

FELLOWSHIP Neonatal SAQ

1.

A 7 day old baby boy is brought to your emergency department by his mother, as she is concerned that he looks jaundiced. The total serum bilirubin is 388  $\mu\text{mol/L}$  (normal range 0-15 $\mu\text{mol/L}$ ).

List three features of benign physiological jaundice

i)

ii)

iii)

List six causes of jaundice that you are concerned about with this neonate.

i)

ii)

iii)

iv)

v)

vi)

List eight features on history that you are particularly interested in for this neonate.

i)

ii)

iii)

iv)

v)

vi)

vii)

viii)

List five features on clinical examination that you would focus on in this neonate.

i)

ii)

iii)

iv)

v)

List eight specific investigations that you would consider performing on this neonate.

i)

ii)

iii)

iv)

v)

vi)

vii)

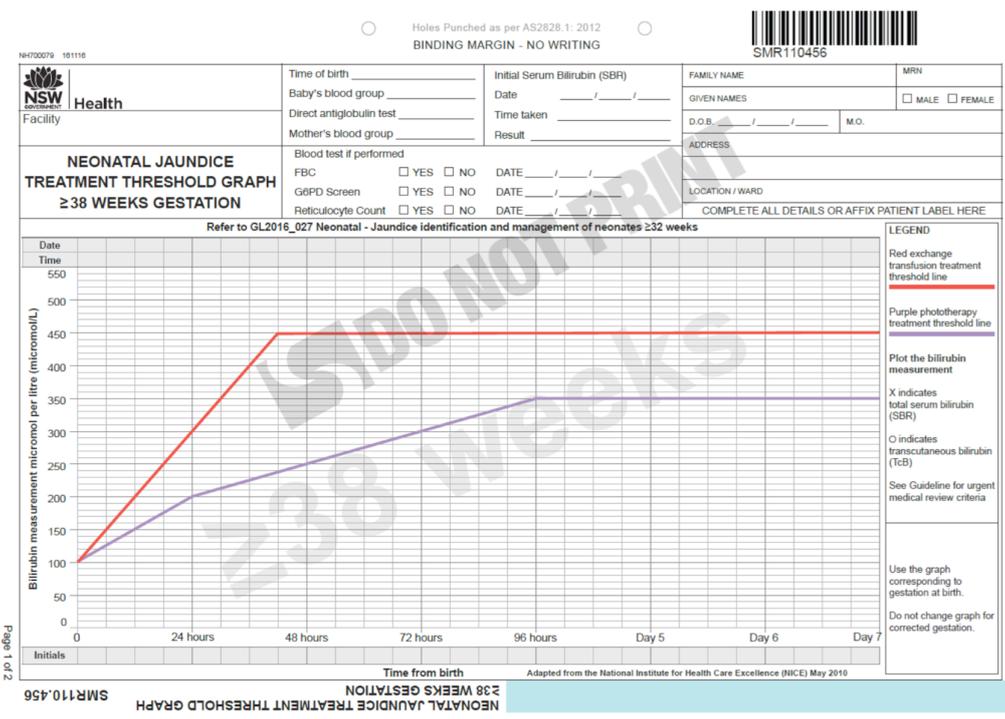
viii)

Below is the bilirubin treatment graph for term babies.

GL2016\_027

Issue date: November-2016

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Attachment 1 : Neonatal Jaundice treatment threshold graph 38 weeks gestation

List five features of your management of this neonate.

- i)
- ii)
- iii)
- iv)
- v)

2.

3-month-old girl presents with increasing vomiting since the first week of life. After initially gaining weight, she has fallen back to her birth weight of 2.9kg. Her vomits are milky, she is usually hungry for feeds but today she is lethargic. She saw her GP and a paediatrician last month and was commenced on omeprazole 10mg bd. On examination she is cachectic with sunken eyes but normal capillary refill.

Venous blood gas shows:

pH	7.8		(7.35-7.45)
PCO <sub>2</sub>	51	mmHg	(32-45)
HCO <sub>3</sub>	79.8	mmol/L	(24-31)
B.E.	30	mmol/L	(-3-3)
Na	135	mmol/L	(137-146)
K	2.0	mmol/L	(3.5-5.0)
Cl	<60	mmol/L	(98 – 106)
Glucose	3.3	mmol/L	(3.0 – 7.8)
Lactate	3.7	mmol/L	(0.5 – 2.2)

List and interpret 5 abnormalities in this baby's blood gas analysis.

	Abnormality	Interpretation
1		
2		
3		
4		
5		

You strongly suspect that the baby has hypertrophic pyloric stenosis.  
List and discuss 5 differential diagnoses you would consider in this case.

	Differential diagnoses	Discussion
1		
2		
3		
4		
5		
6		

- i)
- ii)
- iii)
- iv)
- v)
- vi)
- vii)
- viii)
- ix)
- x)