

12-lead ECG Interpretation Course – Suggested Syllabus

Materials included:

- ❑ 12-lead ECG Textbook
- ❑ 12-lead ECG Workbook
- ❑ Tracings Manual
- ❑ HEART Ruler

To Login: Please go to www.ECGCourse.com and click the Login button. You may also use this QR Code:



Purpose of the Course: The specific goal of this comprehensive course is to present 12-lead ECG interpretation using a step-wise, methodical technique with repetition being the key. You will learn to analyze and not memorize each aspect of wavefront formation and origin for normal ECG patterns and pathological patterns (i.e. LVH, LBBB, RBBB, WPW, STEMI, non-STEMI, etc) as well as normal variants. This course is intended as a comprehensive *primer* to the language of electrocardiography. Indeed, the learning curve of electrocardiography will continue throughout the lifetime of one's practice of medicine.

Materials: As you progress through the course, you will be referred to the following materials: **12-lead ECG Textbook:** 128 text pages with full-color illustrations to aid your understanding of the 12- Lead and the resultant waveforms of the Acute MI, Hypertrophy, LBBB, RBBB, WPW, Early Repolarization and LAFB, to name a few; 30 pages of bonus information including straightforward explanations of Axis Calculation, Hypertrophy, Right Ventricular Infarct and Left Posterior Fascicular Block; plus 77 pages of full, 12-Lead tracings of classic ECG patterns, sample solutions and explanations. **12-lead ECG Workbook:** a supplement to the textbook; includes 9 practice worksheets with detailed explanations of actual 12-Lead tracing interpretations, a 19-page Interim Workshop Exam and a 20-page Comprehensive Workshop Exam. **Tracings Manual:** 200+ tracings utilized for online quizzes, homework sets and the final exam **HEART Ruler:** quick pocket-guide reference to the HEART acronym

ASK A QUESTION: Throughout the course, we invite you to submit content and technical questions through the “Contact Us” portal which is located at the top right side of the homepage at www.ECGcourse.com.

Method of Presentation: The online portion of this course is broken down into 10 Modules. Scattered throughout the online modules are homework sets and quizzes to test your proficiency. The last module contains the final exam.

Module 1: The Normal 12-lead ECG

Textbook reference pgs 1-36, 1H-10H and 56H-60H of textbook handbook section.

Workbook reference pgs 1-6, 23-25.

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Online practice tracing sets #1 & 2 (See **Tracings Manual**)

Module 2: The Classic patterns of LVH, LBBB, RBBB, LAFB, WPW

Textbook reference pages: 37-49; 57-59; 11H-31H; 63-76; 47H-55H, A2-A7; A13-16; A25-A29.

Workbook reference pages 7-21.

Online Practice Sets #3-8 (see Tracings Manual); **Online Exercise Set #2, 3, 4** (all Online); **Online Quiz #1**

Module 3: The Acute MI / Ischemia Pattern

Textbook reference pages 77-88; Handbook section pages 32H-50H & 61H-69H.

Workbook reference 31-44; Practice Worksheets #4, #5, #6, #7 (pages 32, 33, 38, 42); 81-86

Online Practice Set #9-12; **Online Exercise Set #5-7**; **Online Quiz #2**

Module 4: Waveshape Distortion Due to the LVH and LBBB

Textbook reference pages 95-128.

Workbook reference pages 45-47; Practice Worksheet #8.

Online Practice Set #13-15 **Online Quiz #3**

Module 5: When One 12-lead is Not Enough

Textbook reference 50-51, 81-83, 100-103

Workbook reference 41, 45, 126-127, 132-133

No testing

Module 6: The Ubiquitous Q-wave

Textbook reference pages 83-84, 102

Workbook reference 36-40

No testing

Module 7: The Ubiquitous ST-elevation

Textbook reference pages 52-54, 79-83, 98-99, 6H.

Workbook reference 31-32, A5-A6; Interim workshop exam, pages 57-80

No testing

Module 8: The Ubiquitous ST-depression and T-wave Inversion | No testing

Module 9: A Systematic-Analytical Approach to 12-Lead Interpretation Using the H*E*A*R*T Mnemonic

Textbook reference pages 89-95

Workbook reference pages 49-95; Hardcopy Comprehensive Workbook Final pages 115-141

Module 10: Comprehensive Final - Online Final; 100 questions use Tracings Manual pages: 198-221