SNAKES

Scientific Classification -

Kingdom	Animalia	FAMILY -	Atractaspidinae
Phylum	Chordata	,	Colubridae
Class	Reptilia		Elapidae - Cobras and Kraits
Order	Squamata		Viperidae - Russell's viper, Saw-scaled viper.
Suborder	Serpentes		Hydrophiidae - Sea snakes
Superfamily	Xenophidia		

Types of Snakes -

- Poisonous (Venomous)
 - Neurotoxic Cobra & Krait
 - Vasculotoxic / Haemotoxic Vipers
 - Mayotoxic Sea Snakes
- Non Poisonous (Non Venomous)

BIG FOUR SNAKES OF INDIA –		
Common cobra	Naja naja	
Common krait	Bungarus caerulus	
Russell's viper	Vipera russelli	
Saw-scaled viper	Echis carinata	

Types of Bites -

- Business To kill or immobilize the victim (Amount of venom released Large)
- Defense To escape (Amount of venom released Little)
- Dry To produce fear/just had food (Amount of venom released Nothing)

Snake Venom Fatal Dosage & Fatal Period -

Snake	Fatal Dose	Average fatal period 5-15 hrs	
Common Cobra	12 mg		
Russell's viper	15 mg	Up to 48 hrs	
Common Krait	6 mg	5-15 hrs	
Saw scaled viper	8 mg	Up to 48 hrs	

Diagnosis of Snake Bite -

- History
- Fang marks
- · Identification of snakes
- Clinical Signs & Symptoms
- Laboratory investigations

Management of Snake Bite -

- <u>FIRST AID</u> Verbal Assurance, Immobilization of the affected limb, Keeping the patient at rest, Application of Tourniquet.
- SPECIFIC Anti Snake Venom (ASV)

ASSESSMENT OF SEVERITY OF ENVENOMATION -

Degree of envenomation	Signs & Symptoms	Initial dose
No envenomation	Absence of local or systemic reactions; fang marks (+/-)	No ASV
Mild envenomation	Fang marks (+), moderate pain, minimal local edema (0–15 cm), erythema (+), ecchymosis (+/-), no systemic reactions.	5 vials (50 ml)
Moderate envenomation	Fang marks (+), severe pain, moderate local edema (15–30 cm), erythema and ecchymosis (+), systemic weakness, sweating, syncope, nausea, vomiting, anemia, or thrombocytopenia.	5–10 vials (50–100 ml)
Severe envenomation	Fang marks (+), severe pain, severe local edema (>30 cm), erythema and ecchymosis (+), hypotension, paresthesia, coma, pulmonary edema, respiratory failure.	10–20 vials (100–200 ml)

SUPPORTIVE –

- Treatment for Anaphylactic reaction
- Inj. TT or ATS 0.5 ml IM
- Broad spectrum Antibiotics
- IV Fluids RL, DNS
- Surgical debridement & Skin Grafting.
- Signs of Neuroparalysis Atropine Neostigmin therapy
- Clotting Abnormality Blood Transfusion (BT/FFP), In DIC Heparin
- Hypovolemic shock Volume expanders.
- Respiratory failure Mechanical ventilation
- Acute renal failure Dialysis