Note to Participants: There are interactive pop-up questions throughout this lecture. If you choose to pause the lecture and return at a later time, a natural break time would be after answering the interactive questions. (You are able to pause at any time and the presentation will “remember” where you were. It’s just a more natural time to pause after the interactive questions.) For your convenience, this outline reflects where/when within the lecture the interactive questions occur.

This lecture has 29 slides and is 47 minutes in duration.

I. Introduction
   A. 12 lead ECG placement
   B. Reading a 12 lead ECG
   C. Coronary arteries and blood supply to the heart

II. Waveforms on a 12 lead ECG
    A. The R wave and S wave on leads V1 through V6
    Interactive Questions — slide 16 @ 17 minutes

    B. The ST segment
       1. Elevation
       2. Depression
    C. Identifying problems
       1. Myocardial infarction
          a. Nontransmural
          b. Transmural
          c. Appearance of a Q wave
       2. Hypertrophy
    Interactive Questions — slide 21 @ 29 minutes

III. Reading a 12 lead ECG: What do you see?
    Interactive Questions — slide 27 @ 44 minutes
Bibliography

Articles


Textbooks/Reports


Suggested websites for more information:

- American Heart Association: Common tests for arrhythmias. [www.heart.org/conditions/aarrhythmia](http://www.heart.org/conditions/aarrhythmia)

- ECG references collected by emergency medicine registrar Ed Burns. [www.lifeinthefastlane.com/ecg-library](http://www.lifeinthefastlane.com/ecg-library)

- Publications on ECGs. [www.12leadecg.com](http://www.12leadecg.com)

* These articles are available to download through the tab at the top of this course, as well as from our library page at [www.educata.com/articles.aspx](http://www.educata.com/articles.aspx).