



Accredited at 'A+' Grade by NAAC (3rd Cycle)
Placed in 'A' Category by MoE (GoI)

VALUE ADDED CERTIFICATE COURSE IN “**INVASIVE HEMODYNAMIC MONITORING IN INTENSIVE CARDIOVASCULAR CARE**”



DEPARTMENT OF CARDIAC ANAESTHESIA

Aims and Objectives : Department of Cardiac Anaesthesia has started Invasive hemodynamic monitoring in intensive cardiovascular care targeting the Allied health sciences related to cardiovascular system like cardiac perfusion technology, Cardiac care technology, Post graduate students in medicine, general surgery in view of need of the knowledge of insertion techniques and interpretation of invasive lines and hemodynamic indices. This knowledge is required for diagnosing Perioperative cardiac function and diagnosis of causes of Perioperative hemodynamic instability. On time diagnosis and treatment will help in improving the outcome.

Course: “Invasive hemodynamic monitoring in intensive cardiovascular care”

Course duration: 18 hours (Completed in 3 weeks)

Target audience: MBBS Interns, Post Graduate Students in Anaesthesia, Cardiology, Medicine, CVTS. B.Sc. and M.Sc. In cardiac care technology and Nursing.

Course contents: Introductory remarks from course director: 30 min.

1. Faculty lectures: 7 lectures (45 min each)

- Physiology of cardiovascular system.
- Normal cardiovascular hemodynamic data and calculations.
- Principles of Invasive Hemodynamic monitoring in intensive cardiovascular units.
- Invasive blood pressure monitoring: Technique, Access, utility, advantages, disadvantages and complications.
- Invasive pulmonary artery pressure monitoring: Technique, Access, utility, advantages, disadvantages and complications.
- Cardiac output monitoring: Part 1
- Cardiac output monitoring: Part 2

2. Demonstration lectures: 6 lectures (45 min each)

- Invasive blood pressure monitoring: Procedure, Technique, Access, utility and Inference of waveform.
- Invasive central venous monitoring: procedure, Technique, Access, utility and inference of waveforms.
- Invasive pulmonary artery pressure monitoring: procedure, Technique, Access, utility and inferences of waveforms.
- Cardiac output monitoring: Part 1- CCO monitoring using CCO catheter and flowtraq.
- Video demonstration of Non-invasive cardiac output monitoring.
- Hemodynamic calculations using CCO.

3. Flip Class: - 6 classes (30 min each)

- Physiology of cardiovascular system.
- Normal cardiovascular hemodynamic data and calculations.
- Principles of Invasive Hemodynamic monitoring in intensive cardiovascular units.
- Invasive blood pressure monitoring: Technique, Access, utility, advantages, disadvantages and complications.
- Invasive central venous monitoring: Technique, Access, utility, advantages, disadvantages and complications.
- Invasive pulmonary artery pressure monitoring: Technique, Access, utility, advantages, disadvantages and complications.

Course Completion address from Course Director: 30 min.

Certificate distribution: 15 min.

Course Director: Dr. Sharanagouda Patil

Course Co-ordinator: Dr. Abhijeet Shitole.



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