Hemodynamic Monitoring

Course Description

This course is designed for healthcare providers working with patients requiring hemodynamic monitoring. The course includes care of the patient with a pulmonary artery catheter and advanced less invasive hemodynamic monitoring. It includes accurate obtaining of readings, waveform analysis and interpretations. Case studies in hemodynamic monitoring will be reviewed.

Key Learning Outcome

- After completing the program, 80% of participants will report an increase in knowledge that will positively impact their practice.

Program Objectives

This program prepares the learner to:

- Discuss the preparation and insertion of the pulmonary artery catheter.
- Describe the method to obtain an accurate reading from the hemodynamic waveform including the identifying of the A and V waves.
- Discuss the newer less invasive hemodynamic monitors and provide scenarios for using these monitors.
- Discuss case studies using patients requiring hemodynamic monitoring.

Agenda

Sign-in begins at 7:30 am. Each day includes a one-hour lunch (on your own), as well as a morning and afternoon break of 15 minutes each. The order of lectures presented and break times may vary according to speaker preference.

Day 1, 8:00 am to 3:30 pm

Hemodynamic Parameters
Cardiac Index: Preload, Afterload, Contractility, Heart Rate | What's Normal—What's Not | Factors that Affect Cardiac Index

Ensuring Accuracy
Patient Position: HOB & Side, Laying | Dynamic Response | Cardiac Output | Impact of Mechanical Ventilation

Waveform Analysis
Valvular Dysfunction: Mitral, Aortic and Triscupid | Effects of Dysrhythmias on Waveforms | Volume Changes and Tamponade

Putting It All Together: Case Studies
Left Ventricular Failure | Cardiogenic Septic Shock | Post Open Heart Surgery

Day 2, 8:00 am to 3:30 pm

Noninvasive Hemodynamic Monitoring
Technique | Stroke Volume Determination | Clinical Applications: CHF Management

Therapeutic Intervention
Inotropic Drugs | Afterload Reducers | Preload Reducers | Which Drug to Choose

DO_2/VO_2 Relationships
Definitions | Factors that Alter O_2 Delivery and Consumption | Anaphylactic Shock and Acute Abdomen

Putting It All Together: Case Studies
Congestive Heart Failure (Acute) | Cardiac Surgery | Acute MI, Cardiogenic Shock | Pneumonia, Multisystem Trauma

Accreditation

RN/LPN/LVN/Other: 12 Contact Hours

MED-ED, Inc is accredited as a provider of nursing continuing professional development by the American Nurses Credentialing Center's Commission on Accreditation (**ANCC**).

MED-ED, Inc. is an approved provider by the following State Boards of Nursing: **Florida**/FBN 50-1286, **Iowa**/296, **California** #CEP10453.

If your profession is not listed, we suggest contacting your board to determine your continuing education requirements and ask about reciprocal approval. Many boards will approve this seminar based on the accreditation of the boards listed here.