BOWEN UNIVERSITY, IWO COLLEGE OF HEALTH SCIENCES FACULTY OF CLINICAL SCIENCES END OF JUNIOR PAEDIATRICS (P1) POSTING EXAMINATIONS 4TH FEBRUARY 2021

TIME ALLOWED: 1HR INSTRUCTIONS:

- 1. Answer all questions.
- 2. Indicate T (for True) and F (for False) against each of the statements below on the answer sheet provided.
- 3. Please do not write or make any marks on the question paper which should be returned with the answer sheet.
- 1. The following are risk factors for neonatal sepsis.
 - A. Rupture of membrane of 7hrs in HIV positive mother
 - B. Transient foetal tachycardia
 - C. Intrapartum maternal fever
 - D. Chorioamnionitis
 - E. Congenital malformation
- 2. The features of hyperkalaemia on electrocardiography include: prolong PR interval, widened QRS complex, tall-peaked T waves. The serum level of potassium can be lowered through the following therapy except:
- A. insulin /glucose infusion
- B. 10% calcium gluconate
- C. Oral kayaxalate
- D. Nebulized Salbutamol
- E. Dialysis.
- 3. A 5-year-old boy presents with fever. Results of urinalysis include 50 to 100 white blood cells per high-power field. The following are correct except:
- A. Positive leucocyte esterase test is diagnostic
- B. May have posterior urethral valves
- C. He may have tuberculosis
- D. Differential diagnosis include appendicitis
- E. Intravenous ceftriaxone is the drug of choice
- 4. The following are symptoms of congenital heart disease
 - a. excessive cry
 - b. Recurrent chest infection
 - c. growth delay
 - d. frequent squatting
 - e. breathlessness

- 5. A 2-year-old presented at the emergency room with 1 week history of nasal discharge, and cough, few days later he developed fever and breathlessness. There was similar history of cough two months ago. The following are true
 - a. pulmonary tuberculosis should be considered
 - b. History of immunisation is very important
 - c. The child could have an underlying heart disease
 - d. Tachypnoea is not usually present in pneumonia
 - e. Chest radiograph is not useful
- 6. Indication for Oxygen therapy in supportive management of Pneumonia include:
 - a) $SaO_2 < 90\%$
 - b) Tachypnoea > 20/min for the age
 - c) Central cyanosis
 - d) Severe lower chest wall in-drawing
 - e. Grunting
- 7. Differential diagnosis of a 4yr old child with cyanosis and effort intolerance includes:
 - a) Tetralogy of Fallot
 - b) Atrial septal defect
 - c) Tricuspid atresia
 - d) Ventricular septal defect
 - e) Asthma
- 8. Common causes of Cerebral Palsy in Nigeria include:
 - a) Severe Birth Asphyxia
 - b) Severe Neonatal Jaundice
 - c) Pyogenic meningitis
 - d) Intrauterine factors
 - e) Poliomyelitis
- 9. Concerning HbSS:
 - a) Dactilytis is a late and infrequent finding
 - b) Fluid restriction is indicated in vaso-occlusive crisis
 - c) Sickling test is used to confirm diagnosis
 - d) Proguanil is indicated for prophylaxis
 - e) Daily Folic Acid and Iron are indicated
- 10. A 5hour old baby delivered at 36weeks 4days gestational age, weighs 1.6Kg at birth. This newborn is at risk of the following except:
 - a) Anaemia of prematurity
 - b) Hyperglycaemia
 - c) Polycythaemia
 - d) Respiratory distress syndrome
 - e) Pulmonary haemorrhage

- 11. A 3-year-old girl presents with a 2-day history of vomiting and diarrhea. She managed to take sips of water and had poor appetite. On physical examination, her temperature is 37.0°C, heart rate is 140 beats/min, respiratory rate is 14 breaths/min, blood pressure is 80/40 mm Hg, and weight is 15 kg. She has very dry mucous membranes and a capillary refill of 4 seconds. Laboratory evaluation reveals:
- Sodium, 131 mEq/L
- Potassium, 1.5 mEq/L
- Chloride, 94 mEq/L (94 mmol/L)
- Blood urea nitrogen, 144.0 mg/dL
- Creatinine, 1.1 mg/dL
- .Specific gravity of 1.030

Which of the following are the MOST appropriate interventions?

- A. Monitor urinary output
- B. 5% dextrose water at 50 mL/hr
- C. 5% dextrose + 0.33% sodium chloride + 20 mEq/kg potassium chloride at 50 mL/hr
- D. 0.225% sodium chloride at a volume of 300 mL over 1 hour
- E. Infusion of 0.9% sodium chloride at a volume of 300 mL over 30min
- 12. The following can be transmitted transplacentally:
 - a) Malaria parasite
 - b) Hepatits A virus
 - c) Human Immunodeficiency Virus
 - d) Hepatits C virus
 - e) Hepatitis E virus
- 13. Concerning the National Programme on Immunisation in Nigeria:
 - a) Oral polio vaccine is given at birth, 4, 6 and 14 weeks of life
 - b) BCG is given intramuscularly at birth
 - c) Measles and Yellow fever vaccines are given concurrently at 6 months of life
 - d) HBV is given subcutaneously on the thigh
 - e) Pneumococcal vaccine is given at 6months
- 14. The following are live vaccines:
 - a) Rubella vaccine
 - b) Measles vaccine
 - c) Inactivated Polio vaccine
 - d) Hib (Haemophillus influenza type b) vaccine
 - e) Yellow Fever vaccine
- 15. Concerning the Pentavalent vaccine:
 - a) It is given intramuscularly at 6, 10 and 14 weeks of life
 - b) Haemophilus Influenza Type C is a component

- c) It is best stored at a temperature of -4 to -20°C
- d) Diphtheria and Pertussis vaccines are components
- e) It is best used when the inner square of the vaccine vial monitor is darker than the outer circle.
- 16. About cardiomyopathies
- a. It is an intrinsic disease of the heart muscle
- b. Hypertrophic cardiomyopathy is the most common form
- c. Dilated cardiomyopathy present with abnormal ventricular systolic function
- d. Infants usually present with signs of heart failure
- e. Infants usually present with sudden death
- 17. Causes of thrombocytopaenia include:
- a) hyposplenism
- b) hypersplenism
- c) massive blood transfusion
- d) haemolytic uremic syndrome
- e) Fanconi anaemia
- 18. Concerning anaemias,
- a. Normochromic normocytic anaemias are seen in chronic kidney disease
- b. Macrocytosis may be seen in children on zidovudine therapy
- c. Microcytic anaemias may be found in iron deficiency anaemia
- d. Macrocytosis may be seen in liver disease
- e. Clinical features may not be seen in haemoglobin levels greater than 7g/dl
- 19. Differential diagnosis of microcytic anaemias include:
- a. Iron deficiency anaemia
- b. Folic acid deficiency
- c. Lead poisoning
- d. Sideroblastic anaemia

e. Thalassamias

20. The following are correctly matched:

- a) Rifampicin Optic neuritis
- b) Isoniazid Ototoxicity
- c) Streptomycin Peripheral neuritis
- d) Ethambutol Colours urine orange
- e) Pyrazinamide Hepatotoxicity

21. Concerning Paediatric HIV/AIDS:

- a) Vertical transmission accounts for most cases in Nigeria.
- b) Primary prevention of HIV infection in women of reproductive age group is an unimportant control measure.
- c) Positive HIV antibodies in an infant is diagnostic of the condition
- d) Positive HIV antibody testing in a 13month old baby is an indication for commencement of HAART
- e) Breast feeding is the commonest route of vertical transmission of the virus.

22. Concerning the clinical features of paediatric HIV/AIDS:

- a) Persistent generalised lymphadenopathy is Stage II disease
- b) Extrapulmonary Tuberculosis is a feature of Stage IV disease
- c) Kaposi sarcoma is an AIDS defining condition
- d) Oesophageal candidiasis is a feature of Stage III disease
- e) Extensive warts infection is a feature of Stage II disease

23. Second line anti-tuberculous drugs include:

- a) Cycloserine
- b) Streptomycin
- c) Capreomycin
- d) Rifampicin

e) Pyrazinamide

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- (a) Heart failure
- (b) Hypoglycaemia
- (c) Polycythaemia
- (d) Anxiety
- (e) Hypothermia

25. Common presentation of Congestive cardiac failure in infancy include:

- (a) Hepatomegaly
- (b) Feeding difficulties
- (c) Pedal oedema
- (d) Tachycardia
- (e) Tachypnoea

26. The followings are common findings in Nephrotic syndrome:

- (a) Mild glycosuria
- (b) Red blood cell casts in urine
- (c) Hypoproteinaemia
- (d) Oedema
- (e) Hyperlipidaemia

27. Common causes of Acute Renal Failure in children:

- (a) Glomerulonephritis
- (b) Nephrotic syndrome
- (c) Haemolytic uraemic syndrome
- (d) Obstuctive uropathy
- (e) Septicaemia

28. Jaundice is seen immediately after birth in

- (a) G-6-P-D deficiency
- (b) Septicaemia
- (c) Rh incompatibility
- (d) Breast milk jaundice
- e) Physiologic jaundice
- 29. Causes of intrauterine growth retardation (IUGR):

- (a) Chromosomal anomalies
- (b) Chronic placental insufficiency
- (c) Malaria in pregnancy
- (d) Pregnancy induced diabetes
- (e) Malnutrition
- 30. Known complications of neonatal polycythaemia include:
 - (a) Hyperbilirubinaemia
 - (b) Renal vein thrombosis
 - (c) Necrotising enterocolitis
 - (d) Hypoglycaemia
 - (e) Hyaline membrane disease
- 31. To identify ABO incompatibility, an infant's blood type and Coombs reactivity is determined when the mother is blood type:
 - (a) A.
 - (b) B.
 - (c) AB.
 - (d) O.
 - (e) Rh -ve.
- 32. The most common cause of congenital adrenal hyperplasia is a deficiency of:
 - (a) 11-hydroxylase.
 - (b) 17-hydroxylase.
 - (c) 21-hydroxylase
 - (d) 17-hydroxylase
 - (e) 18-hydroxylase
- 33. Risk factors for neonatal hypoglycaemia include:
 - (a) Severe perinatal asphyxia.
 - (b) Neonatal sepsis.
 - (c) Polycythaemia.
 - (d) Beckwith-Wiedemann syndrome.
 - e) Hunter syndrome.
- 34. Features of Haemolytic uraemic syndrome include:
 - (a) Dysentery.
 - (b) Acute renal failure.
 - (c) Anaemia.
 - (d) Renal microthrombi
 - e) Hyperkalaemia
- 35. Differential diagnosis of children who present with wheezing
 - (a) Bronchial Asthma.
 - (b) Retained foreign body.
 - (c) Tracheoesophageal fistula.
 - (d) Severe pneumonia.

- (e) All of the above.
- 36. Concerning Vit. D and Calcium metabolism
 - a) Deficient calcium absorption leads to secondary hyperparathyroidism
 - b) Deficient Vit. D leads to craniotabes in infancy
 - c) Treatment of hypocalcaemia requires the use of IV 10% Ca Gluconate /ml/kg to prevent complications
 - d) Vit. D deficiency is a common cause of BLOUNT'S Disease
 - e) The use of calcium supplement is essential in the management of nutritional rickets

37. Concerning Malaria

- a) Artesunate is a 2nd line drug in the treatment of uncomplicated malaria
- b) Chemoprophylaxis is indicated in children who recover from cerebral malaria
- c) Oral quinine is a drug of choice used in cerebral malaria
- d) Severe malaria is common in malnourished children
- e) Acute renal failure is a known complication
- 38. The following defines malaria with life threatening complications:
- a. Positive malaria parasite in a 3-year-old girl with random blood sugar greater than 40mmol/L
- b. Positive malaria parasite in a child with one episode of generalised tonic-clonic seizures in 24 hours
- c. Positive malaria parasite in a 4-year-old child with Hb level less than or equal to 5g/dl
- d. Positive malaria parasite in a 2-year-old child too weak to sit or stand
- e. Positive malaria parasite in a 2-year-old child with severe loss of appetite and 10 episodes of diarrhea in 24 hours
- 39. In Tumor Lysis Syndrome
 - a) Fluid administration at daily maintenance value is adequate
 - b) Allopurinol is useful in preventing it
 - c) Uric acid of 11mg/dl is in keeping
 - d) IV NaHCO3 is used in its treatment
 - e) Can occur in Acute Leukaemia
- 40. Concerning Leukaemias;
 - a) Acute is commoner than chronic in children
 - b) Down's syndrome increases predisposition
 - c) Abnormal bleeding is common in leukaemia
 - d) Blasts in peripheral film is diagnostic
 - e) Fever occurs in most cases
- 41. Concerning Burkitt lymphoma;
 - a) Commoner in the maxilla than in the mandible
 - b) Male > Female

- c) There is generalised lymphadenopathy in endemic type
- d) Modified Ziegler's regimen used in the treatment
- e) Prognosis is better in abdominal than in the jaw form

42. Concerning UTI

- a) All confirmed cases must be investigated
- b) Staph. aureus is the commonest cause in children
- c) Presence of an indwelling catheter is not a risk factor
- d) Co-trimoxazole is the 1st line drug
- e) Bowel training is a preventive measure
- 43. In a 3-month-old infant, the following are correct
 - a) Jaundice is less common in breastfed infants than those on formula feeds
 - b) Breastmilk contains more Vit D than cow milk
 - c) Incidence of URTI is lower in breastfed children
 - d) Breast milk is the best source of iron
 - e) Complementary feeds should be commenced

44. Concerning Acute Hepatitis B

- a) Presence of Anti-HBs Ab indicates immunity
- b) About 10% progress to chronic state
- c) Primary Liver Cell Carcinoma is a complication
- d) Presence of Hbe antigen is a good prognosis
- e) It is faeco-oral in transmission

45. Concerning Measles

- a) Koplik spots are diagnostic
- b) the fever crashes at the onset of the rash
- c) Laryngotracheobronchitis is a complication
- d) Stevens Johnson syndrome is a differential diagnosis
- e) The rash typically commences at the trunk
- 46. Heat loss from the body of newborn occurs by:
 - (a) Conduction
 - (b) Convection
 - (c) Osmosis
 - (d) Radiation
 - (e) Non-shivering thermogenesis

47. The following are True:

- a) An infant of a diabetic mother is at risk of a hyperglycaemia in the first hour of life.
- b) An infant of a mother diagnosed with Tuberculosis should be commenced on oral Rifampicin immediately after birth till mother is smear negative three times.
- c) An infant of an HIV positive mother should commence oral Nevirapine for the first 6 months of life

- d) An infant of a Hepatitis B surface antigen (HbSag) positive mother should have Hepatits B vaccine and immunoglobulin within the first 12 hours of life
- e) An infant of a Sickle Cell disease mother is at risk of perinatal asphyxia.

48. Concerning Seizures:

- a) Complex febrile seizure has a duration of between 10 15 mins
- b) Recurrent Febrile seizure isn't a risk factor for epilepsy
- c) EEG is necessary for definitive diagnosis
- d) West syndrome has a poor prognosis
- e) Neurofibromatosis is inherited as Autosomal recessive
- 49. Management of a child with severe protein energy malnutrition (PEM) includes:
- a) Intravenous fluid at 1 ½ maintenance
- b) oral zinc supplement
- c) intravenous frusemide
- d) iron supplement should be commenced at admission
- e) high sodium and low potassium containing solution
- 50. An infant of a diabetic mother may present with:
- a) Macrosomia
- b) Congenital anomalies
- c)Hypocalcaemia
- d)Respiratory distress syndrome
- e)Polycythaemia