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.

Program Learning Outcomes

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

0800 **Hemodynamic Parameters**
Cardiac Index: Preload, Afterload, Contractility, Heart Rate | What's Normal—What's Not | Factors that Affect Cardiac Index

1000 **Break**

1015 **Ensuring Accuracy**
Patient Position: HOB and Side, Laying/Prone | Dynamic Response | Cardiac Output | Impact of Mechanical Ventilation

1130 **Lunch**

1230 **Waveform Analysis**
Valvular Dysfunction: Mitral, Aortic and Triscupid | Effects of Dysrhythmias on Waveforms | Volume Changes and Tamponade

1415 **Break**

1430 **Putting It All Together: Case Studies**
Left Ventricular Failure | Cardiogenic Septic Shock | Post Open Heart Surgery

1530 **Adjourn**

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

0800 **Noninvasive Hemodynamic Monitoring**
Technique | Stroke Volume Determination | Clinical Applications: CHF Management

0945 **Break**

1000 **Therapeutic Intervention**
Inotropic Drugs | Afterload Reducers | Preload Reducers | Which Drug to Choose

1145 **Lunch**

1245 **DO2/VO2 Relationships**
Definitions | Factors that Alter O_2 Delivery and Consumption | Anaphylactic Shock and Acute Abdomen

1345 **Break**

1400 **Putting It All Together: Case Studies**
Congestive Heart Failure (Acute) | Cardiac Surgery | Acute MI, Cardiogenic Shock | Pneumonia | Multisystem Trauma

1530 **Adjourn**

Accreditation

RN/LPN/LVN/Other: 12 Contact Hours

MED-ED, Inc. is accredited as a provider of continuing nursing education 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.