

ALS/Illness Scenario 1 Refresher Course

This is a Teaching Scenario. Some flexibility in how it progresses is possible according to individual learner needs.

History {initial candidate briefing prior to arrival of child}

You are working in an emergency department. The ambulance calls and tell you they are bringing in a 12 month old infant who has had bloody diarrhoea. Her local doctor has been managing her. Today she has become very drowsy and the local doctor called the ambulance.

Estimated weight 9 kg.

Initial impression {provide information as candidate assesses child and applies monitoring}

As the ambulance crew arrive at the hospital the child suddenly becomes blue and unresponsive.

Clinical Course (to be given to candidate as they progress)

Initially she is not breathing and has no pulse. ECG shows VF.

ROSC after CPR, VF protocol including, DC shocks x3, adrenaline and amiodarone.

If electrolytes are requested K is 9.8 mmol/L. BSL 4.3 mmol/L.

Seeking further advice or methods to treat hyperkalemia should then follow.

INSTRUCTORS INFORMATION

Key Treatment Points

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Airway	Establish airway patency	
	Consider LMA/iGel/intubation or arrange for intubation	
	High flow O ₂ via face mask when spontaneous ventilation	
	and ROSC. Titrate O_2 flow to SpO_2 94-99%.	
Breathing	BVM ventilation with 100% O ₂	
Circulation	VF protocol.	
	IV access, electrolytes and BSL	
	10 ml/kg fluid bolus	
Specific Therapy	Search for reversible cause of VF.	
	Treatment, advice for hyperkalemia.	

Diagnosis: VF arrest due to hyperkalemia caused by acute renal failure (child has Haemolytic Uraemic Syndrome)



Learning objectives

At the end of this session participants should be able to:

- Apply the structured approach to management and diagnosis during cardiac arrest
- Perform BLS/ALS effectively and safely
- Recall and apply the VF/VT ALS algorithm in their own practice
- Recall and apply the 4 Hs/Ts in their own practice
- Recall and apply the acute management of severe hyperkalemia

Points for Discussion/Resources

Given history of diarrhoea a fluid bolus would be a desirable treatment between shocks.

APLS 7th Ed Hyperkalemia Management Algorithm

