

# Scorpion Bite and Management

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## Incidence

- ▶ Common in tropical and subtropical regions of the world
- ▶ India–Maharashtra, Karnataka, Tamilnadu, West Bengal, Pondicherry
- ▶ 86 species in India
- ▶ Common in India
- ▶ *Mesobuthus tamulus* –Red
- ▶ *Palamnaeus swammerdami* –Black (less poisonous)
- ▶ Cardiac manifestations dominate in India
- ▶ Neurologic features dominate–S.Africa
- ▶ Season –Summer,winter, night
- ▶ Fertility–3–22%



## Clinical Features

- ▶ Evolve–30min–6hrs
- ▶ Subside –within a day or 2
- ▶ Local manifestations– sever pain, paresthesia
- ▶ Systemic features –
- ▶ Cholinergic storm–fever, Hypotention, sweating, vomiting, priapism,shivering,salivation,bradycardia
  
- ▶ Adrenergic stimulation –starts after 4hrs and lasts for 48hrs

Tachycardia,hypertention, myocardial dysfunction, arrhythmias, Cardiogenic shock, pulmonary edema,altered consciousness,hypotention with or without pulmonary edema

Complications–encephalopathy, convulsions, aphasia,hemiplagia, cerebral haemorrhage,DIC, respiratory failure



### Grading Severity of scorpion bite

Grade	Clinical Features
Grade I	Localised pain
Grade II	Hypertention, sweating vomiting, priapism, fever, shivering
Grade III	Cardiogenic shock, pulmonary edema, altered consciousness
Grade IV	Tachycardia, hypotension with or without pulmonary edema



## Investigations

- ▶ Blood–Serum electrolytes–hyperkalemia
- ▶ Lipid profile–low serum cholestrol, triglycerides, raise in free fatty acids
- ▶ Elevated transaminases, LDH,amylase
- ▶ For myocardial dysfunction–ECG, X-Ray,ecocardiography,CT scan



## Management

- ▶ Symptomatic relief
- ▶ No specific antivenom available
- ▶ Local measures–cleaning
- ▶ NSAIDs, ice packs, Xylocane infiltrates, dehydroemetine (counterirritant)
- ▶ Streptomycin (neuromuscular blockade)



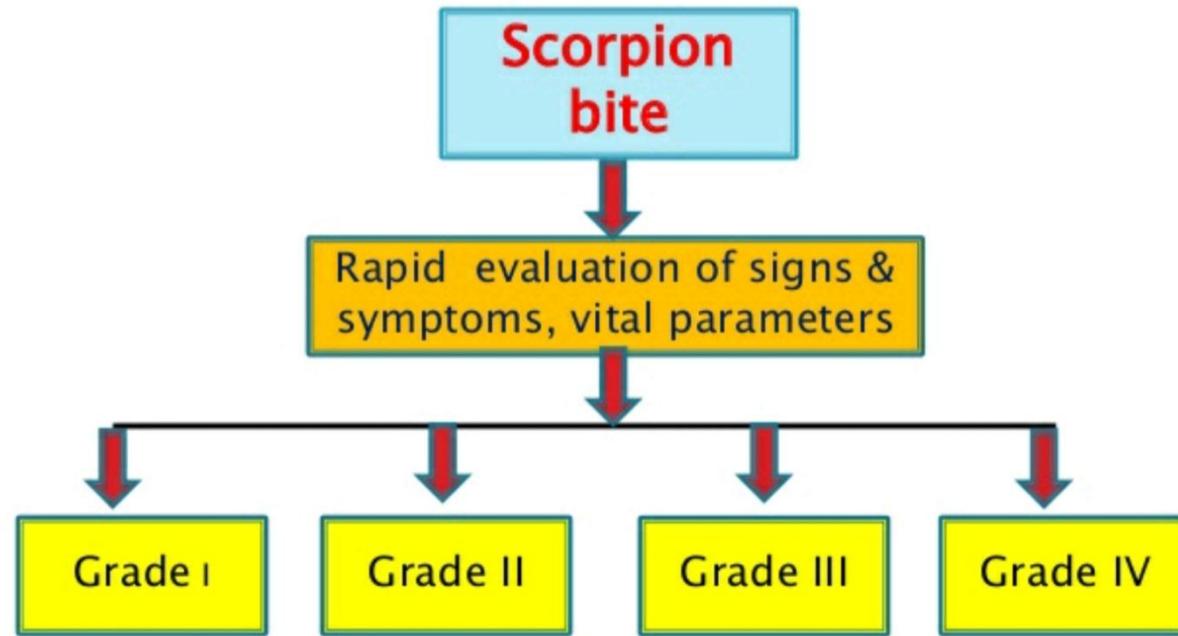
## General measures

- ▶ O2 administration by nasal cannula/face mask in case of respiratory distress, impending shock
- ▶ Frequent monitoring of vitals, fluid balance, blood electrolytes, pH, liver, kidney function, DIC
- ▶ Sedation: Diazepam, (GABA opens ion channels, antagonizing toxin action )
- ▶ Long acting sedatives are avoided
- ▶ Drug therapy -Prazosin, selective alpha-1-adrenergic blocking agent is true pharmacological antidote to control adrenergic effects like tachycardia, hypertension, incipient myocardial failure with pulmonary edema
- ▶ 30µ/kg oral every 4-6hrs for 24 hr  
(Tab Prazopress-1 mg, 2mg etc)









## Grade 1

Localized pain,  
sweating,  
edema, no systemic  
symptoms

Mild pain- ice pack

Sever Pain-  
Lignocane using  
ring block, with  
or without  
diazepam and  
NSAIDs

## Grade 2

Parasympathetic  
stimulation: vomiting, sweating,  
salivation, bradycardia, hy-  
potension, priapism

Oral fluids,  
IV fluids-if poor intake

Prazosin (30µg/kg) 4-6hr  
for 24 hrs  
Oral PCM, Avoid atropin  
unless symptomatic  
bradycardia,

## Grade 2

Sympathetic  
stimulation: cold  
extremities,  
hypertension,  
tachycardia

Oral fluids,  
IV fluids-if poor intake,  
Monitor symptoms

Prazosin (30µg/kg)  
repeat when  
necessary  
Oral paracetamol

### Grade 3

Cold Extremities, Tachycardia,  
hypotension/hypertension,  
Pulmonary edema

O<sub>2</sub> therapy, CVP guided fluid  
therapy, PPV, Monitor closely

Dobutamine 10  $\mu\text{g}/\text{kg}/\text{min}$   
Nitroglycerine  
(0.5  $\mu\text{g}/\text{kg}/\text{min}$ )  
Prazosin 30  $\mu\text{g}/\text{kg}$  repeat  
when necessary

### Grade 4

Tachycardia, hypotension,  
with/without pulmonary  
edema

O<sub>2</sub> therapy,  
CVP guided fluid therapy, PPV,  
Monitor closely

Dobutamine 10  $\mu\text{g}/\text{kg}/\text{min}$   
Prazosin 30  $\mu\text{g}/\text{kg}$  repeated  
when necessary

## Vrishchika Visha

- ▶ One among the Jangama visha
- ▶ One among keeta visha
- ▶ Types 3
- ▶ Based on strength of the poison
- ▶ Manda-12
- ▶ Madhyama -3
- ▶ Teekshna-15



Type	Number & Name	Clinical feature of bite
Manda visha 12	krishna,shyava,kar bura,pandu,gomut raabh,karkasha,me chaka,peeta,dhoo mra,romasha,shag valabah,rakta,shvet odara	Vepathu,Gatra sthamba Krishna raktaagamana Shaka dashta vedana Daha,Sweda Damsha ,Shopha,Jvara
Madhyama visha 3	shveta,peeta,kapila dhoomrodara,with 3joints	Jihva shopha Bhojanasyavarodha moorcha



**Teekshana  
visha  
15**

**Shveta, chitra, shyamala, lohita, rakta, shveta, Rakta, neelodar, peeta rakta, neelapeeta, rantaneela, neelashukla, rakta, babru having one joint, Two joints, multi joints, multi colored**

**Just like snake poisoning with all 7 stages Leading to death Highly poisonous Sphota, Branti, Dahava Javara, Reddish blackish discoloration of the srotas Death immediately**



## Mandavrishcika damsha chikitsa

- ▶ मातुलङ्गाम्लगोमत्रपिष्टं च सुरसाग्रजम् ॥६८॥  
लेपे, स्वेदे सुखोष्णं च गोमयं हितमिष्यते ।  
पाने क्षौद्रयुते सर्पिः ॥३॥ क्षीरं वा बहशर्करम् ॥६९॥  
दशं मन्दविषाणां तु चक्रतैलेन सेचयेत् ।  
विदारीगणसिद्धेन सुखोष्णेनाथवा पुनः ॥७०॥  
कयोच्चोत्कारिकोस्वेदे विषघ्नैरुपनाहयेत् ॥३॥  
गंडोदकं वा सहिमं चातुर्जातकसंयुतम् ॥७१॥  
पानमस्मै प्रदीतव्यं क्षीरे वा सगडे हिमम् ।  
शिखिकक्कटबर्हाणि सैन्धवं तैलसर्पिषी ॥७२॥  
धूमो हन्ति प्रयुक्तस्तु शीघ्रं वृश्चिकजं विषम् ।  
कसुम्भपुष्पं रजनी निशा वा कोद्वं तृणम् ॥७३॥  
एभिर्घृताक्तैर्धूपस्तु पायदेशे प्रयोजितः ।  
नाशयेदाशु कीटोत्थं वृश्चिकस्य च यद्विषम् ॥७४॥

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- ▶ **Lepa** -paste made of matulunga,surasagra(tender tulasi leaves),gomutra
- ▶ Vidarigana sidha lepa/, taila (sukoshna )
- ▶ विदारिगन्धा विदारी विश्वदेवा सहदेवा श्वदंष्ट्रा पृथक्पर्णी शतावरी सारिवा कृष्णसारिवा जीवकर्षभकौ महासहा क्षुद्रसहा बृहत्स्यो पुनर्नवैरण्डो हसपादी वृश्चिकाल्युषभी चेति ॥४॥  
विदारीगन्धादिरयं गणः पित्तानिलापहः ।  
शोषगुल्माङ्गमर्दोर्ध्वश्वासकासविनाशनः ॥५॥Au.Su.38/4.5
- ▶ **Svadana** -hot paste of gomaya
- ▶ **Paana**-khoudrayuta sarpi-bahuvata
  - ▶ ksheera with bahu sharkara-in bahu pitta
  - ▶ chaturjata samyukta gudodaka hima
  - ▶ saguda ksheera hima
- ▶ **Sechana** -chaktataila- tila taila obtained from grinding of chakra
- ▶ **Upanaha** -visha hara shirishadi gana
- ▶ **Dhooma** -eggshell, saindhava, tila ,sarpi
- ▶ **Dhoopan** -kusumba pushpa, rajani, nisha, kodrava, ghruta



## Shirishayoga

- ▶ समूलपुष्पाङ्कुरवल्कबीजात् क्वाथः शिरीषात् त्रिकटुप्रगाढः ।  
सलावणः क्षौद्रयुतोऽथ पीतो विशेषतः कीटविषं निहन्ति ।  
|८१||

Su.Ka.5/81



## Shirishayoga

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|८१||

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## Other Yogas in practice

- ▶ **Bilvadi gulika** –A.H.U.Sarpavisha pratishedha –84

बिल्वस्य मूलं सुरसस्य पुष्पं

फलं करञ्जस्य नतं सुराह्वम्

फलात्रक व्याषानशाद्वय च

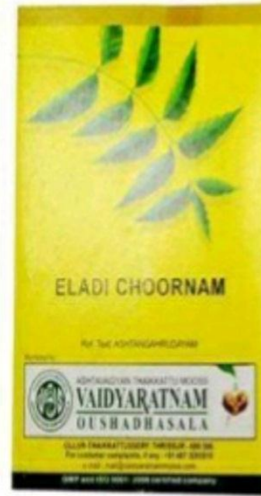
बस्तस्य मूत्रेण सुसूक्ष्मपिष्टम् ८४

भुजङ्गलूतोन्दुरवृश्चिकाद्यैर्विसूचिका जीर्णगरज्वरैश्च

आर्तान्नरान्भूतविधर्षितांश्चस्वस्थीकरोत्यञ्जनपाननस्यैः ८५

- ▶ Eladi gana –A.H.Su shodhanadi gana
- ▶ Dashanga lepa
- ▶ Dashanaga gulika
- ▶ Aragvadarishta
- ▶ Lodrasava





## Ugra & madhyama vrishchikadahtaChikitsa

- ▶ उग्रमध्यविषैर्दष्टं चिकित्सेत् सर्पदष्टवत् ।  
आदंशं स्वेदितं चूर्णैः प्रच्छितं प्रतिसारयेत् ॥६७॥  
रजनीसैन्धवव्योषशिरीषफलपुष्पजैः ॥६८॥

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- ▶ Treatment just sarpadashata
- ▶ Pratisarana of the site with churna of Rajani,saindhava, vyosha, shirisha kala and pushpa



- ▶ Bandhana –4 angula above the site of bite with cloth
- ▶ Where bandhan is not possible then Achooshan, chedana, dahana is done
- ▶ Mantra bandhanan
- ▶ Sarpa visha vega chikitsa
- ▶ Agada prayoga
- ▶ Mahagada
- ▶ Ajitogada
- ▶ Tarkshyogada
- ▶ Rishabogada





## Sarpadashta chikitsa

Vega	Site of affliction ,lakshana	Chikitsa
<b>Prathama</b>	Rakta Krisnata Pipeelika prisravana in the anga	Raktamokshana (prchanna/shronga)
<b>Dviteeya</b>	Mamsa Krishnata shopha, granthi	Madhu + sarpi pana
<b>Triteeya</b>	Meda, shirogourava, sweda, chakshur grahana	Nasya + anjana
<b>Chaturtha</b>	Koshta, dooshana of kapha pradhana dosha Tandra, praseka, sandhi vishlesha	Vamana followed by yavagu prayoga



<b>Panchama</b>	Asthi, agni , prana dooshana Parva bedha, hikka, daha	Sheetopachar & teekshna yavagu
<b>Shashta</b>	Majja ,grahani dooshana Gatra gourava, atisara, hritpeeda, moorcha	Sheetopachar & teekshna yavagu
<b>Saptama</b>	Shukra , vyana prakopa, uproots kapha from kaphapradesha, leading to cfracture of kati , prishta,, loss of function. Excess salivation , sweating, shwasa nirodha,	Shiro shodhana with avapedana nasya Teekshna anjana Rakta sravana with teekshna shstra at the region of moordhni in the shape of crow's leg



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Thank You