**PAEDS TOPICS FOR PREPARATION FOR ASSESSMENT EXAM**

1. The approach to a child with developmental delay

* Understanding the normal developmental milestones
* Identification of underlying causes of developmental delay

2. Assessment of a child with disabilities:

* Management of visual and hearing impairment
* Motor disorders
* Speech and language difficulties
* Mental retardation

3. Management of Emergencies:

* Coma
* Status epilepticus
* Hypovolaemic shock
* Severe acute asthmatic attack
* Diabetic ketoacidosis
* Paediatric resuscitation
* Common Poisoning
* Submersion injuries (drowning; near drowning)

4. Recognition of Child abuse:

* Non-accidental injuries (NAI)
* Neglect

5. Common Genetics Disorders

6. Common neonatal conditions

* Effects of teratogens on the foetus (maternal drugs, alcohol, smoking)
* Intra-uterine infections
* Ante-natal diagnosis
* Prematurity and it’s complications
* Neonatal hyperbilirubinaemia
* Hypoxic-ischaemic encephalopathy, seizures
* Common Causes of Neonatal Respiratory distress
* Hypoglycaemia
* Common Gastro-intestinal abnormalities
* Learn about Assisted ventilation (CPAP, SiPAP, IPPV)
* Neonatal resuscitation

7. Growth problems:

* Delayed puberty
* Precocious puberty
* Short/tall stature
* Abnormalities in head growth (micro- and macrocephaly)

8. Nutrition:

* Understanding of growth monitoring and growth charts
* Failure to thrive
* Protein-energy malnutrition
* Obesity
* Micronutrient deficiency

9. Gastroenterology and Hepatology:

* Acute gastroenteritis
* Constipation
* Bowel obstruction (Intussusception)
* Malabsorption syndromes
* Abdominal pain
* Acute viral hepatitis
* Biliary atresia
* Liver failure
* Liver cirrhosis and portal hypertension

10. Infectious diseases ( Case based):

* Common Viral infections- measles, rubella, chicken pox etc RSV, Parainfluenza
* Common Bacterial-
* Common Parasitic

11. Respiratory disorders:

* Asthma
* Infections:
* Pneumonia, Bronchiolitis, Croup (L TB), Tuberculosis (TB)
* Pleural effusions
* Pneumothorax (spontaneous)
* Respiratory failure

12. Cardiology:

* Congenital heart disease (cyanotic and acyanotic)
* Acquired heart disease:
* Rheumatic heart disease
* Infective endocarditis
* Myocarditis and cardiomyopathy
* Congestive cardiac failure
* Arrhythmias
* Systemic hypertension
* Pulmonary hypertension

13. Renal disease:

* An approach to haematuria and proteinuria
* Acute glomerulonephritis
* Nephrotic syndrome
* Henoch-Schonlein purpura
* Renal failure – acute and chronic
* Renal calculi
* Renal masses

14. Genito-urinary abnormalities:

* Congenital abnormalities – PUV,
* ambiguous genitalia
* hypo- and hyperspadias

 -, Inguino-scrotal abnormalities

15. Haematological disease:

* Anaemia – Approach to diagnosis and management
* Iron deficiency anaemia, haemolytic anaemia, Sickle cell disease, anaemia of chronic disease, aplastic anaemia
* Coagulopathies:
* Immune thrombocytopaenic purpura (ITP)
* Haemophilia
* VW Disease
* Vitamin K deficiencies

16. Allergies:

* Food allergies
* Drug allergies
* Atopy: Eczema,
* Urticaria and angioedema
* Hypersensitivity to insect bites/stings

17. Common childhood malignancies:

* Leukaemias and lymphomas
* Neuroblastoma
* Nephroblastoma (Wilm’s tumour)
* Retinoblastoma
* Hepatic tumours (Hepatoblastoma; Hepatocellular Ca.)
* Brain tumours (Astrocytoma, Medulloblastoma, brain stem tumours)

18. Skeletal Abnormalities:

* Rickets
* Juvenile rheumatoid arthritis
* Skeletal dysplasia
* Osteogenesis imperfect
* Disorders of the hips and feet

19. Endocrine disorders:

* Diabetes Mellitus
* Hypo and hyperthyroidism
* Cushing’s disease
* Growth hormone
* Parathyroid hormone and abnormalities in calcium homeostasis

20. Neurological disorders:

* Developmental anomalies (neural tube defects)
* Meningocoeles, encephalocoeles, anencephaly
* Hydrocephaly, macrocephaly, Spina bifida
* Infections
* Bacterial meningitis, TB meningitis,
* Viral meningo-encephalitis
* Brain abscess
* Epilepsy and febrile convulsions
* Cerebro-vascular accidents (strokes)
* Cerebellar disease and Ataxia
* Peripheral neuropathy – Guillain-Barre syndrome
* Neuromuscular disease – Myasthenia gravis
* Neurocutaneous syndromes

21. Dermatology:

* Infantile eczema
* Albinism
* Infections:
* Tinea capitis/corporis
* Impetigo
* Scabies

22. Psychosocial aspects of Paediatrics and Paediatric psychiatry:

* Autism
* Attention deficit hyperactivity disorder
* Mood disorders
* Conduct disorders
* Elimination disorders:
* Enuresis
* Encopresis

23.Disorders of adolescence