

Outline

Part I: The ABCs of 12-Lead EKG Interpretation

The 12-Lead EKG

Cardiac electrical conduction system
Electrical vectors
Normal polarity & P-QRS-T configuration of each lead

Ace the Axis

Left & right axis deviation
Causes & criteria
Methods of determining axis deviation
Clinical applications

Beat the Bundles

Right & left bundle branch blocks
Causes & complications
Left anterior & left posterior hemiblocks

Correlate the Coronary Anatomy

The coronary arteries
Left ventricular walls
Relationship to the 12-lead

Differential Diagnosis in Acute Coronary Syndrome

Ischemia, injury & infarction patterns
Reciprocal changes
STEMI vs. NSTEMI
Coronary spasm
Takotsubo cardiomyopathy

Putting it all Together

The 30-second diagnosis
Coronary angiographic correlation
Presentations, analysis & clinical applications

Advanced 12 Lead EKG: Subtle and High-Risk Signs

Atrial & ventricular hypertrophy
WPW – Wolff-Parkinson-White syndrome
Prolonged QT intervals
Pulmonary hypertension
Wellen's syndrome
Takotsubo cardiomyopathy

Part II: Chest X-Ray Interpretation as Easy as Black & White

The Chest X-Ray

Technique
Black & white principles
Projections
Systematic Approach
Bone structures & Intercostal spaces
Soft tissues & vasculature
Pleural surfaces
Heart & great vessels
Invasive lines

As Easy as Black

Identifying pneumothorax & subcutaneous emphysema

Treatment priorities

As Easy as White

Identifying:

- Pleural Effusion
- Pulmonary Edema
- Pneumonia
- ARDS
- Cardiomyopathy
- Cardiac Tamponade

Clinical applications & interventions

Beyond the Basics

Identification & Initial Treatment of:

- Aortic aneurysm
- Post-op changes with pneumonectomy
- Esophagogastrectomy
- Dextrocardia

Live Seminar & Webinar Schedule (Time listed in Eastern)

7:30 Registration/Morning Coffee & Tea

8:00 Program begins

11:50-1:00 Lunch (*on your own*)

4:00 Program ends

There will be two 15-min breaks (mid-morning & mid-afternoon).
Actual lunch and break start times are at the discretion of the speaker.
A more detailed schedule is available upon request.

Objectives

1. Analyze EKG changes associated with ischemia, injury and infarction patterns.
2. Specify the features of right bundle branch block from the features of left bundle branch block.
3. Evaluate axis deviation and the implications for clinical practice.
4. Assess common cardiac and pulmonary disorders using the chest x-ray.
5. Detect the placement of invasive lines on chest x-rays.
6. Develop a systematic approach to chest x-ray interpretation.
7. Incorporate the clinical pearls of EKG and chest x-ray interpretation into daily practice.

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- Analyze QRS axis to determine diagnosis
- Contrast left anterior and posterior hemiblocks
- Recognize the location of acute coronary syndromes
- Interpret chest x-rays for differential diagnosis
- Perform more efficient and effective patient assessments



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- Don't miss this opportunity to:
- Analyze QRS axis to determine diagnosis
 - Contrast left anterior and posterior hemiblocks
 - Recognize the location of acute coronary syndromes
 - Interpret chest x-rays for differential diagnosis
 - Perform more efficient and effective patient assessments

Cheryl's **practical insights and research-based updates** will elevate new ways of thinking. You will be able to rapidly assess, take information from the incoming test results and **initiate the best treatments for your patients.**

MEET YOUR SPEAKER

CHERYL HERRMANN, RN, MS, APRN, CCRN, CCNS-CSC/CMC, has 35+ years of nursing experience—15 years as a bedside nurse in SICU, Neuro ICU, and CVICU, and 20 years as a cardiac clinical nurse specialist. As a cardiac CNS, she cares for patients in cardiac prep and recovery, cardiac catheterization, surgery, ICU, telemetry/progressive units, and at discharge. In addition, Cheryl is a prehospital RN for the local ambulance service. She has a passion for cardiac nursing and is an advocate for heart health.

Cheryl is a reviewer for a critical care textbook as well as several nursing journals, one of which, Critical Care Clinics, recently published her article “A Woman's Heart is Different.” She is a popular presenter for national conferences such as the American Association of Critical Care Nurses NTI. Cheryl has been honored with the American Association of Critical-Care Nurses Circle of Excellence—Excellent Clinical Nurse Specialist Award.

Speaker Disclosure:
Financial: Cheryl D. Herrmann has an employment relationship with UnityPoint Health Cardiology. She receives a speaking honorarium from PESI, Inc.
Non-financial: Cheryl D. Herrmann is a member of the Illinois Society of Advanced Practice Nurses and National Association of Clinical Nurse Specialists.



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