



E- College Of Critical Care Medicine Syllabus



Certificate of Doctor's additional Critical Care 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, Alternate Intubation Strategies, Special Considerations.

Credit Points : 14

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, Inhaled Bronchodilator Therapy in Mechanically Ventilated patients, Understanding of heart-lung interaction, Difficult Weaning, Severe Acute Asthma, Acute Exacerbation of COPD , Severe Community Associated Pneumonia, Nosocomial Pneumonia, Pulmonary infections in immunocompromised patient , Pulmonary Hypertension, Application of Lung Ultrasound in Critical Care, Acute Pulmonary Embolism, Pleural Diseases in ICU, Bronchoscopy in Critical Care, Post-Extubation Stridor, ARDS ventilation.



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Credit Points : 36

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, Management of Right Heart Failure in Critically, Peripartum Cardiomyopathy, Hypertensive Crisis, Acute Pulmonary Embolism, 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 : 26

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, Intracranial Pressure Monitoring, Management of Acute Ischemic Stroke, Management of Intra Cerebral Haemorrhage & Subarachnoid Haemorrhage, Management of Seizures and Status Epilepticus, Meningitis and Encephalitis for critical care, Diagnosis and Management of Guillain-Barre Syndrome & Myasthenia Gravis in Critical Care, Critical Illness Polyneuropathy & Myopathy, Anoxic Brain Injury & Brain Death, Spinal Cord Injury.

Credit Points : 16



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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, Fungal Infection, Severe Community Acquired Pneumonia, Nosocomial Infection, Pulmonary infections in immunocompromised patient, Meningitis and Encephalitis for critical care.

Credit Points : 18

Abdomen & Nephro Critical care medicine :

Acute kidney injury & prevention, Gastro hepatic Critical care .

Credit Points : 5

Obstetric Critical Care :



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Pregnancy & Critical care, Peri-Partum Cardiomyopathy, Severe Preeclampsia & Eclampsia, Management of ARDS in pregnancy.

Credit Points : 6

Endocrine Issues in ICU :

Diabetic Ketoacidosis and Hyperosmolar coma, Approach to Polyuria, Non Thyroid illness syndrome, Diabetes in ICU.

Credit Points : 7

Trauma & Poisoning in Critical care :

Spinal Cord Injury, Acute Poisoning : Principles and management, Management of the Burn patient.

Credit Points : 7

Radiology for Critical care :

How to read CT brain, How to read MRI Brain, Computed Tomography for Critical care, MRI Brain for critical care.

Credit Points : 5



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Advanced mechanical ventilation :

Ventilator Graphics – Respiratory cycle & Pressure Time Scalar, Ventilator Graphics – Flow Time scalar & Volume Time Scalar, Ventilatory graphics – Loops, Ventilatory Graphics – Modes of ventilation, Initiation of Invasive ventilation & Alarm settings, Non-invasive ventilation, HFNO, Heart Lung

interaction, ARDS ventilation, Inhaled Bronchodilator Therapy in Mechanically Ventilated patients, Approach to weaning and Difficult weaning.

Credit Points : 17

Miscellaneous Topics :

Ethics and End of life cycle.

Credit Points : 2

Tropical Infections :

H1N1, HIV, Typhus Fever, Dengue, Malaria, Leptospirosis, Tuberculosis.

Credit Points : 16



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