

Neonatology

1. Class A

- Compare physiological & pathological jaundice
- *causes of pathological hyperbilirubinemia or RH incompatibility*
- phototherapy and exchange transfusion
- Causes of indirect hyperbilirubinemia= physiological & pathological
- Resuscitation (steps - drugs used in resuscitation -Reasons of failure of resuscitation of newborn – apgar score
- Large for gestational age and infant of diabetic mother
- Causes of Neonatal R. distress
- R.D.S.
- enumerate Neonatal reflexes *and discuss one*
- Hypocalcaemia in the newborn.
- neonatal septicemia (risk – organism -
- Causes of Neonatal anemia.
- Neonatal bleeding and Hemorrhagic disease of newborn.
- Complications of a Preterm and their treatment possibilities

2. CLASS B

- TTN
- Causes of Neonatal convulsions
- Cold injury N. apnea
- Low birth wt.
- ABO incompatibility
- Kernicterus

Nutrition

1. Class 1

- Adv. Of human milk
- Protective advantage of breast milk
- weaning
- Drugs sec. in milk
- Biochemical & pathological finding in kwashiorkor
- Clinical picture - complication of marasmus / kwashiorkor.
- Prevention &Management of Protein Energy Malnutrition
- Minor problems with breast feeding.
- causes /cp/inv/ttt/of rickets
- Hypervitaminosis D.

2. Class B

- Compare between breast & cow milk
- milk formula for unhealthy infant (modification- indication)
- What are the 8 Factors for successful breast feeding
- types of Rickets
- What are the 8 Factors for successful breast feeding
- Biochemical & pathological finding in kwashiorkor

Emergency

1. All is CLASS A

- Emergency approach of critical illness. (FOR SPECIAL COND)
- stridor
- Methods - Complication of oxygen therapy.
- Causes & grades of shock.
- Causes & grades of coma.
- Types of respiratory failure
- acute heart failure (causes – grades – management)
- Anaphylaxis.

Class B
- status Epilepticus

GIT

Class A

- Causes of acute abdominal pain (acute recurrent abdominal pain) → *select the causes that may be recurrent*
- Causes of Recurrent organic abdominal pain
- Discuss intussusception
- Dysfunctional Abdominal Pain
- Mention causes of Vomiting in neonate/ in children
- I.V. Rehydration... Types & management of dehydration {A}
- Causes of acute/ Persistent / chronic diarrhea.
- Clinical picture and management of complications acute infective diarrhea
- Discuss types / grades of dehydration.

Class B

- Compare Monilia / herpes/stomatitis.
- Causes palpable kidney

Cardiology

Class A

- Discuss cp / complication / investigation / treatment of (Fallot –TGA – ASD –VSD –PDA- Coarctation – congenital aortic stenosis)
- complication of congenital heart disease
- R. fever (criteria – investigation – prevention – complication -treatment)
- Infective endocarditis.
- Innocent murmur

Class B

- Clinical presentation of cardiac disease
- Causes, classification of CHD.

RHEUMATOLOGY

- Causes of joint swelling
- Criteria – management of SLE.
- *Types / management of JRA*

Chest

Class A

- Causes of wheezes or (N.B. D.D. of asthma = causes or recurrent wheezes)
- Causes (DD of cough)
- TB (primary pulmonary complex – clinical picture – investigation – prevention – treatment)
- Grades of asthma
- Suppurative lung syndromeS
- causes / Complication / treatment of pneumonia
- asthma (triggers and pathogenesis – clinical picture – DD - treatment)

Class B

- Extrapulmonary T.B.
- Complication of O. Media.
- pertussis
- acute bronchiolitis

Endocrine

- Etiology / C.p. / investigation/ treatment of cong. Hypothyroidism.
- Diabetes mellitus: alllllll
- Management of D.K.A.
- *DD of diabetes at presentation*

Neurology

Class A

- Meningitis: all Causes / C.P./comp /Inv. / prevention – treatment
- Causes of M.R.
- febrile convulsions/ complication of febrile convulsions
- Brain abscess
- Diagnosis & management of floppy infant. (including Wiedemann Hoffmann disease)
- Causes of A. paralysis (including Guillain Barre syndrome)

Class B

- Cerebral palsy (causes – cp- complication)
- Hydrocephalus. (causes – cp – treatment)
- causes of Viral encephalitis
- types and causes of convulsions

Nephrology

Class A

- Causes/ investigation of hematuria
- Inv. For U.T.I./ recurrent urinary tract infection
- Cp and complications/ inv/ ttt/ of Minimal change G.N.
- indication of renal biopsy
- DD between minimal & non minimal change GN
- Cp and complications / inv / ttt of poststreptococcal G.N.

Class B

- Causes of nephrotic syndrome
- Causes of nephritis
- Nocturnal enuresis.
- Causes of hypertension
- Causes/ c.p. / Management of A R failure.
- Causes / c.p. management of C R failure.

Hepatology

Class A

- Clinical picture and investigation of viral hepatitis (A- B)
- Causes/cp/ Approach investigate/ treatment of cholestasis
- Causes / c.p. / Management of portal H.T.

Class B

- Clinical picture and investigation of fulminant hepatitis (acute LCF).
- Veno-occlusive disease
- Causes of chronic hepatitis

Infection & vaccination

Class A

- septicemia
- causes / Management of prolonged fever (FUO)
- Complication of measles / rubella / mumps / Chicken Pox / scarlet fever
- Enumerate various aspects of herpes simplex infection
- Diagnosis / INV / TTT of scarlet.
- Causes Fever & purpuric Rash
- All vaccines are required and the question may be like this (mention Non Compulsory vaccines / Compulsory vaccination in Egypt / D.P.T vaccine / Viral vaccine / bacterial vaccines / polysaccharide vaccine)

Class B

- Antipyretic measures of febrile infection
- Roseola infantum
- causes of vesiculopustular rash / Maculopapular rash

Hematology

Class A

- causes of (acute hemolytic anemia - chronic hemolytic anemia - microcytic anemia - anemia with splenomegaly - anemia due to bone marrow failure - anemia with reticulocytosis)
- all about thalassemia - SCA - Spherocytosis - crisis
- Lab approach to a case with purpura.
- Causes of hemolytic anemia / Acute hemolytic anemia
- Causes / c.p. / Management of Iron deficiency anemia
- Classification of purpura
- Henoch Schonlein purpura
- Cp / labs / ttt for ITP.
- Cp / complication / inv / treatment of hemophilia A.

Class B

- Types / cp / inv / treatment of leukemia
- causes / cp / inv / treatment of aplastic anemia

- Hazards of blood transfusion, (from exchange in neonatal jaundice + complication of blood transfusion in thalassemia)
- *Wernicke-Korsakow disease*

G & D

Class A

- Factors affecting growth
- Causes of micro / macrocephaly
- Causes /management of short stature.
- Growth curves.

Class B

- Causes of delayed dentition and closure of the ant. Fontanel
- Motor & mental development in the 1st year of life

Genetics

Class A

- Features and examples of XL recessive inheritance.
- Sex chromosomes abnormalities.
- Features and examples A.D. in inheritance.
- Features and examples of AR
- Structural chromosomal abnormalities.
- Numerical chromosomal aberrations.
- Genetic types of down syndrome.
- early diagnosis of down syndrome
- Multi factorial inheritance

Class (B)
- Genetic Counseling