

P6– Case management Bronchiolitis 31/1/13

Scenario:	Patient:	Simulator			
Bronchiolitis	6 month old Zara	Zara			
Case Summary:		Participant Briefing:			
Zara is a 6 month old girl who has been unwell for the past 3 days with an upper respiratory tract infection, cough, increasing shortness of breath and difficulty with feeding. She has had reduced numbers of nappies and is lethargic on presentation. She was a premature birth with several weeks in the special care nursery for respiratory difficulty. Her brothers suffer from asthma, but she has nil other medical problems. She has had all her immunizations and takes no regular medication. She is hypoxic and has several apneaic episodes requiring assisted ventilation (BVM, high flow, intubation).		Zara, 6 month old girl with 3 days of fevers, cough and increasing shortness of breath. Her mother has noticed she has had difficulty feeding this morning.			
Clinical Issues		Human factors / Non technical issues			
Structured approach to assessment of the infant with shortness of breath. Management of bronchiolitis in 6 month infant		Team preparation & resource allocation Team communication Communication with child & parent			
Learning Objectives:	Learning Objectives:				
Communicate with child & parent appropriately					
Demonstrate a structured assessment of a child					
Interpret findings & manage appropriate Communicate effectively in a team	tely				
Faculty Actors: Parent					
Patient Moulage: Normal baby clothes					









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Equipment & Props:

EdWISE Paediatric box

Zara manikins

Paediatric charts for local setting

Paediatric normal values chart

Patient presentation	Expected response by participants	Faculty /Actors Notes
Initial Presentation Drowsy and lethargic Airway clear RR 55, decreased breath sounds, recession ++ ,exp wheeze & crackles SaO2 90%; HR 170; BP 80/60, Cap refill 3 secs, T 36	Initial assessment Role allocation Structured approach to assessment and management Including application of oxygen, IV access, IVF Investigations - FBC/UEC/VBG/BSL/CXR Effective communication with mother	Distressed mother, who can provide further history - runny nose for three days, shortness of breath with wheezy cough last two days getting worse, gave child brothers ventolin this morning because she was so bad, didn't help. Decreased oral intake today, less than half or usual input, can't recall last nappy change. Attends day care, born premature, family history of asthma. Mother should ask appropriate questions regarding management









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Progression Deteriorates despite interventions - becomes unresponsive, SaO2 86%; RR 20 – with apnoea every 40 seconds for 20 seconds HR 90; CR 4secs BP 70/20 BGL 3.0 mmols	Should prompt team to assist breathin BVM Consider other forms of ventilation sur High flow nasal prongs/ bubble CPAP/Neopuff Consider need to intubate & call for he beyond skill set	pport –	Mother anxious and asking questions			
VBG pH 7.35, PCO2 73, PO2 68 BE -4, lactate 4 Progression O2Sats increase to 98% with effective BVM HR 160 CR 3secs BP 80/60	Reassess after treatment given Consider appropriate place to care for child NETS		Communication with mother on progress & plans Faculty at simulation centre to respond as NETS/Paediatric support and provide advice appropriate to team and resources available.			
Debrief Guide						
Key clinical issues		Key non technical issues				
Changing priorities with deteriorating child, recognizing lack of improvement (deterioration) Management of the child with bronchiolitis.		Team work and communication. Communication with mother. Handover to senior staff via telephone input.				





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