PAEDIATRIC ACUTE CARE GUIDELINE

Spider Bite

Scope (Staff): All Emergency Department Clinicians
Scope (Area): Emergency Department

This document should be read in conjunction with this DISCLAIMER
http://kidshealthwa.com/about/disclaimer/

Spider Bite

Red-Back Spider (Latrodectus hasselti)

- This non-life threatening envenomation (latrodectism) classically presents with a triad of localized pain, sweating and piloerection (goosebumps)
- Clinically the main issue is pain, which may be difficult to manage and can last up to 1 week
- The efficacy of redback spider antivenom has recently been questioned and may not provide any additional pain relief over using analgesia alone

Signs and Symptoms

- Consider the diagnosis in any child with abrupt onset of inconsolable crying, abdominal pain or priapism

<table>
<thead>
<tr>
<th>Local</th>
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<tr>
<td>Initially asymptomatic or mild sting +/- erythema, progressing to severe pain around the bite site</td>
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<tr>
<td>Localised sweating and piloerection</td>
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<td>Pain and swelling of regional lymph nodes</td>
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<table>
<thead>
<tr>
<th>Systemic (minority)</th>
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<tr>
<td>Headache</td>
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<tr>
<td>Nausea, vomiting and abdominal pain</td>
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<tr>
<td>Lethargy and malaise</td>
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<tr>
<td>Regional or generalised pain and sweating. Often fluctuating</td>
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<td>Mild tachycardia and hypertension</td>
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Management

First Aid

- A cold compress may offer some relief
- A pressure immobilisation bandage is **not** recommended and may increase pain

Analgesia

- Simple analgesia such as paracetamol or ibuprofen
- Opiates such as intranasal fentanyl or oxycodone po may be required
- **Note:** the aim is for a reduction in pain to acceptable levels, not a pain free state. Only 25% of patients have a reduction in pain 2 hours post bite and 50% at 24 hours.

Antivenom

- Redback spider antivenom was historically given in cases of severe pain and systemic symptoms; however, a recent RCT (RAVE II) has brought its effectiveness into question
- **All cases of redback spider envenomation should be discussed with a senior ED doctor and consider seeking input by the Duty Toxicologist at Poisons Information: 131126**

Administration

- In a monitored area with facilities to treat anaphylaxis readily available
- Observations including BP should be done at baseline, 15 mins, 30 mins then hourly for 2 hours
- Give 2 ampoules diluted in 10mL/kg (max 100mL) of 0.9% saline IV over 20 minutes
- **Note**
  - Dose of antivenom is not dependent on the age or weight of the child
  - The IV route is a safe and well-established practice despite the product information stating it is given via the IM route

Adverse Reactions

- Hypersensitivity reactions (<5%) are usually limited to a rash. Anaphylaxis is rare and should be managed by stopping the infusion and standard therapies – refer to [Anaphylaxis](#)
- Serum sickness (< 10%) occurs 5-10 days post antivenom administration and presents with fever, rash, joint pains and myalgia. It responds well to 5 days of oral prednisolone.

Funnel-web Spiders

- No species are found in Western Australia

Other Spider Bites and “Necrotising Arachnidism”

- Many spider bites may be associated with local irritation and inflammation and symptomatic treatment with analgesics and antihistamines for itch is generally all that is required.
- The white-tailed spider (Lampona cylindrata) was long implicated in medical literature and media reports as causing skin necrosis and ulceration. Spider bite in Australia is an
extremely uncommon cause of ulceration and should only be considered at the end of a long list of other differential diagnoses including infections and vasculitis. Prospective studies have failed to support the association between Australian spiders and such lesions. Even if a skin ulcer is thought to have been the result of a spider bite, treatment is symptomatic with analgesia, elevation and good wound care. Rarely, the input of a plastic surgeon may be required for wound debridement and skin grafting.

References