

**Universal Care** 

1-01

## Wound Management & Immobilization

- Cleanse/gently irrigate the wound with saline or tap water.
- Dress wound with a small, loose dressing if actively bleeding.
- Remove rings, bracelets and other constrictive clothing from the extremity.
- Splint/Immobilize the limb in a position of comfort to limit movement. (Maintain a neutral position, as above the heart may hasten venous drainage/venom spread and below the heart may worsen edema.)
- Monitor for signs of anaphylaxis (treat as per Allergic Reaction [M-02])

Mark the skin with the initial location of erythema and/or swelling and mark progression every 5-15 minutes.

NOTs!

- DO NOT incise fang marks or apply suction.
- Do NOT use ice or a pressure dressing at or proximal to the wound.
- Do NOT use Tourniquets → if placed by bystanders, <u>remove them</u> immediately.

## Do NOT kill the snake!!! Take a picture if possible to help with identification.

- If bystanders killed the snake prior to arrival, please educate them not to do this in the future.
- Never handle a dead snake as the bite reflex remains intact for hours.

Provide Respiratory & Hemodynamic Support:

- 100% Oxygen by Non-Rebreather, as per Airway/O2 Maintenance [A-01]
- IV/IO Access, per IV Protocol [1-03]
- Fluid Resuscitation and Vasopressors, per Medical Shock [M-06]

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For venomous snake bites, Rapid Transport should be instituted to an ED capable of administering Antivenom (utilize Air Transport if >30-45 ground transport)

E-04		
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## NOTES:

- Non-Venomous Snakes
  - Multiple rows of tiny puncture marks (versus 1-2 fang marks).
  - Only danger is with local wound healing and infection/sepsis.
- Crotalids/Pit Vipers (e.g. Copperheads, Rattlesnakes, Cottonmouths)
  - Have triangular-shaped head and elliptic (not round) pupils.
  - Pathophysiology: venom increases vascular permeability, causes hemolysis, systemic coagulopathy and local tissue necrosis.
  - Most bites only cause localized injury. Erythema and swelling should be marked and monitored as persistent extension/worsening is an indication for antivenom. Systemic symptoms are rare but can be deadly, especially in children. Only 25% of bites are considered "dry" bites (i.e. no venom was injected.)
- Elapids (e.g. Coral Snakes)
  - Red-on-yellow banding = BAD ("Red on yellow, kill a fellow. Red on black, venom lack."),
    though coloring may vary somewhat.
  - Higher incidence of dry bites with coral snakes (50-70%).
  - Pathophysiology: Neuromuscular blockade via nicotinic acetylcholinesterase (ACh) receptor blockage. Minimal hemolysis/necrosis.
  - Symptoms = generalized neurologic symptoms: weakness, vision changes (blurry vision, diplopia, etc.), difficulty swallowing, etc. May progress to overt paralysis and associated respiratory failure.

## **QI Review Parameters:**

1. Pending