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**References :**

7. Parrish HM. Analysis of 460 fatalities from venomous animals in the United States. Am J Med Sci 1963; 245: 129-141.

8. Tiwary AK, Deshpande S B. Toxicity of scorpion (*Buthus tamulus*) venom in mammals is influenced by the age and species. Toxicon 1993; 31: 1619-1622.

2. Fowler ME. Veterinary zootoxicology. CRC Press. Inc. Boca Raton, 1993, 81-87.

3. Sherman MA. Venom Disease. Springfield, Illinois, Charles, Thomas, Pub, 1974, 27-37.

5. Dehesa-Davila, M. Possani LD. Scorpionism and serotherapy in Mexico. Toxicon 1994; 32: 1015-1018.

6. Radmanesh M. *Androctonus Crassicauda* sting and its clinical study in Iran. J Trop Med Hyg 1990; 93: 323-326.

10. Amaral CFS, Barbosa AJA, Leite VH. R, et al. Scorpion sting-induced pulmonary oedema: evidence of increased alveolocapillary membrane permeability. Toxicon 1994; 32: 999-1003.

11. Bawaskar HS, Bawaskar PH. Cardiovascular manifestations of severe scorpion sting in India (review of 34 children). Ann Trop Paediat 1991; 11: 381-387.



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12. Bawaskar HS, Bawaskar PH. Treatment of cardiovascular manifestations of human scorpion envenoming: is serotherapy essential? *J Trop Med Hyg* 1991; 94: 156-158.
  13. Bawaskar HS, Bawaskar PH. Role of atropine in management of cardiovascular manifestations of scorpion envenoming in humans. *J Trop Med Hyg* 1992; 95: 30-35.
  14. Bawaskar HS, Bawaskar PH. Management of the cardiovascular manifestations of poisoning by the Indian red scorpion (*Mesobuthus tamulus*). *Br Heart J* 1992. 68: 478-480.
  15. Ismail M, Fatani AJY, Dabees TT. Experimental treatment protocols for scorpion envenomation: a review of common therapies on effect of kallikrein-Kinin inhibitors. *Toxicon* 1992;30:1257-1279.
  16. Kumar EB, Al-Hamdani A, El. Shimy N. Scorpion venom cardiomyopathy. *Am Heart J* 1992; 123: 725-729.
  17. Murthy KRK, Shenoi R, Vaidyanathan P, et al. Insulin reverts haemodynamic changes and pulmonary oedema in children stung by the Indian red scorpion *Mesobuthus tamulus* Concanesis pocock. *Ann. Trop Med Parasitol* 1991; 85: 651-657.
  18. Gateau T, Bloom M, Clark R. Response to specific *Cetrurioides sculpturatus* antivenom in 151 cases of scorpion stings. *J Toxicol Clin Toxicol* 1994; 32: 165-171.
  19. Guyton AC. Textbook of Medical Physiology. 9<sup>th</sup> ed. W. B. Saunders: Philadelphia, 1996, 121-158.
  20. Amaral CFS, Lopes JA, Magalhaes R A, et al. Electrocardiographic, enzymatic and echocardiographic evidence of myocardial damage after *Tityus serrulatus* scorpion poisoning. *Am J Cardiol* 1991; 67: 655-657.
  21. Freire-Maia L, Campos JA, Amaral C FS. Approaches to the treatment of scorpion envenoming. *Toxicon* 1994;32: 1009-1014.
  22. Gueron M, Ovsyshcher I. What is the treatment for the cardiovascular manifestations of scorpion envenomation. *Toxicon* 1987; 25: 121-125.
  23. Murthy K, Radha K, Hase NK. Scorpion envenomation and the role of insulin. *Toxicon* 1994; 32: 1041-1044.
  24. Poon-King T. Myocarditis from scorpion stings. *Br Med J* 1963; 1: 374-377.
  25. Radmanesh M. Clinical study of *Hemiscorpion lepturus* in Iran *J Trop Med Hyg* 1990; 93: 327-332.

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