

Clinical Application and Interpretation of the 12-Lead ECG

Contact Hours: 6.75 CE



Introduction

The goal of this full-day session is to enable the bedside professional to perform an interpretation of a 12-lead ECG and apply it to the clinical setting. Recognition of normal waves and a “quick and dirty” way to determine axis is presented. Bundle branch block patterns and hemiblocks are reviewed using 12-lead tracings.

Recognition of ischemia, injury and infarction is accomplished using a pathophysiologic approach to enhance understanding of the mechanism of the condition and then correlate it to the changes seen on the 12-lead. Chamber hypertrophy, electrolyte imbalances, and drug effects are also reviewed using patient assessment parameters and changes seen in the electrical system of the heart.

Objectives

1. Verbalize the ability to look at a 12-lead ECG and recognize normal waves and conduction.
2. Identify intraventricular conduction delays which may be present on the 12-lead ECG.
3. Describe the ECG changes and patterns seen in myocardial ischemia and infarction.
4. Verbalize the ability to recognize ECG changes associated with chamber hypertrophy.
5. Identify ECG changes which may occur with electrolyte imbalances and select medications.
6. Correlate the clinical manifestations seen in select pathological conditions with the ECG changes which may occur.

Recent seminar participants had this to say about “Clinical Application and Interpretation of the 12-Lead ECG”:

“The instructor was very knowledgeable and knows how to deliver information so it is understandable and retainable. I have taken several ECG classes before...you made learning ECGs easier to understand!”



“Well developed course with excellent coverage of material. The instructor was exceptionally good at explaining concepts and making everything simple to understand and remember.”

“Not only will I be able to incorporate this into my daily practice, but I will be able to pass on my knowledge to other staff when asked for help with ECGs.”

“Well organized. Helpful, simple phrases to help with recall of information. It is finally nice to understand reading ECGs and IVCDs.”

“This was an excellent class and instructor! It really helped clarify how to read 12-leads and I learned lots of new things!! The clinical examples and correlation were excellent!! I can’t wait to go back to work and start looking at 12-leads!!”

“Excellent review which was presented in an easily understood manner. I now have the ability to decipher between active MI’s, non-STEMI, old MI’s, and bundle branch blocks. I have never had a solid grasp of this until now. Thank you!”

“I have a much better understanding of ECG interpretation and all the information which can be gained by evaluating them. I will now take a closer and systematic look at an ECG before turning it over to the provider.”



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