Merck Foundation
Capacity Advancement Program

Postgradute Diploma in Emergency and Resuscitation Medicine

Resuscitation is a constantly evolving domain that covers emergency medicine, intensive care medicine, anaesthesia, and acute medicine. Early detection and resuscitation of serious illness saves lives and reduces suffering of patients.

Resuscitation medicine is evolving into a subspecialty of medical care. This course aims to provide practising doctors and physician associates with invaluable and thorough expertise in this field.

Postgraduate Diploma in Emergency and Resuscitation Medicine, University from UK	
Duration	21 - Months online learning platform

Eligibility:

- Bachelor's degree in Medicine and Surgery (Primary Medical Qualification) (e.g.: MBBS or MBChB)
- Two or more years' basic training in emergency medicine/anaesthesia/general medicine/cardiology/acute surgery/intensive care medicine/pre-hospital care (Intern/house officer/FY1 pre-registration experience is not counted as basic training)
- Recommendation from the Ministry of Health or Office of The First Lady (For Asian Countries- Recommendation letter from The Ministry of Health or Vice Chancellor/Dean/Rector of the Medical University or President of respective Society or Medical Association)
- A minimum of two years basic training in emergency medicine/anaesthesia/general medicine/cardiology/acute surgery/intensive care medicine/pre-hospital care (Intern/house officer/FY1 pre-registration experience is not counted as basic training)
- Candidates working within a public sector clinical setting (Preferably) with the aim to continue working in the public sector after graduation, in order to improve patient access to quality and equitable healthcare solutions
- Current employment in emergency medicine, critical care, acute medicine, observation medicine or pre-hospital care. Part time work of at least two days per week is accepted.
- Proof of English language proficiency (details provided below)
  - If you got your degree in an English-speaking country or if it was taught in English, and you studied within the last five years, you might not need an English language qualification
- Accessibility to stable Internet connection

Course Structure

The online course lasts 21 Months and is a distance learning course. It consists of:

- **Eight compulsory modules**

- Emergency Management of Severe Trauma
- Fundamentals of Research
- The Physiology of Shock, Shock Syndromes and Tools of Resuscitation
- Cardiac Arrest, Airway Management, Oxygenation, Analgesia and Procedural Sedation
- Emergency Care
- Diagnostic Tools in Critical Illness
- Toxicology and CBRN

Module 1 – Emergency Management of Severe Trauma

Synopsis of Module:

- The impact of trauma on society and the national / system-wide approach to trauma care will be discussed in this module.
- The assessment, classification, resuscitation, and treatment of major trauma are then discussed system by system.
- The cellular and metabolic effects of trauma are discussed in the final section of the module.

Module 2 – Fundamentals of Research

Synopsis of Module:

- This module will teach students the fundamental skills needed to succeed in clinical medicine, such as how to read a text, critically appraise medical literature, design medical research, statistical analysis, and research methodology.
- Students will get hands-on experience scanning the medical literature for answers to specific questions, as well as exposure to a number of literature databases and the skills needed to review scientific literature.
- The cellular and metabolic effects of trauma are discussed in the final section of the module.

Module 3 – Thyroid, Parathyroids and Bone

Synopsis of Module:

- This module will students how to recognize patients in shock, assess which patients need resuscitation, and look at the resources that can help.
- Students will go over the most common causes of shock and how to classify shock syndromes, maximize the cardiovascular response to shock, choose resuscitation fluid therapy (dose/type), and choose which inopressors to use.
- Students will develop a greater understanding of cardiovascular physiology as well as a consistent and thorough understanding of what resuscitation.

Module 4 – Cardiac Arrest, Airway Management, Oxygenation, Analgesia and Procedural Sedation

Synopsis of Module:

- Students will be learning about oxygen delivery, advanced airway care, respiratory support, procedural sedation/analgesia, and cutting-edge cardiorespiratory arrest treatment in adults and infants.
- The processes of respiratory failure, non-invasive ventilation, and advanced airway treatment will be covered in the first part of the module.
- In the final section of the module, you will focus on the critically ill child and mother.

Module 5 – Emergency Care

Synopsis of Module:

- This module will cover a wide variety of acute medical disease processes, allowing students to gain a better understanding of their pathophysiology and clinical manifestations.
- Acute coronary syndromes, diabetic and non-diabetic endocrine emergencies, acute non-traumatic and traumatic neurosurgical emergencies, and infectious disease and tropical medicine.

Module 6 - Diagnostic Tools in Critical Illness

Synopsis of Module:

- This module will teach you how to perform diagnostic workup in the beginning phases of resuscitation.
- Student's ability to interpret bedside metabolic parameters obtained from blood gas analysis, as well as ability to interpret chest radiographs and acute computed tomography imaging as used in critical illness acute care shall enhance.

Module 7 – Toxicology and CBRN

Synopsis of Module:

- This module will teach students about acute toxicology in the context of serious illness.
- Students will learn about toxidromes, how to diagnose toxicity, and how to treat both supportive and toxin-specific treatment along with patient decontamination and operating in a CBRN (chemical, biological, radiological, and nuclear) environment safely.

Compulsory/Core Elective modules

Module - Pre-Hospital Care and Mass Casualties

- In this module, students will learn about scene management, critical care interventions, and mass casualty incidents, among other topics in the pre-hospital care setting.
- Aim of this module is not to provide pre-hospital care instruction, but rather to provide anunderstanding of specific issues that arise in the pre-hospital setting.

Module – Paediatric Emergency Medicine

- Students can learn about airway control, critical care procedures, and typical paediatric emergencies, among other topics in the field of paediatric resuscitation.
- Aim of this module is to provide an understanding of specific issues related to paediatric resuscitation rather than to provide training in paediatric emergency medicine.

Assessment

Assessments would comprise of:

- Written assignments
- Multiple Choice Question (MCQ)
- Quizzes
- Short recorded presentations In addition to a series of online lectures from academics, students will gain invaluable insight from guest speakers and develop communication skills in interactive seminars and lively group discussions

English language requirements:

- IELTS Academic: 6.5 overall including 6.0 in Writing, and 5.5 in Reading, Listening and Speaking.
- TOEFL: 92 overall including 21 in Writing, 18 in Reading, 17 in Listening and 20 in Speaking.
- PTE Academic/PTE Academic UKVI: 62 overall including 57 in Writing, and 51 in Reading, Listening and Speaking.

- C2 Cambridge English: Proficiency (CPE): 176 overall including 169 in Writing, and 162 in Reading, Listening and Speaking.
- C1 Cambridge English: Advanced (CAE): 176 overall including 169 in Writing, and 162 in Reading, Listening and Speaking.
- Trinity College London, Integrated Skills in English (ISE): either ISE II with a minimum of Distinction in Writing, Reading, Listening and Speaking, or ISE III with a minimum of Pass in Writing, Reading, Listening and Speaking.
- TOEFL iBT Special Home Edition and the IELTS Indicator Test will be accepted. These tests are being offered temporarily with the same format and scoring as the original tests.

Please note, we will only consider IELTS Indicator tests taken from 1 July 2020 onwards

Applicants should submit copies of the following with their application:

- A copy of your updated CV including your address and date of birth.
- Copy of qualification certificates.
- English language qualification.
- Personal statement.
- Recommendation from the Ministry of Health or Office of The First Lady (For Asian Countries- Recommendation letter from The Ministry of Health or Vice Chancellor/Dean/Rector of the Medical University or President of respective Society or Medical Association)
- Income proof (one month Salary/Pay slip or Salary Statement or 3 months bank statement)