

# CLUE

Cardiac Lung Ultrasound Echo

Hemodynamics Conference



Workshop 12 Aug'22  
Conference 13 - 14 Aug'22



**Venue: Paros Hospitals, Gurgaon**

Phase- I, C-1, Sushant Lok Rd, Sector 43, Gurugram, Haryana 122002

## HIGHLIGHTS OF COURSE

- ▶ Simulation Based Training
- ▶ Interactive Case Discussions
- ▶ Reputed National Faculty



Dr Atul Kulkarni  
TMH, Mumbai



Dr Sheila Myatra  
TMH, Mumbai



Dr Arvind Rajamani  
Nepean Hospital Sydney Australia



Dr Amol Kotekar  
TMH, Mumbai



Dr Deepak Govil  
Medanta, Gurugram



Dr Shrikant Srinivasan  
Manipal, Dwarka



Dr Sachin Gupta  
Narayana, Gurgaon

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Cardiac Lung Ultrasound Echo

## Hemodynamics Conference

**DATE:** 12 August, 2022 **VENUE:** Paras Hospitals, Gurgaon

### PROGRAMME

8.30 AM-9.00 AM	WELCOME, INTRODUCTION, PRE TEST
9.00 AM- 9.15 AM	BASIC PHYSICS & MODES OF ULTRASONOGRAPHY & KNOBBOLOGY
9.15AM – 9.35 AM	LUNG ULTRASOUND & BLUE PROTOCOL
<b>9.35 AM – 10.10 AM</b>	<b>HANDS ON TRAINING SESSION 1 ( LUNG ULTRASOUND)</b>
10.10 AM- 10.25 AM :	TEA BREAK
10.25 AM- 10.35 AM	LUCC INTRODUCTION BY <b>Dr. Arvind Rajamani</b>
10.35-11.00 AM	<b>Basic concepts of Echocardiography in Critical Care – Dr. Arvind Rajamani</b>
11.00 AM – 11.30 AM	COMMON TRANSTHORACIC ECHOCARDIOGRAPHY VIEWS FOR ICU : PLAX, PSAX, A4C, SUBCOSTAL 4C, SUBCOSTAL IVC VIEW
<b>11.30 AM – 12.30 PM</b>	<b>HANDS ON TRAINING SESSION 2 (ECHO IMAGE ACQUISITION)</b>
12.30 AM – 1.00 PM	ASSESSMENT OF LEFT VENTRICULAR FUNCTION : SYSTOLIC FUNCTION, RWMA, EF Calculation, CO MEASUREMENT, DIASTOLIC FUNCTION
1.00 PM – 1.30 PM	ASSESSMENT OF RIGHT VENTRICULAR FUNCTION : RV DILATATION & DYSFUNCTION, PULMONARY HYPERTENSION, TAPSE
1.30 PM – 2.00 PM	<b>LUNCH BREAK</b>
<b>2.00 PM – 2.40 PM</b>	<b>HANDS ON TRAINING SESSION 3 (LV &amp; RV FUNCTION OF HEART)</b>
2.40 PM – 3.00 PM	<b>ASSESSMENT OF FLUID RESPONSIVENESS &amp; SHOCK: FALLS PROTOCOL, RUSH PROTOCOL, IVC Assessment</b>
3.00 PM - 3.20 PM	ULTRASOUND ASSESSMENT OF PATIENT WITH SHOCK
3.20 PM - 3.40 PM	ULTRASOUND ASSESSMENT OF PATIENT WITH BREATHING DIFFICULTY
<b>3.40 PM - 4.30 PM</b>	<b>HANDS ON TRAINING SESSION 4 ( FALLS PROTOCOL, RUSH PROTOCOL)</b>
4.30 PM - 5.00 PM	TEA BREAK, POST TEST, CONCLUSION OF WORKSHOP

**DATE:** 13 August, 2022 **VENUE:** Paras Hospitals, Gurgaon

### PROGRAMME: DAY- 1

8.30 AM – 9.00 AM -	Welcome, Registration & Introduction
<b>Session 1</b>	<b>Basic Physiology of Hemodynamic Monitoring</b>
9.00 AM - 9.20 AM	Physiology of Heart Lung interaction - Frank Starling and Guyton Physiology at the Bedside
9.20 AM - 9.40 AM	Physiology of Pressure Waveform- CVP, PAOP, Arterial pressure
9.40 PM-10.00 AM	CVP and Arterial waveforms interpretation
<b>10.00 AM– 10.30 AM</b>	<b>Simulation</b>
<b>10.30 AM – 10.45 AM</b>	<b>Q and A</b>
<b>SESSION 2</b>	<b>Cardiac Output Monitoring</b>
10.45 AM – 11.05 AM	Pulmonary Artery Catheterization (PAC)
11.05 AM – 11.25 AM	Trans Pulmonary Thermodilution (TPTD)
<b>11.25 to 11.40 AM</b>	<b>Q and A</b>
11.40 AM – 12.00 PM	Arterial pressure-based CO measurement: Calibrated and Non-Calibrated techniques (Flotrac / Vigelio & PICCO / EV 1000)
<b>12.00 PM – 12.20 PM</b>	<b>Non Invasive CO Monitoring : NICO, Bioreactance, Finger Cuff Technology</b>
<b>12.20 PM– 1.00 PM</b>	<b>Simulation</b>
<b>1.00 PM - 2.00 PM</b>	<b>LUNCH BREAK</b>

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### PROGRAMME: DAY- 1

<b>SESSION 3</b>	<b>Assessment of Volume status &amp; Preload Responsiveness</b>
2.00 PM – 2.20 PM	Let's ask the expert : how do you assess fluid responsiveness & fluid challenge: Passive Leg Raising, PPV, SVV, EtcO <sub>2</sub> , end expiratory occlusion test, tidal volume challenge
<b>2.20 PM – 2.40 PM</b>	How do I integrate all haemodynamic variables & take a decision – Case Based Discussion
<b>2.40 PM - 3.20 PM</b>	<b>Simulation</b>
<b>SESSION 4</b>	<b>Recognition of Shock &amp; Tissue Oxygenation</b>
3.20 PM – 3.40 PM	How to monitor Regional circulation & Microcirculation?
3.40 PM– 4.00 PM	Recognition of shock and use of perfusion markers: Capillary Refill Time, Lactate, Svo <sub>2</sub> , Scvo <sub>2</sub> , Pco <sub>2</sub> gap
4.00 PM - 5.00 PM	Simulation
<b>5.00 PM - 5.20 PM</b>	<b>TEA BREAK</b>

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### PROGRAMME: DAY- 2

<b>SESSION 5 -</b>	<b>Recognition of Shock &amp; Tissue Oxygenation</b>
9.00 AM -9.20 AM	Case based Discussion on PICCO /EV 1000.
9.20 AM – 9.40 AM	How to interpret SVO2/ScVO2 & Lactate in Critically Ill patient in ICU?
9.40 AM– 10.00 AM	Vasopressors & inotropes In Shock- Why, When, Which One, How Much?
<b>10.00AM - 10.40 AM</b>	<b>Simulation 1 (SHOCK)</b>
<b>10.40 AM – 11.40 AM</b>	<b>Simulation 2 (SHOCK)</b>
<b>11.40AM-12.00 PM</b>	<b>TEA BREAK</b>
<b>12.00 PM - 2.00 PM</b>	<b>SKILL STATION (30 MIN EACH)</b>
	<b>A.</b> Calibrated / Uncalibrated CO Monitoring Device - FLOTRAC/VIGELIO PICCO/EV1000
	<b>B.</b> Identification of hemodynamic waveforms
	<b>C.</b> TRANSDUCER SETUP for CVP, ARTERIAL LINES, PPV Calculation by bedside monitor-
	<b>F.</b> Oesophageal Doppler Monitoring (ODM) & Pulmonary Artery Catheter (PAC) -
<b>2.00 PM – 2.15 PM</b>	<b>FELICITATION, CONCLUSION OF CONFERENCE</b>
<b>2.15 PM -3.00 PM</b>	<b>LUNCH</b>

# CLUE

ULTRASOUND WORKSHOP

## Hemodynamics Conference

### ORGANISING FACULTY



Dr Dharminder Nagar  
Patron



Dr Nitin Jain  
Organising Chairman



Dr Ashutosh Garg  
Scientific Committee



Dr Lalita Gouri Mitra  
Organising Secretary



Dr Sambit Sahu  
Kims, Hyderabad



Dr Pankaj Anand  
Fortis Hospital, Jaipur



Dr Achint Narang  
Alchemist Panchkula



Dr Ashutosh Bhardwaj  
Narayana, Delhi

### ORGANISING COMMITTEE

Dr Neha Arora | Dr Shweta Tyagi | Dr Nitin Saluja | Dr Raghavendra Kumar Giri  
Dr Anuradha Pandey | Dr Rishikant Birla | Dr Krishna | Dr Sunil | Dr Rajeev Gaur

### COURSE FEES

Till 1<sup>st</sup> June

Students Rs. 2500 /-

Delegates Rs. 3000 /-

Till 1<sup>st</sup> July

Students Rs. 3000/-

Delegates Rs. 3500

Till 1<sup>st</sup> August

Students Rs. 3500/-

Delegates Rs. 4000/-

Spot registration

Students Rs. 4000/-

Delegates Rs. 4500/-

### BANK DETAILS FOR NEFT:

Account Name: LIFE SAVERS IN ACTION SOCIETY

ACCOUNT NO. : 50100050400236

BANK IFSC CODE: HDFC0000054

BANK NAME: HDFC BANK

ADDRESS: D-54, Siddhi Vinayak, Ashok Marg,

C-scheme, Jaipur-302001, Rajasthan

Please send a snapshot of payment

on [clueconference@gmail.com](mailto:clueconference@gmail.com)

### TARGET AUDIENCE

- ▶ Students and Consultants from below specialities
- ▶ Critical care (IDCCM, DNB, EDIC, DM )
- ▶ Anaesthesiology (MD, DNB, DM )
- ▶ Emergency medicine (MEM, DNB )
- ▶ Pulmonology (MD, DNB, DM )
- ▶ Internal medicine (MD, DNB)

Rooms available  
at nominal rates

### Contact for Registration:

(Phone / WhatsApp)

Sarojini : 70180 00604

Dr Krishna: 98104 18716

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For online payments visit:

[www.aceforumindia.in](http://www.aceforumindia.in)

Conference Secretariat: Dept of Critical Care

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