

Scenario

SUMMARY

Setting: Emergency Department

Clinical focus: 4 month old with bronchiolitis

Situational factors: Ex preterm infant

Learning Objectives :

Initial assessment of an unwell neonate

Understanding of differential diagnoses for respiratory distress in a baby – maintain broad differential including cardiac / metabolic disorder

Awareness of the UHL and NIC guidance for management of bronchiolitis

STAGE DESIGN /PROPS / TECHNICAL SET UP

Sim baby.

BRIEFING TO PARTICIPANTS : Scene

A 4 month old baby is brought to the ED by his parents. They report he has been snotty and off feeds for the last few days and today has vomited after each breast feed and has developed difficulty with his breathing.

PRESENTATION	EXPECTED RESPONSE	ACTORS NOTES
		Parent (If available): Helpful Faculty nurse: Helpful
<p>Examination: A: Patent B: RR 60, Sats 89% in air, recessions and tracheal tug C: HR180, CRT 2 sec centrally D: BM 5, Temp 37°C E: No rashes</p>	<p>ABCDEFGH Specifics: High flow oxygen</p>	<p>O2 – high flow If further history taking reveal he is an ex preterm infant who was born at 35 weeks and spent 2 weeks in SCBU establishing feeds. Breast fed</p>
<p>Progress – Improves: Sats improve to 96% in oxygen Tracheal tug improves, remains with recessions. HR improves to 160.</p>	<p>Consider cardiac and metabolic diagnoses Consider placing NG tube for feeding Discuss with CAU spr</p>	<p>If cap gas taken pH 7.44 pCO2 3.5 pO2 12 BE -3 Lactate 1.2 Glucose 5 If CXR taken nil focal</p>
<p>Progress – Deteriorates: Worsening respiratory distress – may start to have apnoeas</p>	<p>Call for senior help</p>	<p>Remain helpful</p>
DEBRIEF	CLINICAL	CRM
As required based on identified issues/frames	Resp/cardiac/metabolic	

Sample No.: S1234567
Patient ID:
Name: Percy Chuggington
Comments:

Rack: _____ Tube: _____ 12:34:35
Ward: _____ Dr.: _____
Birth: _____ Sex: _____
Inst.ID:XS-800i^65614

WBC	8.2	[10 ⁹ /L]	
RBC	2.08	[10 ¹² /L]	
HGB	145	[g/L]	
HCT	0.184	[Ratio]	
MCV	88.0	[fL]	
MCH	29.8	[pg]	
MCHC	339	[g/L]	
PLT	200	[10 ⁹ /L]	
RDW-SD	42.4	[fL]	
RDW-CV	14.0	[%]	
PDW	11.3	[fL]	
MPV	10.5	[fL]	
P-LCR	27.7	[%]	
PCT	0.18	[%]	
NEUT	4.2	[10 ⁹ /L]	65.5
LYMPH	2.75	[10 ⁹ /L]	15.6 *
MONO	1.58	[10 ⁹ /L]	9.0 *
EO	0.04	[10 ⁹ /L]	0.2 *
BASO	0.03	[10 ⁹ /L]	0.2

Actions required

- Normal
- Abnormal but no immediate danger
- Significantly abnormal results -
patient in imminent danger

document STAT actions taken

NPT samples
processed by _____

NPT results _____



Measurement report

2:52

Serial number : 19241

Instrument ID : LRI A&E 1

Operator ID : blood

Leicester Royal Infirmary A&E

Pat. ID	S1721567		
Last name	Chugginton		
First name	Percy		
Blood type	Venous		
FIO ₂	0.21		
pH	7.44 (-)	[7.350 -	7.450]
PCO ₂	3.50 kPa	[4.27 -	6.40]
PO ₂	12 kPa (-)	[11.07 -	14.40]
BE	-3 mmol/L		
cHCO ₃ ⁻	20 mmol/L		
Na ⁺	137 mmol/L	[136.0 -	145.0]
K ⁺	4.0 mmol/L	[3.50 -	5.10]
Ca ²⁺	1.3 mmol/L	[1.150 -	1.330]
Cl ⁻	106 mmol/L	[98.0 -	107.0]
Glu	5.0 mmol/L	[3.5 -	5.3]
Lac	1.2 mmol/L	[0.4 -	0.8]
Urea	3.5 mmol/L	[2.5 -	6.4]
AG	18.2 mmol/L		
Osm	288 mOsm/kg		
Hct	45 % (-)	[36.0 -	53.0]
Hct(c)	45 %		
tHb	145 g/L	[115.0 -	178.0]
SO ₂	78 %	[94.0 -	98.0]
COHb	1 %	[0.0 -	3.0]
MetHb	1.4 %	[0.0 -	1.5]
HHb	2.5 %	[0.0 -	2.9]
O ₂ Hb	38 %	[94.0 -	98.0]
Bili	Out of range (-)	[51 -	850]

