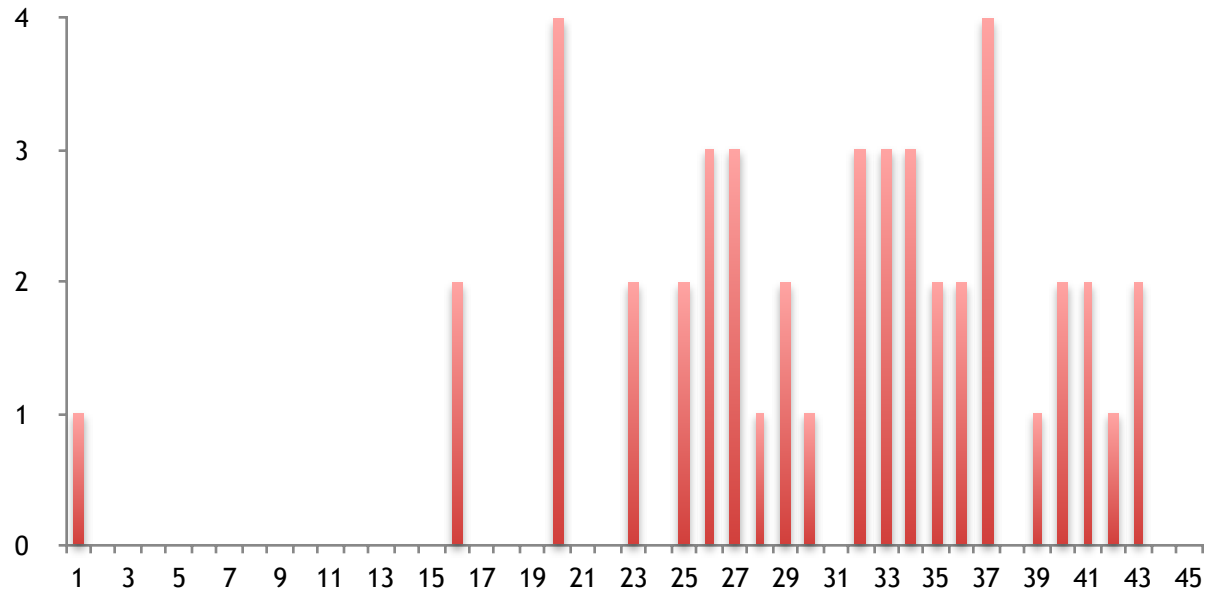


Q 16 & 17

- Neonatal resus Q's
- Core knowledge
- ANSWER THE QUESTION, not just display knowledge you have
- Mark /44
- 3 clear groups:
 - Those who know facts well with good exam technique = 38+ **all good, few exam technique improvements**
 - Those who have some facts & use clinical acumen and exam technique = 31-38 **review topic ++**
 - Those who don't know facts and struggled with exam technique = < 30 **review topic +++ & need many more Qs**



16 i

You are in a **non-tertiary** hospital Emergency Department with **no paediatric service**. You are called urgently to the **resuscitation area**. A 30 year old woman at **39 weeks gestation** has just arrived in the department and is in **advanced labour**. A **colleague with obstetric experience is managing the patient and delivery**. Your role is to **manage the infant** post delivery.

- i. List the five (5) **key examination** features in assessment of the infant and provide details of your **examination**.

16 i

You are in a **non-tertiary** hospital Emergency Department with **no paediatric service**. You are called urgently to the **resuscitation area**. A 30 year old woman at **39 weeks gestation** has just arrived in the department and is in **advanced labour**. A **colleague with obstetric experience is managing the patient and delivery**. Your role is to **manage the infant** post delivery.

i. List the five (5) **key examination** features in assessment of the infant and provide details of your **examination**.

- Median 12/ 15
- Many received full marks or 14/15
- 10 received < 10 (poor)

16 i

You are in a **non-tertiary** hospital Emergency Department with **no paediatric service**. You are called urgently to the **resuscitation area**. A 30 year old woman at **39 weeks gestation** has just arrived in the department and is in **advanced labour**. A **colleague with obstetric experience is managing the patient and delivery**. Your role is to **manage the infant** post delivery.

i. List the five (5) **key examination** features in assessment of the infant and provide details of your **examination**.

- Essentially an APGAR at 1 min with detail
- Assessment!
 - Eg Heart rate: auscultate heart or palpate umbilical stump
 - > 100 = Ok
 - 60 - 100 = cardioresp. distress
 - < 60 = cardioresp. significant embarrassment / arrest
- NOT management
 - NOT: HR > 100- no intervention
 - 60- 100 assisted ventilation required
 - < 60 CPR

16 ii

The infant is born and is cyanosed with no respiratory effort. List five (5) key steps in your management in the first **2-3 minutes**.

- Median 5/5 (!) 25/ 46 received full marks
- BUT many wrote far too much and described 10-15 min management not 2-3.... so ++++++ wasted time

16 ii

The infant is born and is cyanosed with no respiratory effort. List (5) key steps in your management in the first **2-3 minutes**.

- 10% of newborns require some assistance to begin breathing at birth
- < 1% require extensive resuscitative measures

16 ii

The infant is born and is cyanosed with no respiratory effort. List five (5) key steps in your management in the first **2-3 minutes**.

- 10% of newborns require some assistance to begin breathing at birth
- < 1% require extensive resuscitative measures
- Simple but **IMPORTANT** things (each worth a mark):
 - Dry
 - Warm
 - Stimulate
 - Head position to optimise airway
- Assisted ventilation is the key if these fail (and gives 5/5)
- CPR maybe at ~2- 3 min if ventilation unsuccessful
- **Intubation and drugs will not be within the first 2-3 min**

17 i

There is no response to your initial measures. The infant is in a **resuscitation bay** and your **resuscitation team** is assembled. A nearby **paediatric service is notified** by your assistant. **A nurse is caring for the father**. List and outline your six (6) key management steps over the next 20 minutes.

17 i

There is no response to your initial measures. The infant is in a **resuscitation bay** and your **resuscitation team** is assembled. A nearby **paediatric service is notified** by your assistant. **A nurse is caring for the father**. List and outline your six (6) key management steps over the next 20 minutes.

- Median 11 / 18
- 5 zeros
- 6 others ≤ 5
- You can't afford this from a single question

17 i

There is no response to your initial measures. The infant is in a **resuscitation bay** and your **resuscitation team** is assembled. A nearby **paediatric service is notified** by your assistant. **A nurse is caring for the father**. List and outline your six (6) key management steps over the next 20 minutes.

- No marks for repeating the red steps
- Specific knowledge is required
- ...but if you don't have this - use your adult resus knowledge
 - Many did not do this
 - 19/46 candidates < 10/18 marks
- Errors:
 - Intraosseous rarely indicated- use umbilical vein
 - Careful with drug doses- 1 fatal error with adrenaline dose
- See model answer and review ARC guidelines/ algorithms

17 ii

You have successfully resuscitated the neonate. They are intubated and cardiovascularly stable. They are, however, **persistently hypoxic** at **85%** on **100%** FiO₂.

ii. List six (6) possible causes for this persistent hypoxia.

17 ii

You have successfully resuscitated the neonate. They are intubated and cardiovascularly stable. They are, however, **persistently hypoxic** at **85%** on **100%** FiO₂.

ii. List six (6) possible causes for this persistent hypoxia.

- Median 5/6

17 ii

You have successfully resuscitated the neonate. They are intubated and cardiovascularly stable. They are, however, **persistently hypoxic** at **85%** on **100%** FiO₂.

ii. List six (6) possible causes for this persistent hypoxia.

- Use your adult knowledge (if you feel lost) !!!
 - PTX, main bronchus intubation, aspiration (meconium), tube secretions etc = marks
 - Remember RMB = LMB in paed (all who thought of said “RMB” - not wrong, but be aware = likelihood in paed)
- “equipment failure” is not good enough
 - Oxygen source problem- unlikely to remain at 85%
- “Congenital heart disease” or “congenital lung disease” = ½ mark
 - Give example for 1 mark