



Trauma & Emergency

# TEAMS

Academic Medicine Sentinel



**DPU**  
Dr. D.Y. PATIL VIDYAPEETH, PUNE  
(DEEMED UNIVERSITY)



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*"Proclaiming and Promoting Academic Leadership"*



**Dr. P. N. Razdan**

Vice Chancellor

Dr. D. Y. Patil Vidyapeeth, Pune.

### Message From Vice Chancellor

I take this opportunity to meet you through the TEAMS newsletter and am very happy to communicate with you. I believe that apart from giving empowerment in terms of knowledge and skills, education does give us more than this. We believe that becoming bookworm is not education, it is more important to put into practices at least a fraction of what you have learnt. While fulfilling the objectives of inculcation of values and intellectual excellence, a wide range of professional programmes towards the development of youth in health educational environment are offered by Dr. D. Y. Patil Vidyapeeth, Pune.

**Rajeshwari Vhora**

Chief Editor



Dear Colleagues,

This issue of TEAMS unfolds an array of news from the dashing "Quality improvement" of National Conference of Emergency Medicine's EMINDIA 2017 to invention of a portable android based ventilator.

EMINDIA 2017 focused on Quality improvement in healthcare which being the need of the hour as the growing dissatisfaction of patients towards health care providers India is a concerning issue. This will certainly improve the outcome of treatment as well as the physician patient relationship.

POC sonography is an essential diagnostic tool at the disposal of EM physicians. Even with the ongoing hurdles of PCPNDT rules we need POC sonography at the Emergency rooms. Whether it be FAST, eFAST, placement of IV lines, ET tubes, even the assessment of soft tissue injuries or even the assessment of midline shift in case of IC bleed trained EM physician will certainly have a positive impact on patient prognosis. The development of a training hub at JSS, Mysuru is yet another example potentiating EM physicians with additional POC sonography skills.

With the similar agenda, Advance Ultrasound in Trauma and Life Support (AUTLS) course developed by AIIMS was hosted by University of South Florida at Tampa General Hospital, Florida for the third time. This time it was mandatory prerequisite to join the EM residency program at University of South Florida.

Lastly, I heartily congratulate Dr. Deepak Agarwal for his wonderful invention of VIRAT®. This will definitely improve the long term management of ventilated patients as it can be easily operated, is portable and is cost effective.

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*Rajeshwari Vhora*  
**Rajeshwari Vhora**  
Chief Editor

## EMINDIA2017 makes a Dashing Delhi FINISH !



EMINDIA2017 The National Conference of Emergency Medicine, completed a Home Run on 16th July 2017.

Starting from 12th July 2017 EMINDIA2017 was held at K L Wig center for Continued Medical Education & Technology, AIIMS, New Delhi, the inaugural workshop educated the leaders of EM regarding core concepts of Quality Improvement (QI).

It had a participation of enthusiastic EM physicians, administrators and ED nurses from various institutes across India.

The Main Conference was held on 15th and 16th July at INDIA HABITAT CENTER, NEW DELHI.

EM Specialists presented Top of The Line Cases and engaged in High Quality Discussions via an Expert Open House Format.

Each and every participant had a voice either as a Presenter or a discussant.

The National EM Quiz was a super success and has now become an Annual Event.

EMINDIA2017 was established as India's Premier Professional Emergency Physicians Conference on Clinical Emergency Medicine. It was attended by over 500 Professional Emergency Medicine Specialists from India.

The Science of Emergency Medicine is changing across the World.

The success of Emergency Medicine lies in High Quality Patient Care which is dependent on Emergency Physicians and Nurses having Up-to-Date Knowledge and skills. Knowledge is generated from Innovative Research and Clinical Experience. Education helps to spread knowledge. It is with the above Premise That the INDUSEM team had devised a novel methodology to form the epicentral ethos of the EMINDIA2017.



EMINDIA is The Annual Conference of The Academic College of Emergency Experts and The Emergency Medicine Association. EMINDIA does not follow the Usual Mundane Conference Style Format of Workshops and Didactic Lectures.

It adopted a COPYRIGHTED progressive and innovative style of Case Based Education.

EMINDIA Thus has become India's Premier Professional Emergency Medicine Specialists Clinical Conference.

"I believe "Physicians who treat Patients should be the ones to Profess". EMINDIA calls on all Clinically Practicing Emergency Physicians to come and present their cases and participate in discussions based on cases presented by our colleagues.

EMINDIA2017 offered the Best Learning Experience, as we together move ahead to strengthen The Emergency Medicine Association which is India's Only Legitimate Organization of Emergency Medicine." Said INDUSEM CEO Dr.Sagar Galwankar.

For More Information: [WWW.EMINDIA2017.COM](http://WWW.EMINDIA2017.COM)

## ICCES opens JSS Mysore EM Sonography Hub



The International Council for Critical Emergency Sonography (ICCES) in association with All India Institute of Medical Sciences (AIIMS), New Delhi and JSS Medical College, Mysuru inaugurated the first ICCES Regional Training Hub in Karnataka at JSS Medical College and Hospital, Mysuru on 1st of September 2017. Following the event an interactive, module based training program for Point Of Care Sonography, "EMSONO 2017" was held on 1st and 2nd of September.



The workshop was inaugurated by Dr. Basavanagowdappa, Principal, JSS Medical College, Dr Guruswamy, Medical superintendent, JSS Hospital, and Dr. M.D Ravi, Medical Director, JSS Medical College and Dr Akkamahadevi P, Professor and Head, Department of Emergency Medicine, JSS Medical College along with the course faculty.



The workshop was hosted by JSS Medical College and Hospital under the coordination of Dr. Madhu Srinavarangan, Director of ICCES Regional Training Hub, Karnataka.

The faculty included INDUSEM leaders and eminent Sono Educators Dr. Tej Prakash Sinha (AIIMS), Dr Madhu Srinivasarangan (JSS Medical College, Mysuru), Dr. Ajith Venugopalan (MOSC Medical College, Kerala), Dr Manu Ayyan (ACME, Kerala), Dr Prithvishree R (KMC, Manipal) and Dr Harshit Mundra (St John's Medical College, Bangalore)

The delegates gathered from all over India from various specialties including Emergency Medicine, Anesthesia, Surgery, Undergraduates, Postgraduates and allied Emergency Technician courses. The workshop concluded with an innovative quiz session and Sono Games which was well received by all the participants. An abundant number of encouraging feedbacks were received and several requests were made for the frequent conduct of the similar fruitful programs in the future.



## AULTS trains New EM Residents in USA



Continuing its Global Expansion, the All India Institute of Medical Sciences (AIIMS) developed Advance Ultrasound in Trauma and Life Support (AULTS) course held its 3d Annual Training Program at the University of South Florida (USF)-Tampa General Hospital (TGH) at Tampa Florida.

**The uniqueness was that This time AULTS was the Pre-Requisite Mandatory course for New Incoming Residents in an American EM Residency Program at USF.**



Continuing Acute Sonography Experts from AIIMS namely Course Master Dr. Sanjeev Bhoi and Course Faculty Dr. Tej Prakash (AIIMS) lead the course supported by Dr. Ajit Baviskar from DY Patil Medical College Navi Mumbai. Dr. Derr Program Director for USF-EM Residency Program hosted the course. AIIMS-AULTS is a unique course which was designed in 2009 and has been taught at multiple academic locations in India.



Overseas AULTS has been extensively taught in Asia and now made a mark in USA.

Care of multiply injured victim is challenging in pre-hospital, emergency department and intensive care settings. It becomes more difficult when you perform trauma resuscitation and advanced cardiac life support protocols in a blinded fashion. Ultrasound has been typically described as an extension of the palpating hand and a "visual" stethoscope during the physical examination, providing both anatomic and functional information complementary to the routine physical examination.



Dr. Sanjeev Bhoi envisioned the creation of an easy to learn and easy to use sonography course So as to make Point of Care Diagnosis in Acute Care a simple task to save lives. In 2010 he led the creation of the International Council for Critical Emergency Sonography (ICCES) which is a partnership of Academic Ultrasound Focused Institutions and Innovators worldwide.



INDUSEM played an instrumental role when in 2007 it introduced Acute Care Sonography to India. Dr. Derr was the first US Emergency Ultrasound Educator who taught EM Sonography to Emergency Physicians in India. Since then AIIMS worked on the AUTLS concept and developed its own course using Available Scientific Evidence and along the way creating its own evidence by research. The algorithms created are unique and hence the model and the modules are far superior to any other course taught by any agency across the World.

In 2011 AIIMS held the World Congress of Emergency Sonography and in 2015 will hold the 11th INDO-US World Congress of Emergency Medicine.

The AUTLS Course is a living example of MAKE IN INDIA and now a proud testimony of INDO-US Partnership.

### Prof. Deepak Creates “VIRAT” © – The World's First Pocket sized ventilator



There are multiple ventilator dependent patients in the world. They need Vent Support and that costs a fortune. Operating a ventilator needs tremendous technical expertise.

The All India Institute of Medical Sciences has multiple vent dependent patients in the Department of Neurosurgery. Currently the cheapest portable ventilators cost from 10, 000 USD upwards. Vent Demand is increasing by the day and there is always a shortage of ventilators across the world. Imagine what would happen when a disaster strikes.



**INDUSEM Technology Chief and Professor at AIIMS Neurosurgery Dr. Deepak Agrawal worked with Robotics Researcher Mr. Diwaker Vaish to create VIRAT – The World's First Pocket Size Ventilator. VIRAT© Means “Ventilating Integrated Respirations via Assisted Technology”**



#### **VIRAT© has the Following features :**

1. Synchronized with patients breathing (SIMV)
2. Capability to run from room air (21% Fio2) as well as from regular oxygen supply
3. Android phone based control of all functions and settings
4. Integrated with pulse oximeter to give real time feedback and optimization of settings
5. Can be operated by relatives at home after minimal training

We anticipate the cost of VIRAT© to be less than Rs 20, 000 for the patients which is 1/20th the cost of basic ventilators in the market said Prof Agrawal.

“VIRAT© is the Milestone in the Innovation Pathway of INDUSEM and we are very proud of Deepak. He is the architect of the Electronic Medical Records Revolution in India and now he has delivered VIRAT©. INDUSEM congratulates this great leader” said INDUSEM CEO Dr. Sagar Galwankar.

