Appendix B

Neonatal Resuscitation Knowledge Test

Instruction to candidates:

For each question stem, circle the <u>single</u> best answer from the options provided.

Questions

- 1. Approximately what percentage of newborns will require some assistance to begin regular breathing?
 - a. 1%
 - b. 5%
 - c. 10%
- 2. Approximately what percentage of newborns will require extensive resuscitation to survive?
 - a. 1%
 - b. 5%
 - c. 7%
- 3. The air that fills the baby's alveoli during normal transition contains:
 - a. 21% oxygen
 - b. 40% oxygen
 - c. 100% oxygen
- 4. If a baby does not begin breathing in response to stimulation, you should:
 - a. Provide positive pressure ventilation
 - b. Intubate the trachea
 - c. Perform tracheal suctioning for meconium.
- 5. Restoration of adequate ventilation will usually improve the baby's heart rate
 - a. Rapidly
 - b. Gradually
 - c. Slowly
- 6. True or false: A vigorous term newborn with meconium in the amniotic fluid will need to have his trachea suctioned via an endotracheal tube?
 - a. True
 - b. False
- 7. When deciding which babies need tracheal suctioning, the term 'vigorous' is defined by what 3 characteristics?

- a. Strong respiratory efforts, good muscle tone, heart rate greater than 100 beats per minute.
- b. Strong respiratory efforts, good muscle tone, good skin colour.
- c. Strong respiratory efforts, good skin colour, heart rate greater than 100 beats per minute.
- 8. When suctioning a newborn's nose and mouth with a bulb syringe or suction catheter, the correct order is:
 - a. Mouth, then nose.
 - b. Nose, then mouth.
- 9. Once resuscitation has been initiated, how often is it recommended that the team reevaluate the baby's condition?
 - a. 45 seconds
 - b. 30 seconds
 - c. 60 seconds
- 10. Which of the following is a recommended method of stimulating an apneic newborn?
 - a. Slap the back
 - b. Squeeze the rib cage
 - c. Flick the sole of the foot
- 11. True or false: In the delivery room, the oximetry probe should always be placed on the baby's right hand or wrist.
 - a. True
 - b. False
- 12. True or false: Oxygen saturation should be expected to be >85% by 2 minutes of age.
 - a. True
 - b. False
- 13. You have stimulated a newborn and suctioned her mouth. It is now 30 seconds after birth, and she is still apneic. Her heart rate is 80 beats per minute. Your next action should be:
 - a. Continue stimulation, and give free-flow supplemental oxygen.
 - b. Provide positive pressure ventilation.
 - c. Begin chest compressions.
- 14. The color of which body parts should be used to assess the baby's state of oxygenation?
 - a. Lips, tongue and torso

- b. Hands and feet
- 15. Resuscitation of the term newborn should begin with what percentage of oxygen?
 - a. 21%
 - b. 40%
 - c. 60%
- 16. When ventilating a newborn, you should provide positive-pressure ventilation at a rate

of:

- a. 20 40 breaths per minute
- b. 30 40 breaths per minute
- c. 40-60 breaths per minute
- 17. What initial inspiratory pressure should you aim to begin positive pressure ventilation with?
 - a. 10 cmH₂O
 - b. 20 cmH₂O
 - c. 30 cmH₂O
- 18. The 'S' in MR SOPA stands for:
 - a. Start chest compressions
 - b. Suction mouth and nose
 - c. Saturation probe
- 19. The 'O' in MR SOPA stands for:
 - a. Open mouth
 - b. Oxygen
 - c. Orogastric tube
- 20. When providing positive-pressure ventilation with a mask for more than a few minutes, what device should be inserted to vent gas from the stomach?
 - a. Endotracheal tube
 - b. Meconium aspirator
 - c. Orogastric tube
- 21. You have provided effective positive-pressure ventilation for 30 seconds and the baby's heart rate is below 60 beats per minute. Your next action should be:
 - a. Reposition the head
 - b. Insert an endotracheal tube
 - c. Start chest compressions

- 22. The baby is now breathing and its heart rate is >100 bpm. It is now safe to discontinue positive-pressure ventilation.
 - a. True
 - b. False
- 23. The preferred method of delivering chest compressions is the:
 - a. Thumb technique
 - b. 2-finger technique
 - c. Palm technique
- 24. The correct depth of chest compressions is about:
 - a. One-quarter the anterior-posterior diameter of the chest
 - b. One-third the anterior-posterior diameter of the chest
 - c. One-half the anterior-posterior diameter of the chest
- 25. During positive-pressure ventilation with chest compressions, the rate of total events per minute (compressions plus breaths) should be:
 - a. 60 events per minute
 - b. 100 events per minute
 - c. 120 events per minute
- 26. After 30 seconds of chest compressions, you stop and count 8 heartbeats in 6 seconds.What is the baby's heart rate?
 - a. 48 beats per minute
 - b. 60 beats per minute
 - c. 80 beats per minute
- 27. You have performed the corrective sequence for inadequate positive-pressure ventilation (MR SOPA). The baby's heart rate fails to rise and bilateral breath sounds are not heard while you are using a bag and mask. Which of the following actions is most appropriate?
 - a. Insert an umbilical vein catheter and give IV epinephrine
 - b. Insert a laryngeal mask airway or an endotracheal tube
 - c. Increase the rate of positive-pressure ventilation
- 28. When using an anatomically shaped mask, which end should be placed over the infant's nose?
 - a. Pointed
 - b. Rounded

- 29. When positioning an infant's head for positive-pressure ventilation, which position is appropriate?
 - a. Flexed
 - b. Extended
 - c. Sniffing
- 30. What 3 things must be determined first during your initial neonatal resuscitation assessment?
 - a. Gestational age, respiratory effort or crying, muscle tone
 - b. Muscle tone, presence of meconium, respiratory effort or crying
 - c. Heart rate, gestational age, skin colour