



FELLOWSHIP IN

EMERGENCY MEDICINE

About Us

Medvarsity Online is Asia's largest healthcare Ed-Tech company, with over 2 lakh medical professionals trained and certified. Our partnerships with leading universities globally enable us to present the best courses and faculty to our students and help them meet their learning goals.

Medvarsity is on a mission to bridge the gap of skilled medical professionals with over 150 courses in clinical & management areas for doctors, nurses, and general management personnel, covering specialties like Diabetes, Emergency Medicine, Cardiology, Nutrition, Wellness, Healthcare Informatics, Mental Health & more, with all the content being up-to-date.

Medvarsity has presence across 10 locations in India and students across India, Middle East, Africa, and South-East Asia. Our blended training solutions combine the best of traditional e-learning, live virtual classes, clinical bedside learning, mobile learning models to deliver impactful courses to our students.

Royal Liverpool Academy

The Royal Liverpool Academy is the academic centre of the Royal Liverpool & Broadgreen University Hospitals Trust which is a pre-eminent University teaching hospital. It is one of the largest Teaching Hospitals in the UK and has one of the largest Emergency Departments in the UK. Its aim is to provide high-quality healthcare education by deriving this from the high-quality research that is produced and clinical services that are delivered from within the Trust. The Royal Liverpool Academy is pleased to partner with Medvarsity in the delivery of the Fellowship in Emergency Medicine Course.

Roles and Responsibilities of the Royal Liverpool Academy

- The Royal Liverpool Academy will provide an external quality assurance mechanism through Curriculum design and structure
- Provision of resources including reading lists, videos, web links and "apps" to specific areas of Emergency Medicine
- Viva examination design, structure and content, ensuring a uniform marking system throughout all centers
- Periodic attendance by a Royal Liverpool Academy representative at the viva examination.
- These measures will be carried out by highly qualified consultants in emergency medicine, acute medicine and intensive care medicine, who will ensure that the DEM course remains an extremely high quality and externally validated course.

Why Fellowship in Emergency Medicine

Emergency medicine has recently been recognized in India as a separate discipline which needs maximum care to prosper and cater the demanding challenges we are now facing in the country. There is an exponential growth seen in the field of Emergency Medicine in India which has changed the EMS

scenario in the country drastically. It has progressed from being only available in urban areas to becoming accessible pan-India.

To tackle the millions of accident cases that were recorded in India, there is an urgent need for trained emergency physicians.

About Fellowship in Emergency Medicine

"Fellowship in Emergency Medicine" is a one year program designed to train students with the International standards of training in emergency care. This course will help the doctors enhance their knowledge and skills required for the prevention, diagnosis and management of acute and urgent aspects of illness and injuries affecting patients of all age groups. This course will enable the students to build competencies in triaging patients, identification and treatment of life-threatening emergencies, resuscitating a critically ill patient and performing lifesaving procedures in addition to having good communication and counselling skills. This course is especially aimed at doctors interested in enhancing their emergency care skills or willing to build a career in Emergency Medicine. Any MBBS graduate registered with a State Medical Council or the Medical Council of India (MCI) is eligible to take this course. This course presents multiple career opportunities to doctors willing to pursue this specialty. Apart from being consultants in Emergency Department, Emergency Physicians can become the best Emergency Department administrators, Emergency Medical Services (EMS) directors, EMS and Paramedic trainers, Disaster planning consultants, EM research directors, first aid trainers for non-medical personnel, etc. This course also serves as a foundation for the Membership of Royal College of Emergency Medicine, UK. This course is accredited by Royal Liverpool Academy (RLA), UK and jointly certified by RLA and Medvarsity.

Admission Process

Fellowship in Emergency Medicine has two intakes every year, one in January and another in July. Any student eligible to join the course will get an opportunity to choose a location of their choice depending on the availability of seats in the training hospitals in a particular location. Once the choice of training hospital is made, an interview will be scheduled with the clinical trainer of that hospital. The interview with the ER trainer is mainly focused on assessing the dedication and commitment of the student towards the course.

Value Proposition

Structured Program

- Streamline content and optimized course sequence
- Melding of basic science and clinical concepts throughout the curriculum

Contact Program at Multiple Centers throughout the country

Contact program held at 34 different centers across India and outside to help students choose the convenient and accessible centers.
12 months of training by experienced and qualified doctors from Accredited training Hospitals.

Lectures by eminent faculty

Live sessions and virtual classroom sessions by most experienced and distinguished faculty from Apollo Hospitals and Apollo Institute of Medical Sciences and Research.

Content Quality Assurance by RLA, UK.

Content developed and reviewed by experts and quality assured by Royal Liverpool Academy, UK.

Interactive Multimedia Content

Learning from multimedia resources like e-books, PowerPoint Presentations, Animations and videos

Final Evaluation and Certification by RLA

Final Evaluation by Faculty of RLA and Faculty of Training Hospitals. Joint Certification by Medvarsity and Royal Liverpool Academy, UK.

Course Details

The course syllabus will be covered under 12 modules spread across 12 months

Module - 1

Introduction & Overview

Emergency Medicine Department

Organization of EMD, Organization of Emergency MS, Disaster Management

Legal Aspects of Emergency Medicine

Introduction

Module - 2

Airway Management

Introduction

Mechanical Ventilation

Introduction, Specific Modes of Ventilation, General Classes of Ventilators, Non-invasive ventilation, Weaning

Module - 3

Trauma & Orthopaedics

Trauma Emergencies

General approach to Trauma Patient, Traumatic Shock, Thoracic Trauma, Stab Wounds, Pelvic Trauma, Genitourinary Trauma, Paediatric Trauma, Trauma in Pregnancy, Penetrating and Blunt Neck Trauma

Emergency Department Imaging

Emergency Department Sonography, Diagnostic Imaging in Emergency Medicine

Neurology in trauma

Management of Head Injuries, Cerebral protection in Head injuries, Spinal Injuries

Orthopaedic Emergencies

Types of Orthopaedic Emergencies, Fractures, Penetrating and Blunt Neck Trauma, Basic management of Orthopaedic Emergencies, Hand and Wrist injuries, Forearm, elbow and shoulder injuries, Pelvis, Hip and Ankle injuries, Lower Leg and Ankle Injuries, Complications of Orthopaedic injuries

Royal | Liverpool | Academy

The Academic centre of the Royal Liverpool and Broadgreen University Hospitals NHS Trust



Module - 4

Wounds & Analgesia

Wound Assessment and Management

Principles of Wound Management, Methods of Wound Closure

Local Anaesthetics and Anaesthesia

Introduction, Bupivacaine, Lidocaine Hydrochloride, Nerve Blocks

Analgesia in Emergency Room

Introduction

Chronic Pain Management

Introduction

Module - 5

Medical Emergencies Part I

Cardiac

Approach to Chest Pain, Cardiogenic Shock, CCF, Drugs and Interventions, Syncope, Cardiac Arrhythmias

Respiratory

Acute Respiratory Failure, Asthma / Bronchial Asthma, COPD, PE and DVT, Haemoptysis 1 & 2, LRTI, Pleural Effusions, Pneumothorax, Mycobacterial Emergencies, Non-Cardiogenic Pulmonary Oedema

Module - 6

Medical Emergencies Part 2

Endocrine Emergencies

Hypoglycaemia, Diabetic Ketoacidosis, NKH Coma, Alcoholic Ketoacidosis, Lactic Acidosis, Thyroid Storm, Myxoedema Coma, Adrenal Crisis, Management of DKA in Adults and Children

Neurology

CNS infection, Altered mental status and coma, Stroke Emergencies

Psychiatric

Introduction, Anorexia Nervosa & Bulimia Nervosa, Panic Disorder, Conversion Reactions, Depression & Suicide

Septic shock

Introduction

Module - 7

Medical Emergencies Part 3

Acid-Base Balance and Electrolyte Disorders

Acid-base balance & Interpretation of Blood Gas results, Electrolyte Disorders

Renal Failure

Acute, Chronic

Gastrointestinal & Hepatobiliary

Hepatic Encephalopathy, Portal Vein Thrombosis, IBD, Gastroenteritis, Diverticular disease, Hepatitis, Fulminant Hepatic Failure, Acute pancreatitis, Management of Acute Bleeding Esophageal varices

Module - 8

Surgical and Transfusion Emergencies

Surgical Emergencies

Abdominal Trauma, Surgical Emergencies, Acute Cholecystitis, Diverticular Disease, Esophageal Perforation, Haemorrhoids, Inflammatory Bowel Disease, Anorectal Disorders, Pancreatitis, Anal Fissures and Fistulae, GI Foreign Bodies, Oropharyngeal Foreign Bodies, Rectal Foreign Bodies, AAA, Acute Mesenteric ischaemia, Intestinal Obstruction

Transfusion Emergencies

Introduction



Module - 9

Obstetric, Gynae & Paeds Emergencies

Obs and Gynae Emergencies

Pelvic Pain, Ectopic Pregnancy, Vaginal Bleeding during Pregnancy, Hypertension in Pregnancy, Emergency Delivery, Vaginitis, Cervicitis and PID, Amenorrhoea, Sexual Assault

Paediatric Emergencies

Approach to the ill Paediatric Patient, Pain, SIDS, Ingested Foreign Bodies, RTI, Bronchiolitis, Pharyngitis, Epiglottitis, Pneumonia Syndrome, Otitis Media, Congenital Heart Disease, Kawasaki Disease, Bacteremia, meningitis and sepsis, GIT Disorder, Intestinal Obstruction, Incarcerated hernia, Pyloric Stenosis, Intussusception, Seizures, Meckel's Diverticulum, Appendicitis, Status Epilepticus, Child Abuse



Module - 10

Toxicology

Approach to the Poisoned patient, Antidotes commonly used in Overdoses, Treatment of Hypotension Associated with Drug Poisoning, Carbon Monoxide Poisoning, Illicit Drug & Controlled Substances of Abuse, Alcohol Withdrawal, Digitalis Toxicity, Calcium Channel Blocker Toxicity, Acetaminophen Hepato -Toxicity, Salicylate Overdose, Tricyclic Antidepressant Overdose, Monoamino Oxidase Inhibitor Overdose, Arsenic Poisoning, Cyanide Poisoning, Iron Poisoning, Serum Osmolality, Lithium carbonate Overdose, Ethanol Poisoning, Ethylene Glycol Poisoning, Poisoning Management

Module - 11

Ear & Eye Emergencies

Otolaryngeal Emergencies

Acute Airway Obstruction, Obstruction due to Foreign Body, Epistaxis, Anterior Epistaxis, Posterior Epistaxis, Nasal Fracture

Ophthalmic Emergencies

Corneal Abrasion, Glaucoma, RedEye

Module - 12

Environmental Emergencies

Environmental Emergencies

Frostbite, Heat Exhaustion & Heat Stroke, High Altitude-Pulmonary Symptoms, High Altitude cerebral Symptoms, Hypothermia

Burns

Chemical Burns, Electrical Burns, Lightning Burns, Thermal Burns, Inhalation-Smoke

Dive Emergencies

Barotrauma, Near Drowning

Emergency Department Anaphylaxis

Introduction

Emergency Dept. Bites & Stings

Bee Sting, Animal Bites, Human Bites, Insect Bites

Envenomation

Envenomation-Cobra, Envenomation-Scorpion, Snake Bite
Emergency First Aid Information

Objectives

- To understand the Emergency Medical Services.
- To learn clinical knowledge and skills to quickly assess and manage emergencies.
- To perform a complete and appropriate assessment of acutely ill patients, i.e. a well-organized history and physical examination.
- To select appropriate investigations including laboratory and diagnostic imaging, with careful attention to patient safety, diagnostic utility and cost to interpret the results accurately and within their clinical context

- Differential diagnosis of common illnesses presenting to the emergency department.
- To be familiar with the equipment and drugs used in emergencies and use the therapeutic interventions in a safe, effective, appropriate and timely manner.
- Demonstrate the proficient and appropriate use of procedural skills, both diagnostic and therapeutic.
- Learn to establish good patient-doctor relationships in the acute care settings.



Eligibility

MBBS graduates with MCI registration

Duration

120 Hours of learning content

1-year full time

Learning methodology:

Online Learning

The online learning program will be for a duration of 120 Hours. The online content shall be in the form of e-books, case studies, animations on concepts, recorded videos of lectures covering the module content supported by live lectures and hands-on training during the contact program. A login username and password will be provided to access the content of the learning management system. You can access the course content on a computer or mobile phone at your convenience.

Live Virtual Classes (Webinars)

With healthcare industry undergoing so many advancements, staying updated about latest trends, technologies and guidelines have become vital. Additionally, having these updates through a healthy discussion with experienced clinicians will be the focus of our learning curriculum. Live virtual classes will provide an opportunity for the participants to listen to expert presentations and interact with them through webinars.

Assessment

Attested log book by the ER trainer

MCQ based online module-wise assessment

A minimum of 60% is required in each module

Final Examination: Paper 1 - Theory (100 marks), Paper 2 - MCQ's (200 marks)

To be eligible for the final exam, the candidate should have successfully completed all the module tests online, should have submitted the duly signed logbook and completed 12 months of clinical training.

Viva Format

The viva examination will have 3 stations/examiners

Station Examiner 1: Medical Emergencies with a mix of Obstetrics + Gynecology or Pediatric emergencies

Station Examiner 2: Rhythm recognition and defibrillation (compulsory)

Station Examiner 3: A mix of Trauma & Orthopedics or Surgical Emergencies

Certification:

The overall marks shall be the average score of all three stations

Rhythm recognition and defibrillation station is a compulsory pass. A candidate will fail the overall viva if he/she doesn't pass this station.

Examiners' expectation: Overall the examiners would be looking for a structured, safe approach and firstly doing no harm, with the candidates looking to seek seniors help if necessary.

On successful completion of the log book and final exam with a minimum of 90% attendance in theory and clinical sessions, the students will be awarded the "Fellowship in Emergency Medicine" jointly by Medvarsity and The Royal Liverpool Academy.

Contact Program & Centers

During the 1 year program, the candidate will be posted in the emergency department of accredited hospitals to gain a hands-on training experience under the expertise of trained Emergency Medicine specialists.

Contact Centers: Dhaka, Mumbai, Delhi, Hyderabad, Bangalore, Chennai, Pune, Ahmedabad, Trivandrum, Bilaspur, Indore, Bhubaneswar, Kolkata, Ludhiana, Mysore, Trichy, Vishakhapatnam, Kakinada, Karimnagar, Patiala, Palamvihar (Gurgaon), Nellore(AP), Ongole(AP), Nizamabad and Kurnool.

Competency framework for acquisition of skills

The students are expected to acquire the following skills by the end of the training period:

Compulsory:

- Rhythm recognition and defibrillation
- Lumbar puncture
- Chest drain insertion
- Needle and tube thoracotomy
- Basic and advanced airway management
- Splinting and reduction of common dislocations
- Nasal packing
- Suturing and wound care
- Spinal immobilization and log roll
- Peripheral and central IV cannulation (femoral and internal jugular)

Desirable:

- BIPAP and CPAP use
- Closure of open pneumothorax
- Needle and surgical cricothyroidotomy

Along with these, the student is expected to interpret X-rays and CT scans





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