

ALS/Illness Scenario 2 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}

Sam, a 4 month old infant, is brought into the Emergency department by his parents. He has a 2 day history of cough and wheeze. On arrival he is pale and floppy. He was born at 28 weeks gestation and was in NICU for 8 weeks with lung disease. Estimated weight 4 kg.

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

Unresponsive, pulseless and apnoeic.

Clinical Course {to be given to candidate as they progress}

Initially the infant has a severe bradycardia (SR, 45), apnoeic and unresponsive which rapidly deteriorates to asystole until ventilation with oxygen and chest compressions are established and two doses of adrenaline have been given. A slow sinus rhythm rapidly becomes a sinus tachycardia with good output. Temperature 34.8.

INSTRUCTORS INFORMATION

Key Treatment Points



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 94-98%.	
Breathing	BVM ventilation with 100% O ₂	
Circulation	Asystole protocol	
	IV/IO access	
General Therapy	Uninterrupted BLS	
	Rewarm	

Diagnosis: Severe bradycardia. Asystole. Hypoxia secondary to apnoea from bronchiolitis. Hypothermia

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 severe bradycardia and asystole ALS algorithm in their own practice
- Recall and apply the management of severe bronchiolitis in their own practice

Potential Issues to be Discussed, instructor resources

- Management of severe bradycardia and asystole
- Management of severe bronchiolitis
- Apneae in neonates
- [PREDICT Bronchiolitis Guidelines Australasia](#)