

12-Lead ECG Interpretation: Essential Skills for Clinical Practice



Course Description

This class is an introduction to 12-Lead ECG interpretation for acute and critical care nurses, advanced practice nurses and anyone who needs to be able to interpret an ECG in his or her clinical practice. Content includes anatomy of a 12-Lead ECG, how leads record electrical activity traveling through the heart, normal waveforms and intervals and how each lead should look on a normal ECG. Additional content includes an easy way to determine the QRS axis and its clinical implications; recognition of right and left bundle branch blocks; and ECG criteria for recognizing myocardial ischemia, injury and infarction.

Program Learning Outcomes

This program prepares the learner to:

- Identify a normal 12-Lead ECG.
- Demonstrate the ability to calculate the QRS axis on selected ECGs.
- Identify right and left bundle branch block.
- Recognize ST-elevation myocardial infarction (STEMI) on the 12-Lead ECG.
- Recognize signs of ischemia and non-ST-elevation myocardial infarction (NSTEMI) on the 12-Lead ECG.

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.

8:00 am to 4:30 pm

- 0800 **Normal 12-Lead ECG, Waves and Intervals of the Cardiac Cycle**
Anatomy of a 12-Lead | Which Leads Look Where | Normal Waves and Intervals | Steps in Reading Strips
- 0930 **Break**
- 0945 **Electrical Activity, QRS Complex and Calculating QRS Axis**
Normal Ventricular Depolarization | Recording Electrical Activity | Definition of Axis | Origin of Hexaxial Reference System | Practice Axis Calculation
- 1115 **Right and Left Bundle Branch Block**
Best Leads for Recognizing | Ventricular Depolarizing | Practice ECGs
- 1200 **Lunch**
- 1300 **Coronary Artery Blood Supply | Indicative and Reciprocal Changes | Recognizing STEMI**
Coronary Artery Anatomy | Indicative Changes of Ischemia, Injury, Infarction | Reciprocal Changes | Progressive Changes and ECG Evolution | Anterior-Wall STEMI | Antero-Lateral Wall STEMI
- 1430 **Break**
- 1445 **Recognizing STEMI | Recording Posterior and Right Ventricular Leads**
Inferior-Wall STEMI | Posterior-Wall MI | Right-Ventricular MI | Recording Right Ventricular and Posterior Leads
- 1530 **Signs of Unstable Angina and Non-ST Elevation MI**
ECG Signs of Ischemia | Wellens' Warning | Practice ECGs: NSTEMI
- 1600 **Practice ECGs**
- 1630 **Adjourn**

Accreditation

RN/LPN/LVN/Other: 7 Contact Hours

CRNA: 7 Class A CE Credit Hours

RT: 7 Category 1 CRCE Hours

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

MED-ED, Inc. is approved by the American Association for Respiratory Care (**AARC**) and the American Association of Nurse Anesthetists (**AANA**).

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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.

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