

diabetes
 HbA1c = 7.5 - 8.5% in <6yrs
 done every 3 months
 = <8% in those 6-12yrs
 = 7.5% in 12-19yrs
 13. A 9-year-old girl presents to the paediatric outpatients' clinic with a tendency to drink water more often than usual, secondary enuresis and loss of weight. A dipstick test revealed: sugar 3+, protein nil, blood nil, and her random blood sugar was 17.4 mmol/L

- OGIT - Type I DM
- X A. She needs an oral glucose tolerance test to confirm the diagnosis
 - X B. A glycosylated haemoglobin level of 12% indicates excellent control of blood sugars
 - X C. Coma may be an initial presentation of this disease
 - X D. Education of the disease process is not very useful to children as they rarely understand medical matters
 - X E. A combination of insulin and an oral hypoglycaemic agent is the best choice of treatment for this child

Neurofibrosma
 14. Which of the following is NOT associated with Neurofibromatosis-1?
 A. Lisch nodules (iris hamartomas)
 B. Axillary freckling
 C. Ash-leaf spots
 D. Optic gliomas
 E. Seizures
 Café au lait spots
 Asymptomatic neurofibromas
 Piloerection
 Scoliosis
 Hypertension
 Pseudotumor cerebri
 Type 1
 - café au lait spots
 - Lisch nodules (iris hamartomas)
 - axillary freckling
 - Ash-leaf spots
 - optic gliomas
 - scoliosis
 - hypertension
 - Pseudotumor cerebri
 - seizures
 - neurofibromas
 - hamangiomas
 - scoliosis
 - hypertension
 - Pseudotumor cerebri

15. The adolescent-age group is LEAST affected by which of the following?
 A. Homicide
 B. Poisoning
 C. Suicide
 D. Substance abuse
 E. Pregnancy
- Tuberculosis
 As - lung spots
 Chagrin patches
 tuberculous adenoma

16. The following is NOT true in regards to Atopic eczema:
 A. Does not start within the first two weeks of life
 B. Will have cleared by puberty in at least 50% of children
 C. Is best managed with an egg and milk free diet
 D. Predisposes to cutaneous viral infections
 E. May be exacerbated by a viral infection

Clearese by 18yrs in TB
 E. May be exacerbated by a viral infection
 Rx = topical steroids & other drugs
 Rx = anti-vegetarians in severe cases
 Rx = anti-vegetarians in severe cases
 Contact ingestion (Cerastium) & (1st gen cepus)

17. Complications of measles include all EXCEPT:
 A. Severe corneal ulceration
 B. Cancer of the oral cavity
 C. Higher incidence of acute appendicitis
 D. Post-measles encephalopathy
 E. Subacute sclerosing panencephalitis

measles (7-10yrs)

18. Parental smoking does NOT increase the risk of:
 A. Chronic secretory otitis media
 B. Sudden infant death syndrome
 C. Admission with bronchiolitis
 D. Low birth weight
 E. Long straining OR = congenital hearing loss & deaf to parents living one side, prevent reduced etc.

19. A newborn child should be given hepatitis B immunisation and specific immunoglobulin if:
 A. Mother is Chinese
 B. Mother is HBsAg negative
 C. Mother is HBsAg positive and the antibody positive
 D. Mother is HBe antibody positive
 E. Mother is HIV positive

20. All are true about cataracts EXCEPT:
 A. When inherited, are rarely bilateral
 B. Can be seen in infants of diabetic mothers
 C. Can be seen in patients with rubeola
 D. Can be seen in pre-term babies exposed to high oxygen concentration
 E. Are found in patients on long-term steroids

Hydrolytic, permeability, training, myofibril, hydrolytic
 ROS - give
 28-94% in
 aetiology

21. Concerning juvenile idiopathic arthritis all are true EXCEPT:
 A. It may be associated with HLA DR4
 B. Complement factor 3 is decreased in large joint effusions
 C. It is almost always associated with sicca syndrome
 D. The pauciarthral form is associated with anterior uveitis
 E. The systemic form is usually associated with splenomegaly

RF +
 RF -
 Psoralin arthritis
 Entenak's-related arthritis
 Undifferentiated arthritis
 systemic
 hypernephrotic
 lymphadenopathy
 fever
 10/1
 10/1
 10/1

31. Mary is a 2 year old child who has swallowed an unknown quantity of a strong solution of bleach. The following are true of her condition:

- A. Should be allowed home if there is no irritation of the lips or tongue X **wounds**
- B. Should have vomiting induced with ipecac **do not induce vomiting**
- C. Should be investigated with a barium swallow on day 1 **not on day 1**
- D. May present with recurrent vomiting in future **not recurrent**
- E. Should have an urgent chest X-ray **not chest X-ray**

Pertussis

Paracetamol 32.2 year old Omar was admitted with fever, **barking cough**, redness of his mucous membranes and a rash that began spreading from behind the ears to the rest of the body. During examination, Dr. Oryango noted that the left cornea looked dry and hazy. Which of the following is NOT true of his condition? **no**

- A. The condition is associated with a very high risk of dying **if worsens - can lose army**
- B. There is increased vulnerability to secondary bacterial infection **if worsens - can lose army**
- C. Serum vitamin A levels are depressed **if worsens - can lose army**
- D. This child is at risk of becoming blind **if worsens - can lose army**
- E. His condition is preventable **if worsens - can lose army**

33. Habbaba is a 3 week Somali boy who has just been admitted to children's ward with a history of vomiting after feeds since birth. He is dehydrated, wasted and hungry. He has a distended abdomen. As you are taking the history, you observe Habbaba feeding hungrily on his mother's breast and a few minutes after completing the feed he has a bout of voluminous projectile vomiting. Which of the following is true of his condition?

- A. There is systemic acidosis **due to loss of gastric acid**
- B. The condition has a female preponderance **not male**
- C. Requires increasing potassium supplement from the time of diagnosis **not potassium supplement**
- D. Hypochloremia should be corrected with ammonium chloride **not KCl**
- E. Surgery must be deferred till correction of electrolyte imbalance has been achieved **not deferred**

Pylobacillus

34. Which of the following activities is important in the treatment of tetanus?

- A. Treatment of aspiration pneumonia **not important**
- B. Tetanus immune globulin eradicates the bacteria **not important**
- C. Antibiotic therapy neutralizes the toxin **not important**
- D. The infant should be allowed to suckle on the breast as usual **not important**
- E. Administration of tetanus toxoid after recovery **not important**

35. Ochieng, an 11 month old, presents with swollen feet, poor appetite on hyper-pigmented skin lesions. He weighs 7.0 kg and is dehydrated in the surrounding. Which of the following statements is true?

- A. History of measles in the past month is relevant **not relevant**
- B. High dose topical steroids are useful in managing the skin lesions **not useful**
- C. Total body sodium and potassium are likely to be elevated **not elevated**
- D. He requires an infusion of 30ml/kg of normal saline over 1 hour **not 1 hour**
- E. If pneumonia is diagnosed then crystalline penicillin alone is indicated **not indicated**

36. Which of the following statements regarding childhood tuberculosis is true?

- A. Pulmonary cavitation is common **not common**
- B. Mantoux test is useful even with a previous history of BCG vaccination **not useful**
- C. Diagnostic yield of mycobacterium from gastric aspirates is in excess of 40% **not 40%**
- D. Streptomycin, rifampicin and isoniazid are the recommended initial therapy **not recommended**
- E. Meningitis may be the first presentation **not first presentation**

37. A 7 year old is started on cytotoxic therapy for Burkitt's lymphoma. He develops cardiac arrhythmias and anuria. The following is true of his condition:

- A. Serum potassium is low **not low**
- B. Serum calcium is low **not low**
- C. This is Adriamycin cardiotoxicity **not Adriamycin**
- D. Dialysis may be life saving **not life saving**
- E. This problem is potentially preventable **not preventable**

38. A 1 year old Luo child presents with history of swelling of the hands and as well as yellowness of the eyes for 2 months. The fingers are tender on there is splenomegaly.

- A. She most probably has septic arthritis **not septic arthritis**
- B. Pneumococcal vaccine should be given immediately **not immediately**
- C. A top up blood transfusion is indicated **not indicated**
- D. This problem is confined to the African continent **not confined**
- E. Aplastic anaemia is a known complication of this condition **not complication**

9. A term newborn infant presents with marked respiratory distress. The baby is noted to have scaphoid abdomen. The most likely diagnosis is:-

- a. Septicaemia ~~febrile~~
- b. Ventricular septal defect ~~Dowrie Syndrome~~
- c. Diaphragmatic hernia ~~did basal cord bands ends at chest, hrt sound displaced~~
- d. Airway mucus plug ~~DOB, vigorous~~
- e. Imperforate anus ~~abdominal distention~~

10. The ability to manipulate objects using the pincer grasp usually occurs at age:-

- a. 3 to 5 months
- b. 6 to 9 months
- c. 10 to 12 months
- d. 1 to 2 months
- e. 12 to 15 months

11. Trauma is considered developmentally NORMAL when associated with:-

- a. Lying
- b. Fear of ridicule by peers
- c. Depression
- d. Fear of failing in school
- e. None of these

12. Sexual abuse in a ten year old should be considered if the following are found in relevant tests EXCEPT:-

- a. HIV
- b. Syphilis
- c. Gonorrhoea
- d. Chlamydia
- e. Sperm

13. A child with mental retardation is noted to have microcephaly, chorioretinitis, and a history of petechial rash at birth. This child most likely has:-

- a. TORCHES infection
 - b. Trisomy 21
 - c. Galactosaemia
 - d. Fetal-alcohol syndrome
 - e. Hunter's disease
- microcephaly, chorioretinitis, petechial rash at birth*
- Rubella, toxoplasmosis, CMV, HSV*
- 10X0, HIV, VZV, OHR*
- mental retardation, hypotonia, megacolon, sensorimotor deafness*
- Rubals, Hep B, CMV*

14. A child with failure to thrive is NOT likely to benefit from hospital admission on account of:-

- a. Further diagnostic evaluation
- b. Treatment of a minor infection
- c. Evaluation of parent-child feeding and interaction
- d. Lack of catch up growth
- e. Severe malnutrition

15. A four month old infant with vitamin D deficient rickets is expected NOT to show the following:-

- a. Bowlegs ~~Bowing or band~~
- b. Rosary
- c. Low phosphate levels
- d. High alkaline phosphatase
- e. Craniotables

16. A five year old child presents with severe hypernatraemic dehydration. A serious complication which may occur in his treatment is:-

- a. Cerebral Oedema
- b. Cerebral thrombosis
- c. Hyperventilation
- d. Hypoglycaemia
- e. Gas embolism

17. A child presents with respiratory disorder of decreased tidal volume and tachypnoea. The likely cause could be:-

- a. Pneumo thorax
 - b. Myothenium gravis
 - c. Carbon dioxide retention of astetic breathing
 - d. Severe atelectoid enlargement of a-wave breathing
 - e. Severe hypoxaemia
- Restrictive*
- pulm fibrosis*
- RDS, weak resp m, pneumothorax*

18. Raised capillary refill time is a poor indicator of severity of shock due to:-

- a. Blood loss from trauma
- b. Septicaemia
- c. Severe gastroenteritis
- d. Anaphylaxis
- e. Heat injury

Tidal volume:

19.

A mentally retarded 13 year old boy is found to have prominent ears and large testis. His mental retardation is likely to be due to:

- a. Trisomy 21
- b. Acromegaly
- c. Precocious puberty
- d. Fragile X syndrome
- e. Hypothyroidism

Enlarged face
Large protruding ears
 Boh. - voice s.a. characteristic

that is X-linked (band a region) of 4th pair of chromosomes. Joint laxity, talipes equinovarus, hypotonia, joint laxity, talipes equinovarus.

An infant has the following records at 5 minutes of life: pulse 110/min; good muscle tone, cyanosis of hands and feet, strong cry and grimace. This infant has an Apgar score of:

- a. 6
- b. 9
- c. 10
- d. 7
- e. 8

21. In performing the APT Test, the advantage being utilised is that:

- a. Foetal haemoglobin is alkali resistant
- b. Adult haemoglobin is alkali resistant
- c. Rh-sensitised cells are alkali resistant
- d. Adult haemoglobin is acid resistant
- e. ABD antibodies are present in serum

Differential
fetal iron blood
in bleeding during labor
 rbc count, total iron binding capacity, iron, ferritin, transferrin, transferrin saturation, iron, ferritin, transferrin, transferrin saturation.

22.

Jaundice is most likely to be physiologic in a term newborn infant if:

- a. Serum bilirubin level is rising at the rate of less than 85 μmol (5 mg) L⁻¹ 24 hours in the first 4 days of life.
- b. Jaundice is present at day 12 of life
- c. Half of serum bilirubin is conjugated
- d. Jaundice appears at 12 hours of age
- e. Direct Coombs' test is positive

Physiological
 Bilirubin level rising at the rate of less than 85 μmol (5 mg) L⁻¹ 24 hours in the first 4 days of life.

23.

A newborn term infant is noted to have respiratory movements with no air entry in the lungs when the mouth is closed. The most probable diagnosis is:

- a. Mucus plug in airway
- b. Chanal atresia
- c. Diaphragmatic hernia
- d. Tracheo-oesophageal atresia with fistula
- e. Pulmonary hypoplasia

Obstructive
 Infant is noted to have respiratory movements with no air entry in the lungs when the mouth is closed. The most probable diagnosis is:

24.

Perinatally acquired late onset neonatal septicemia in a term infant is likely to be associated with:

- a. Bone and joint infections in all cases
- b. 75% cause of severe pneumococcal meningitis
- c. Shock
- d. Group B haemolytic Streptococci
- e. Severe impetigo

Group B haemolytic Streptococci
 6-10 bacteria
 6-10

Perinatal acquired neonatal septicaemia can be due to the following organisms except:

- a. Listeria monocytogenes
- b. Group B haemolytic streptococci
- c. Pneumococci
- d. Escherichia coli
- e. Haemophilus influenzae - non typable

26. The most likely cause of one breast enlargement which is hard and tender, in a girl of 12 years old is:

- a. Cysto sarcoma phyllodes
- b. Breast abscess
- c. Carcinoma of the breast
- d. Fibroadenoma
- e. Early pubertal breast

Physiological
 Breast enlargement which is hard and tender, in a girl of 12 years old is: Early pubertal breast.

In giving a short talk on childhood asthma, the following will be listed as risk factors for tubercle infection:

- a. Dust into exposure in early life
- b. Black race
- c. Maternal smoking
- d. Neonatal respiratory distress syndrome
- e. Frequent respiratory infections

Black race
Maternal smoking
Neonatal respiratory distress syndrome
Frequent respiratory infections

In discussing the feeding options for a new born baby whose mother is sero-positive for HIV and the baby is completely virus free, she wants to know the best method to avoid her baby getting infected. The option you would give is:

- a. Exclusive breastfeeding for the first six months of life
- b. Exclusive breast feeding for the first four months of life
- c. Intermittent breastfeeding
- d. Intermittent breastfeeding and allowing for formula top-up feeds for the rest of the day
- e. Exclusive breastfeeding with early weaning

Exclusive breastfeeding for the first six months of life
Exclusive breast feeding for the first four months of life
Intermittent breastfeeding
Intermittent breastfeeding and allowing for formula top-up feeds for the rest of the day
Exclusive breastfeeding with early weaning

29. Oral rehydration therapy IS NOT appropriate in the management of dehydrated children with:

- a. Vomiting and high fever ✓
- b. Pending shock (due to asplenia) ✓
- c. Cholera diarrhoea ✓
- d. Shigellosis ✓
- e. Rotavirus diarrhoea ✓

30. Salmonella Osteomyelitis is a common occurrence in children with:

- a. Repeated broad spectrum antibiotic exposure ✓
- b. Sickle cell anaemia ✓
- c. Beta thalassaemia major ✓
- d. Haemophilia ✓
- e. Sickle cell trait ✓

31. Urinary tract infection in a one year old child may present with all of the following EXCEPT:

- a. Irritability ✓
- b. Refusal to feed ✓
- c. Recurrent vomiting ✓
- d. Polydipsia only in children. NOT neonates or infants ✓
- e. Intermittent fever ✓

32. In practising proper hand hygiene, the following is the best effective method:

- a. Washing hands using water and soap and drying them under electric drier. ✗
- b. Using alcohol hand gel ✓
- c. Washing hands using soap and water from manual taps ✓
- d. Washing hands using soap and water and turning water off using paper hand towels ✓

33. A two year old child diagnosed to have severe pneumonia maximises his flow through the respiratory passages by:

- a. Granting very active ✓
 - b. Tachypnoea ✓
 - c. Flaring the alae nae ✓
 - d. Use of accessory muscles ✓
 - e. Head nodding ✓
- ↳ ability to drink.
↳ use of accessory m. and intercostal p. - Tachypnoea - Tachypnoea.

34. Immunosuppressed eight year old on treatment for leukaemia develops fungal septicaemia. The most likely organism is:

- a. Histoplasma ✓
- b. Mycomycosis ✓
- c. Candida ~~most common (oral / crypto candida) + PCP~~ ✓
- d. Aspergilloma ✓
- e. Cryptococcus ✓

35. Which of the following vaccines should not be given to child with severe immunodeficiency disorder?

- a. DTR vaccine & toxoids are killed ✓
 - b. Hepatitis B vaccine - Recombinant DNA ✓
 - c. Pneumococcal vaccine - conjugated ✓
 - d. Measles vaccine ✓
 - e. Salk polio vaccine - live (scabin) ✓
- Viruses - Vaccines are live and killed
- OPV
 - BCG
 - BNTM
- Killed viruses - Bacterial
- Hib
 - Polio
 - Cholera
 - Meningococcal
 - Pneumococcal

36. The common non-infection cause of Pyrexia of undetermined origin (PUO) in childhood is:

- a. Connective tissue disorders ✓
 - b. Allergies ✓
 - c. Teething ✓
 - d. Malignancy ✓
 - e. Pictitious fever - absent ✓
- PUO's
- 1. Malignancy
 - 2. Connective tissue
 - 3. Allergy
 - 4. Infection
 - 5. Undiagnosed endo

37. An eight year old child is diagnosed with acute appendicitis for which he is treated. He is at risk of developing the following complications EXCEPT:

- a. Wound infection ✓
 - b. Vitamin B6 deficiency ✓
 - c. Intra abdominal abscess ✓
 - d. Intestinal volvulus ✓
 - e. Liver abscess ✓
- Pyrexia + fever

38. Which of the following statements is FALSE regarding pyloric stenosis:

- a. Commonly presents in the first month of life ✓
- b. Males are affected more than females ✓
- c. Thirst is frequent bilious stained vomiting ✓
- d. The vomiting is usually post prandial ✓
- e. Metabolic alkalosis is frequent finding - venopathy H⁺ ↑

A four year old child whose weight falls below the 3 Z score presents with diarrhoea and vomiting. The best way to rehydrate this child would be by:-

- Intravenous Hartman's solution
- Intravenous Darrow's solution
- Low salt ORS
- Resomal solution orally ✓
- Oral coconut water

$\frac{1}{2}$ Darrow's $\frac{1}{2}$ Ringers

40. A seven year old boy who has enjoyed good health presents with acute onset of fever, cough, dyspnoea and he is found to have bronchial breathing on his right lung. The best choice of antibiotic empirical treatment would be:-

- Ceftriaxone X
- Cofatoxime X
- Crystalline penicillin ✓
- Ceftazidime X
- Gentamycin X

Pneumonia

✓ Severe pneumonia: Xpen + Gent
 S. pneumoniae: Benzyl penicilline
 Pneumoniae septica

41. A three year old boy who has been known to get acute cyanotic attacks with chest pain presents in hospital in one such attack. His management in the immediate period include all to the following EXCEPT:-

- Oxygen ✓
- Knee chest position ✓
- Morphine ✓
- Epinephrine ✓
- Sodium bicarbonate - correct metabolic acidosis ✓

Cyanotic spell
 • Knee chest position - blocks aorta and IVC to
 • O₂ = Chloramphenicol - block by spell
 • Sedate = calm the child
 • Morphine + diazepam
 • IVF to ↑ BP
 • Bicarbonate = acidosis
 • correct metabolic acidosis

42. A child who presents with asymptomatic pulmonary stenosis may be offered initial relief by doing:-

- Balloon catheter vulvoplasty ✓
- Blalock - Taussing shunt ✓
- Valve replacement X
- Prostaglandin therapy to keep the ductus arteriosus open ✓
- Open surgical valvotomy X

43. Congestive heart failure is not a feature of:-

- Truncus arteriosus ✓
- VSD (L→R), PDA ✓
- Tetralogy of Fallot ✓ PS ✓
- Coarctation of the aorta ✓
- Total anomalous venous return ✓
 Hypoplastic left lung ✓
 ASD or VSD

44. Infective endocarditis is most appropriately diagnosed by:-

- Complete blood count ✓
- Blood culture ✓
- Doing ESR
- ECC
- Urine examination

45. During blood examination in a child who presented with jaundice, a large number of spherocytes are reported. The cause of this could include all of the following EXCEPT:-

- Sickle cell anaemia ✓
- Hereditary spherocytosis ✓
- Postnatal septicemia ✓
- Wilson's disease ✓
- Immune haemolytic anaemia ✓

Read
 Hemolytic anaemias
 • EBV, CMV, VZV and mycoplasma
 X Spherocytosis

46. A child presents with history of recurrent bleeding on slight trauma. The ward doctor orders, among other tests, for bleeding time. The test mainly determines:-

- Fibrinolysis - pTT and FDP
- Platelet function ✓
- Factor VIII coagulant activity - APTT (intrinsic)
- Antithrombin III activity
- Factor IX coagulant activity - APT ✓

• BT = ectatic
 TT = common pathway

47. A child on chemotherapy for Burkitt's lymphoma presents with acute loin pains, reduced urine output and hematuria. The best line of action would be:-

- To organise for immediate dialysis ✓
- To increase oral fluids
- To give morphine
- To give allopurinol and intravenous fluids
- To put on bed rest and give allopurinol ✓

TLS

48. A ten year old boy on follow-up for nephritic syndrome is being considered for vaccination. The most critical vaccine for him would be:-

- Haemophilus influenzae type b (Hib) ✓
- Typhoid
- Pertussis
- Mumps, Measles, Rubella (MMR) ✓

• edema, loss of IgG
 • peritonitis + cellulitis
 • pneumococcus
 • influenza

49. The most common presentation of diabetes mellitus in children is:-

L>DKA

- a. Acute hypoglycaemic reaction $R \times$
- b. Acute ketoacidosis
- c. Recurrent urinary tract infection α
- d. Unexplained acute fever α
- e. Convulsions α

50. A neonate presenting with features strongly suggestive of congenital hypothyroidism is likely to have the following laboratory findings:-

\downarrow T8, \downarrow T4, \uparrow TSH.

- a. Low TSH, high T3
- b. Low T4, high T3
- c. Low T3, high T4
- d. High TSH, high T3
- e. High TSH, low T4

19. Which one of the following infants are at highest risk of Balambrin Encephalopathy?
 A. A healthy term infant with bilirubin level of 400micol x
 B. A healthy preterm infant with bilirubin level of 340micol
 C. A healthy preterm infant with bilirubin level of 340micol
 D. A sick preterm infant with bilirubin level of 340micol
 E. A sick term infant with bilirubin level of 40micol

17-9-07 18
 No 5/10/14

20. Hydrocephalus is defined as:
 A. An abnormally large head x
 B. An abnormally large brain x
 C. The presence of sun-set eyes in an infant
 D. Enlargement of the ventricular system of the brain

21. Which of the following must be present in order to make a clinical diagnosis of congestive heart failure?
 A. Tachycardia x
 B. Bilateral crepitations x
 C. Gallop Rhythm
 D. Hepatomegaly x
 E. RT sided HF
 CCF → Tachycardia - PUP
 Tachypnoea - Hectic
 Bial C. 100 - Babbing

22. Acute bacterial endocarditis is most likely to cause which of the following in a previously stable child with rheumatic heart disease?
 A. Heart failure x
 B. Cardiac rhythm disorders
 C. Development of cyanosis x
 D. Recurrence of rheumatic fever x

23. The commonest bacterial cause of pneumonia in early childhood is:
 A. Group A Streptococcus
 B. Group B Streptococcus
 C. Streptococcus pneumoniae x
 D. Haemophilus influenzae type b x
 E. Staphylococcus aureus

24. Severe pneumonia is present when a child has which one of the following:
 A. Homogenous white x-ray picture
 B. Widespread crepitations, fever and tachypnoea
 C. Respiratory distress, sings of hypoxia and inability to feed
 D. Hypertension and persistent cough
 E. Very severe

25. The distinctive features of splenic enlargement include one of the following:
 A. Diagonal growth from right hypo-condrium x
 B. Bi-manually palpable x
 C. Notch on the lateral aspect medial
 D. Evidence of bowel loops above it x

26. In the welcome classification of malnutrition, the presence of oedema indicates that the child may have:
 A. Marasmus
 B. An inter-mediate infection
 C. Severe malnutrition
 D. Had recent rapid deterioration

27. In the management of severe malnutrition:
 A. The most important micronutrients are the B-vitamins
 B. The first step is feeding with a lower calorie diet
 C. If severely dehydrated use standard intravenous solutions
 D. They should all have tests for possible infections

28. Risk factors to development of ticks include all the following except?
 A. Pre-maturity
 B. Cerebral palsy
 C. Tropical climate
 D. Temperate climate

29. Major congenital anomalies may be caused by the following factors except:
 A. Chromosomal duplication during early embryology
 B. Maternal malnutrition during pregnancy
 C. Maternal drugs during pregnancy
 D. Maternal HIV infection

30. Mother to child infection of HIV infection is highest in which one of the following conditions:
 A. Maternal age
 B. Viral load in the mother during pregnancy
 C. Stage of disease in the mother regardless of the viral load
 D. Time of commencement of anti-retroviral therapy

31. In the prevention of mother to child transmission of HIV program, a child who did not breastfeed and received initial drugs needs which intervention while waiting for the 15-18 month antibody test?
 A. Cotrimoxazole
 B. Zidovudine
 C. Three monthly antibody tests
 D. First-line antiretroviral drug therapy

32. Acute renal failure is characterized by which of the following:
 A. Reduced urine output, high urea and high potassium in blood
 B. Reduced urine output, high sodium and high urine protein
 C. Reduced urine output, massive proteinuria and high potassium in blood
 D. Reduced urine output, cast cells and high potassium levels in blood

6
 developing countries
 ping countries is ?
 MTC 10
 BF
 10%
 0-20%
 2-6
 patients ?
 a patient u
 100
 bodies

Methy: EFV - Conting
 100%

47. The preventable causes of non-viral hepatitis include all the following except;

- A. Hepatitis B
- B. Hepatitis A
- C. Hepatitis C
- D. Acute focal hepatitis

48. Which one of the following conditions is mediated by type 4 (excessive cell mediated) reaction.

- A. Tuberculosis
- B. Acute glomerulonephritis
- C. Acute rheumatic fever
- D. Transfusion reactions

49. Which of the following is true about acute leukaemias in Kenyan children

- A. The lymphocytic variety is much more common than the myelocytic
- B. Younger children have better prognosis than older ones
- C. Males respond better to treatment than females
- D. Should be suspected whenever a child has anaemia and splenomegally not otherwise explained

50. The following can cause large amounts of free peritoneal fluid except;

- A. Constrictive pericarditis
- B. Nephrotic syndrome
- C. Portal hypertension
- D. Chronic renal failure

Handwritten mark: *read

Handwritten signature

July 1st

done

Zinat (3)

(5)

K.S.A Kullum

UNIVERSITY OF NAIROBI
DEPARTMENT OF PAEDIATRICS AND CHILD HEALTH

END OF TERM II EXAMINATION

BECK (7)

INSTRUCTIONS

1. There are 50 questions in this paper, each of them with 5 alternative answers
2. Only one of the alternatives is correct
3. Answers are to be written in the provided answer sheet.
4. No mark will be given if two or more alternatives are marked
5. Mark the correct alternative with an X
6. To change an answer cross the original one visibly then tick the preferred one
7. The time allocated for the examination is 90 minutes

1. A two year old boy has a tendency of breath holding when he has tantrums. He may present with which of the following during these episodes.

- a. Cyanosis *ANS*
 - b. Syncope *ANS*
 - c. Convulsions
 - d. Hypoglycaemia
 - e. Hypocalcaemia tetany
- Beckam, Widdling - last 1/3 of convulsions positive for ANS. ANS*
- 3-4 yrs
• cyanotic
• pallid - hair pale
• comb-like protrusion of teeth
• can't be separated*

2. Emotional deprivation is a child may present as

- a. Masturbation
 - b. High pitched shouts
 - c. Thumb sucking *ANS*
 - d. Inappropriate laughter
 - e. Obsession with order
- 1) Aggressive behaviour & self
 - 2) Executive dependency
 - 3) Hyperactive
 - 4) Unpredictable moods & mood

3. An autistic child is likely to:

- a. Have strong urge to play with other children's toys
- b. Generally withdraw contact with people in the immediate surroundings
- c. Be obsessed with order
- d. Have advanced language development
- e. Be very good with numbers

- Impaired social interaction
- Absent inappropriate speech
- Avoidance of eye contact / gaze aversion
- Repetitive activity

stms

turnes a as art
 Cerebellar
 or
 Quadriplegia
 A.P.G.A.R

14. A child with failure to thrive is NOT likely to benefit from hospital admission on account of:-
- a. Further diagnostic evaluation
 - b. Treatment of a minor infection
 - c. Evaluation of parent-child feeding and interaction
 - d. Lack of catch up growth
 - e. Severe malnutrition

15. A four month old infant with vitamin D deficient rickets is expected NOT to show the following:-
- a. Bowlegs ✓
 - b. Rosary ✓
 - c. Low phosphatic levels ✓
 - d. High alkaline phosphatase ✓
 - e. Craniotabes ✓ (soft brain)

16. A five year old child presents with severe hypernatraemic dehydration. A serious complication which may occur in his treatment is:
- Hypernatra
- a. Cerebral Oedema ✓ (give normal)
 - b. Cerebral thrombosis
 - c. Hyperventilation
 - d. Hypoglycaemia
 - e. Gas embolism
- cognitive dysfunction, seizures, coma, death
 • neurological, renal, electrolyte imbalance, hypocalcaemia
 • dehydration (sepsis) vs dehydration
 • electrolyte imbalance, tachycardia, hypotension, dry mucous membranes, weight loss
 • General weakness

17. A child presents with respiratory disorder of decreased tidal volume and tachypnoea. The likely cause could be:-
- a. Pneumothorax ✓
 - b. Myasthenia gravis
 - c. Carbon dioxide retention
 - d. Severe adenoid enlargement
 - e. Severe hypoxaemia
- Dead in obstructive
 Dead in restrictive

18. Raised capillary refill time is a poor indicator of severity of shock due to:-
- a. Blood loss from trauma ✓
 - b. Septicaemia
 - c. Severe gastroenteritis
 - d. Anaphylaxis ✓
 - e. Heat injury ✓
- Respiratory
 pleural effusion
 - pneumothorax
 Resp distress syndrome
 what resp muscles

19. A mentally retarded 13 year old boy is found to have prominent ears and large testis. His mental retardation is likely to be due to:-
- a. Trisomy 21
 - b. Acromegaly
 - c. Precocious puberty
 - d. Fragile X syndrome - Klinefelter
 - e. Hypothyroidism
- ← band 21 agn 7 q x chromosome affects
 Klinefelter
 - long testis, broad chest &
 - small testes, small penis, small
 - small testes, small penis, small
 - small testes, small penis, small
 - small testes, small penis, small

20. An infant has the following records at 5 minutes of life: pulse 130/min, good muscle tone, cyanosis of hands and feet, strong cry and grimace. This infant has an Apgar score of:-
- (P-R-P-H-A)
- 2 + 2 + 1 + 2 + 2 = 9
- a. 6
 - b. 9
 - c. 10
 - d. 7
 - e. 8

21. In performing the APT Test, the advantage being utilised is that:-
- a. used to determine fetal blood in maternal blood ✓
 - b. used to determine fetal blood in maternal blood ✓
 - c. used to determine fetal blood in maternal blood ✓
 - d. used to determine fetal blood in maternal blood ✓
 - e. used to determine fetal blood in maternal blood ✓
- APF test - fetal blood in maternal blood
 - used to determine fetal blood in maternal blood
 - used to determine fetal blood in maternal blood
 - used to determine fetal blood in maternal blood
 - used to determine fetal blood in maternal blood

22. Jaundice is most likely to be physiologic in a term newborn infant if:-
- a. Serum bilirubin level is rising at the rate of less than 85 μmol (5 mg) / L/24 hours in the first 4 days of life ✓
 - b. Jaundice is present at day 12 of life ✓
 - c. Half of serum bilirubin is conjugated ✓
 - d. Jaundice appears at 12 hours of age ✓
 - e. Direct Coombs' test is positive ✓

23. A newborn term infant is noted to have respiratory movements with no air entry in the lungs when the mouth is closed. The most probable diagnosis is:-
- a. Mucus plug in airway ✓
 - b. Chanal atresia ✓
 - c. Diaphragmatic hernia ✓
 - d. Tracheo-oesophageal atresia with fistula ✓
 - e. Pulmonary hypoplasia ✓

24. Perinatally acquired late onset neonatal septicemia in a term infant is likely to be associated with:-
- a. Bone and joint infections in all cases
 - b. 75% cause of severe pneumonitis
 - c. Shock
 - d. Group B haemolytic Streptococci ✓ *Strep. agalactiae, Meningococcus*
 - e. Severe impetigo
25. Perinatally acquired neonatal septicemia can be due to the following organisms except:- *Q.L.E.C.H*
- a) Listeria monocytogenes ✓
 - b) Group B haemolytic streptococci ✓
 - c) *Staph aureus* ✓ *Staph aureus*
 - d) Escherichia coli ✓ *Escherichia coli*
 - e) Haemophilus influenza - non typable ✓ *Haemophilus influenzae*
26. The most likely cause of one breast enlargement which is hard and tender in a girl of 12 years old is:-
- a) Cysto sarcoma phylloides
 - b) Breast abscess
 - c) Carcinoma of the breast
 - d) Fibroadenoma? ✓ *Fibroadenoma*
 - e) Early pubertal breast
27. In giving a short talk on childhood asthma, the following will be listed as risk factors for trigger (EXCEPT):-
- a. Dust mite exposure in early life ✓
 - b. Black race ✓
 - c. Maternal smoking ✓
 - d. Neonatal respiratory distress syndrome
 - e. Frequent respiratory infections ✓
28. In discussing the feeding options for a new born baby whose mother is sero-positive for HIV and the baby is completely virus free, she wants to know the best method to avoid her baby getting infected. The option you would give is:-
- a. Exclusive breastfeeding for the first six months of life ✓
 - b. Exclusive breastfeeding for the first four months of life ✓
 - c. Strict formula feeding following by weaning after six months of life ✓
 - d. Manually breastfeeding and allowing for formula top up feeds for the very hungry baby.
 - e. Exclusive breastfeeding with early weaning ✓

29. Oral rehydration therapy IS NOT appropriate in the management of dehydrated children with:-
- a. Vomiting and high fever ✓ *Malaria*
 - b. Pending shock ✓
 - c. Cholera diarrhoea ✓
 - d. Shigellosis ✓
 - e. Rotavirus diarrhoea ✓
30. Salmonella Osteomyelitis is a common occurrence in children with:-
- a. Repeated broad spectrum antibiotic exposure
 - b. Sickle cell anaemia ✓
 - c. Beta thalassaemia major
 - d. Haemophilia
 - e. Sickle cell trait
31. Urinary tract infection in a one year old child may present with all of the following EXCEPT:-
- a. Irritability ✓
 - b. Refusal to feed ✓
 - c. Recurrent vomiting ✓
 - d. Polydipsia ✓ *P.M*
 - e. Intermittent fever ✓
32. In practising proper hand hygiene, the following is the best effective method:-
- a. Washing hands using water and soap and drying them under electric drier.
 - b. Using alcohol hand gel ✓
 - c. Washing hands using soap and water and drying them with paper towel ✓
 - d. Washing hands using soap and water from manual taps
 - e. Washing hands using soap and water and turning water off using paper hand towels
33. A two year old child diagnosed to have severe pneumonia manifests air flow through the respiratory passages by:-
- a. Grunting
 - b. Tachypnoea ✓ *Malaria*
 - c. Flaring the alae nasae ✓ *How*
 - d. Use of accessory muscles
 - e. Head nodding.

44. Infective endocarditis is most appropriately diagnosed by:-
- Complete blood count
 - Blood culture
 - Doing ESR
 - ECG
 - Urine examination
45. During blood examination in a child who presented with jaundice, a large number of spherocytes are reported. The cause of this could include all of the following EXCEPT:-
- Sickle cell anaemia ✓
 - Hereditary spherocytosis ✓
 - Clostridial septicemia ✓
 - Wilson's disease ✓
 - Immune haemolytic anaemia ✓
46. A child presents with history of recurrent bleeding on slight trauma. The ward doctor orders, among other tests, for bleeding time. The test mainly determines:-
- Fibrinolysis - PTT, FDP
 - Platelet function
 - Factor VIII coagulant activity - APTT (inverted)
 - Antithrombin III activity
 - Factor IX coagulant activity - APTT
47. A child on chemotherapy for Burkitt's lymphoma presents with acute loin pains, reduced urine output and hematuria. The next line of action would be:-
- To organise for immediate dialysis
 - To increase oral fluids
 - To give morphine
 - To give allopurinol and intravenous fluids
48. A ten year old boy on follow-up for nephrotic syndrome is being considered for vaccination. The most critical vaccine for him would be:-
- Haemophilus influenzae type b (Hib)
 - Typhoid
 - Pertussis
 - Mumps, Measles, Rubella (MMR)
 - Pneumococcal

49. The most common presentation of diabetes mellitus in children is:-
- Acute hypoglycaemic reaction
 - Acute ketoacidosis ✓
 - Recurrent urinary tract infection
 - Unexplained acute fever
 - Convulsions
50. A neonate presenting with features strongly suggestive of congenital hypothyroidism is likely to have the following laboratory findings:-
- Low TSH, high T3
 - Low T4, high T3
 - Low T3, high T4
 - High TSH, high T3
 - High TSH, low T4 ✓

↑ T3, ↓ T4, ↑ TSH

Zinat (8)

Naim



UNIVERSITY OF NAIROBI. COLLEGE OF HEALTH SCIENCES. DEPARTMENT OF PAEDIATRICS AND CHILD HEALTH

MCB CHD IV END OF TERM ONE MULTIPLE CHOICE QUESTIONS

15-3-2010

TIME: 9.30-11AM

INSTRUCTIONS

- 1. Read all the questions carefully and fill the answers in the separate answer sheet.
2. There are five responses. If you think the answer is correct insert T and if wrong insert F in the spaces provided
3. If you are not sure leave the space blank.
4. If you change your mind cross the answer and write the new response next to it.
5. A mark will be awarded for the correct answer and negative half mark for incorrect answers.
6. Ambiguous letters e.g. T will be read as incorrect answers.

1 Exams

At BIRTH

1. At age 12 months the infant:

- a) Weighs triple the birth weight
b) becomes attentive to their name
c) waves bye-bye
d) Measures 25cm
e) is able to draw a small circle

2. The following are contraindicated in the first hour of Diabetes ketoacidosis management:

- a) Normal saline
b) Ketorolam
c) Intravenous glucose
d) Insulin
e) ECG recording

3. Osteomyelitis

is diagnosed mostly in children less than 1 year of age without underlying septic arthritis. Subperiosteal abscess is common in boys than girls. Due to group B streptococcus complicates infection following bird sores. Most common in patients with Salmonella infection. Is best treated with intravenous drugs for five days then oral Vancomycin for two weeks.

4. The following are differential diagnosis of a 3 year old wheezy child:

- a) Koffler's syndrome
b) bronchiolitis
c) bronchial asthma
d) Meconium aspiration
e) Rhea capitis

5. In the treatment of shock secondary to severe diarrhoea:

- a) In the absence of intravenous access, drinking water is given through NG tube
b) IV 100ml/kg of normal saline is given as initial bolus
c) Calcium replacement is mandatory
d) Intravenous insulin with glucose is indicated to lower the high potassium levels
e) Intravenous insulin with glucose is indicated to lower the high potassium levels

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ORON

RHICZ

14. The following statement(s) are true regarding childhood tuberculosis:

- Almost always acquired from adults
- Tuberculosis meningitis is often the first presentation
- Treatment in the initial phase requires four drug combination
- Diagnosis rests on the identification of mycobacteria in body fluids
- Helicobacter pylori infection

15. Helicobacter pylori infection:

- Uncommon in children
- Prevalence increases with age
- Responsible for the majority of cases of childhood peptic ulcer disease
- Cannot be diagnosed without the use of endoscopy

16. A year Wanliu has been having a running nose for the last two days. Now his mum notices emerging skin lesions on his skin. The lesions appear at different week. The following is not true

- She should be isolated from her sister who is two years younger
- This condition is caused by a pox-virus
- The child should be started on prophylactic antibiotic to prevent pneumonia
- A good outcome is expected
- This is not a vaccine-preventable illness

17. Regarding HIV infection in children:

- CD4+ T-cells is an important indicator of disease progression
- CD4+ T-cells percent is not an important indicator of disease progression
- Zidovudine is beneficial to children with low CD4 percent
- Griseofulvin occurs in about one fifth of the children
- It is a preventable condition

18. Achieng is born to a 36 year old mother. She is noted to have prominent occiput, low set ears, small mouth, clenched hands and maculopathy.

Downs

- This is most likely a congenitally acquired infection
- Down's is most likely to be a chromosomal anomaly
- The prognosis is often poor
- Septal defect may be associated
- The mother's age is not important in causation

Downs is most likely a congenitally acquired infection. Down's is most likely to be a chromosomal anomaly. The prognosis is often poor. Septal defect may be associated. The mother's age is not important in causation.

19. Match the following antiretroviral drug with common side effects

- Zidovudine - myelosuppression
- Nevirapine - hepatotoxicity, elevated liver enzymes
- Stavudine - peripheral neuropathy
- Efavirenz - rash, dizziness
- Nelfinavir - hepatotoxicity
- Didanosine - peripheral neuropathy
- Zalcitabine - myelosuppression
- Abacavir - hypersensitivity reaction
- Tenofovir - renal impairment
- Raltegravir - rash, diarrhea
- Dolutegravir - headache, nausea
- Etravirine - rash, dizziness
- Bictegravir - headache, nausea
- Cabotegravir - headache, nausea
- Lenacapavir - headache, nausea

20. The following are true regarding acute renal failure in children:

- Urinary output less than 0.5ml/kg per hour
- Creatinine level is part of standard management
- Urinary output should be analyzed
- Hemodialysis is common
- Nurosurge is a life-threatening condition with a history of recurrent yellowing of the eyes
- He has had three blood transfusions and also has skull bossing
- The condition follows sickle cell inheritance
- Hydration therapy treatment leads to complete cure
- Distribution in Kenya follows ethnic lines
- Prognosis is good
- Bone marrow examination is required
- Infection by capsulated bacteria can be fatal

22. The following signs are pertinent initial investigations in a child who presents with easy bruising and bleeding of the gums.

- Liver function tests
- Urea and electrolytes
- Hemoglobin electrophoresis
- Hemoglobin assay

23. Monica is a 6 month old who is brought with a history of recurrent chest infections, poor feeding and slow growth. On examination she has high volume bounding and collapsing pulses, and a hypertensive precordium. She most likely:

- Has a diastolic murmur on auscultation
- Gets aortic right shift on X-ray
- Requires surgical treatment as soon as possible
- Has thrombotic lungs on chest X-ray

34. 8 month old Mbul presents with delayed developmental motor milestones. On examination he has bossing of the skull and wide wrists. *Revere's*

- a) This condition is becoming very prevalent in Nairobi. *Agange*
- b) The condition is completely preventable with simple measures. *Agange*
- c) The majority of the children have hypocalcaemia. *Agange*
- d) The cause of death in most instances is electrolyte imbalance leading to cardiac arrhythmias. *Agange*

35. All presents with progressive loss of vision and enlargement of the head. On brain reveals a highly calcified mass and hydrocephalus. Possible diagnoses in this child include the following:

- a) Toxoplasmosis ✓
- b) Craniopharyngioma ✓
- c) Burkitts lymphoma ✓
- d) Tuberculosis ✓
- e) Cytomegalic inclusion bodies ✓

36. The following are essential components of the child survival strategies to reduce morbidity and mortality:

- a) Monthly growth monitoring for the first five years of life. *Growth and nutrition*
- b) Supply of clean water and electricity to rural households. *Water and electricity*
- c) Giving priority to education of the girl child. *Education*
- d) Adolescent supplementation of relief food to the most needy households. *Relief food*
- e) Exclusive breastfeeding for the first six months. *Exclusive breastfeeding*

37. A five day old neonate born by spontaneous vertex delivery at term with a birth weight of 3.4 kg develops yellowness of the skin and eyes. His bilirubin level is found to be 300 µmol/l with predominantly indirect reacting bilirubin. Which of the following statements are true?

- a) Rhoeus incompatibility is the most likely diagnosis. *Rh*
- b) Incompatibility should be strongly considered. *Incompatibility*
- c) Phototherapy alone may adequately control hyperbilirubinaemia. *Phototherapy*
- d) Finding of diminished neonatal reflexes will significantly alter the management plan. *Reflexes*

796 HLL 01d: 7350 - 90 phototherapy

38. Which of the following statements regarding comatose children are true?

- a) The Glasgow coma scale can be used in children less than 1 year. *Glasgow*
- b) The Glasgow coma scale is most appropriate for children with cerebral malaria. *Glasgow*
- c) The Glasgow coma scale of 9 and below is associated with poor outcome. *Glasgow*
- d) Coma scales enable us to make an objective assessment of the child's level of consciousness and predict. *consciousness*
- e) Pupils that poorly react to light indicate cerebral cortical damage. *Pupils*

39. The following is/are associated with very tall stature:

- a) Achondroplasia ✓
- b) Infantile hypothyroidism ✓
- c) Klinefelter's syndrome ✓ *(47, XXY)*
- d) Turner's syndrome ✓ *(45, X)*
- e) Hypothalamic failure ✓ *growth hormone*

40. The following are true statements:

- a) Solid stooling in a child causes oesophageal varices. *Stooling*
- b) Appendicitis (umbilical) are known causes of intestinal obstruction. *Appendicitis*
- c) Pneumococcal pneumonia commonly causes pneumonia associated with diffuse interstitial. *Pneumonia*
- d) Infiltrate in severe HIV infection. *HIV infection*
- e) Xerophthalmia duodenal and B-cator americanus cause of folate deficiency anemia in children. *Xerophthalmia*

41. Concerning viral infections:

- a) Meningitis is a feature of mumps virus infection. *Meningitis*
- b) Rotavirus is transmitted through faecal/oral route. *Rotavirus*
- c) Respiratory syncytial virus is known to cause a wheezy illness in infants who may not be asthmatic. *Respiratory syncytial virus*
- d) Measles has an incubation period of about 4-6 days. *Measles*
- e) Coli causes severe diarrhoea disease in children as frequently as Rotavirus. *Coli*

Direct combi-child Abs
- RBCs check Abs
Indirect combi: Abs in serum
- Abs.

34. 8-month-old Abdul presents with delayed developmental motor milestones. On examination he has bossing of the skull and wide wrists.

- a) This condition is becoming very prevalent in Nairobi ✓
- b) The condition is completely preventable with simple measures ✓
- c) It is important that his mother used anticonvulsant during pregnancy ✓
- d) Majority of the children have hypocalcaemia ✓
- e) The cause of death in most instances is electrolyte imbalance leading to cardiac arrhythmias ✗

35. All presents with progressive loss of vision and enlargement of the head. On brain reveals a highly calcified mass and hydrocephalus. Possible diagnoses in this child include the following:

- a) Toxoplasmosis ✓
- b) Craniopharyngioma ✓
- c) Burkitts lymphoma ✓
- d) Tuberculosis ✓
- e) Cytomegalic inclusion bodies ✓

36. The following are essential components of the child survival strategies to reduce morbidity and mortality:

- a) Monthly growth monitoring for the first five years of life ✓
- b) Supply of clean water and electricity to rural households ✗
- c) Giving priority to education of the girl child ✓
- d) Constant supplementation of relief food to the most needy households ✓
- e) Exclusive breastfeeding for the first six months ✓

37. A five day old neonate born by spontaneous vertex delivery at term with a birth weight of 3.4kg develops yellowness of the skin and eyes. His bilirubin level is found to be 300 μ mol/l with predominantly indirect reacting bilirubin. Which of the following statements are true?

- a) He requires urgent exchange blood transfusion ✗
- b) Rhesus incompatibility is the most likely diagnosis ✗
- c) ABO incompatibility should be strongly considered ✓
- d) Phototherapy alone may adequately control hyperbilirubinaemia ✓
- e) Efficacy of diminished neonatal reflexes will significantly alter the management plan ✓

300 μ mol/L causes jaundice
250 μ mol/L causes phototherapy

38. Which of the following statements regarding comatose children are true?

- a) The Glasgow coma scale can be used in children less than 1 year ✓
- b) Blantly coma scale is most appropriate for children with cerebral malaria ✓
- c) A Glasgow coma scale of 9 and below is associated with poor outcome ✓
- d) Coma scales enable us to make an objective assessment of the child's level of consciousness and predict ✓
- e) Pinpoint pupils that poorly react to light indicate cerebral cortical damage ✓

39. The following is/are associated with very tall stature:

- a) Achondroplasia ✗
- b) Infantile hypothyroidism ✓ (41 XXX) -
- c) Klinefelter's syndrome ✓ (47 XXXY) -
- d) Turner's syndrome ✗ (45 X) webbed neck
- e) Hypothalamic failure ✗ ↓ growth hormone

40. The following are true statements:

- a) Schistosomum mansoni infection causes oesophageal varices ✓
- b) Ascaris lumbricoides are known causes of intestinal obstruction ✓
- c) Pneumocystis carini commonly causes pneumonia associated with diffuse interstitial infiltrates in severe HIV infection ✓
- d) Ancylostoma duodenale and Necator americanus cause of folate deficiency anaemia in children ✓
- e) Trichinella spiralis infection causes rectal prolapse ✗

41. Concerning viral infections:

- a) Meningitis is a feature of mumps virus infection ✓
- b) Poliovirus is transmitted through aerosol route ✗
- c) Respiratory syncytial virus is known to cause a wheezy illness in infants who may not be asthmatic ✓
- d) Measles has an incubation period of about 4-6 days ✗ (1-2 weeks)
- e) E. Coli causes severe diarrhoea disease in children as frequently as Rotavirus ✗

42. You are put in charge of triage at the Paediatric Emergency Unit (PEU). Which of the following would indicate a child requiring emergency (priority) management?

- X a) A 2 year old girl with respiratory rate of 55 breaths per minute and is eager to drink.
- X b) A 3 month old infant who is able to breast feed.
- X c) A 12 month old infant who cries continuously when you approach.
- X d) A 3 year old girl presents with a 3 day history of fever and pain in the right knee.

43. A 3 year old girl presents with a 3 day history of fever and pain in the right knee. She is reluctant to walk. Examination reveals a tender, hot swollen knee. Which of the following apply to this condition?

- X a) Immunization with Haemophilus influenzae b vaccine is likely to reduce the incidence.
- X b) A high percentage of children will have a positive blood culture.
- X c) An X-ray will reveal erosion of the articular cartilage.
- X d) Passive movements of the affected joint should be started immediately.
- X e) Prognosis would have been poor if she presented one week later.

44. Anaemia in a child with chronic renal failure is due to the following:

- X a) Hemolysis.
- X b) Poor food absorption at the level of the gut.
- X c) Reduced food intake.
- X d) Hemocoagulation during dialysis.
- X e) Bone marrow suppression.

45. Kiliu comes from Kivu and presents with gross splenomegaly, anaemia and loss of weight. Splenic aspirates reveals ID bodies. The following is true:

- X a) Hemogram is likely to show thrombocytopenia.
- X b) Splenic has an increased tendency to develop bacterial infection.
- X c) Wife should be screened for tuberculosis if he responds poorly to treatment.
- X d) Response to treatment is usually very rapid and the spleen is likely to be palpable.

after 4 weeks of treatment
 this condition is transmitted by a mosquito
 Pancytopenia
 TB

46. The following are not important activities in the treatment of tetanus:

- X a) Control of spasms.
- X b) Neutralizing of toxin with tetanus immune globulin.
- X c) Antibiotic therapy to eradicate the pathogenic bacteria.
- X d) Allowing the infant to suckle on the breast as usual.
- X e) Natural immunity develops after recovery from this condition.

47. A 12 year old male has had several episodes of febrile urinary tract infection. He has poor urine output and examination reveals a distended bladder. Indicate the true or false:

- X a) Anticystogram is indicated.
- X b) Anticystogram is indicated.
- X c) Anticystogram includes suprapubic tap to decompress the bladder.
- X d) Anticystogram includes suprapubic scanning with DMSA.
- X e) Anticystogram is recommended.

48. A newborn is found to have a phallus not easily identified as either a penis or clitoris. The following are true:

- X a) The phallus is found with a small opening at the root of the phallus.
- X b) The phallus is found with a small opening at the root of the phallus.
- X c) The phallus is found with a small opening at the root of the phallus.
- X d) The phallus is found with a small opening at the root of the phallus.
- X e) The phallus is found with a small opening at the root of the phallus.

49. This is a true hemiparotite X

- X a) This is utilized for a) being hydroxylase deficiency is the most likely enzymatic defect.
- X b) The patient may have markedly high serum sodium levels.
- X c) This is a true hemiparotite X
- X d) The patient is likely to have markedly low serum sodium level.

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