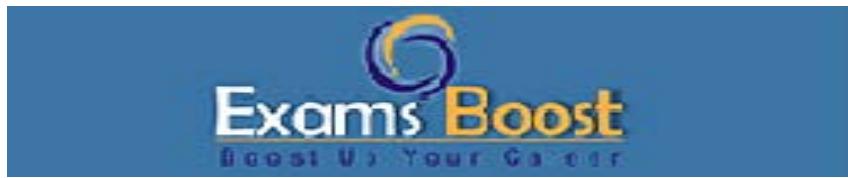


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NCC C-ELBW

Care of the Extremely Low Birth Weight Neonate



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Question: 1

What is the treatment for developmental dysplasia of the hip (DDH)?

- A. Pavlik harness to immobilize infant in flexed position
- B. A recommendation of the AAP for infants born less than 37 weeks
- C. 1. Skin injury to nose
2. Varying oxygen concentrations
3. Drying of nasal mucosa
- D. Immature neutrophils include promyelocyte, myelocyte, metamyelocyte, and bands
Mature neutrophils include polymorphonuclear neutrophils

Answer: A

Question: 2

Where should the pulse oximeter be placed on the infant at delivery for the most accurate Oxygen saturation reading?

- A. 2 and 6 weeks
- B. 134 - 145 meq/l
- C. right wrist (preductal)
- D. complete blood count (cbc)

Answer: C

Question: 3

When can antenatal steroids be administered?

- A. 24 - 28 weeks
- B. 24 - 37 weeks
- C. 12 - 37 weeks
- D. 48 - 37 weeks

Answer: B

Question: 4

What are the three mechanisms related to NEC?

A. Thin, sticky, transparent/translucent, gelatinous/red, visible vasculature

B. 1. Gestational/chronic HTN

2. HELLP

3. Antenatal corticosteroids

4. Magnesium sulfate

5. Maternal analgesia/anesthesia

6. Maternal medications

7. PROM

8. Diabetes

9. Multiple gestation

C. 1. Intestinal ischemia

2. Bacterial colonization

3. Volume feedings

D. Spontaneous: isolated pocket of free air in the pleural space, may be asymptomatic

Tension: addition of new air through the rupture with each breath, resulting in lung collapse and compromised cardiac function

Answer: C

Question: 5

What challenges may be unique to teen parents with an ELBW infant?

A. "Blueberry muffin" appearance caused by purpuric skin lesions that result from extramedullary hematopoiesis

B. The choice of antibiotic agents should be based on the specific organisms associated with sepsis, the sensitivities of the bacterial pathogen, and the prevailing nosocomial infection trends in the nursery.

C. Teen parents often experience:

1. Loss of their peer support group

2. Disruption with their parents and extended family

3. Suffer emotional distress as they have poor coping skills

D. Spontaneous: isolated pocket of free air in the pleural space, may be asymptomatic

Tension: addition of new air through the rupture with each breath, resulting in lung collapse and compromised cardiac function

Answer: C

Question: 6

What steps should be taken to promote proper positioning for neurodevelopment?

- A. 1. Posture
- 2. Square window
- 3. Arm recoil
- 4. Popliteal angle
- 5. Scarf sign
- 6. Heel to ear
- B. "Blueberry muffin" appearance caused by purpuric skin lesions that result from extramedullary hematopoiesis
- C. 1. Identify and treat cause
- 2. Strict I&O
- 3. Daily weight
- 4. Monitor BP, electrolytes, nutrition
- D. 1. Neutral head position
- 2. Log roll when repositioning
- 3. Elevate HOB 30 - 45 degrees
- 4. Shoulders should be gently flexed and softly rounded forward to midline
- 5. Upper back should not be flat or concave
- 6. Position hands close to midline towards trunk/face
- 7. Hips should be in neutral position (avoid hips flexed, abducted, or frogged)

Answer: D

Question: 7

GBS, staphylococcus aureus, and listeria are examples of gram-positive pathogens.

- A. True
- B. False

Answer: A

Question: 8

What is the newborn screen (PKU test)?

- A. To detect early hearing loss to prevent speech, language, and cognitive delays
- B. Gestational HTN is diagnosed after 20 weeks gestation
- Chronic HTN is diagnosed before 20 weeks gestation or before pregnancy
- C. Indomethacin is an NSAID given in the first 12 hours of life to treat (promote closure of) Patent Ductus Arteriosus (PDA)

D. The newborn screen (PKU test) is a blood test done 24 - 72 hours after birth that screens for 21 different metabolic disorders (including PKU)

Answer: D

Question: 9

An infant with renal failure or overwhelming sepsis may result in _____.

- A. Metabolic acidosis
- B. Respiratory alkalosis
- C. Respiratory acidosis
- D. Cholestasis

Answer: A

Question: 10

What is hyperbilirubinemia?

- A. Free flow oxygen from bag-mask or oxygen tubing held near infant's face
Used for short- oxygen delivery in delivery room and/or during care/procedures
- B. Excess of bilirubin in the blood
Elevated bilirubin level > 5 mg/dL
- C. Osteopenia is calcium deficiency and Rickets is vitamin D deficiency
- D. Nearby surfaces are cooler than infant (sides of crib, windows)

Answer: B

Question: 11

How can a NICU nurse care for a family experiencing loss?

- A. 1. Encourage the parents/family to spend time with the baby
2. Offer privacy
3. Mementos
4. Support groups
5. Spiritual support/offer baptism
- B. 1. Positive touch
2. Hand hugs
3. Use rolls/positioning devices to reduce flexed position
4. Hold infant's hand (stimulates the grasp reflex)

5. Offer pacifier
- C. Immature neutrophils include promyelocyte, myelocyte, metamyelocyte, and bands
- Mature neutrophils include polymorphonuclear neutrophils
- D. 1. Should be performed at 4 weeks of life or 31 weeks (whichever is the latest)
2. Repeat every 2 weeks if no ROP
3. Repeat weekly if ROP is present
4. Repeat twice weekly if pre ROP or rapidly progressing ROP is diagnosed

Answer: A

Question: 12

What is the definition of neonatal sepsis?

A. Located at the superior poles of the kidneys

Composed of two organs:

1. Adrenal medulla produces and stores catecholamines

2. Adrenal cortex produces steroids (glucocorticoids, mineralocorticoids, and adrogens)

B. Physiologic develops in 3 - 5 days after birth.

- Resolves in 7 days for and 9-10 days for pre

- Unconjugated bilirubin level <12.9 mg/dL

Pathologic is present at birth or develops within 24 hours

- Persists beyond 7 days

- Bili > 12.9 mg/dL

- Bili > 15 mg/dL pre

C. Systemic bacterial, viral, or fungal infection that occurs in the first 28 days of life with hemodynamic changes that result in significant morbidity or mortality.

D. Premature human milk contains:

1. Higher concentrations of protein, sodium, chloride

2. More lipids, trace elements, vitamins, and energy

3. Lower concentrations of phosphorus and calcium

4. Lower osmolality

Answer: C

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