

Information for facilitators

This teaching session is designed to be delivered by the roadside to a small group. It generally runs for 20 minutes followed by a debrief of approximately 20-25 minutes (40-45 mins total).

Aim

The aims for this session is to manage a paediatric patient in cardiac arrest – providing effective clinical leadership and appropriate ongoing care.

What you will need

There are THREE components to this session:

Page 2 contains **background information** that can be read to the group and an expected sim progression.

Page 3 contains **details of the scenario** with expected progression for the sim technician.

Page 4 contains the **checklist for facilitators** to fill out during the scenario and a list of equipment required.

Introduction

“You are responding to a Category 1 call of a 6-month-old child that is reported to be not breathing.”

Expected Progression

- Assessment and management of a 1 year old in cardiac arrest.
- Optimise ventilations and ensure good quality chest compressions.
- Achieve vascular access and continue ALS.
- Will remain asystole.
- Recognise requirement for SUDIC process in hospital.

Case title	Paediatric cardiac arrest			Sim no.	PRU 17
Setting	Inside	Patient age	6/12	Patient sex	M
Diagnosis	SIDS			Curriculum code	
Injuries	<ul style="list-style-type: none"> • Non-visible • Evidence of 'stiffness to limbs' • Mum woke up and found infant not breathing next to her in bed 				
Staff required	1 x PRU Paramedic, 1 x PRU Doctor, Ambulance staff, Parent				
Learning objectives	<ol style="list-style-type: none"> 1. Expertly manage paediatric arrest 2. Ensure optimal ALS in progress 3. Advanced decision making with regards to hospital transfer 				

INITIAL SETUP

Observations				Arrival route	N/A
HR	Asystolic	GCS	E 1 V 1 M 1 = 3/15	Carers?	Parent
RR	Apnoeic			Visible external findings: Nil.	
SpO2	UTR	Pupils	(L) 5mm (R) 5mm	Progression: On arrival in cardiac arrest. Stiffness to limbs if examined unlikely to be noted immediately.	
BP	UTR	Temp	34.9°C	No response to intervention. Key to focus on excellent ALS practice on scene and avoid 'scoop and run' approach (the ambulance staff on scene should push for this).	
CRT	>5 secs	Weight	Estimated at 7 kg	No response to ALS and can discuss the possibility of declaring on scene and the SUDIC process.	
Glucose	2.3				
Equipment on arrival	Standard response bags	Additional info	Infant mannequin.		

DOMAIN	TASK	TIME	DONE
Preparation	Role allocations		
	Disposition discussions		
Initial Actions	Scene safety		
	Information gathering		
	Introductions to individuals on scene		
	Early update to control and further resources		
Assessment	A-E assessment		
	Rapid confirmation of arrest		
	Identification of futility		
Interventions	Airway management		
	Chest compressions		
	IV access		
	Adrenaline		
	Compassionate interactions with parent		
	Glucose bolus		
Decision-Making	Rapid identification of management priorities		
	Expert leadership		
	Decision with respect to hospital transfer		