SIMulatED

Royal Darwin Hospital Emergency Department

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# Scenario Run Sheet: Toxicology: Carbamate + methanol

## Scenario Overview

**Estimated Scenario Run Time:**  15-20 mins

**Estimated Guided Reflection Time:** 30 mins

**Target Group:** ED Registrars and Nurses, SACU and Paediatric registrars

**Brief Summary:** 19 yo with severe carbamate and methanol poisoning, intubated prehospital, requiring early initiation of dedicated antidotes and supportive therapy.

## Learning Objectives

**General**

Resus team work

**Scenario Specific**

Structured approach to life-threatening toxicity, including resuscitation, supportive care and monitoring, risk assessment, antidotes, decontamination and enhanced elimination

Carbamate toxicity management

Methanol toxicity management

## Equipment Checklist

**Equipment**

Odour of organophosphate in room ? ? Autopulse

**Medications and Fluids**

Giving set, 0.9% saline, 5% dextrose, atropine, pralidoxime, adrenaline, noradrenaline, Nabicarb, folate, thiamine, midazolam/diazepam, pyridoxine, MgSO4, ethanol (vodka bottle)

**Documents and Forms**

ED nursing chart, intubation checklist, where’s wally checklist, Lannate chemical info sheet

**Diagnostics Available**

CXR – intubated, patchy atelectasis

VBG – severe HAGMA /HOG

## Scenario Preparation/Later Parameters

**Initial Later**

GCS **3T** RR 30BVM P 70 BP 70/50 GCS **3T** RR 30 HR 120

Sats 90% F 1(wet) T 37.2 BSL gas SaO2 98% (dry) BP 90/60 T 36.2

Pupils 4mm

**Mannequin Features**

Adult male

## Participants

**Staff Actors**

ED Registrars x3 Mother /Father Radiographer

Nurses x3ED, ED /ICU / Toxicology Consultant available by phone

ICU registrar

**Instructor Roles**

- Provide the team with clinical signs, VBG, CXR

## Candidate Instructions/Triage Information

You are informed by the nurse TL that a male in his 20’s is arriving in 10 mins post cardiac arrest. Suspected organophosphate overdose. Found in shed having a seizure, CPR commenced 20 minutes. Patient found with HR 30

## Patient Instructions

**Medical History**:

**Social**

## Proposed Scenario Progression

## Debriefing/Guided Reflection Overview

**General Opening Questions**

* How was the scenario? What happened?

**Scenario Specific Questions**

**General Wrap-Up Questions**

* What did you find most beneficial about this scenario?
* What was the most challenging point in this scenario?
* What would you do differently next time?