

Marine Trauma and Envenomation

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REFERENCES

- Hanley M, Tomaszewski C, Kerns W: The epidemiology of aquatic envenomations in the US: most common symptoms and animals. *J Toxicol Clin Toxicol* 38 (Abstr): 512, 2000.
- Labadie M, Aldabe B, Ong N, et al: Portuguese mon-of-war (*Physalia physalis*) envenomation on the Aquitaine coast of France: An emerging health risk. *Clin Toxicol* 50: 567, 2012. [PMID: 22780958]
- Schmidt C, de Haro L: Clinical marine toxicology: a European perspective for clinical toxicologists and poison centers. *Toxins* 5: 1343, 2013. [PMID: 23917333]
- <https://www.flmnh.ufl.edu/fish/sharks/Statistics/statistics.htm> (Burgess GH: International Shark Attack File [ISAF] 2014 Worldwide Shark Attack Summary, 2015.) Accessed February 22, 2015.
- Caldicott DG, Mahajani R, Kuhn M: The anatomy of a shark attack: a case report and review of the literature. *Injury* 32: 445, 2001. [PMID: 11476808]
- Burgess GH, Callahan MT, Howard RJ: Sharks, alligators, barracudas, and other biting animals in Florida waters. *J Fla Med Assoc* 84: 428, 1997. [PMID: 9360352]
- Diaz JH: Skin and soft tissue infections following marine injuries and exposures in travelers. *J Travel Med* 21: 207, 2014. [PMID: 24628985]
- Diaz JH, Lopez FA: Skin, soft tissue and systemic bacterial infections following aquatic injuries and exposures. *Am J Med Sci* 349: 269, 2015. [PMID: 25374398]
- Haddad V, Lupi O, Lonza JP, Tyring SK: Tropical dermatology: marine and aquatic dermatology. *J Am Acad Dermatol* 61: 733, 2009. [PMID: 19836641]
- Finkelstein R, Oren I: Soft tissue infections caused by marine bacterial pathogens: epidemiology, diagnosis, and management. *Curr Infect Dis Rep* 13: 470, 2011. [PMID: 21785929]
- Strom MS, Paranjpye RN: Epidemiology and pathogenesis of *Vibrio vulnificus*. *Microbes Infect* 2: 177, 2000. [PMID: 10742690]
- Lentz AK, Burgess GH, Perrin K, Brown JA, Mazingo DW, Lottenberg L: Mortality and management of 96 shark attacks and development of a shark bite severity scoring system. *Am Surg* 76: 101, 2010. [PMID: 20135949]
- Rtshiladze MA, Andersen P, Nguyen DQA, Grabs A, Ho K: The 2009 Sydney shark attacks: case series and literature review. *ANZ J Surg* 81: 345, 2011. [PMID: 21518184]
- Diaz JH: The evaluation, management, and prevention of stingray injuries in travelers. *J Travel Med* 15: 102, 2008. [PMID: 18346243]
- Russell FE: Stingray injuries: a review and discussion of their treatment. *Am J Med Sci* 226: 611, 1953. [PMID: 13104413]
- Isbister GK: Venomous fish stings in tropical northern Australia. *Am J Emerg Med* 19: 561, 2001. [PMID: 11699001]
- Kragh JF, Littrel ML, Jones JA, et al: Battle casualty survival with emergency tourniquet use to stop limb bleeding. *J Emerg Med* 41: 590, 2011. [PMID: 19717268]
- Srinivasan S, Bosco JIE, Lohan R: Marine stingray injuries to the extremities: series of three cases with emphasis on imaging. *J Postgrad Med* 59: 309, 2013. [PMID: 24346390]
- Strickland CD, Auckland AK, Payne WT: Surgical implications of preoperative sonographic localization of sea urchin spine foreign bodies. *J Ultrasound Med* 33: 177, 2014. [PMID: 24371114]
- World Health Organization: *International Medical Guide for Ships*, 3rd ed. Geneva, Switzerland: WHO Press; 2007.
- Lehane L, Rawlin GT: Topically acquired bacterial zoonoses from fish: a review. *Med J Aust* 173: 256, 2000. [PMID: 11130351]
- Torrez PPQ, Quiroga MM, Said R, Abati PAM, Franca FOS: Tetanus after envenomations caused by freshwater stingrays. *Toxicon* 97: 32, 2015. [PMID: 25576234]
- Watters MR: Tropical marine neurotoxins: venoms to drugs. *Semin Neurol* 25: 278, 2005. [PMID: 16170740]
- Clark RE, Girard RH, Rao D, Ly BT, Davis DP: Stingray envenomation: a retrospective review of clinical presentation and treatment in 119 cases. *J Emerg Med* 33: 33, 2007. [PMID: 17630073]
- Atkinson PRT, Boyle A, Hartin D, McAuley D: Is hot water immersion an effective treatment for marine envenomation? *Emerg Med J* 23: 503, 2006. [PMID: 16794088]
- Kizer KW, McKinney HE, Auerbach PS: Scorpaenidae envenomation. A five-year poison center experience. *JAMA* 253: 807, 1985. [PMID: 3968819]
- Isbister GK: Antivenom efficacy or effectiveness. The Australian experience. *Toxicology* 268: 148, 2010. [PMID: 19782716]
- White J: *CSL Antivenom Handbook*, 2nd ed. Melbourne, Australia: CSL Ltd.; 2001.
- Smyrnioudis ME, O'Rourke DP, Rosenbaum MD, Brewer KL, Meggs WJ: Long-term efficacy of pressure immobilization bandages in a porcine model of coral snake envenomation. *Am J Emerg Med* 32: 1024, 2014. [PMID: 25059885]
- Lotan A, Fishman L, Zlotkin E: Toxin compartmentation and delivery in the Cnidaria: the nematocyst's tubule as a multiheaded poisonous arrow. *J Exp Zool* 275: 444, 1996. [PMID: 8795288]
- Isbister GK, Kiernan MC: Neurotoxic marine poisoning. *Lancet Neurol* 4: 219, 2005. [PMID: 15778101]
- Centers for Disease Control and Prevention: Tetrodotoxin poisoning outbreak from imported dried puffer fish—Minneapolis, Minnesota, 2014. *MMWR Morb Mortal Wkly Rep* 63: 1222, 2015. [PMID: 25551594]
- Cavazzoni E, Lister B, Sargent P, Schibler A: Blue-ringed octopus (*Hapalochloa* sp.) envenomation of a 4-year-old boy: a case report. *Clin Toxicol (Phila)* 48: 760, 2008. [PMID: 19238736]
- Duterte S, Jin AH, Alewood PF, Lewis RJ: Intraspecific variations in *Conus geographus* defense-evoked venom and estimation of the human lethal dose. *Toxicon* 91: 135, 2014. [PMID: 25301479]
- Haddad V: Observation of initial clinical manifestations and repercussions from the treatment of 314 human injuries caused by black sea urchins (*Echinometra lucunter*) on the southeastern Brazilian coast. *Rev Soc Bras Med Trop* 45: 390, 2012. [PMID: 22760142]
- Loten C, Stokes B, Worsely D, et al: A randomized controlled trial of hot water (45°C) immersion versus ice packs for pain relief in *Physalia* stings. *Med J Aust* 184: 329, 2006. [PMID: 16584366]
- Stein MR, Marraccini JV, Rothschild NE, Burnett JW: Fatal Portuguese man-o'-war (*Physalia physalis*) envenomation. *Ann Emerg Med* 18: 312, 1989. [PMID: 2564268]
- Currie BJ, Wood YK: Identification of *Chironex fleckeri* envenomation by nematocyst recovery from skin. *Med J Aust* 162: 478, 1995. [PMID: 7746205]
- Currie BJ, Jacups SP: Prospective study of *Chironex fleckeri* and other box jellyfish stings in the "top end" of Australia's Northern Territory. *Med J Aust* 183: 631, 2005. [PMID: 16336157]
- Huynh TT, Seymour J, Pereira P, et al: Severity of Irukandji syndrome and nematocyst identification from skin scrapings. *Med J Aust* 178: 38, 2003. [PMID: 12492390]
- Nomura JT, Sato RL, Ahern RM, et al: A randomized paired comparison trial of cutaneous treatments for acute jellyfish (*Carybdea alata*) stings. *Am J Emerg Med* 20: 624, 2002. [PMID: 12442242]
- Ramasamy S, Isbister GK, Seymour JE, Hodgson WC: The in vivo cardiovascular effects of box jellyfish *Chironex fleckeri* venom in rats: efficacy of pre-treatment with antivenom, verapamil and magnesium sulphate. *Toxicon* 43: 685, 2004. [PMID: 15109889]
- http://resus.org.au/?wpfb_dl=41. (Australian Research Council: Guideline 9.4.5 Envenomation – Jellyfish Stings. July 2010.) Accessed February 22, 2015.
- Tibballs J: Australian venomous jellyfish, envenomation syndromes, toxins and therapy. *Toxicon* 48: 830, 2006. [PMID: 16928389]
- Tibballs J, Yanagihara AA, Turner HC, Winkel K: Immunological and toxicological responses to jellyfish stings. *Inflamm Allerg Drug Targets* 10: 438, 2011. [PMID: 21824077]
- Ward NT, Darracq MA, Tomaszewski C, Clark RF: Evidence-based treatment of jellyfish stings in North America and Hawaii. *Ann Emerg Med* 60: 399, 2012. [PMID: 22677532]
- Li L, McGee RG, Isbister G, Webster AC: Interventions for the symptoms and signs resulting from jellyfish stings. *Cochrane Database Syst Rev* 12: CD009688, 2013. [PMID: 24318773]
- Hartwick R, Callan V, Williamson J: Disarming the box jellyfish: nematocyst inhibition in *Chironex fleckeri*. *Med J Aust* 12: 15, 1980. [PMID: 6102347]
- http://resus.org.au/download/press_releases/box-jellyfish.pdf (Australian Research Council: Press release re: research conducted at James Cook University—an in-vitro examination of the effect of vinegar on discharged nematocysts of *Chironex fleckeri* [box jellyfish].) Accessed February 22, 2015.
- Corkeron M, Pereira P, Makrocenis C: Early experience with magnesium administration in Irukandji syndrome. *Anaesth Intensive Care* 32: 666, 2004. [PMID: 15535491]
- Birsa LM, Verity PG, Lee RF: Evaluation of the effects of various chemicals on discharge of and pain caused by jellyfish nematocysts. *Comp Biochem Physiol C Toxicol Pharmacol* 151: 426, 2010. [PMID: 20116454]
- Burnett JW, Rubinstein H, Calton GJ: First aid for jellyfish envenomation. *South Med J* 76: 870, 1983. [PMID: 6135257]
- Isbister GK, Hooper JN: Clinical effects of stings by sponges of the genus *Tedania* and a review of sponge stings worldwide. *Toxicon* 46: 782, 2005. [PMID: 16183093]