

# January 2025 Venom, Toxins and Disaster

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**Week 1: New Years Day Public Holiday! No formal teaching**

**Week 2: 08/01/2025**

**Theme: Mass Cass Day!**

**Location: ED Admin Meeting Room**

**Chairs: Dawn Chan + Tim Smith**

10:00 – 10:40	<p><b>What is Mass Cass?</b></p> <ul style="list-style-type: none"> <li>- Definition vs multi casualty and surge. How do we recognise it?</li> <li>- What types of events do we get in different parts of Australia?</li> <li>- What is the impact of climate change on these events and patient presentations?               <ul style="list-style-type: none"> <li>(a) Severe weather changes</li> <li>(b) Extreme heat</li> <li>(c) Air pollution</li> <li>(d) Changes in vector ecology</li> <li>(e) Increasing allergens</li> <li>(f) Water quality impacts</li> <li>(g) Water and food supply impacts</li> </ul> </li> <li>- How does the government or state respond?</li> <li>- How do we respond??? Example of local disaster plan</li> <li>- How's it all followed up? Lessons from coronial inquests and commissioned investigations</li> </ul> <p>Prioritisation &amp; Decision Making 1. Prioritisation of patient management TS 4.4 &amp; 4.5            Leadership &amp; Management 5. Mass Casualty Incidents and Disaster Management TS 1.1, TS2.1, 2.2(a – g), 4.6            Professionalism 2. Ethics and medicolegal frameworks in Emergency Medicine TS 4.3</p>	Max Harvey
10:40 – 11:10	<p><b>You thought COVID PPE was annoying... PPE and CRBNE</b></p> <ul style="list-style-type: none"> <li>- What is CRBNE? What type of incidents may this apply to?</li> <li>- Classes of PPE and when they are required</li> <li>- One day you walk across a disaster... METHANE</li> </ul> <p>Leadership &amp; Management 5. Mass Casualty Incidents and Disaster Management TS 4.1</p>	Jack Tresize
11:10 – 11:30	<p><b>Response Hierarchies and Communication Strategies</b></p> <ul style="list-style-type: none"> <li>- Field response chain of command. What role could we play?</li> <li>- Hospital response chain of command. What role could we play? Who is the incident controller?</li> <li>- What are the roles?</li> </ul> <p>Treatment officer, triage officer, coordinator, commander, media etc</p> <ul style="list-style-type: none"> <li>- Vertical vs horizontal communication/ command and control</li> </ul>	Tim Darby

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	<p>- <b>Common communication failures</b></p> <p>Prioritisation &amp; Decision Making 1. Prioritisation of Patient Management TS 4.4 Communication 1. Principles of Effective Communication TS1.2, 1.5, 1.7, 2.3,</p>	
11:30 – 12:00	<p><b>Not the triage the ATS or nurse taught you</b></p> <ul style="list-style-type: none"> <li>- Principle of reverse triage</li> <li>- How to SIEVE</li> <li>- How to SORT</li> <li>- What type of treatment can occur at each stage?</li> <li>- Example exercise....</li> </ul> <p>Medical Expertise 3.20 TS 3.13(e) Prioritisation and Decision Making 2. Clinical Risk TS 1.1, 1.2, 1.4,</p>	Tim Smith
12:00 – 12:20	<p><b>Preparing and running an ED during a major incident</b></p> <ul style="list-style-type: none"> <li>- The declaration and getting the ball rolling</li> <li>- The purge and creating space</li> <li>- Setting up the environment (from decon, access and egress)</li> <li>- Equipment trawling</li> <li>- Assembling and briefing the team</li> <li>- The zonal approach</li> <li>- Communication strategies</li> <li>- The media</li> </ul> <p>Leadership &amp; Management 5. Mass Casualty Incidents and Disaster Management TS4.4</p>	Tim Smith
12:20 – 12:30	<b>Department Update</b>	Gaby/ Jon
12:30 – 13:00	<b>Break</b>	
13:00 – 15:00	<p><b>Time for the whiteboard and Hi Vis..... It's EMERGO !!!!!!!!!!!</b></p> <p>Work as a team to plan, prepare and manage a field and hospital massive casualty incident</p> <p>Medical Expertise Teamwork and Collaboration TS1.9, 3.7, 3.10, 3.11, 3.14 Leadership &amp; Management 5. Mass Casualty Incidents and Disaster Management TS1.1, 2.1, 3.1, 3.2, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6 Medical Expertise 3.20 TS 3.13(e) Prioritisation and Decision Making 2. Clinical Risk TS 1.1, 1.2, 1.4</p>	Dawn Chan/ Tim Smith/ Zoe Halliday + Nursing Educators

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Week 3: 15/01/2025

Location: ED Admin Meeting Room

Theme: Envenomation

Chairs: Maelvin Joshua & Mahes Masilimany

Time	Hot Topics	Speaker
10:00 – 11:30	<b>Snakes</b> <ul style="list-style-type: none"> <li>- What and where? Taipan, Tiger, Brown, Black, Python, Sea Snake</li> <li>- Snake habits and seasonality</li> <li>- Identity challenge (lots of photos)</li> <li>- First aid and how to apply a Pressure Immobiliser Bandage properly. What are the pitfalls?</li> <li>- Toxidromes</li> <li>- Which snake causes what?</li> <li>- Indications for Antivenom?</li> <li>- Role and Controversy of Venom Detection Kits</li> <li>- Management Algorithm</li> <li>- Minimum standard of care and which hospital should we go to?</li> <li>- Case examples</li> </ul> <p>Medical Expertise 3.8 Toxicological &amp; Environmental Emergency Presentations TS1.1, 1.5(a-f), 1.8, 1.16, 1.17, 1.18, 2.4, 3.1(b), 3.7            Medical Expertise 2.5 Analysis of Investigations FBC, INR, APTT, D dimer, Fibrinogen, UEC, CK, snake venom detection kits</p>	Charlie Osborne + Allen Daniel
11:30 – 12:00	<b>Australian Spiders</b> <ul style="list-style-type: none"> <li>- Mug shots of Australia's spiders and quiz challenge</li> <li>- Which one's are dangerous</li> <li>- Indications for antivenom</li> <li>- Is it a spider bite? Will it cause a necrotizing wound?</li> <li>- Do I need antibiotics for this?</li> </ul> <p>Medical Expertise 3.8 Toxicological &amp; Environmental Emergency Presentations TS1.1, 1.5(a-f), 1.8, 1.16, 1.17, 1.18, 2.4, 3.1(b), 3.7</p>	Karl Sota
12:00 – 12:15	<b>Journal Club</b> Scholarship and Teaching 1. Critically Appraising and Applying the Evidence TS1.1 – 1.5, TS2.1 – 2.7, TS 3.1 – 3.10, 4.2 – 4.7	Julian Loo Yong Kee
12:15 – 12:30	<b>Department Update</b>	Gaby/Jon
12:30 – 13:00	<b>Break</b>	

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13:00 – 14:00	<p><b>The Great Debate – What is Australia’s most Deadly Animal?</b></p> <p><b>*Prepare arguments for would you rather.....</b></p> <p>Brown Snake - <b>Julian</b></p> <p>Tiger Snake - <b>Charlie</b></p> <p>Taipan- <b>Rozi</b></p> <p>Funnel Webb Spider – <b>Karl</b></p> <p>Box Jellyfish - <b>Dhanuka</b></p> <p>Irukandji - <b>Mostafa</b></p> <p>Cassowary - <b>Lucy</b></p> <p>Saltwater Crocodile - <b>Pathum</b></p> <p>Juvenile Bull Shark - <b>Mahes</b></p> <p>Quakka – <b>Ud</b></p> <p>Queenslanders – <b>Max</b></p> <p>Cone Snail - <b>Maelvin</b></p> <p>Communication 1 Principles of effective communication TS1.2, 1.5, 2.5, 3.3, 4.1, 4.5</p> <p>Communication 2. Communication with colleagues TS 1.2, 1.6, 3.6, 4.7</p> <p>Scholarship &amp; Teaching 1. Critically appraising the evidence TS1.2, 1.3,</p>	Group Discussion (one topic per reg)
14:00 – 15:00	<p><b>Clinical Reasoning and Systems of Thinking</b></p> <ul style="list-style-type: none"> <li>- How to master your mind and get the right answer</li> <li>- Types of bias and how to avoid making mistakes</li> <li>- How to incorporate real time information into reasoning and pivot when required</li> <li>- Role of Ultrasound in real time examination</li> </ul> <p>Prioritization &amp; Decision Making 3. Decision Making TS1.1, 1.2, 2.1, 2.2, 2.6, 3.1, 3.2, 3.5, 4.2, 4.3, 4.4</p> <p>Medical Expertise 2.6 Ultrasound in the Emergency Department TS 3.4, 3.5, 4.4</p>	Dr Darsim Haji

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Week 4: 22/01/25 Location: ED admin teaching room

Theme: Marine Envenomation

Chair: Charith De Silva

Time	Hot Topics	Speaker
10:00 – 11:00	<b>Jellyfish &amp; Siphonophores</b> <ul style="list-style-type: none"> <li>- Types, locations and seasonality</li> <li>- Preventative measures</li> <li>- Harmful vs Harmless</li> <li>- The mighty Irukandji Syndrome</li> <li>- 1<sup>st</sup> aid: Saltwater vs freshwater vs vinegar vs movie stars peeing on each other....</li> <li>- Ongoing general and specific management</li> </ul> <p>Medical Expertise 3.8 Toxicological &amp; Environmental Emergency Presentations TS1.1, 1.5(a-f), 1.8, 1.16, 1.17, 2.4, 2.5, 3.1(b), 3.7</p>	Pathum Ratnayake & Aaron McGinty
11:00 – 12:00	<b>Other Marine poisoners</b> <ul style="list-style-type: none"> <li>- Stone Fish</li> <li>- Stingray</li> <li>- Tetrodotoxin</li> <li>- Ciguatera</li> <li>- Coral</li> </ul> <p>Medical Expertise 3.8 Toxicological &amp; Environmental Emergency Presentations TS1.1, 1.5(a-f), 1.8, 1.16, 1.17, 2.4, 2.5, 3.1(b), 3.7</p>	Maelvin Joshua
12:00 – 12:15	<b>Journal Club</b> <p>Scholarship and Teaching 1. Critically Appraising and Applying the Evidence TS1.1 – 1.5, TS2.1 – 2.7, TS 3.1 – 3.10, 4.2 – 4.7</p>	Lavina Febin
12:15 – 12:30	<b>Leadership drop in/ Department Update</b>	Jon or Gaby
12:30 – 13:00	<b>Lunch</b>	The Cookie Monster
13:00 – 14:00	<b>Radiology</b> <p><b>Potluck mix – Practice your skills from the year</b></p> <p>Analysis of Investigations – Plain radiology images (all), CT images (all), MRI (brain and spinal cord only)</p>	Radiologist Richard Woodford (confirmed)

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14:00 – 15:00	<p><b>Year on end awards!</b></p> <p><b>The Mark Smith Award</b></p> <p><b>Rising Star Award</b></p> <p><b>Registrar's MVP</b></p> <p><b>The Shit Magnet</b></p> <p><b>The Professor</b></p> <p><b>The Patch Adam's award</b></p>	DEMT's
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**Week 5: 29/01/25    Location: ED Admin Teaching Room**

**Theme: Toxicology!**

**Chair: Abrar Waliuddin**

<b>Time</b>	<b>Hot Topics</b>	<b>Speaker</b>
10:00 – 10:45	<p><b>Approach to Risk assessment and Management for overdose (RSIDEAD)</b></p> <p>Role of Poison's Centres</p> <p>Where to look?</p> <p>Anyone can do it (case example)</p> <p>Medical Expertise 3.8 Toxicological &amp; Environmental Emergency Presentations TS1.1, 1.4 (a-h), 1.6(a-e), 1.13, 1.15, 3.4</p>	Mostafa Salem
10:45 – 11:30	<p><b>Toxidromes</b></p> <ul style="list-style-type: none"> <li>- Anticholinergic</li> <li>- Cholinergic</li> <li>- Serotonergic</li> <li>- Stimulant</li> <li>- Opioid</li> </ul>	Esha Sahnan

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	<ul style="list-style-type: none"> <li>- Depressant/ Sedative</li> </ul> <p>Medical Expertise 3.8 Toxicological &amp; Environmental Emergency Presentations TS 1.16, 1.17</p>	
11:30 – 12:15	<p><b>Acids and Alkali Exposure</b></p> <ul style="list-style-type: none"> <li>- Which would you prefer? Difference in behavior between the two</li> <li>- GIT ingestion</li> <li>- Airway exposure</li> <li>- Eye mx</li> <li>- Skin mx</li> </ul> <p>Medical Expertise 3.8 Toxicological &amp; Environmental Emergency Presentations TS2.4, 2.5, 3.2 (b &amp; c)</p>	Chathurika Abeywickrama
12:15 – 12:30	<b>Leadership drop in/ Department Update</b>	Jon or Gaby
12:30 – 13:00	<b>Lunch</b>	
13:00 – 13:30	<p><b>One pill can kill</b></p> <p>Drugs you don't want anywhere near kids</p> <p>Medical Expertise 3.8 Toxicological &amp; Environmental Emergency Presentations TS1.4, 2.3(a)</p> <p>Medical Expertise 3.21 Paediatric Presentations TS3.1</p>	Tristan Hennessy
13:30 – 14:15	<p><b>The Antidotes Quiz</b></p> <p><b>Match the antidote to the poison and explain mechanism of action and indication</b></p> <p>Medical Expertise 3.8 Toxicological &amp; Environmental Emergency Presentations TS1.6(e), 2.4</p>	Lucy Fell
14:15 – 15:00	<p><b>Hot Hot Hot!!! Heat exposure illness</b></p> <ul style="list-style-type: none"> <li>- Hyperthermia diagnosis and accuracy. When to suspect, how to take an accurate temperature</li> <li>- Clinical Signs and symptoms</li> <li>- Vulnerable Patient populations</li> <li>- Heat illness vs Cramps vs Exhaustion vs Heat Stroke</li> <li>- Management strategies</li> <li>- Passive vs active cooling methods: How quick and effective are they?</li> <li>- Mandatory Reporting?</li> </ul> <p>Medical Expertise 3.8 Toxicological &amp; Environmental Emergency Presentations TS1.2, 1.5(a-f), 1.8, 1.9, 1.11, 2.7, 3.5(b)</p>	Leo

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