

FICCM

Fellowship In Critical Care Medicine



PROSPECTUS



CIPACA
SAVING LIVES

24x7 Emergency & ICU Services



INSTITUTE PROFILE

CIPACA (Chennai Interventional Pulmonology and Critical Care Associates) is a team of doctors, nurses, medical, paramedical and business development professionals specialized in establishing tertiary level Multidisciplinary Critical care units, specially designed to cater semi-urban and rural areas.

In India 70 percent of population resides in rural areas & suburbs, whereas more than 70 percent of the specialist doctors are located in metropolitan cities. In our country approximately 80% of the tertiary care level ICU beds are available only in metropolitan cities.

CIPACA strives to bridge this gap by making the best Critical Care available to the patients across hospitals of different levels by setting up, maintaining and managing ICUs with International standards. For rural areas, CIPACA provides Remote monitoring & Tele ICU services.

MISSION

- To make the best Critical Care available to every patient in the hospitals of ural and Suburb regions.

OBJECTIVES

- To collaborate with hospitals of different levels and provide customized solutions for setting up and management of Emergency and ICU services.
- To deliver the best critical care and to avert every preventable complication while managing ICU patients.
- To create Multi-Disciplinary ICU teams providing 24X7 services effectively handling complex problems like Sepsis, Traumatic Brain Injury, Cerebral Hemorrhage, Myocardial Infraction, Heart Failure, Severe Pneumonia, Acute Respiratory Failure, Acute Pancreatic, Liver Failure, Renal Failure etc.



WE PROMISE TO PROTECT YOUR RIGHT

Accessibility to life-saving critical care is every citizen's right and it should be provided equally to every sick patient whether in a city or a town or a village.

At CIPACA, we believe that each critically ill patient must receive an individualized care from a specialized ICU team, even in a village.

That is why, every ICU-designed, managed or remotely monitored by CIPACA will offer the best chance for recovery of every critically ill patient.



COURSE CURRICULUM

TRAINING METHOD:

Clinical work, Hands on training, Bedside Teaching, Theory classes, Weekly conferences, journal club, chapter reviews and morbidity and mortality meetings

- ◆ ACLS & ATLS
- ◆ Attending regional & national conferences

TRAINING OBJECTIVES:

Resuscitation of the critically ill

Fundamentals of critical care management

To gain experience in the recognition, triage and management of a wide variety of acute illnesses and performance of invasive procedures

Skills to be acquired through the training:

- ◆ Handling emergencies & critically ill patients
- ◆ Educating paramedical professionals
- ◆ Handling the ICU equipment.
- ◆ Orientation to principles of ethical critical care.

Roles and responsibilities that can be taken up by the candidate after the successful completion of the course:

To be an effective team player in a tertiary care level ICU team

RESUSCITATION OF CRITICALLY ILL PATIENT

- ◆ Airway, breathing and circulation during CPR, BLS, ACLS & ATLS
- ◆ Pathophysiology and Management of shock
- ◆ Acid base Disorders and Electrolyte Management
- ◆ Blood transfusion and fluid therapy
- ◆ ECG and diagnosing arrhythmias
- ◆ Vitals & Hemodynamic monitoring
- ◆ Basics of Echocardiography and Ultrasound
- ◆ All lifesaving & ICU procedures
- ◆ Transportation of critically ill patient



COURSE CURRICULUM

FUNDAMENTALS OF ICU MANAGEMENT

1. Basics of daily care of ICU patient
 - ◆ Sedation and Analgesia in ICU
 - ◆ Nutrition and Ulcer prophylaxis
 - ◆ Coagulation and DVT prophylaxis
 - ◆ Glycemic control
 - ◆ Severity assessment & Prognostication
2. Sepsis, severe sepsis and multiple organ dysfunction syndrome
3. Fluid & Electrolyte therapy
4. Respiratory Problems
 - ◆ Oxygen therapy & Mechanical Ventilation
 - ◆ Acute Lung Injury and Acute respiratory distress syndrome
 - ◆ Chronic obstructive pulmonary diseases & Asthma
 - ◆ Pneumonia - community acquired & nosocomial
 - ◆ Pulmonary embolism
5. Cardiovascular Problems
 - ◆ Acute Myocardial infarction
 - ◆ Acute heart failure
 - ◆ Pericardial diseases
6. Hepatic & Gastroenterological Problems
 - ◆ Acute gastrointestinal bleeding
 - ◆ Severe acute pancreatitis
 - ◆ Acute Hepatic failure
 - ◆ Chronic decompensated liver disease with complications
 - ◆ Peritonitis and intra-abdominal infections
7. Haematology and Oncology problems
 - ◆ Blood Transfusion
 - ◆ Anaemia and bleeding disorders
 - ◆ Haematological malignancies
 - ◆ Oncologic emergencies
8. Obstetric problems
 - ◆ Obstetric emergencies in ICU
9. Central nervous system Problems
 - ◆ Management of stroke and cerebrovascular complications
 - ◆ Seizures in critically ill
 - ◆ Neuromuscular disorders in ICU
 - ◆ Psychiatric issues in ICU
10. Renal disorders
 - ◆ Acute renal failure
 - ◆ Chronic renal failure with other complications
 - ◆ Electrolyte & Acid base problems
 - ◆ Renal replacement therapy
11. Diabetes in ICU Patient
 - ◆ Management of diabetes in critically ill patients
 - ◆ Diabetic emergencies
12. Surgical Problems
 - ◆ Surgical problems in Intensive care
 - ◆ Management of post-operative patient
 - ◆ Acute abdomen
 - ◆ Pressure sore prevention, Necrotizing fasciitis and soft tissue infections
13. Trauma
 - ◆ Critical Care of a Trauma Patient
 - ◆ Traumatic brain and spine injury
 - ◆ Thoracic trauma
 - ◆ Abdominal and pelvic injury
 - ◆ Disaster management
 - ◆ Transport of a Polytrauma patient



COURSE CURRICULUM

14. Environmental injuries

- ◆ Burns and hypothermia
- ◆ Near drowning
- ◆ Management of acute poisoning

15. Infections

- ◆ Approach to fever in ICU
- ◆ Severe community acquired infections
- ◆ Hospital Acquired infections
- ◆ Prevention and control of Nosocomial Infections in ICU

16. ICU radiology

- ◆ X rays
- ◆ CT & MRI
- ◆ Bedside USG and ECHO in ICU

17. ICU Procedures:

Bag mask ventilation, LMA and multilumenesophageal airway insertion, Oropharangeal and nasopharyngeal airway, cricothyroidotomy, Percutaneous tracheostomy, Endo tracheal intubation and advanced airway management, Decompression of pneumothorax, Thoracentesis, Intercostal drainage tube placement, Bronchoscopy, Peripheral IV

access, Arterial puncture, ABG sampling, Central Vascular access, CVP monitoring, Invasive hemodynamic monitoring, Cardiopulmonary resuscitation, Basics of ECG, Rhythm recognition, Defibrillation and cardio version, NG tube insertion, Urinary Catheter insertion, Lumbar puncture, Inline immobilization, Application of cervical collar, Nasojejunal tube placement, Abdominal paracentesis, Suprapubic catheterization, Hemodialysis, CRRT, ultrasonography & Echocardiography.

18. Clinical Pharmacology:

- ◆ Pharmacokinetics, pharmacodynamics, complications and drug interactions of the commonly used ICU drugs

19. End of Life care

- ◆ End of life care
- ◆ Palliative care
- ◆ Brain death
- ◆ Organ donation

20. Transportation of critically ill patient:

- ◆ Position, splinting, haemostasis, hemodynamic monitoring, oxygenation, ventilation

EXAMINATION PATTERN

Evaluation:

Students will be evaluated throughout their postings on

- ◆ Their ability to care for the critically ill – clinical knowledge, procedural skills, decision making, team spirit, resuscitation skills.
- ◆ Their interaction with patients & attendants
- ◆ Their interaction with residents, other staff members
- ◆ Teaching skills
- ◆ Ethical aspects in critical care

Assessment: After 1yr

Total: 500 marks

Theory: 300 marks **Practicals:** 125 marks **Viva:** 50 marks

Log book: 25 marks

Pass: 50% **1st Class:** 75% **Distinction:** 90%

Paper1: 150 marks – 150 Objective type MCQs – 120 min- Basic resuscitation

Paper2: 150 marks – 150 Objective type MCQs – 120 min- Fundamentals of critical care

Practical: 200 marks

1 Long case: 75 marks – 1 major system

2 short cases: 25 marks each- total 50 marks

Viva: 50 marks

5 Stations - each 10 marks

1. Specimens,
2. Acid base interpretation,
3. ECG & Radiology
4. Communication skills
5. End of life care

Log book: 25 marks

Note: Application form is enclosed

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