

iHeartsan live hands on workshop was organized by the department of Anesthesiology and critical care RRMCH, on 9<sup>th</sup> and 10<sup>th</sup> of December 2017 in collaboration with University of Melbourne, Australia.

Dr.H.Sahajanand welcomed the gathering and introduced the guest faculty: Dr Shashikanth Manikappa, Director, Anaesthesia & Perioperative Medicine, Southeast sector, Monash Health, Melbourne, Australia is the Course Director for iHeartsan in India. Other Faculty are Dr B G R Prasad, Director, Anaesthesia & Perioperative Medicine, Rockingham Hospital, Perth; and Dr Rajmohan, Consultant Cardiac Anaesthesiologist, Hyderabad with immense experience in Echocardiography.

### Workshop Details

Echocardiography has seen a meteoric rise in use in ultrasound since the mid-1990s in Australia and around the world. The use of ultrasound to guide procedures has been used extensively by Radiologists for years, but in recent times Anaesthetists, Intensivists and Emergency Department Physicians have embraced the technology. Limited echocardiography is not a totally new concept. There are publications looking at the use of limited echocardiography to assess volume or systolic function or as a screening tool to rule out severe aortic stenosis. Haemodynamic state assessment is a concept that has been championed through the Postgraduate Certificate/Diploma in Clinical Ultrasound (see [www.heartweb.com.au](http://www.heartweb.com.au)) in Australia.

The goal is to strike a balance between “too little and too much” by analysing the important information needed for the critical care environment, in order to influence how to manage patients.

Haemodynamic state assessment is really the “bread and butter” of echo information. The information will be used in 90% of clinical situations to change the management. However, haemodynamic state is not enough to fully categorise the problem. Findings of haemodynamically important valve lesions such as severe aortic stenosis, will also lead us to change management.

iHeartsan is promoting the concept of limited transthoracic echocardiography to perform Haemodynamic Echocardiography Assessment in Real Time, or iHeartScan™ for short. The study should take about 5 minutes once you gain more experience through practice.

Faculty for the workshop are, Dr Shashikanth Manikappa, Director, Anaesthesia & Perioperative Medicine, Southeast sector, Monash Health, Melbourne, Australia is the Course Director for iHeartscan in India. Other Faculty are Dr B G R Prasad, Director, Anaesthesia & Perioperative Medicine, Rockingham Hospital, Perth; and Dr Rajmohan, Consultant Cardiac Anaesthesiologist, Hyderabad with immense experience in Echocardiography.

Prof. Dr Sahajananda is the Course Coordinator.

**Dates for the workshop are 10/12/2017 and 11/12/2017**

### Who can attend?

TTE Workshops are designed for Anaesthetists, Intensive Care, Emergency Department Physicians and Surgeons who wish to learn how to use Point of Care (POC) transthoracic and ultrasound guidance techniques. This course is designed to extend your experience and training in transthoracic echocardiography. iHeartScan™ is a registered name.

### iHeartScan Workshop Components

- 1 Pre-workshop preparation – includes eLearning tutorials and online TTE case studies.
- 2 Workshop workshop contains ten hours of hands-on-activity. Two hours is dedicated to each core learning area. Techniques will be demonstrated and participants will practise using the ultrasound systems. Participants will be divide into small groups (maximum of five per group) and groups will rotate through each core learning area station.
- 3 Post-workshop exam – an online assessment with multiple choice questions

The core learning areas

1. Basic Trasthoracic Imaging
2. Haemodynamic State Assessment including Measurement of Cardiac Output
3. Basic Assessment of Valves using 2D and Colour Flow Doppler imaging
4. iHeartScan™ Examination
5. iHeartScan™ Reporting and Examples

It was attended by 15 delegates (1:5ratio of faculty to delegate) .At the end of the second day various pathological case scenarios were beamed on the screen using LCD

projector. Delegates were asked to diagnose the condition and then they were debriefed.

Workshop was accredited to KMC and earned 4 points. Certificates were distributed to the attendees.