



## ECG Interpretation: Rhythms and 12-Leads

### Course Description

This two-day seminar has been designed to provide you with a practical and easy-to-use approach for interpreting arrhythmias and 12-Leads. It is intended for those looking for something more advanced and challenging. Each lecture will include essentials necessary to recognize changes in the rhythm strip and 12-Lead and numerous opportunities to analyze and interpret abnormalities. The format is relaxed and encourages participation. Feel free to bring copies of 12-Leads and rhythms that you would like to discuss in class.

### Program Learning Outcomes

*This program prepares the learner to:*

- Learn the skills to rapidly and accurately assess the cardiogram for abnormalities.
- Develop an understanding of the pathophysiologic basis of electrical malfunctions of the heart.
- Gain the confidence to report your findings.
- Be on your way to becoming the “expert” in your unit.
- Be able to recognize the subtleties that are often missed by the most experienced healthcare provider.
- Be able to rapidly identify potentially life-threatening ECG changes and rhythms.

### 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.

#### Calipers Recommended

#### Day 1, 8:00 am to 4:00 pm

##### Interpretation of ECG Rhythms

- 0800 **Fundamentals of Rhythm Analysis**  
Action Potential Revisited | The “PQRST” | Rates and Intervals
- 0900 **A Systematic Approach to Interpreting the ECG Strip:**  
***Don't Suffer from the P-Preoccupation Syndrome!***
- 0930 **Break**
- 0945 **Sinus Node Disorders**  
Sinus Arrest vs. Block | Tachy-Brady Syndrome and Management
- 1030 **Atrial Abnormalities: Mechanisms and Management**  
Mechanisms | Tach, Fib, Flutter | Treatment Strategies
- 1130 **Lunch**
- 1230 **AV Junctional Disorders: They're Not All Bad!**  
Tachycardias and Escape Rhythms | AV Nodal Blocks: When to Watch and When to Pace
- 1330 **Ventricular Mischief**  
PVCs: When to Worry | Tachycardia | Brugada Syndrome
- 1445 **Putting Your Interpretive Skills to Work: Practice Strips and Case Studies**
- 1600 **Adjourn**

# Agenda

## Day 2, 8:00 am to 4:00 pm

### Interpreting the 12-Lead ECG

- 0800 **The 12-Lead: What's Normal, What's Not?**  
A Step-by-Step Approach | Unipolar vs. Bipolar Leads | Placement Rules | Normals and Normal Variants | Alternate Leads: Right Ventricular and Posterior
- 0930 **Break**
- 0945 **Determining Electrical Axis: It's Easy! Guaranteed!**  
What Does it Mean? Is it Necessary? | Identify Deviations with Just Two Leads | Three Easy Steps to Determine Degrees
- 1030 **Recognition and Localizing Myocardial Infarctions**  
STEMI, NSTEMI, UA | Patterns of Ischemia, Injury and Infarction | Localizing Areas of Infarction | Wellen's Syndrome
- 1145 **Lunch**
- 1245 **Intraventricular Conduction Problems**  
Right vs. Left Bundle Branch Blocks | Anterior and Posterior Fascicular Blocks (Hemiblocks) | Bifascicular Blocks
- 1345 **Wolff-Parkinson-White Syndrome: Potential For Disaster**  
Pre-Excitation Syndromes | ECG Criteria | Orthodromic and Antidromic Tachycardias | Management Strategies
- 1430 **Miscellaneous Mayhem**  
Pericarditis | Pulmonary Embolus | Early Repolarization | Takotsubo Cardiomyopathy ("Broken Heart Syndrome")
- 1530 **Testing Your Interpretive Skills**
- 1600 **Adjourn**

## Accreditation

**RN/LPN: 13 Contact Hours**

**CRNA: 13 CE Credits**

**RT: 13 Category 1 CRCE Hours**

Med-Ed, Inc. is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation.

This program is also approved by the American Association of Nurse Anesthetists (**AANA**) and the American Association of Respiratory Care (**AARC**).

Med-Ed, Inc. is an approved provider by the following State Boards of Nursing: **Florida**/FBN 3215, **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.

© 2014 MED-ED, Inc. All rights reserved.

