

# Illness Scenario 6 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)

A 4 year old girl is brought in by ambulance from the GP clinic. The paramedics have communicated that the child is shocked, febrile and with a decreased conscious state. Estimated weight 20 kg.

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

Child moaning and flushed on arrival. She is not speaking and lying very still.

## **Additional History & Observations**

History of lethargy, fever, cough for the past 24 hours. HR 154, RR 42, CRT 5 sec. Feels hot to touch (temp 39.7).  $SpO_2$  85% in air. BP 70/46. PEARL.

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

As the assessment progresses the child stops moaning, and upper airway obstructive sounds develop with decreasing  $O_2$  sat. Airway opening manoeuvres, oropharyngeal airway and BVM ventilation are required to clear airway and improve  $O_2$  sat.

Circulation improves with 2 fluid boluses and commencement of inotropes.

For more advanced participants O<sub>2</sub> sat slow to improve until IPPV with PEEP instituted.

VBG; pH 7.15, PCO<sub>2</sub> 45 mmHg, PO<sub>2</sub> 50 mmHg, HCO<sub>3</sub> 12 mmol/L, Lactate 5.2 mmol/l.

#### INSTRUCTORS INFORMATION

## **Key Treatment Points**

Airway & Breathing	Airway opening and oropharyngeal airway.  High flow O2 via face mask commenced early  Titrate O2 therapy to SpO2 94-98% when stable	
	BVM ventilation Arrange for intubation or intubate	
Circulation	IV access	
	Fluid bolus 10 mls/kg, up to 20-40 mls/kg	
	Commencement of inotropes	
	Bloods for FBC, U&Es, BGL, VBG and cultures.	
Specific Therapy	IV Broad-spectrum antibiotics.	
	Consult ICU	

Diagnosis: Pneumococcal pneumonia, septic shock



## Learning objectives

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

- Apply the structured approach to assessment, management and diagnosis of septic shock and pneumonia
- Recall and classify the potential causes of hypoxemia
- Recall and apply the principles of management of sepsis and pneumonia in their own practice

### Potential Issues to be Discussed/Resources

- https://www.rch.org.au/clinicalguide/guideline\_index/Community\_acquired\_pneumonia/
- CPG Sepsis Paediatric Improvement Collaborative
- Management of sepsis
- Rapid sequence induction and respiratory/hemodynamic optimisation