedicine whether mrudu vereya Or Madhyama Or Teekshna Vereya depends uopn thestrength of the disease
	5. Type of the nasya:- Different types of Nasya are explained, among those, the doctor has to decide what should be suitable.
reduced. and	6. After fixation of type of nasya and its dose, the doctor has to concentrate on materials needed for the therapy. a. Nasya Rhayagan
allergy.	It is a special room which should free from direct blow of air and dust, it should be perfect with all requirements needed for Nasya.

should be perfect with all requirements needed for Nasya.

and paschyat Karma should be collected. (The bed should be authority or proper medication) .c. Nasya Aushadhies:- The medicines needed for poorva pradhana proper medication. For sitting as well as young rear.

(The bed should be adjusting type to raise the foot part or to down the head part, for b) Nasya Asana:

For sitting as well as lying purpose chair and Bed are needed for giving Nasya.

keep for blowing medicated powder into the nose. retias silving איניים איניים איניים (איניים איניים ווישנים איניים איניים ווישנים איניים איני d) Nasya Yantra :-For 1) navanaNasya - Marsha Nasya and Pratimarsha Nasya-

tion of Nasya should be procured to achieve good result. pana(for paschyat Karma) and other minor accessories needed for proper administramedicines to control the complications, material for Kavala, Gandoosha, dhooma Besides above material efficient assistants, spittoons pots, dressing material,

# DOSAGE OF DRUG IN DIFFERENT TYPES OF NASYA

2 1.	SI N
Navana Shaman Nasya Navan Shodhana Nasya	SI. No. Name of Nasya
8-8 drops in each nostril  4-4 drops in each nostri	Heena Matra
	D.
32 -32 drops. 8-8 drops.	madhyam Matra utthama matra
	na 8-8 drops in 16-16 drops ian Nasya each nostril.  4-4 drops 6-6 drops. ana Nasya in each nostril

and warm water is given for drinking, bath etc. the solas - finally Lukewarm water gargling is given to clean themouth. 5) Light diet, and Kavala Gandoosh and Dhooma Pana, to clear the Kapha dosha from throat and ath 4) After Nasya Karma Patient should wait for 100 matra Kala then he is treated plions and Nasal discharge in the other pots and lacrimation should clean with clean, Pashchyat Karma:-Ryllon, shoulder, hands and legs. 3) If. salivation occurs, patient is asked tospit it is National Section of the Control of t

#### 6) Avoiding :-

anger, sleep, travelling and usage of oils Cold water, exposure to dust smoke and heat, head bath, intake of alcohol.

### reatures of Adequate Nasya:-

Indria prasannata). 5) Mental happiness. 6) Control of the disease Lightness of body. 2) Sound sleep. 3) Lightness in the head 4) Sensorial Hap-

### Features of Inadequate Nasya:-

resile secretion from Nose, mouth and eyes. 5) Mental and sensorial disturubances Illeavyness of head and body. 2) itching sensation. 3) Uncontrolled disase. 4) ex

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# <sub>DOSAGE OF</sub> NASYA ACCORDING TO SARANGA DHARA .

1 Yava (1/2 Rati) 1 Shana (24 Rati ) Powder, 8 drops Liquids.

<sub>Teek</sub>hshna Aushadi 1 Masha (6 Rati)

saindhava Lavan 8 shana 64 drops.

water (medicated)

moss the eyes should be covered with cloth. will the patient is warned not to talk, angry Or laugh. 12) During the medicine the patient is warned not to talk, angry Or laugh. 12) During the wild not be to cool or hot, should not instil either qucik Or delayed. 11) While dropwill swallow the medicine but should squeeze inside. 10) While instilling the drug it whether has to instil in one nostril by raising the tip of the nose, and the will be the same time another nostril has to close and the same time another nostril has to close and the same time another nostril has to close and the same time another nostril has to close and the same time another nostril has to close and the same time another nostril has to close and the same time another nostril has to close and the same time another nostril has to close and the same time another nostril has to close and the same time another nostril has to close and the same time another nostril has to close and the same time another nostril has to close and the same time another nostril has to close and the same time another nostril has to close and the same time another nostril has to close and the same time another nostril has to close and the same time another nostril has to close and the same time another nostril has to close and the same time another nostril has to close and the same time another nostril has the same time and th wild the nasal cavity 9) With the help of Dhooma Nasya netra or dropper or karpasa when the hast of instill in one nostril by raising the time of the second control of the seco and at the same time another nostril has to close, and the patient should beinstructed and the patient should beinstructed Private in the second frontal region. 8) patient should lie down on Nasya shayga by the head down wards than the normal level by raising the inches. with the head down wards than the normal level by raising the chin upwards to will have carel cavity 9) With the help of Dhooma Nasva notice. יייטם אווייילה, Nose, neck and throat to liquify the doshas. 7) Gentle massage on pland, mouth, lead, region. 8) patient should lie אייייים (ומף של השפלה). אונים and frontal region. 8) patient should lie אייייים ביייי A) Dhooma Pana- to clear the kapha from mouth, nose and throat.5) Shiro with Dhanvatari tail, Kseerabala tail etc. 6) Mrudu Swada (T-----ייי פאפוייי חasya has to give. 2) Vega Nivruthi (mala - Mutra etc.) 3) Meals has he shows to give. 2) Vega Nivruthi (mala - Mutra etc.) 3) Meals has איין אואר האססחה. Pana- to clear the kapha from mouth איין אואר האססחה. nation of Patient For Nasya Vidhi. palion unit contra indicated, if needed 3 days sneha has to give, 4th day sneha has to give. 2) Vega Nivruthi (mala Maria)

Features of Excessive Nesya >

1) Head abhe. 2) ueimmin y c Note - Nasya is given daily of alternate day for 7 days (Vagonata), 21 days Or upto 1) Head able. (a) Delirum S) Agravation of disease 4) Glodiness.

diseases. 4) Headiny non-cytesses 3) Pleasent oral small 10), Rasayana, 17, 170, 4) Importes sonses. 3) Pleasent oral small 10), Rasayana, 11), Prayayana 1) Prevention of eye dissess. —.

dissess. 4) Heathy hair. 5) Provides strength to scalp 6) provides happines. 7) Nasal dissesses. 4) Heathy hair. 5) Provides strength to scalp 6) provides happines. 7) Im-Adentages of Adequate www.-.

7) Prevention of eye disease. 2) Prevention of ear diseases. 3 prevention of Nasal

## NASYA YOGAS INDIFFERENT DISEASES

a) Nesa Rogas

() a) In Vataj prastishyaya :- Rohishadi yoga pradamaenNasya,

in Pitaja Pratishyaya :-

w rindu recession. Patha, harbha, Daruharbha, moorwa, pippali, lathipallava, danthi, tila talla (pakwa

In kapitaj Pratishaya :-

Laksha, Vaora, widanga, Kusta, Pippali, Karanja, and Sarshapa talla - Palwa talla a) Brarangyadi talia Masya (Bharangi, Madanphale, Terkeri, Tulasi, Gomuta

Vishunkarantha, Mudgaparni, Rasna, Punameva, Tilla talla, (pakwa Talla) Nasyam,) Gomba-nasyam d) Baladi talia Masyam (Bala, Atibala, Bruhati, Vidanga, Kantakan, Vidanga, hingu, gugulu, Kabu diranya. o) Trikatu, Salindhavalavana, Kutaja, jeeraka, B) Manahshiladi Chuma Pradaman nasya (Manahshila, Vacha, Trikati,

4) In Serci Pathaja Pratishyaya :-

a) Reserjaradi talam for Nesyam.

5) in Rakthaja Pratishyaya :-(Rasarjara Atvisha, Musta, Bhadradaru, talla).

a) Vidangadi Nasya b) Gomutra + gorochana Nasya

Sanshapa talia (Pakwa Talia nasya). sarchaça, Vicanga, Karanjabesja, Avapcedan nasya. b) Above drugs+ Gomutra a) Hingu Tokatu, kutaja, shivati, (Truna), Laksha, Tulasi, Katiphala, vacha, Kusta,

7) in Nasa Raktha Srava ;-

e) Yastimadu Giritha Nasya. f) Jathyadi taila nasya. g) padmakadi Taila Nasya. swarasa Or vasa swarasa Or Babbula Patra Swarasa nasyam.d) Priyala Taila nasya. kseera Or doorna swarasa Or Dadima Pushapa rasam Or Yavasa Moola andLashuna Semenge, Dhateki, Mocha rase, Lodra - Nasya .c) Draksha swarasa Or Ikshurasa Or a) Neela kamala, Gyrika, chandan, shankha, Sharkara jala- Nasyam.b) Amrasti,

> و) Rasanjan nasya 3) Trikatu, Shigrubeeja, Vidanga, Pradaman Nasya.

a) Bala Taila Nasyam, b) Shatbindu taila Nasya.

I NEED TO THE CASE TO

ال عربية عند عند المعاملة ( Ksheerisarpi Nasya b) Anutaila Nasya المعاملة عند عند عند المعاملة المعام

prepared oil is used for nasya.

Nadi - ksheeri Vruksha talla Nasya. ا المجالة المجالة والمجالة المجالة ال Pakwa TalleO nas)'a.

Shiro Rogas :-Single - Tailam for Nasyam, d) Varunadi Ghritam for nasyam, e) Ashwagandhadi Manasia f) Shatbindu taila nasyam,g) Baladi ohriba for Nasyam. हरूँ Western Shatbindu talle nesyem.g) Beledi ghrithe for Nesye. յին Mayuradya ghritha Or maha mayuradya ghritha. c) Bala Madhuka թերի շիտերմ chandana uthohala Jeevaka Rushahhaն ռ—ւ-ւ----

小院的 Shiro Roga :-

मुद्र Sharkara Tandulodak - Avappedan Nasya. Spiem. e) Kumkum Pushpa (Kesare) Sharkara ghritha for Nasya. f) Twak. jamina (pakwa) - for Nasya. c) Yastimadu Ksheera sarpi for Nasya. d) Ksheera ्राराज्य (Ass)am b) Yastimadu Chandana sanva sharkara milk Draksha, Madhuka

ул Ксішіја Shiro Roga.

ஊ் என்னம் for Avapeedan Nasya. d) Nasyam with blood (shonitham). e) Teekshna اதளாள் Vidanga apamarga maricha etc., drugs grinded in Aja mutra etc., ரகுஊ. b) Above compound as powder for pradaman nasya. c) Shigrubeeja Karanja smarte, Bilva, haridra hingu, Phainjak, Apamarga, Yoothika, mutra, Taila (Pakwa) Just. Danthi, Wagohranaki, Vidanga, Nava mallika, Sarshapa, Karanja, Shireesha,

( Sphaj Shir Shoola :-

हिमार्ग + Ksheera nasya b) Teekshna Nasya with Katphala chuma Or Trikatu Chuma

a) Aparajitha moola Or phala swarasa Nasya.

b) Gudadi Nasya :-

Guda, shunti, pipplai, saindhava lavan- ushnajala - Nasya is Shiro, Karna,

c) Narayan Taial, Anutaila, Mashadi Taila etc.,

(Shaman Nasya). bramhan taila used for Nasya in shiro rogas to give nourishment

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6) In Surya Vartha & Anantha Vata.

aparajitha moola swarasa Nasya o) Gunja Moola Swarasa Nasya. churna () Trikatu g) Cnakra יייים ון Milk-Ghee nasya () Kesara fry in ghee with Sharkara nasya has to give, k) Tulasi belja האמים אוא איייים איייים אוא איייים אוא איייים אוא איייים איייים איייים איייים איייים איייים אוא איייים איייים אוא איייים איייים איייים אוא איייים אייים איייים איייים איייים איייים אייים איייים איייים אייים אייים אייים אייים אייים איייים איייים אייים אייים אייים אייים אייים אייים איייים אייים איייים אייים אייים אייים אייים אייים איייים איייים אייים אייים איייים איייים איייים איייים איייים אייייים איייייים אייייים איייים איייים אייייים אייייים אייייים אייייים a) Nasya with Apamarya مراكة المراكة على المعاملة على المعاملة المعاملة المعاملة على المعاملة المعامل urya Vartha & Anantna المحتودة والمحتودة المحتودة المحتو

#### 7) Arthavabheda :-

f) Madhu + Chanusin Neprocess, Bidalavan, Avapeedan Nasya. i) Mruthika (From shirosha Booja, apamarga moola, Bidalavan, Avapeedan Nasya. i) Mruthika (From Shirosha Pradaman nasya j) Madhu + Talla Nasya k) Santa moola and phala Avapeedan Nasya. g) Madhu + Manashila Avapeedan Nasya. f) Madhu + ChandanAvapeedan Nasya. b) Madhu + ChandanAvapeedan Nasya. h) Mr.itkii... ' Yasilmadu Yava, snouru y......ey Namshi moola and Karpoora Avapeedani Nasya. e) Vamshi moola and Karpoora Avapeedani Nasya. e) Nadhu + Manashila Avapeedan Nasya. for Nasya. b) Ksheera + Orwing Trippall Yaslimadu Yava, should grinded with water and with Honey for Nasya. d) Shirebsha Yaslimadu Yava, should grinded with water and with Honey for Nasya. d) Shirebsha a) Vidangao المعنية المعنية (المعنية على المعنية المعنية المعنية المعنية المعنية (المعنية المعنية الم havabheda :-a) Vidangadi Nasya - Vidanga, Krishna tila should be grinded in aja Ksheera a) Vidangadi Nasya - Charkara.c) Vachadi Avapeedan Nasya :- Vacha bi.

8) Darunaka :-

10) Phalithya :-

Bringaraj taila Nasyam.

9) Indraluptha :-Nimba taila nasyam.

Tulasi, Tila taila, yastimadu (Taila Paka vidhi) oil is used for a) Ksheera, Sahachara, talla, Brungaraja Swarasa,

Prapaundareeka, pippali, chandan, Neelothphala, b) Prapoundareekadi taila nasya (Amalaki, Tila taila, Yastımadu (Taila Vidhi)

#### c) Vibheetakadi Nasya :-

Gunja- Pakwa Taila- as pratimarsha Nasya. (Vibheetaki, Nimba, Gambhari, hareetaki, Lisoda

Ashwaganda - Quatha should prepare,and add saindhava lavan Hingu for Kashaya 4) Mashadi nasya. (Masha, Kaunchabeeja Rasna Bala erenda moola rohins Truna, D) In Vata Vyadhles :- 1) Rasnadi ghritha 2) Ksheerabala taila 3) Baladi ghritha manda

### E) In Tandra And Nidra :-

lavana, lashuna, guugulu, Katphhàla, vacha, saindhava lavan - Rohitha matsya - as 1) Marichadi Nasya - Krishna maricha, Pippali, shunti, Kankola, saindhava

2) Saindhavadi Nasya :- Saindhava lavan, maricha, sarshapa, kusta grinded in mutra and used as Nasya. )

### F) In Unmadaa and Apasmara :-

lavana and water as nasya. Madhuka saradi nasya - Madhuka, shuktha, pippali, vacha,maricha saindhav

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ייישada :-

g<sub>l)Lash</sub>unadi ghritha -الم المجالس التعبر 1 prastam Ghee, 1 Palam hingu, 2 Kudava Honey, ghritha has to sheer, and mutra, 1 prastam Ghee, 1 Palam hingu, 2 Kudava Honey, ghritha has to sheer havana Nasya. 

<sub>nsing</sub> for Navana Nasya.

g)vyoshadi Nasya:mutra for Nasya. ...., Vacha, Triphala ,Samanga, priyang, Sariva, Devadaru, should grind in Aja Kadala, Vacha, Triphala ,Samanga, priyang, Sariva, Devadaru, should grind in Aja Kadala, kar Nasya. speri. Haridra, Daruharidra, Manjista, hingu, Sarshapa, shireesha beeja,

g) Shireeshadi Nasya . Ala mutra for Nasya. تعتبين Shireesha, maduka, Hingu, Lashuna ,Tagara, Vacha, Kusta, should grind in

<sub>4) Pra</sub>daman Nasya. <sub>Mutra, pitta,</sub> Roma, Nakha, Charma, of Animals

H)Apasmara:-<sub>Sireesha</sub>, Shatavari, should grind with mutra for Nasya. 1) Bharangi, Vacha, Nagadanthi Or Jyothishmathi, Nagadanthi, Or Sariva

- Karanja, should grind in Aja mutra the prepared taila is used for Nasya. 2. Triphala, Trikatu, Devadaru, Yavakshara, Trivruth, Apamarga, Phaninjaka,
- 3. Pippali, vuschikali, kusta, Pancha Lavana, Bharangi, pradaman, Nasya
- Ghritha manda. 4) Sharkara + Shunti, for Nasya. Lashuna + Rasona Swaras. 2) Chandana + Stanya. 3) Saindhava Lavana +

J) Kshataja Kasa.

1) Ghritha + Ksheera Nasya

badariphal, yava, Aja mamsa - ghritha). 1) Vataja Kasa :- Rasnadi ghritha Nasya (Rasna, dashamool, shatavari, kulutha

L) Visha chikitsa :-

<sup>Nasya.</sup> 3) Amrutha + Shireesha Twak, Trikatu, Triphala + ghritha - Nasya. ) Shireesha Swarasa + Maricha - Nasya. 2) Shireesha Swarasa + Shigruchurna

M) Kusta vyadhi :-

1) Vidanga churna Pradaman Nasya.

# DESCRIPTION OF E.N.T. INSTRUMENTS

Plate - I and Plate II

### Oto scope - electrical

used to examine external ear canal and tympanic membrane Oto scope - electrice:
It is self illuminating aural speculum with magnifying Lenses and handle, it is

### Aural speculum (Toynbee's)

external auditory canal and Laterally in children. speculum should insert upto cartilage and bony junction of וו suseu וען באשווין באוווין ווא suseu וען באשווין ווא suseu וען באשווין ווא suseu וען באשווין באינון ווא suseu וען באשווין באינון ווא suseu ing the pinna upwards backwards and Laterally in adults and downwards backwards and suseu in su Aural speculum (1-2)...
It is used for examination of the external ear and tympanic membrane by pull.

### Tuning fork (Hartmanns)

It is used to determine the type and quality of deafness (rinne's Webers

brane, so should direct preferably to wards the roof of the canal. in side the lumen as it will obstruct the way of returning Fluids should not syringe forciful and should not direct the noizzle straight that may damage the tympanic memdried discharge of otitis media etc. While using the instrument it should not introduce This is used to remove the unimpacted foreign bodies from the ear like wax

### Eustachian Catheter (kramer's)

give medication in the middle ear.) eustachian tube) and therapeutic purposes (to remove Eustachian blockage and to It is used for Eustachian catheterization for diagnostic (to know the patency of

### Siegle's Pneumatic speculum :-

rubber bulb mobility of tympanic membrane is observed through the magnifying lens of speculum is fitted in the ear canal and makes an air tight chamber, by pressing the bulb and rubber tube. It is useful to test the mobility of tympanic membrane. The It contains ear speculum with magnifying Lens, , which is attached to rubber

It is used in the both cortical and radical mastoidectomy operations. Sef retaining Haemostatic mastoid retractor (Weis lander's)

#### 0 Mastoid Gouge (Jenkin's)

mastoid antrum and the mastoid air cells. It is used in mastoidectomy operation, Both cortical and radical to explore the

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איייים ווישאביים ווויפ air cells and masto lists with the scoop out the pathological air cells with the scoop with the scoop. Mac Fire mastoidectomy operation to explore the air cells and mastoid it is used in mastoidectomy operation to explore the air cells and mastoid

neally sure of removing the bridge and enlarging the aditus. gtaeייי radical mastoidectomy operation, it guides the surgeon to explore איניים שמינים וופטיים באיניים באיניים וופטיים באיניים באיני

שייייש in myringotomy which means incision of the tympanic membran lis used in myrinade of bus from middle ביי drainade of bus from middle בייי Myringotome (Daggett's) or better drainage of pus from middle ear.

It is used to cut the pedicle of the aural polyp. The number "O", steel wire is <sub>Aural</sub> Snare (ballance's)

### <sub>used</sub> in this snare.

of Lempert. Lemperti's end-aural speculum :-This is used to during mastoidectomy operation to apply end-aural incision

# End-Aural retractor with the third blade (Lempert's)

from the field of operation. and fascia away It is used to retract the incision lines in the mastoidectomy operation, through

#### Plate - III and IV

### Thudichum Nasal speculum :-

Nasal cavity) It is used for Anterior Phinoscopy (examination of the Anterior part of

# Posterior Rhinoscopic mirror (St. clair thomson's)

It is used to examine in the posterior part of the nose and the

## Antrum washing Cannula (Rose's) :-

operative day of I.N. A. (intra nasal antrostomy) It is used for giving wash to maxillary antrum on the 4th to 6th post

Nasal foreign body hook. :-

Used for removal of foreign bodies from the nose.

### Antral harpoon (Tilley's): -

laso antral wall, in intra nasal antrostomy operation. It is used for making an artificial opening in the inferior meatus of the

### Antral Rosette Burr (Tilley's)

It is used for enlarging and smoothening the margin of the artificial opening made by the harpoon in I.N.A.

- Z Antral trocar and warmer.

  It is used for washing the maxillary antrum in cases of maxillary sinusitis for Antral trocar and Cannula (Tilley-Lichl-witz) :-
- 8 Killian's mucoperichondrial Elevator with the thumb rest (Right and Left).

septum for elevating the muco perichondrium of septum in deviated nasal septal dis-These instruments are used in submucous resection (S.M.R.) Operation of

- evated mucoperichondrium of either side, away from the bare septum during s.m.R. Long bladed Nasal speculum (Stclair Thomsons) It is used to Keep the el-
- Ballenger's Swivel Knife :-

It is used to cut a quadrangular piece of cartilage of septum in S.M.R.

Luc's Forceps :-

oralcavity and oropharynx, INA operation and in dissection method of tonsillectomy It is used in caldwell-luc's operation, SMR operation for tissue biopsy form

- 12) It's function is to crush and avulge the polyp from its base. Number, 1 steel Negus Modification of (Glegg's ) Nasal snare :-

It is used to cut the bony thickening or spurs along the maxillary crest. Bayonet shaped Bone Gouge (killian's)

### PLATES V. VI VII AND VIII :-

Tongue depressor (Lack's)

and oropharnx cleraly. It is used to depress the anterior 2/3 of tongue to visualise the oral caivty

7 Laryngeal mirror

A mirror with straight handle is larngeal mirror used for indirect

Laryngeal forceps (Mackenzie's)

ఴ

larynx and Hypopharynx. These are sharp and culting types of forceps, used to take biopsy from the

4

operative coses of tonsillectomy. It is used to stop reactionary and secodary haemorrhage in the post. Tonsillar Haemostatic Clamp (Yorke's)

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Adenoid Cyrette with Cage (St clair thomsons )

It is used to curette the adenoids.

praffin's Bipods  $\beta^{0y}$  in dissection method of tonsillectomy under gneral anaesthesia.  $g^{ap}$  ) in Draffins bipods Boyle Davis mouth gag - These are used (Draffins bipods Boyle Davis mouth goyle na dissection method of tonsillectomy under annual property in dissection method of tonsillectomy under annual property.

Tonsil holding Forceps (Denis Browne's ):-

 $\text{Torsion}_{\text{It is used to hold the toinsil}}$  and to pull it medially in dissection method of

generally bleeding point and tonsillar tag just after tonsillartoms. bsective. bleeding point and tonsillar tag just after tonsillectomy. <sub>lonsi</sub>llectomy. Tonsil dissector with pillar retractor (Beavis) This instrument is used for blunt

Tonsillar Snare (Eve's)

posilectomy - Number "2" steel wire is used in it. It is used to crust and cut the lower pole of tonsil in dissection method of

Negus artery Forceps :-

wes of bleeding points in the tonsillar bed. A pair of Artery forceps with curved end, is used at the time of applying liga-

Knot - Tier and Ligature slipper (Negus) :-

lectomy operation by dissection method. and also to tie the knots during an attempt to stop the bleeding points, during tonsil-This is used for slipping the ligature beyond the curved tip of the artery forceps

Tonsil Guillotines (Ballenger's)

These are Used in tonsilectomy by Guillotine method

Doyen's Mouth gap :-

This is used for opening the mouth during tonsillectomy by guillotine tecnique

Peritonsillar abscess drainage Forceps or Quinsy dilator (St Clair

These are used for draining a peritonsilar abscess.

Direct Larngoscope (chevalier Jackson's)

or benigngrowth or for biopsy. It is used for direct visualisation of larynx, to remove foreign bodies, papilloma

<sup>17)</sup> Paterson's Forceps:-

endoscopes A long and narrow pair of Forceps which may be passsed through the

Cutting type for taking biopsy.

Holding type to remove Foreign bodies.

Broncho Scope (Chevaller Jackson's) :-

bigation ower (example) bigation of the bigations and

Oesophagosoope (Nagus )

in to ware with a contract of carolospasm and for ollatetion of benign It is used for direct visualisation of the desophageal Lumen, for removal of

Tracheel Dilator (Troussaeu's )

21)

Sharp tracheal hook :-

introduction of the tracheostomy tube. It is used in traceostomy operation to dilate the tracheal incision for smooth

B Blunt tracheal hook :-

It is used to retract the istimus of thyroid gland during tracheostomy opera-It is used in tracheostomy operation to fix the trachea during its incision .

Bivalved Metalic Tracheostomy tube (fuller's) :-

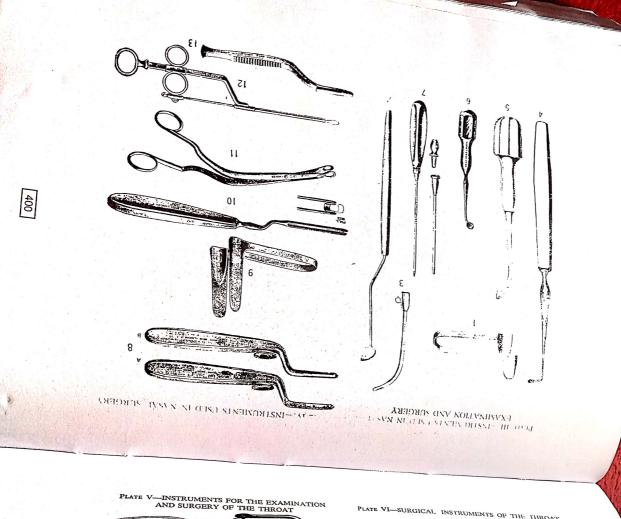
the opening shuld be covered with a piece of Sterile gauze. by tracheo bronchial secretions, after introduction of inner tube through the outer one, The outer tube contains two cusps so only called Bivalved, it never gets blocked

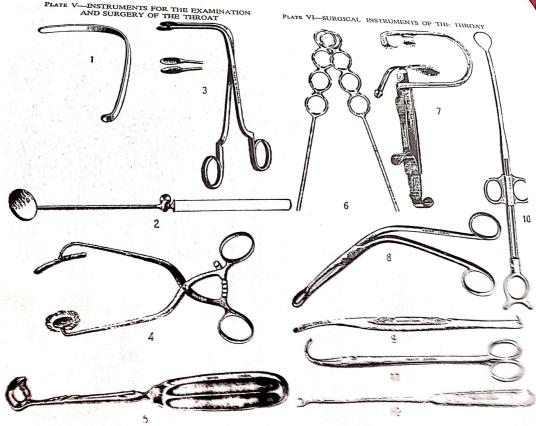
cave mirror the affected part should be examined . reflected light should expose to the site and through the cetral perforation of the conshould be locussed properly on the concave mirror of head mirror and the converged It is fixed to the head, The bright light which is comming form the source

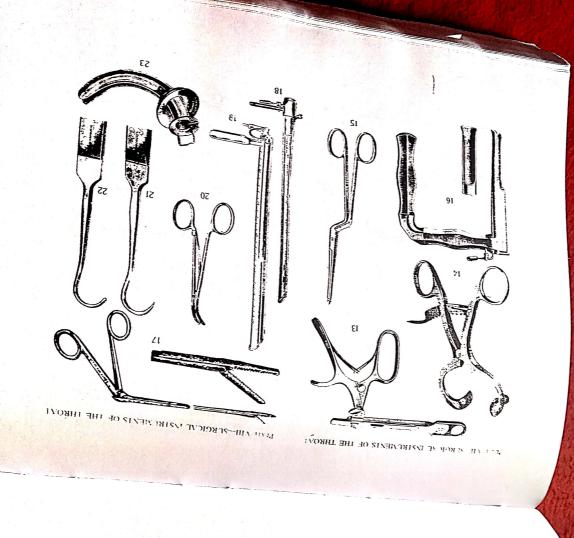
S Head Light :-

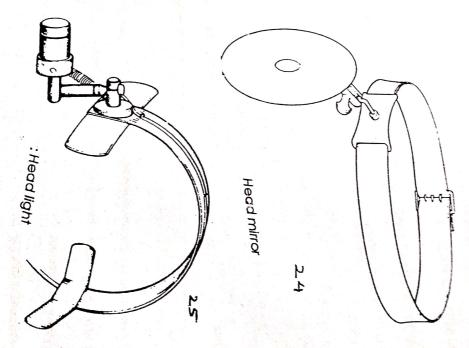
easy for focussing and examination. This contain concave mirror with central hole and light source togetherly so

L. INSTRUMENTS USED IN EXAMINATION OF THE EARS INSTRUMENTS USED OF THE EARS









## A MODEL CASE SHEET FOR SHALAKYA - II

N.K.J. Ayurvedic Medical College - Hospital. BIDAR

AFFLIATED TO RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES

# SHALAKYA II CASE SHEET- DEPARTMENT OF SHALYA SHALAKYA

6) Address 4) Caste 1) Name of the patient 5) Occupation 2) Age

O.P.D. No.

7) Registration No.

I.P.D. No.

Bed No.

Date

1) Patient's Chief Complaints, duration :

2) Associaed complaints, duration :

History of present illness :

4) History of previous illness :

5) Personal history :

6) Family history:

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9) Provisional diagnosis. ¥. ≦ 5 e) Traumatic Lesions :d) Inflammatory Lesions :c) Congenital Lesions :a) Normal ( 1) Bahya Nasa :

= _					٦						3					3
Examination Nose:	Samsthanika - Pareeksha :- (Systemic Examination)	Other:-	2) Lungs	1) Heart	Anga Pratyanga Pareeksha:-	9) Vyayama Shakthi	7) Satwa	5) Pramana	2) Sara	1) Prakruthi	Dasha - vidha pareeksha :-	7) Druk	5) Shabda	3) Malam	1) Nadi	Asta sthana Pareeksha :-
- The state of the	emic Examination)		4) Spleen	3) Liver		10) Vayas.	8) Ahara Shakthi	6) Satmya	4) Samhanana	2) Vikruthi		8) Akruthi	6) sparsha	4) Jihwa	2) Mutra	

h) Description :g) Others

f) Operative lesions

b) Deformed

Others if any : Ŋ INSTRUMENTAL EXAMINATION INVESTIGATIONS - REPORTS :a) Tinnitus ( )b) Menier's Syndrome c) Vertigo ( Deafness :- a) Conductive b) Sensori neural c) Mixed ( d) Discription c) Perforated i) Location ( Examination of Tympanic Membrane ;-SII. p) Description :-4 j) Otalgia 1) Local ( f) Ottis Externa. g) Otomycosis. h) Trauma. i) Ear discharge, its nature ..... a) Normal b) Wax. c) Foreign bodies. d) Inflammation e) Furunculosis. EXAMINATION OF EXTERNAL AUDITORY MEATUS :h) Description ; g) Others. f) Operative lesions. e) Traumatic Lesions  $\omega$ d) Inflammatory Lesions c) Congenital Lesions :a) Normal 1) BAHYA KARNA ; Examination of EAR :-INSTRUMENTAL EXAMINATION - INVESTIGATIONS - REPORTS :-Description. Agravated. s) Gandha gyanam 1) Normal 2) Absent 3) Altered 4) Reduced r) Swasa. 1) Normal, 2) obstructed Right side/Leftside. p) Sneezing. q) Nasal discharge its nature ... k) Vidradi I) Bleeding m) Pain. n) Burning sensation. o) Itching snesation f) Crust formation, g) Occlusions. h) Nasal Polyp. i) Grandhi j) Arbuda. a) Normal b) Rhinitis . c) Atrophied. d) Hypertrophied. e) Furunculosis. NASA GUHA (NASAL CAVITY) a) Normalc) Description :-NASA PATALA (NASAL SEPTEM) l) Cyst. m) Tumours. n) Abscess. o) Fistula ) 2) Radiating ). 2) Size ( ) 3) Shape ( b) Abnormal b) Deformed ( b) Deviated (b)

× S ¥ ම ග <u></u> 9 c) Local pain: 2) Shira shoola (Head ache) Examination of Shiras:i) Durationof pain g) Time of occurence e) Continuous pain a) Site of the pain: k) Reduce naturally Brama ( Dantha Moola (Gums) Srava (Drava - Raktha - Puya - Pischila -) Shotha (Oedema) OSTA (Lips) Investigations and reports: Description:-Shirodaha; DANTHA (TEETH) Grandi (Cyst) Srava (Discharges) Daha (burning sensation) Parimana (size) Akruthi (Shape) Examination of MUKHA:-Sosha (atrophy) Varana (colour) JIHWA (Tongue) Shotha (Oedema) Dantha Chidra (Perforation) Sthithi (Sthira-chala) Shoola (pain) Discription: Arbuda (Tumour) Shoola (Pain) Akruthi (Sama - Vishama) Sputana (Cracking) Varna(Colour) Normal Description: Description: ) 7) Kapala Vikara )Shiro kandu: Dantha Harsha (Sensitivity) Varna (Colour) shotha (Oedema) Normal Daha (Buring Sensation). Vidradi, abscess Arbuda tumour Perforation. Krimidantha (carees tooth) Vidradi (abscess) Gradhi (Cyst) b) Typeof pain: d) Radiating pain h) Time of agrevation f) Intermittent pain (Sputana (cracking) I) Reduce by medication. j) Intensity of pain mild/ Severe Normal sputona (Cracking) Vedana (pain) Kandu (itching) Varna (Colour) Akruthi (Shape) Parimana (Size) Vrana (ulceration) ) 8) Kesha Vikata ( ) 5) Shiro gurutwa: ( Normal

Z 5

Hasana (Taste

š TALU (Palate) Varna (Colour) Shoola (Pain) Description :-Vrana (ulceration)

Normal ( Shotha (Oedema) Sputana (Cracking)

XVI) GALA (Throat)

a) Varna (Colour)

Vedana (Pain) Kandu (Itching) Swara Vikar Arbuda (Tumour)

Normal ( Shotha (Oedema) Daha (burning) Grandhi (Cysts) Vidradi (abscess)

Description :-Instrumental Examination - Investigations - Report.

XVII) Differential diagnosis:-

XVIII) Final Diagnosis.

XIX) Pancha Lakshana Nidanam :

Nidana:

Poorva rupa :

Rupam:

Upashaya:

Samprapthi:

6 Dosha Vikruthi.

Dushya Vikruthi

Sroto Vikruthi

Rogi bala

10,

Roga balam

Sadhya Sadhyatha :

A). ChiKitsaa Sutra :-

в) Pathya :

c) Apathya:

p) Aushada chikitsa :

I. Sthanika chikitsa

II) Saarva dehika chikitsa

Shastra Shikitsa

<u>m</u>

I. Poorva Karma

II. Pradhana karma

iii) Paschaat Karma

XXI. Result

XXII) Advises.

Signature of Student

Signature of the Lecture

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