

ANESTHESIOLOGY AND CRITICAL CARE MEDICINE

PRACTICAL EXERCISES ENGLISH LANGUAGE EDUCATION

1. Anesthesiology as a Science. Essential Goals and Problems of Contemporary Anesthesiology. General Anesthesia- Definition, Classification. Mechanisms of General Anesthetic Action. Stages of General Anesthesia. Anesthesia Workstation and Delivery System.
2. Preoperative Patient Assessment and Management. Risk of Anesthesia. The Anesthetic plan for Anesthesia Patient. Premedication. Practical Conduct of General Anesthesia. Induction of Anesthesia. Intraoperative Management and Maintenance of Anesthesia. Emergence from Anesthesia.
3. Inhalational Anesthesia. Definition. Pharmacology of Inhalational Anesthetics. Inhalational Anesthesia Technics.
4. Intravenous Anesthesia. Definition. Pharmacology of Intravenous anesthetics. Intravenous Anesthesia Technics.
5. Neuromuscular Physiology and Pharmacology. Pharmacology of Muscle Relaxants and Their Antagonists.
6. Regional Anesthesia. Pharmacology of Local Anesthetics. Regional Anesthetic Technics. Spinal and Epidural Anesthesia. Peripheral Nerve Blocks.
7. Anesthetic Concerns in Subspecialty Anesthesia. Anesthesia for Abdominal, Thoracic, Intracranial, Eye, ENT, Orthopedic and Obstetrical Surgery. Outpatient Anesthesia. Anesthesia Care for Diagnostic or Therapeutic Procedures Outside of The Operating Room.
8. Monitoring and Managing Perioperative Electrolyte Abnormalities, Acid-Base Disorders, and Fluid Replacement. Extracorporeal Body Purification in Critically Ill Patients.
9. Acute Respiratory Failure. Definition. Classification. Aetiology. Pathogenesis. Clinical presentation. Diagnosis and Monitoring. Treatment. Mechanical Ventilation- basic principles. Acute Respiratory Distress Syndrom- Definition, Aetiology, Pathogenesis, Clinical Presentation, Diagnosis and Treatment.
10. Circulatory shock- Definition, Classification, Aetiology, Pathogenesis, Clinical Presentation, Diagnosis and Treatment.
11. Sepsis and Septic Shock- Definition, Classification, Aetiology, Pathogenesis, Clinical Presentation, Diagnosis and Treatment.

12. Evaluation and Management of Severe and Multiple Trauma Patients. Advanced Trauma Life Support- basic principles. Damage Control Resuscitation. Management of Patients with Severe Thoracic, Abdominal and Pelvic Trauma.

13. Nutritional Support for The Critically Ill Patients.

14. Evaluation and Management of Patients with Neurological Emergences- Coma, Cerebrovascular Disease, Severe Traumatic Brain Injury. Intracranial Hypertension- Etiology, Pathophysiology, Clinical Presentation, Diagnosis, Monitoring and Treatment. Brain Death. Management of Brain Dead Organ Donor.

15. Cardiopulmonary Resuscitation: Basic, Advanced and Prolonged Life Support.

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Lecturer: Dr. Kamenov, Dr. Angelova, Dr. Minev,
Dr. Yondov, Dr. Stoilov

Head of Department:
(Prof. Ch. Stefanov, MD, PhD)