

Paper II: Technical Subject

1. Growth and Development:
 - 1.1 Normal Growth and Development
 - 1.2 Disorders of Growth and Development
2. Nutrition:
 - 2.1 Normal nutrition in infancy and childhood - nutritional needs in health and disease state
 - 2.2 Common nutritional disorders in childhood - Malnutrition
 - 2.3 Nutrition supplementation -TPN
3. Concept of Preventive pediatrics
4. Genetics:
 - 4.1 Genetic and chromosomal disorders
 - 4.2 Inborn errors of metabolism
 - 4.3 Genetic counseling including antenatal diagnosis
5. Neonatology:
 - 5.1 Diagnosis, management and follow up of operative surgical congenital disorders including foetal disorders
 - 5.2 Diagnosis, management, prevention and follow up of acquired neonatal surgical disorders
 - 5.3 Organization of neonatal surgical care service in health institution up to tertiary level care
 - 5.4 Long term functional outcome of quality of life related to surgical condition
6. Management of pediatric surgical conditions:
 - 6.1 Gastro-intestinal system
 - 6.2 Genitourinary system
 - 6.3 Nervous system
 - 6.4 Respiratory system
 - 6.5 Cardiovascular system
 - 6.6 Orthopedics surgery
 - 6.7 Plastic surgery
 - 6.8 Condition related to skin, soft tissue and blood vessels
7. Infectious diseases:
 - 7.1 Diagnosis, management and follow up of common infectious diseases in the pediatric age group including HIV infection.
8. Pediatric surgical emergencies:
 - 8.1 Diagnosis and management of common pediatric surgical emergencies including trauma
 - 8.2 Pediatric anesthesia, ventilatory support, cardio-pulmonary support and stabilization
 - 8.3 Disaster: Planning and Management
9. Neoplastic disorders and tumors:
 - 9.1 Epidemiology of neoplastic diseases and solid tumours
 - 9.2 Principles of management of neoplastic diseases and solid tumours

10. Child psychiatry:
 - 10.1 Stress related to surgical problems
 11. Diagnostic procedures:
 - 11.1 Investigation techniques
 - 11.1.1 Diagnostic and interventional methods
 - 11.1.2 Interpretation
 - 11.2. Recent advances in diagnostic methods like CT, MRI, USG, radioisotope scanning
 12. Research methodology:
 - 12.1 Bio-statistics
 - 12.2 Basics in research methodology including search and critical review of medical & surgical literatures, selection of appropriate studydesign, analysis of findings and publications.
 - 12.3 Management of information system and medical audit
 13. Medical ethics:
 - 13.1 Medical ethics
 - 13.2 Professional ethics
 - 13.3 Ethics in research
 - 13.4 Ethics in health policy
 14. Recent advances in pediatric medicine and surgery
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