

IAP Neonatology Chapter Fellowship Exam: January 2015

Paper I

Maximum marks 100

Time: 3 hours

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Note:

- Answer any seven questions out of the following.
- All questions carry equal marks.
- Attempt MCQ on separate answer sheet

1. What is development supportive care? How will you implement in your nursery?
2. Discuss the antenatal prognostic markers and post natal management of Congenital diaphragmatic hernia.

3 Short notes:

- a) Role of functional echocardiography in NICU
- b) Randomization in a clinical trial

4. Discuss principles of lung protective ventilation strategies to reduce VILI (Ventilation induced Lung Injury).

5. Discuss the controversies in defining target oxygen saturation for a preterm infant. Describe the protocol for screening of Retinopathy of Prematurity (ROP).

6. Define PPHN, diagnosis and principles of management.

7. How do you evaluate a newborn with early onset thrombocytopenia. Name common casues.

8. Short notes:

- a) Management of gastro-esophageal reflux
 - b) Screening for Inborn Errors of metabolism
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PAPER 1.....MCQ

(Total marks 30. All questions carry equal marks)

1). Which of the following is true about asymmetric crying facies.

- a) Congenital absence or hypoplasia of the depressor anguli oris muscle (DAOM) is not the most common cause.
- b) Ability of patient to wrinkle the forehead and close the eye equally well on both sides of the face confirms DAOM.
- c) There is no increased risk for concomitant congenital defects and other congenital anomalies.
- d) It may be genetic with an increased incidence among first- and second-degree relatives.

2) Identify the correct statement with reference to shock in newborns:

- a) In ELBW infants a MAP of < 35 has been shown to be associated with reduced cerebral blood flow.
- b) Functional echocardiography is recommended for the bedside management of shock
- c) Milrinone a phosphodiesterase V inhibitor has inotropic and lusitropic activity
- d) Hydrocortisone at 1mg/kg /dose 8th hourly is recommended in vasopressor resistant shock in extreme preterm neonates

3) A primipara is observed feeding her newborn. The nurse reports that the LATCH score is 6. Identify the correct statement.

- a) A mother needs lactation support only on demand.
- b) LATCH score of 6 is good and suggests that the baby is well attached.
- c) Kangaroo Mother Care improves LATCH score
- d) LATCH acronym stands for Latch, Audible swallow, Tongue position, mothers Comfort and Help required.

4) Which of the following is false regarding the CPAP interface:

- a) Nasal prong size is $\frac{3}{4}$ the diameter of nostril
- b) The interface should be sitting on the nasal septum
- c) Cap should fit snugly covering ears and the forehead above the eyebrows
- d) Some blanching of the skin is acceptable while on CPAP

- 5) Which of the following is not true.
- TcB is a useful screening test before hospital discharge of a term healthy newborn
 - Fiber optic phototherapy is as efficacious as compact fluorescent light
 - Efficacy of phototherapy is dependent on intensity, irradiance and surface area exposed
 - If the TcB is greater than 15mg/dl one should cross check it with serum bilirubin
- 6) A 1 kg 36 weeks baby born to a mother with gestational diabetes has recurrent hypoglycemia on day 2, On IV fluids of 10% dextrose at 80 ml/kg/day of 12.5 % dextrose, she has a GRBS of 39 mg %. The CXR shows a CTR of 65 %. The next action will be :
- Order for glucose insulin cortisol levels
 - Get central venous access for increasing the concentration of glucose
 - Increase IV fluids to 100 ml/kg/day
 - Start on diazoxide
- 7) Newborn screening is available for all the following diseases except:
- Hemochromatosis
 - Phenylketonuria
 - Cystic fibrosis
 - Galactosemia
- 8) All the following are benefits of skin to skin contact at birth except:
- Decreased respiratory morbidity at the age of one year.
 - Improved parenting at 1 year
 - Lower stress in the newly born
 - Lower incidence of hypoglycemia
- 9) The India Newborn Action Plan
- Is developed according to the lancet Every Newborn Series
 - Will be implemented as a separate vertical program
 - Aims at single digit NMR by 2030
 - All individual states should attain single digit NMR by 2030
- 10) Which of the following trace elements is required early during total parental nutrition?
- Copper
 - Chromium
 - Zinc
 - Manganese
- 11) The most common side effect of therapeutic hypothermia is :
- Thrombocytopenia
 - Coagulopathy
 - Subcutaneous fat necrosis
 - Arrhythmia

12) All are evidence based approaches to reduce the incidence of CLD except:

- a) Postnatal Steroids
- b) Surfactant
- c) Vitamin A
- d) Caffeine

13) Which of the following is a X-linked inherited disorder

- a) Adrenogenital syndrome
- b) Achondroplasia
- c) Glucose-6-phosphate dehydrogenase deficiency
- d) Turner syndrome

14) Which of the following is not associated with premature rupture of the membranes

- a) Development of premature labor
- b) Cord prolapsed
- c) Placental abruption
- d) Maternal septicemia

15) The following methods of monitoring fetal well-being are of proven value except

- a) Kick charts
- b) Biophysical profile
- c) Doppler study
- d) Cardiotocography

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