

# MASTERS IN EMERGENCY MEDICINE (INTERNATIONAL) THREE YEAR POST GRADUATE PROGRAM IN EMERGENCY MEDICINE

In association with THE GEORGE WASHINGTON UNIVERSITY  
Ronald Reagan Institute of Emergency Medicine, Washington Dc, USA



In association with:



**AMRI**  
*HOSPITALS*  
get well sooner



# MESSAGE FROM THE CEO

Mr. Rupak Barua

*We are happy to announce that AMRI Hospitals, one of the most trusted names in healthcare, is back on its growth track again. We are in the process of introducing sweeping changes to infuse new vigour into the Group. AMRI today ensures better goalposts, improved trust, clarity of vision and faster business and strategic decisions. In keeping with the Group's ethos of providing best quality services at competitive rates, AMRI Hospitals today is managed by professionals of a high order.*

*We have started business process re-engineering with the focus on the group concept rather than individual unit concept. Now each unit has to follow the group SOPs, which are being chalked out keeping patient safety and quality in mind. HR Department is focusing more on talent acquisition and management.*

*We are in the phase of consolidation and stabilisation of our existing projects. We have started our 400 bed Bhubaneswar unit in Odisha, located on the Khandagiri Bypass to fill the void of super specialty highly advanced healthcare facility in the state of Odisha. Our Dhakuria unit has also started operation. Our Mukundapur Unit, which initially began as Women and Children hospital, is now functioning as tertiary care. The 1<sup>st</sup> batch of MEM Students have been successfully inducted and are being trained. The course is of immense help to them for a bright future. And now we are inviting application for the second batch. We have an ambitious plan of investing Rs. 1,000 crore in the next five years. We are striding ahead to break new grounds and position.*

*I wish you all health and happiness.*

**AMRI today ensures better goalposts, improved trust, clarity of vision and faster business and strategic decisions,**

**Rupak Barua**  
Group CEO



# MESSAGE FROM THE COURSE DIRECTOR

Dr. Jeffrey Smith

*It is with great pleasure and excitement that the faculty of the Department of Emergency Medicine of the George Washington University closely collaborates with the faculty from AMRI BHUBANESHWAR to begin a three-year Masters in Emergency Medicine programme. This is the first-of-its kind programme of its kind in the region as AMRI recognises the need to ensure that the public has access to quality emergency care.*

*Emergency Medicine is one of the newest specialties recognised by the Medical Council of India. It acknowledges the critical need for specialised training in all aspects of emergency medical, surgical, pediatric, obstetric, gynecologic and trauma care. Additionally, the specialty of emergency medicine includes unique expertise in pre-hospital EMS, critical care medicine and many components of disaster preparedness and response. Emergency Medicine is a very*

*young yet rapidly developing specialty in India and recent and current trainees are the pioneers who will ultimately determine the breadth and depth of this specialty in India.*

*The Department of Emergency Medicine at George Washington University is one of the oldest academic Emergency Medicine departments in the United States with over 45 faculty members and 40 emergency medicine residents in training. The faculty provides clinical emergency care at three hospitals, and has well-established academic expertise in emergency medicine education, clinical research, emergency ultrasonography, emergency health policy, disaster preparedness, EMS education, injury prevention outreach, toxicology, and international emergency medicine development.*

*This three-year Masters in Emergency Medicine Programme mirrors the three-year*

*Emergency Medicine Residency Training Programmes in the USA. It is critical that the same rigorous educational and training standards used at our GW programme are maintained in this MEM program. Till date, our faculty have had great success in implementing similar programmes over the past several years in New Delhi, Calicut, Kolkata, Chennai, Bangalore, and Madurai.*

*This programme begins to fill a need for training Emergency Medicine physicians in Bhubaneswar. AMRI is firmly committed to the collaborative effort with George Washington University to make this one of the best MEM programmes in India.*

## THREE-YEAR EMERGENCY MEDICINE RESIDENCY TRAINING PROGRAMMES IN THE USA

Dr. Jeffrey Smith, MD, MPH, FACEP  
Director, Ronald Reagan Institute of Emergency Medicine  
George Washington University Medical Center  
Washington DC, USA  
E-mail: [jsmith@mfa.gwu.edu](mailto:jsmith@mfa.gwu.edu)

# COURSE OVER VIEW

Emergency Medicine (EM) is a relatively new specialty that is expanding at a phenomenal pace throughout the globe. Within the international community, leaders in medicine, health economics, public health and government have recognized the need to develop systems that respond to acute medical and surgical emergencies. Emergency medicine is the unique discipline and independent specialty with a unique body of knowledge to respond to these life-threatening events.

According to the curriculum of the College of Emergency Medicine (CEM) United Kingdom, Emergency medicine is a field of practice based on the knowledge and skills required for the prevention, diagnosis and management of the acute and urgent aspects of illness and injury affecting patients of all age groups with a full spectrum of undifferentiated physical and behavioral disorders. It is a specialty in which time is critical.

Emergency medicine has evolved globally to include added responsibilities in the areas of management of medical and administrative aspects of emergency services system, disaster planning and management for both natural and manmade events, toxicology and poison center development, preventive medicine, basic and clinical research, especially in resuscitation methods and acute interventions.

The AMRI Hospitals has recognized the need to train highly-skilled physicians to treat patients with acute medical conditions.

The Ronald Reagan Institute of Emergency Medicine (RRIEM) at the George Washington University, which has extensive experience

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training health care practitioners throughout the US and across the globe, has collaborated with the medical faculty at AMRI hospitals to launch a 3-year full time Masters in Emergency Medicine Programme, which will train 12 fellows per year with optional elective training at RRIEM.

# THE UNIVERSITY



The Department of Emergency Medicine at the George Washington University is the seventh largest Academic Emergency Medicine Department in the United States. The Department runs postgraduate programmes in Emergency Medicine in 18 countries in addition to USA

across the globe. The department is committed to service excellence in patient care and education, expansion of Emergency Medicine's boundaries through the development of new programs and configurations, research and creation of new knowledge in this field.

The Ronald Reagan Institute of Emergency Medicine at The George Washington University Medical Center was established in 1991, in recognition of both the undisputed excellence of the Medical Center's Department of Emergency Medicine and its role in saving the life of President Reagan after a 1981 assassination attempt. The Institute (RRIEM) seeks to advance the practice of Emergency Medicine

worldwide, by promoting a global exchange of knowledge and ideas. RRIEM serves as a valued partner to Ministries, universities and organisations in different countries to improve Emergency Medicine services and practices worldwide, by providing emergency department operations assessment, strategic planning, medical education and academic research for healthcare systems, across the globe, since 1991. With a comprehensive range of capacity in injury prevention, EMS and disaster medicine, emergency ultrasound and academic research, the institute continues to have a leading role in global Emergency Medicine development worldwide.

# THE HOSPITAL

AMRI Hospital Bhubaneswar, the largest super-specialty hospital with 400 beds, dedicated to fill the medical void of this state is the latest inclusion under the much reputed brand of AMRI Hospitals Limited, the largest and fastest growing hospital chain in Eastern India. Located beside Jaydev Vatika, a green belt on the Khandagiri Bypass Road next to Satyasai Enclave, conjures up images of hope and happiness.

AMRI Hospital Bhubaneswar, provides tertiary level clinical care, backed by a multidisciplinary team of medical fraternity with the finest state-of-the-art technologies available in Eastern India.

At the AMRI Hospitals, we believe in delivering the best in healthcare to all our patients, the all time. The Emergency Department, with its ambulance services, amply portrays this vision in all its myriad facets and activities.

# DEPARTMENT OF EMERGENCY MEDICINE, AMRI HOSPITAL

## OUR MISSION

The Department of Emergency Medicine is committed to achieve excellence as a local, national and International leader in the field of emergency medicine. We aim to accomplish this mission by integrating research, teaching and patient care. The Emergency Department has been designed to focus on patient-centric care and to ensure that the patient has a comfortable experience. The clinical area features the latest of technologies in healthcare to complement our world-class infrastructure.

The department has been successfully providing comprehensive emergency care to patients in Odisha & neighbouring states since inception. In last 2 years the number of patients attended by the department has been increased up to 900 (approx.) per month and the department has emerged as one of the largest and busiest Emergency departments in Bhubaneswar. This has been

made possible by the dedication of our skilled, qualified emergency physicians who provide best possible care round the clock with immediate attention.

AMRI Hospital, Bhubaneswar being a tertiary care referral centre and level one trauma centre, attends the most sick, complicated, critically ill and severely injured patients by triaging them immediately on arrival, resuscitating and stabilizing them before shifted to Intensive Care Units under super speciality departments. "Zero waiting time" has been successfully sustained by the committed emergency rescue team while providing appropriate and timely care to almost all the patients.

The department is committed to serve the people through quality education, caring practice and advancement of the health sciences.

Our fleet of ambulances offer

superior patient comfort with state-of-the-art medical technology & well trained Emergency Medical Technicians. In addition to providing the Advanced Life Support (ALS) Care, we also have a fleet of Basic Life Support (BLS) ambulances.

### Features of our ER:

- Ambulance Bay with standby support staff
- Triage Area – trauma care beds equipped with the latest medical technologies
- Integrated OT inside Emergency Area
- Procedure & Examination rooms for patients
- Clean, comfortable, modern reception area
- Adjacent radiology unit with including X-Ray, MRI, CT and Ultrasound
- State of the art observation ward with the latest medical equipment

## THE PROGRAMME

After having successfully started the 1st batch of MEM in 2015, AMRI Hospital, Bhubaneswar is now inviting applications for the 2nd batch of MEM. Masters in Emergency Medicine (MEM) is a 3 year Post Graduate Programme, divided into 36 clinical modules that will cover the breadth of Emergency Medicine. Each Batch of MEM consists of 8-12 students who undergo rigorous academic and hands on

trainings during this period of 3 years. RRIEM and AMRI Hospital will provide faculty coverage and programme oversight for the fellowship programme. At the successful conclusion of the programme, the graduating fellows will be able to practice independently within Emergency Departments as well-trained physicians, and they will receive "International Masters in Emergency Medicine" from RRIEM at the

George Washington University. The programme strives to prepare a new generation of leaders in medicine who will expand the field of Emergency Medicine throughout India.

# THE CURRICULUM

## EDUCATIONAL PROGRAM

### DAILY

- Morning seminars with an emphasis on case-based teachings
- Case presentation/discussion by the resident
- Presentation/discussion by faculty
- Clinical teaching through bedside clinical rounds of specific patients

### WEEKLY

At least 10 hours for educational conferences that will include:

- Didactic lectures
- Case conferences
- Journal article discussions
- Guest lectures

During these conferences, the residents will be excused from clinical responsibilities and will have protected time for their educational development.

## FUNDAMENTAL COMPONENTS OF THE EDUCATION PROGRAMME INCLUDE:

- Lectures on the modular topic of the month
- Evidence-based medicine
- Journal/article discussions
- Grand rounds and guest speakers
- Morbidity and mortality (M&M) conferences
- Follow-up case discussions on patients admitted through the emergency department
- Procedures and skills seminars
- Presentations by the residents

In addition, residents will be encouraged to initiate and conduct research projects pertinent to Emergency Medicine and they will be required to write scholarly articles that are

worthy of publication. The residents will be expected to work on a research project with the faculty and they will be required to submit one abstract or oral presentation per year at a conference. The residents should also submit one paper per year to a journal for potential publication. Residents will also have the opportunity to prepare presentations for their colleagues and each month the fellows will give a prepared lecture on a specific subject. These presentations will improve the residents' speaking and presentation skills.

The Emergency Medicine faculty will also invite experts from other fields such as cardiology, surgery, orthopedics and pediatrics, to give guest lectures on important topics that are related to Emergency Medicine. Residents will be expected to read assigned chapters in their textbooks and also relevant journal articles.



*Dr. Sajid Nomani, Programme Director MEM, AMRI Hospitals Bhubaneswar*

# THE FOLLOWING TABLE DESCRIBES THE CURRICULUM DETAILS FOR THE 36 MONTHS

Module	Topic	Module	Topic
1	Orientation	19	Toxicology I
2	Cardiovascular I	20	Neurology
3	Airway	21	Psychosocial/Violence
4	Peds I	22	Ophthalmology
5	Shock	23	Cardiovascular II
6	Infectious Disease	24	Trauma II
7	Trauma I	25	Peds II
8	Gastrointestinal I	26	Pulmonary
9	Ortho I(Traumatic)	27	Soft Tissue/Wound Care
10	OB/GYN	28	Neonatology
11	Gastrointestinal II	29	Procedures
12	EMS & Disaster	30	Orthopedics II Nontraumatic
13	Endocrine	31	Infectious Disease II (Tropical)
14	ENT	32	Renal & Genitourinary System
15	Environmental Illness	33	Toxicology II
16	Research	34	Pulmonology II
17	Cards Crit Care	35	Administrative/Public Health
18	Radiology	36	Heme/Oncology & Dermatology

Each module will begin with a pre-test to gauge the fellows' academic knowledge on the clinical topics and each module will end with a post-test to measure the fellows' level of comprehension and mastery of the materials during the module session. The curriculum will continue in the same manner in coordination with other MEM Programmes in India to allow streamlining and coordination.



First Batch of MEM Students with faculty



Students receiving hands on training from senior faculty



# CLINICAL ROTATIONS

The fellows will rotate through both the Emergency Department and other important clinical services. The fellows will spend 7/12 months each year in the Emergency Department and the remaining time rotating through other services. The rotations in the other departments will provide the fellows with opportunities to develop important knowledge and skills in core subjects.

At the end of the second year of training, residents will have the option of spending 4-6 weeks at George Washington University Hospital, working with the faculty in Washington, D.C., as an elective. These residents will be responsible for their airfare, housing and meals during the elective. RRIEM faculty will also provide remote

educational resources such as evidence-based medicine articles and lecture presentations.

## TEXT BOOKS

1. Emergency Medicine: A Comprehensive Study Guide, 7th edition, edited by Judith E. Tintinalli.
2. Rosen's Emergency Medicine: Concepts and Clinical Practice.
3. Clinical Procedures in Emergency Medicine, by James R. Roberts and Jerris Hedges.

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# HOW TO APPLY

## INFORMATION FOR CANDIDATES

- Strict rules are applied for enrollment and passing of MEM (International)
- Please read the criteria for enrollment & passing rules of MEM (International) course carefully

## ENROLLMENT CRITERIA

- Internship completion certificate & MBBS pass certificate is a must at the time of appearing for the interview
- MCI Registration is mandatory to enroll for the course
- Scoring a minimum of 50% marks is required at screening test to be held before interview/admission
- Candidates will be evaluated by the MEM (International) interview board and a MCQ Test
- Candidate with BLS, ACLS, ATLS and PALS completion certificate will get an advantage

## PASSING CRITERIA

- MEM (International) residents have to score a minimum of 55% in theory & 70% in practical exam. This will be conducted by the GWU & AMRI at the end of 3 years.
- Residents have to pass the year exit examination with minimum of 55% in theory & 70% in practical exam
- This will be conducted by GWU & AMRI Hospitals at the end of each academic year
- Scoring 70% is a must in all the monthly pre & post tests
- Thesis completion & submission is a must to get the GWU certificate
- Attendance criteria: 80% attendance is compulsory to sit for the post test and final exam

The application forms duly filled can be submitted in the office of the Deputy Medical Superintendent by Registered post as per details below:

**Dr. Siddharth Mishra,**

Dy. Medical Superintendent

AMRI Hospital

Plot No-1, Beside Satya Sai Enclave, Khandagiri,

Bhubaneswar – 751 030, Odisha

**Email: [mem.bhu@amrihospitals.in](mailto:mem.bhu@amrihospitals.in)**

Phone: 0674-6666600 (Ext - 8050)

For any queries regarding application & course please contact the Deputy Medical Superintendent office as per details above.

## LIST OF DOCUMENTS TO BE SUBMITTED WITH APPLICATION

Please submit photocopies of the following:

- 2 passport size photographs
- PAN card
- Age and address proof
- Internship completion certificate
- Permanent registration certificate (MCI / State)
- MBBS pass certificate
- Complete resume
- Prospectus available on payment of Rs 500 by Demand Draft in favour of AMRI HOSPITALS LTD. Payable at Bhubaneswar. Applicants downloading application from website need to submit Demand Draft of Rs. 500 at the time of submission of Application

## COURSE FEE RS 10 LAKHS

Deposit on selection	=	Rs 1,00,000
1st installment fee at time of admission	=	Rs 3,00,000
2nd installment fee (April 2017)	=	Rs 3,00,000
3rd installment fee (April 2018)	=	Rs 3,00,000
Stipend as per local norms		
Hostel accommodation will be available at subsidised rates		

## IMPORTANT DATES

Sale of Application form & Prospectus	:	11 <sup>th</sup> Feb, 2016
Last date for Submission of application	:	10 <sup>th</sup> April, 2016
Written Exam & Interview	:	24 <sup>th</sup> April 2016
Announcement of Result	:	26 <sup>th</sup> April 2016
Counseling & Admission	:	2 <sup>nd</sup> May 2016
Commencement of classes	:	1 <sup>st</sup> July 2016

# THE FACULTY

## FACULTY FROM THE RRIEM & MFA/GWU, WASHINGTON DC, USA

1. **Dr. Jeffrey Smith, MD, MPH, FACEP**  
*Director - Emergency Medicine (RRIEM)*
2. **Katherine Douglas, MD, MPH**  
*Director - International Emergency Medicine*
3. **Robert F. Shesser, MD, MPH, FACEP**  
*Professor - Emergency Medicine*
4. **Janice C. Blanchard, MD, MPH, PhD**  
*Assistant Professor - Emergency Medicine*
5. **Keith S. Boniface, MD, RDMS, RDCS**  
*Associate Professor - Emergency Medicine*
6. **Neal K. Sikka, MD**  
*Assistant Professor – Emergency Medicine*
7. **Amelia Pousson, MD**  
*Assistant Professor of Emergency Medicine*
8. **Dan Hanfling, MD**  
*Clinical Instructor, Emergency Medicine*
9. **Brijal Patel, MD**  
*Clinical Instructor, Emergency Medicine*
10. **Michael Pirri, MD**  
*Clinical Instructor, Emergency Medicine*
11. **Leslie Hardware, MD**
12. **Shweta Gidwani, FCEM, MCEM, MRCP**
13. **Sarah Finlay, FCEM, MCEM, MRCP**
14. **Heather A. Brown, MD**
15. **Brandon Cole, MD**

## FACULTY AT AMRI BHUBANESHWAR, INDIA

### Department of Emergency Medicine:

1. **Dr. K.Misra, MBBS, MD(Anaesthesia)**  
*In-charge Department of Emergency Medicine*
2. **Dr. Sajid Nomani, MD, MEM, PGDML**  
*Consultant, Department of Emergency Medicine*
3. **Dr. Syed Muddassir, MBBS, MEM**  
*Consultant, Department of Emergency Medicine*

# FACULTIES FROM OTHER ALLIED SPECIALTIES

1. **Dr. B. K. Mishra MD, DM (Neurology)**  
*Chairman, Department of Neurosciences*
2. **Dr. Lingaraj Nath, MD, DM (Cardiology)**  
*Clinical Director Department of Cardiology*
3. **Dr. Mahesh Agarwal, MD, DM(Cardiology)**  
*Consultant, Department of Cardiology*
4. **Dr. A. Sharda, M.S., M.Ch**  
*Clinical Director, Cardio Thoracic & Vascular Surgery*
5. **Dr. R.V.S. Kumar, MS, DOHNS**  
*Consultant, Department of Otorhinolaryngology*
6. **Dr. Samir Sahu, MD, FICCM**  
*Clinical Director Critical Care & Pulmonology*
7. **Dr. Jagdish Rath, MD (Resp.Med.)**  
*Consultant, Department of Respiratory Medicine & Critical Care*
8. **Dr. Sarat Behera, MD, IDCC,FNB, FCCS,**  
*Consultant ,Department of Pulmonology and Critical Care*
9. **Dr. Amit Jaiswal, MS, M.Ch**  
*Clinical Director, Dept. of Neurosurgery*
10. **Dr. A. K. Panda, MD, DM,**  
*Consultant, Department of Neurology*
11. **Dr. Gaurav Das, MS, FMAS,**  
*Consultant, Department of Surgery*
12. **Dr. Sukanto K. Das, MD, DM (Nephrology)**  
*Consultant, Department of Nephrologist*
13. **Dr. Pravin Prakash Pahi, DNB (Paed)**  
*Consultant Paediatrics*
14. **Dr .Ranjit Joshi, MD, FIAP(Neanatology)**  
*Consultant, Department of Pediatric*
15. **Dr. P. C.Dey, MS (Ortho)**  
*Clinical Director Orthopaedics, Endospine & Joint Replacement*
16. **Dr. Sandeep Biswal, MS (Ortho)**  
*Consultant, Department of Orthopedic*
17. **Dr. Samir Mishra, MD**  
*Consultant, Department of Internal Medicine*
18. **Dr. S. C. Samal, MD, DM**  
*Senior Consultant, Department of Gastroenterology*
19. **Dr. Pratap Behara, MD, DM**  
*Consultant, Department of Gastroenterology*
20. **Dr. Bijoy Nayak, MD, DCHS**  
*Consultant, Department of Obstetrics & Gynaecology*
21. **Dr. GSS Mohapatra, MD**  
*Consultant, Department of Obstetrics & Gynaecology*
22. **Dr. Subodh Das, MS, M.Ch DNB (Urology)**  
*Director Organ Transplant & Renal Sciences*



## MEM 2016

### IMPORTANT DATES

Sale of Application Form & Prospectus	11 <sup>th</sup> Feb 2016
Last Date for Submission of Application	10 <sup>th</sup> April 2016
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## AMRI Group: At A Glance

- + Part of Rs. 25,000 crore Emami Group
- + Employs more than 4,000 staff & 500 doctors
- + Serves more than 2 lakh patients per year
- + Combined strength of 1,000+ beds
- + Healthcare expertise of more than 2 decades

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### AMRI Hospitals - Bhubaneswar

Plot No - 1, Beside Satya Sai Enclave  
Near Jaydev Vatika, Khandagiri,  
Bhubaneswar-751030  
Odisha

**Emergency:** 0674 666 6666

**Phone:** 0674 666 6600

**Fax:** 0674 666 6777

**Web:** [www.amrihospitals.in](http://www.amrihospitals.in)

