

9. If you have given ventilations to a newborn requiring resuscitation for one minute, what step should be taken next?

- a. The helper needs to establish IV access and push bicarbonate for the Circulation.
- b. Give oxygen by facemask and re-check the pulse within 30 seconds
- c. Listen for the pulse and if less than 60 begin chest compression at a rate of 3:1 breath
- d. Chest compressions are to be started at a rate of 3:1 for all babies who are not breathing
- e. Give ventilations at a rate of 80 breaths per minute so as to achieve faster ventilations

10. The newborn baby warm chain includes:

- a. Provision of a clean and warm surface
- b. Immediate bathing of the baby to make the baby clean
- c. Immediate drying of the newborn baby
- d. Wrapping the baby and giving it to the mother quickly after birth
- e. Putting the baby to the mother's breast

11. Regarding heat loss by the newborn, the following statements are true, except?

- a. Turning on the radiant warmer protects the baby from heat loss by radiation
- b. Drying the baby prevents heat loss by evaporation
- c. Pre-warming the towels prevent heat loss by conduction
- d. Covering the baby prevents heat loss by convection
- e. Liquid paraffin massage prevents heat loss by evaporation

12. Which statement is true? When resuscitating newborn infants:

- a. Oxygen is never needed
- b. Oxygen should be attached to the Bag-Valve-Mask device and used as a routine
- c. Oxygen is known to be completely safe
- d. Oxygen is not needed routinely but should be available if required
- e. Aim at Oxygen saturations above 90% within the first minute after birth

13. Which statement is true? When performing a newborn resuscitation:

- a. Give 3 breaths for every one compression in the newborn
- b. Give 15 breaths to every 2 compressions in the infant
- c. Give 2 breaths to every 15 compressions in the newborn
- d. Compressions are required in newborns with a heart rate of <60 beats per minute
- e. Aim at giving 60 breaths per minute within the first minute of resuscitation

14. Regarding the newborn baby. Select the most suitable first action. You walk into the delivery room as a baby is being delivered. The birth assistant clamps and cuts the cord. She passes you the baby. As you carry the wet baby to a flat surface you notice it hasn't taken a breath and that there is no meconium around the face.

- a. Dry and stimulate the baby
- b. Give inflation breaths
- c. Pass the baby for skin-to-skin
- d. Place the head in the neutral position
- e. Start chest compressions

15. What are the initial steps of resuscitating a newborn:

- a. Dry, assess colour, tone, cry, cover and position airway
- b. Position airway, give breaths with Chest compressions (1:3), IV Adrenaline
- c. Suction airway, position airway, assess breathing and activity, give 5 breaths
- d. Dry and cover, insert Guedel airway, clean airway, give breaths with chest compressions (1:3)
- e. Call for Help, Start ventilation 30 breaths/min

Appendix II: Questionnaire for audit criteria 2

Audit of structures

ITEM	1	2	3
Warming device for room or resuscitaire			
Two warm towels			
Hands washing facilities or hand sanitizer			
Cord clamps available			
BVM available for delivery and clean			
Suction device available for delivery and clean			
Suction catheters available and clean			
Resuscitation starts within one minute of birth if needed			
TEO available for eye prophylaxis			
Chlorhexidine available for cord care			
Baby placed skin to skin with mother			

1 = Not available

2 = partially available/available and not ready for use

3 = available and ready for use

Appendix III: Questionnaire for audit criteria 4

MARAGUA DISTRICT HOSPITAL

1. **Place of delivery:**
Maragua DH [] Referral [] Empty []

2. **Mode of delivery:**
SVD [] CS [] Empty []

3. **Time of delivery:**
Day 7am – 7pm [] Night 7pm – 7am [] Empty []

4. **Gender:**
Male [] Female [] Empty []

5. **Birth weight:**
<1500g [] 1500g – 2500g [] >2500g [] Empty []

6. **APGAR score:**
1 min [] 5 min [] 10min [] Empty []

Appendix IV: Questionnaire for audit criteria 5

MARAGUA DISTRICT HOSPITAL

1. **Place of delivery:**
Maragua DH [] Referral [] Empty []
2. **Mode of delivery:**
SVD [] CS [] Empty []
3. **Time of delivery:**
Day 7am – 7pm [] Night 7pm – 7am [] Empty []
4. **Gender:**
Male [] Female [] Empty []
5. **Birth weight:**
<1500g [] 1500g – 2500g [] >2500g [] Empty []
6. **APGAR score:**
1 min [] 5 min [] 10 min [] Empty []
7. **Resuscitation done:**
Yes [] No [] Empty []
8. **If resuscitation done, tick all that apply:**
Stimulation [] Use of suction device []

Use of bag valve mask device [] Oxygen []

Chest compressions [] Empty []
9. **Outcome of delivery and resuscitation efforts:**
Alive [] Dead [] Unknown []

Appendix V: Educational material for basic newborn resuscitation skills for healthcare providers

Lecture on newborn resuscitation (resources from www.idoc-Africa.org)