

Write short Notes on:

1. Maintenance fluid and electrolytes requirements in a newborn.
2. Second branchial cleft anomalies.
3. Methods for delivering 'enteral' nutrition to pediatric patients.
4. Principles of management of hypovolemic shock.
5. Metabolic complications associated with infantile hypertrophic pyloric stenosis with a brief reference to paradoxical aciduria.
6. Giant-hairy nevus and its management.
7. Thermoregulation in the newborn.
8. Pathophysiology of communicating hydrocephalus.
9. Briefly discuss etiopathophysiology of physiological jaundice in the newborn and its management.
10. Etiology of management of acute hyperkalemia in neonates.

Write short Notes on:

1. Discuss presentation and management of acute extradural hematoma following head injury.
2. Enumerate different types of hiatus hernia? Discuss briefly the presentation and management of hiatus hernia.
3. Recent advances in the management of anorectal hemorrhoids.
4. Briefly discuss presentation and management of abdominal aortic aneurysm.
5. Discuss the local and general factors that influence wound healing.
6. Discuss the presentation and management of 'flail-chest' injury of the thorax.
7. What is deep-vein thrombosis? Discuss the risk factors for the development of deep vein thrombosis.
8. Management of acalculous cholecystitis.
9. What is a 'port-wine stain? Discuss briefly its management.
10. Discuss briefly the presentation and management and basal-cell carcinoma of the cheek.

Write short notes on:

1. Neonatal hyperbilirubinemia
2. Endocrine response of neonate to surgery
3. Cause of hyponatremia in a neonate
4. Classic and alternative pathways of complement activation
5. Coagulation factor deficiencies
6. Metabolic complications of total parenteral
7. Dissociative analgesia
8. FAST examination in an injured child
9. Embryologic development of diaphragm
10. Tumor suppressor genes

Write short notes on:

1. What is post splenectomy sepsis. Discuss briefly its prevention and management
2. Discuss briefly the common causes, criteria for diagnosis, and principles of management of the Syndrome of inappropriate vasopressin secretion
3. What are the methods of access for parenteral nutrition. Discuss briefly the complications that can arise using the various modes of access for parenteral nutrition
4. What are oncogenes. Discuss briefly the role of oncogenes in the development of tumors
5. Discuss the role of laparoscopy in the evaluation and management of acute abdomen
6. What do you understand by MEN syndrome. What are the common lesions seen with MEN type I
7. What are the types of basal cell carcinoma. Describe briefly the management of basal cell carcinoma
8. What is pseudo membranous colitis. Discuss briefly its presentation and management
9. Discuss the management of electrical burns
10. Discuss the management of symptomatic hyperkalemia

Write short notes on:

1. Acute Metabolic Stress response in a surgical neonate.
2. Capnometry
3. Changes in Cardiovascular Physiology in the perinatal period.
4. Systemic inflammatory response Syndrome – describe its pathogenesis.
5. Laboratory Screening panel for detection of bleeding disorders.
6. Trace elemental supplementation
7. Estimation of allowable blood loss.
8. Pediatric Trauma Score
9. Tumor suppressor genes
10. MAG – 3 Scan

Write short notes on:

1. Discuss the principles of resuscitation and management for patients with septic shock.
2. Enumerate and discuss briefly the metabolic complications of long-term parenteral nutrition administration.
3. Discuss the principles and applications of Harmonic scalpel and Ultrasonic cavitation devices in abdominal surgery.
4. Discuss the prevention and management of post splenectomy sepsis.
5. What is malignant hyperthermia and how does it present? Discuss its management.
6. What is the Glasgow Coma Scale (GCS)? Discuss briefly the implications of the GCS score in the assessment and management of acute head injuries.
7. Discuss the pathogenesis and management of abdominal compartment syndrome following trauma.
8. Discuss the etiology and presentation of acute abdomen in patients with HIV-infection.
9. Enumerate and briefly describe the methods of access for enteral nutritional support.
10. Discuss the metabolic response to burns injury.