

# SIMULATION CASE PT-4

## Learning outcomes:

By the end of this simulation the candidates will:

- Apply the structured approach to trauma management
- Manage the patient with burns

## Simulation focus:

Burn management - 30% partial and full thickness burns to right side of right side of face, neck, and limbs.  
 Hypothermic from excessive cooling.

**Timing:** 0-3 minutes: introduction; remaining time: split equally between simulation and debrief

## Introduction [Environment and Set]

Prior to the start of the simulation: one instructor to:

### 1. [Environment] Brief candidate group to *check the Environment*:

Room	Candidates to set up the room appropriately	
Equipment	Candidates to check required equipment present and accessible	

## Equipment list:

In addition to generic equipment list:

- Appropriate size manikin to be ready for simulation in room and covered until simulation commences
- Cling film
- Warming equipment

### 2. [Set] Give *History*

1 hour before admission a 9 month baby girl pulled a freshly made cup of coffee over herself. Mother has run cold water from the shower over her and a neighbour gave them a lift to the Emergency Department.

*Then leave the room for candidate group to prepare and after 2 minutes, return with instructor team and commence simulation*

## [Dialogue] Simulation

**Initial handover** *{to tell candidate on your arrival with the child as triage practitioner SBAR to Team Leader}*

<b>Situation</b>	Burn	
<b>Background</b>	Burns to right side of face, neck, right arm and right leg. The child is moaning, gurgling and cold to the touch. Wrapped in cold, wet towel. Mother too distraught to comfort her. Estimated weight 8.5kg	
<b>Assessment</b>	A	patent
	B	RR 35 SpO <sub>2</sub> 93 poor trace
	C	HR 160, CR 4
	D	Moaning, Responding to voice
	E	Burns to right side of face, neck, right arm and right leg. Temp 35°C
<b>Recommendation</b>	Needs resuscitation	

**Clinical course** *{to be given as the simulation progresses}*

The gurgling stops with chin lift but recurs if this is discontinued. Airway is maintained by guedel airway. There is some improvement in circulation with a warmed fluid bolus of 10ml/kg x2. Circulation improves further with re-warming i.e. drying, warm blankets and warmed fluid. If child is left exposed she becomes more hypothermic.

### Key treatment points



Preparation	Call trauma team		
	Briefing and allocation of staff		
Airway	Secure airway		
Breathing	Assess		
	High flow oxygen via face mask		
Circulation	Early IV access with wide-bore cannulae		
	IV Balanced Crystalloid bolus - warmed		
Specific therapy	Keep warm		
	Cover the burns (cling film)		
	Give pain relief		
<b>Handover to appropriate colleague</b>	S		
	B		
	A		
	R		

## [Closure] Debrief

Using the learning conversation, carry out the debrief of both the technical and non-technical elements of the simulation.

The debrief will be for the team as a whole and should focus on some or all of the following:

- Technical skills in an A, B, C, D, E format and guided by the KTPs; in particular the safe and effective demonstration of all continuously assessed skills:
  - BLS
  - Defibrillation
  - Airway management
- Non-technical skills, including qualities of team membership and leadership:

Team members	<ul style="list-style-type: none"> <li>• Clear communication</li> <li>• Respect</li> <li>• Flexibility</li> <li>• Assertiveness</li> <li>• Ability to listen</li> </ul>
Team leaders	All of the above, plus <ul style="list-style-type: none"> <li>• Full overview of all aspects associated with child, parents and team</li> <li>• Prioritises according to KTPs</li> <li>• Summarises and re-evaluates</li> </ul>

- Feedback on Environment, where required

At the end of the debrief, give the opportunity for candidates to ask questions, answer these and then summarise the key points

## Assessment

Refer to the *Instructor guidance on simulations* document for a guide to the assessment of the simulation station. These assessments should be documented on the paper-based or electronic system for the final faculty meeting. Any scores of *serious concern* should be reported immediately to the course director.