



E- College Of Critical Care Medicine Syllabus



Doctor's additional Critical Care Training Module Syllabus

Airway Management with Advanced Skills :

In this Airway Module the below mentioned topics are covered - Functional and Anatomy of the Airway, Basic principles of airway management in critical care area, Critical care Airway Principles, Oxygen Therapy, Airway Pharmacology, Endotracheal Intubation.

Credit Points : 10

Respiratory Critical Care Medicine :

In this Module the below mentioned topics are covered Oxygen Delivery – Physiology of Pulmonary Gas Exchange, Acute Respiratory Failure – Determinants of Oxygenation and Ventilation, Respiratory Acid Base Disorder, ABG Analysis – Clinical Application, ABG Metabolic Disorders, ABG Respiratory Disorders, Non Invasive Ventilation, Invasive Ventilation, General Care of Ventilatory patient, Understanding of heart-lung interaction, Difficult Weaning, Severe Acute Asthma, Acute Exacerbation of COPD , Severe Community Associated Pneumonia, Application of Lung Ultrasound in Critical Care, Acute Pulmonary Embolism, Post-Extubation Stridor.

Credit Points : 24



E- College Of Critical Care Medicine Syllabus



Cardiac Critical Care Medicine :

In this Module the below mentioned topics are covered - Diagnosis and management of shock, Understanding Heart Lung Interaction, How to Assess Fluid responsiveness at bed side, Cardiac output monitoring, Management of left heart failure in Critically ill, Hypertensive Crisis, Acute Pulmonary Embolism, Acute Coronary Syndrome – ST Elevation Myocardial infarction, Acute Coronary Syndrome – Non ST Elevation Myocardial infarction, Cardiogenic Shock, Cardiac arrhythmia : Broad Complex Tachycardia, Pericardial Tamponade, Aortic Dissection.

Credit Points : 22

Neuro Critical Care Medicine :

In this Module the below mentioned topics are covered - Neurological Examination in ICU and Assessment of coma, Monitoring in the Neurocritical care ICU, Management of Acute Ischemic Stroke, Management of Intra Cerebral Haemorrhage & Subarachnoid Haemorrhage, Management of Seizures and Status Epilepticus, Meningitis and Encephalitis for critical care, Anoxic Brain Injury & Brain Death, Spinal Cord Injury.

Credit Points : 13



E- College Of Critical Care Medicine Syllabus



Infectious Diseases & Critical Care Medicine :

In this Module the below mentioned topics are covered - Basics of Blood Culture, CRBSI - Catheter related blood stream infection, CAUTI - Catheter associated urinary tract infection, SSI - Surgical site infection, Antibiotic Rationale in ICU, Approach to Nosocomial infections in ICU, Severe Community Acquired Pneumonia, Nosocomial Infection, Meningitis and Encephalitis for critical care.

Credit Points : 15

Abdomen & Nephro Critical care medicine :

In this Module the below mentioned topics are covered - Acute kidney injury & prevention, Gastro hepatic Critical care .

Credit Points : 5

Obstetric Critical Care :

In this Module the below mentioned topics are covered - Pregnancy & Critical care, Peri-Partum Cardiomyopathy, Severe Preeclampsia & Eclampsia, Management of ARDS in pregnancy.

Credit Points : 6



E- College Of Critical Care Medicine Syllabus



Endocrine Issues in ICU :

In this Module the below mentioned topics are covered - Diabetic Ketoacidosis and Hyperosmolar coma, Approach to Polyuria, Non Thyroid illness syndrome, Diabetes in ICU.

Credit Points : 7

Trauma & Poisoning in Critical care :

In this Module the below mentioned topics are covered - Spinal Cord Injury, Acute Poisoning : Principles and management, Management of the Burn patient.

Credit Points : 7

Radiology for Critical care :

In this Module the below mentioned topics are covered - How to read CT brain, How to read MRI Brain, Computed Tomography for Critical care, MRI Brain for critical care.

Credit Points : 5



E- College Of Critical Care Medicine Syllabus



Advanced mechanical ventilation :

In this Module the below mentioned topics are covered - Respiratory cycle : Trigger, limit, Cycling and basics modes of mechanical ventilation, Ventilator Graphics – -

Part 1, Initiation of Invasive ventilation & Alarm settings, Non-invasive ventilation, Approach to weaning and Difficult weaning, HFNO, Heart Lung interaction, ARDS ventilation, Inhaled Bronchodilator Therapy in Mechanically Ventilated patients.

Credit Points : 17



E- College Of Critical Care Medicine Syllabus

