

The CATH LAB SERIES Presents:

12 LEAD ECG INTERPRETATION

IN

ACUTE CORONARY SYNDROME

With CASE STUDIES
from the

CARDIAC CATHETERIZATION LAB

By: Wayne Ruppert, CVT

Medical Editors: Humberto Coto, MD, FACP, FACC
Matthew Glover, MD, FACC
Xavier Prida, MD, FACC
Charles Sand, MD, FACEP, FACP

TARGET AUDIENCE:

This book is intended for medical professionals whom are competent in basic single lead ECG rhythm strip analysis, and desire to learn the basic concepts of 12 lead ECG interpretation, and to identify 12 lead ECG patterns associated with Acute Coronary Syndrome (ACS). It is not intended to teach “basic single-lead rhythm strip analysis.”

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TriGen Publishing
PO Box 7147
Wesley Chapel, FL 33544

Email: editor@TriGenPress.com

BOOK DESCRIPTION:

12 Lead ECG Interpretation in Acute Coronary Syndrome with Case Studies from the Cardiac Catheterization Lab

This 304 page full-color textbook was written and edited by veteran cardiac cath lab interventionalists, and is essentially two volumes in one. The first 92 pages present the basic principles of 12 lead ECG interpretation. The remainder of the book focuses on the evaluation of Acute Coronary Syndrome (ACS) patients.

13 ECG patterns associated with ACS are presented, including the most subtle ECG changes most often missed by clinicians and the ECG machine's automated interpretation software. The curriculum provides an in-depth, balanced approach to patient assessment, combining advanced ECG interpretation skills with patient history, risk factor and cardiac marker evaluation.

Correlation of ECG leads with the coronary arterial distributions which commonly supply each region of the heart are reinforced by use of 24 case studies of ST Segment Elevation Myocardial Infarction (STEMI), Non ST Segment Elevation Myocardial Infarction (NSTEMI), Unstable Angina, and Brugada Syndrome. STEMI Case Studies emphasize the ECG identification of the infarct related artery, and complications to be expected based on failure of cardiac structures commonly supplied by the obstructed arterial distribution.

Case studies begin with patients' initial assessment data obtained in the emergency department and continue into the cardiac catheterization lab where coronary artery angiography illustrates the location of arterial obstruction. Key learning objectives for each type of Myocardial Infarction (MI) are highlighted. 453 full color images, 135 review questions, and 114 ECGs reinforce the learning process.

Target audience is all medical professionals whom are already competent in single-lead rhythm strip evaluation, and desire to become proficient in the 12 lead ECG evaluation of Acute Coronary Syndrome patients. This book was written and reviewed by veteran cardiac cath lab interventionalists.

An instructor's package with PowerPoint slides is also available from TriGen Publishing: www.TriGenPress.com

List prices for this textbook are:

	<u>LISTED RETAIL:</u>	<u>TriGenPress.com WEB SPECIAL:</u>
Hardcover (Case Laminate):	\$123.00 + shipping	\$79.00 + shipping
Soft cover (Perfect Bind):	\$ 99.00 + shipping	\$65.00 + shipping

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TABLE of CONTENTS:

LIST of ABBREVIATIONS used in this book – -----	xvi
CARDIOVASCULAR PATIENT MANAGEMENT	
- The Role of the ECG in Patient Evaluation -----	1
- Primary Cardiac Patient Management Algorithm -----	5
REVIEW OF ESSENTIAL CARDIAC ANATOMY AND PHYSIOLOGY	
- Cellular level A&P, Action Potential -----	7
- Heart Chambers and Normal Pressures -----	9
- Heart Valve Function and Heart Sounds Assessment -----	14
- Coronary Artery Anatomy -----	19
o Common Right Dominant Systems -----	20
o Common Left Dominant Systems -----	24
o Angiographic Images of Dominant Right and Left Coronary Arteries -----	26
o Less Common Coronary Artery Variations -----	27
- Cardiac Electrical System -----	29
 REVIEW QUESTIONS of ESSENTIAL CARDIAC A&P -----	33
BASIC 12 LEAD ECG CONCEPTS	
- ECG Hardware -----	35
- Proper Lead Placement -----	37
- Region of Myocardium and Common Arterial Distributions Covered by Each Lead -----	39
- The 18 Lead ECG -----	43
- Intervals and Waveforms -----	47
o P Waves / Atrial Hypertrophy -----	47
o P-R Segment -----	48
o Delta Waves -----	48
o P-R Interval / AV Nodal Conduction Evaluation -----	49
o QRS Complexes / Evaluation of: -----	50
o Ventricular Hypertrophy -----	53
o Low Voltage QRS Complexes -----	55
o Q Waves -----	56
o ST Segment Evaluation -----	57
o T Wave Evaluation -----	59
o ST Segment and/or T Wave Abnormalities -----	60
o ST Segment Elevation, Differential Diagnosis of: -----	62
o ST Segment Depression, Common Etiologies -----	63
o T Wave Inversion, Common Etiologies -----	64
o Hyperacute T Waves – Common Etiologies -----	65
o QT Interval Evaluation -----	66
o U Waves -----	67
- Bundle Branch Blocks -----	69
- Fascicular Blocks -----	71
- Axis Deviation: Evaluation of Vertical Axis & Causes of Axis Deviation -----	72
- Axis Rotation: Evaluation of Horizontal Axis & Causes of Abnormal R Wave Progression -----	77
- ECG Evaluation: A Structured Approach and The Computer Generated Diagnosis -----	85
 REVIEW QUESTIONS of ESSENTIAL 12 LEAD ECG CONCEPTS -----	88

PHASE 1 ASSESSMENT: RULE OUT IMMEDIATE LIFE-THREATENING CONDITIONS

- The ABCs and Shock Assessment ----- 93

PHASE 2 ASSESSMENT: RULE OUT ACUTE CORONARY SYNDROME (ACS)

- Acute Coronary Syndromes Overview ----- 97

- The Quadrad of Acute Coronary Syndrome ----- 98

- Typical Symptoms of Acute Coronary Syndrome ----- 101

- Atypical Symptoms of Acute Coronary Syndrome / The “Silent” MI----- 102

- Differentiation of Stable vs. Unstable Angina ----- 103

- STAT 12 Lead ECG Evaluation for ACS

- o Evaluate Width of QRS Complexes ----- 105
 - Right Bundle Branch Block QRS Patterns ----- 107
 - Left Bundle Branch Block QRS Patterns ----- 109
 - Case Study: AMI with Left Bundle Branch Block ----- 110
- o Evaluation of ECGs with Normal QRS Complexes ----- 112
 - J Point, ST Segment, T Wave Evaluation ----- 112
 - Table of J Point, ST Segment and T Wave Patterns of ACS ----- 115
- o ECG Diagnosis of Acute Myocardial Infarction ----- 116
 - Pre-Infarction Patterns ----- 117
 - Flat and Convex J-T Apex Segments ----- 117
 - Case Study: Flat J-T Apex Segments ----- 118
 - Hyperacute T Waves ----- 120
 - Case Study: Hyperacute T Waves ----- 121
 - STEMI – ECG Diagnostic Criteria ----- 123
 - Variations of ST Segment Elevation Patterns in STEMI ----- 123
 - Table of Differential Diagnosis of ST Segment Elevation ----- 125
 - Evolving MI: Development of Abnormal Q Waves and R Wave Progression ---- 126
 - Q Wave Evolution During STEMI ----- 127
 - R Wave Progression Changes During AMI ----- 129
 - o Anterior MI – Delayed R Wave Progression ----- 129
 - o Posterior MI – Early R Wave Progression ----- 132
- o ECG Patterns Associated with NSTEMI and Unstable Angina ----- 134
- o Obtaining Serial ECGs: an Absolute Necessity in Ruling Out ACS ----- 136
- o Cardiac Markers and Other Essential Labs ----- 140

☞ REVIEW QUESTIONS of PATIENT and ECG EVALUATION in CASES of ACUTE CORONARY SYNDROME with PRACTICE ECGs ----- 148

- Serial Cardiac Markers ----- 151

- Risk Factor Evaluation ----- 152

- Modified TIMI ACS Risk Score ----- 153

- Case Study: Role of Risk Factor Evaluation in ACS ----- 155

- The Simple Acute Coronary Syndrome (SACS) Score – a new tool currently being validated --- 157

- ACCELERATED DIAGNOSTIC PROTOCOLS ----- 158

- o Stress Testing ----- 158
- o Echocardiography ----- 162
- o Coronary CT Angiography ----- 162
- o Magnetic Resonance Imaging (MRI) ----- 162

CASE STUDIES of ACUTE CORONARY SYNDROME:

- Overview of Case Study Format, Patient Confidentiality Statement ----- 163

STEMI CASE STUDIES

- ECG Identification of Infarct Related Artery: Summary of Case Studies ----- 164

- STEMI ACS Patient Management Flow Chart ----- 165

- Case Study 1: Anterior Wall MI: Occlusion of Mid-Left Anterior Descending Artery ----- 166

- Case Study 2: Lateral Wall MI: Occlusion of First Diagonal Artery ----- 172

- Case Study 3: Anterior Wall MI: Occlusion of Proximal Left Anterior Descending Artery ----- 178

- Case Study 4: Global Left Ventricular MI: Occlusion of Left Main Coronary Artery ----- 183

- Case Study 5: Lateral Wall MI: Occlusion of Non-Dominant Circumflex Artery----- 191

- Case Study 6: Inferior Wall MI: Occlusion of Dominant Right Coronary Artery ----- 196

- Case Study 7: Inferior-Right Ventricular MI: Occlusion of Proximal Right Coronary Artery ----- 204

- Case Study 8: Inferior-Posterior MI: Occlusion of “Extreme Dominant” Right Coronary Artery ---- 212

- Case Study 9: Inferior-Posterior-Lateral MI: Occlusion of Proximal Dominant Circumflex Artery -- 218

- Case Study 10: Anterior-Lateral-Inferior MI: Occlusion of Transapical Left Anterior Descend. Art.- 226

 **REVIEW QUESTIONS of STEMI and PRACTICE ECGs ----- 230**

NSTEMI CASE STUDIES

- NSTEMI Overview and ACS Patient Management Flow Chart ----- 241

- Case Study 11: Normal ECG: Acute Lateral Wall MI, 100% Occlusion of Circumflex Artery ----- 242

- Case Study 12: ST Depression V1-V4: Acute Posterior Wall MI ----- 246

- Case Study 13: ST Depression, Lateral, Inferior, Anterior Leads ----- 250

- Case Study 14: Poor R Wave Progression, Biphasic T waves V2-V6, Apical Balloon Syndrome ---- 254

- NSTEMI Summary ----- 258

UNSTABLE ANGINA CASE STUDIES:

- Unstable Angina: Overview and Patient Management Flow Chart ----- 259

- Case Study 15: ST Depression Leads II, III, aVF: Obstructive CAD in RCA ----- 260

- Case Study 16: Normal ECG, ACS Intermittent ACS Symptoms at Rest, Prinzmetal’s Angina ----- 264

- Case Study 17: Normal ECG, Progressively Worse ACS Symptoms, Advanced CAD ----- 268

BRUGADA SYNDROME and other STEMI MIMICS:

- Brugada Syndrome: History, Clinical Description, Diagnosis, Prognosis, Treatment ----- 271

- Case Study 18: Brugada Syndrome ----- 273

- Brugada Syndrome: Sample ECGs ----- 274

- STEMI MIMICS: ECGs of Other Conditions That Cause ST Elevation ----- 275

 **REVIEW QUESTIONS E of NSTEMI and Unstable Angina and PRACTICE ECGs ----- 278**

ANSWERS to REVIEW QUESTION: ----- 280

INDEX with REFERENCE SOURCES: ----- 281

THIS BOOK is the first of three “Cath Lab Series” textbooks which focus the correlation of ECG findings with the diagnosis of potentially lethal conditions as seen in the cardiac catheterization and electrophysiology labs. An overview of book contents are listed below:

BOOK 1 (This book):

“12 Lead ECG Interpretation and ACUTE CORONARY SYNDROME with Case Studies from the Cardiac Catheterization Lab.”

- **12 Lead ECG Interpretation**
- ST Segment Elevation MI (STEMI)
- Apical Ballooning (“Broken Heart”) Syndrome
- Non ST Elevation MI (NSTEMI)
- Unstable Angina
- Brugada Syndrome

BOOK 2 (Coming soon):

“CARDIAC DYSRHYTHMIAS from the Electrophysiology Lab.”

- Wide Complex Tachycardias
- Narrow Complex Tachycardias
- Heart Blocks and Bradycardias
- Atrial Fibrillation / Atrial Flutter
- ACLS Algorithms / Cardiac Arrest Rhythms
- Wolff-Parkinson-White Syndrome
- Brugada Syndrome (with EP studies)
- Long Q-T Syndrome

BOOK 3 (Coming soon):

“12 Lead ECG Case Studies of Non-ACS CARDIAC EMERGENCIES from the Cardiac Catheterization Lab.”

- Hyperkalemia
- Pulmonary Embolus
- Pericardial Tamponade
- Acute Mitral Valve Rupture
- Acute Ventricular Septal Rupture
- Acute Myocarditis
- Acute Pericarditis
- Idiopathic Hypertrophic Subaortic Stenosis

For more information about these and other books, visit our website at: www.TriGenPress.com

ECG EDUCATION SEMINARS AVAILABLE from ECGTraining.org:



OFFERED AT OUR TRAINING SITE in TAMPA, FLORIDA, or ON-SITE AT YOUR LOCATION.

“12 Lead ECG Interpretation and Acute Coronary Syndrome - an Interactive Workshop”

The first four hours of this workshop covers the fundamental concepts of 12 lead ECG Interpretation. The second four hours covers Acute Coronary Syndromes. Program specific topics are listed in the Course Syllabus, below.

The educational format we use consists of **basic instruction in each topic**, followed by **hands-on practical skill sessions** where students *interpret practice ECGs*, and *written exercises* designed to reinforce the student's knowledge of essential concepts. *The curriculum content and order of presentation is consistent with that of this textbook.*

The program consists of 1400+ PowerPoint images which include: *12 Lead ECGs, Coronary Artery Angiography* from the Cath Lab, and *Animated Graphics* designed to enhance the learning process.

This book is designed to be used as the workshop hand-out. It is also designed to be used as a “stand-alone” textbook. Students attending the workshop will want keep the book for future reference.

Course Syllabus:

Session I - 12 Lead ECG Interpretation (4 hours):

- Essential Cardiac Anatomy and Physiology
 - Coronary Artery Anatomy
 - Cardiac Electrical System
- Basic ECG Principles
- Waveforms and Intervals
- QRS Patterns
- Bundle Branch Blocks
- Chamber Hypertrophy
- Axis Deviation and Rotation

Session II - Acute Coronary Syndrome (4 hours):

- Acute Coronary Syndrome Patient Evaluation and Management
- 12, 15, and 18 Lead ECGs
- ECG Patterns of Myocardial Infarction and Ischemia
- ST Segment Elevation Myocardial Infarction (STEMI)
 - Identification of Zone of Infarction
 - Identification of Occluded Artery
 - Specific Management Considerations for each Type of MI
- Cardiac Markers
- Non-ST Segment Elevation Myocardial Infarction (NSTEMI)
- Unstable Angina
- Brugada Syndrome

TIME:	8 hours
PRE-REQUISITES:	Ability to interpret single-lead rhythm strips (ACLS level proficiency)
INSTRUCTOR:	Wayne Ruppert
COURSE MATERIAL:	PowerPoint Handout (included in basic tuition cost) or this textbook (optional)
STATUS:	Currently available. For more information, contact: editor@TriGenPress.com

ECG EDUCATION SEMINARS AVAILABLE from ECGTraining.org:

“ECG Case Studies of NON-ACS EMERGENCIES From The Cardiac Catheterization Lab”

This four hour workshop provides an in-depth review of conditions where ECG diagnoses are *validated* or *ruled out* by Cardiac Catheterization. Educational curriculum includes *ECG diagnostic criteria* and *actual case studies* which start with the patient’s initial evaluation and follow the patient into the Cardiac Cath Lab.

- Hyperkalemia
- Pulmonary Embolus
- Pericardial Tamponade
- Acute Mitral Valve Rupture
- Acute Ventricular Septal Rupture
- Acute Myocarditis
- Acute Pericarditis
- Idiopathic Hypertrophic Subaortic Stenosis

TIME: 4 hours
PRE-REQUISITES: Basic 12 Lead ECG Interpretation skills
INSTRUCTOR: Wayne Ruppert
COURSE MATERIAL: PowerPoint Handout
STATUS: Currently Available

“ECG Case Studies from the Electrophysiology Lab”

In the electrophysiology (EP) lab, catheters with *up to 34 sensing electrodes* are placed *within the cardiac chambers* and *coronary sinus*, for precise mapping of cardiac dysrhythmias, without error. The case studies reviewed in this course are of dysrhythmias which are often difficult – if not impossible – to accurately diagnose using the “surface” 12 lead ECG. Each case study features the patient’s 12 lead ECGs, and the electrograms (“internal” ECG) recorded in the Electrophysiology Lab. In this course, we provide case studies of:

- Wide Complex Tachycardias
 - Ventricular Tachycardia (VT)
 - Supraventricular Tachycardia (SVT) with Bundle Branch Block Aberrancy
 - Supraventricular “Bypass Tract” Tachycardias (WPW with antedromic conduction)
- Narrow Complex Tachycardias
- Heart Blocks and Bradycardias
- Wolff-Parkinson-White Syndrome (WPW)
- Atrial Fibrillation
- Brugada Syndrome
- Long Q-T Syndrome

TIME: 4 hours
PRE-REQUISITES: Basic 12 Lead ECG Interpretation skills
INSTRUCTOR: Wayne Ruppert
COURSE MATERIAL: PowerPoint Handout
AVAILABILITY: Currently Available .

To inquire about our ECG Seminars, contact: editor@TriGenPress.com