

## OUTLINE

### Hemodynamics

- Do you need a Swan-Ganz?
- Preload/Afterload
- Contractility
- Cardiac output
- Cardiac index
- Mean arterial pressure

### Respiratory Diagnoses

- Will the real cause of SOB please stand up: Complicating the respiratory diagnosis
- Clinical presentation, signs/symptoms, interventions, management of:
  - Pneumonia
  - Asthma
  - COPD
  - Acute Respiratory Distress Syndrome
  - Pulmonary embolism (Air, Fat, Amniotic)
- Anaphylaxis
- Acute Respiratory Failure
- Pleural effusions
- Pneumothorax
- Foreign body aspiration

### Respiratory Interventions and Medications

- Pharmacology
- ABGs: Simplifying the numbers
- Chest Tubes: Indications, set-up, troubleshooting
- Capnography: Interpreting what it tells us
- Ventilation and NPPV basics: Modes of ventilation and appropriate uses

### Cardiac Diagnoses

- Bradycardic & tachycardic rhythms: Essentials that you need to know
- Is This Patient Having an MI?
  - Pericarditis
  - Myocarditis
  - Endocarditis
  - Etiology, Clinical Presentation, ECG changes, Treatment
- Aortic Stenosis
- Heart Failure
- Current best practice recommendations
- Long-term prognosis

### Acute Coronary Syndrome

- Unstable Angina
- STEMI
- Non-STEMI
- Differentiating the Three

### Cardiac Interventions and Medications

- Pharmacology
  - Vasopressors vs. Inotropes
  - Ace Inhibitors, Beta blockers
  - Anticoagulants
- Stabilization & Treatment procedures
  - Stents, CABG, LVADS
- What's Trending?
  - Current trending technology
- Case Presentations & Identify Probable Diagnosis

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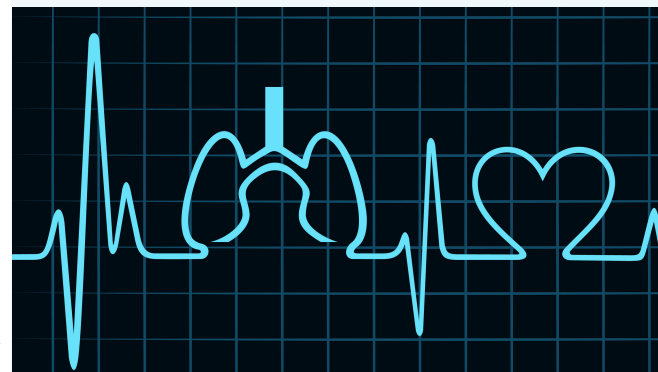
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# Cardiac and Respiratory Complexities

Quickly Differentiate to Take Rapid Action



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Monday, September 9, 2019

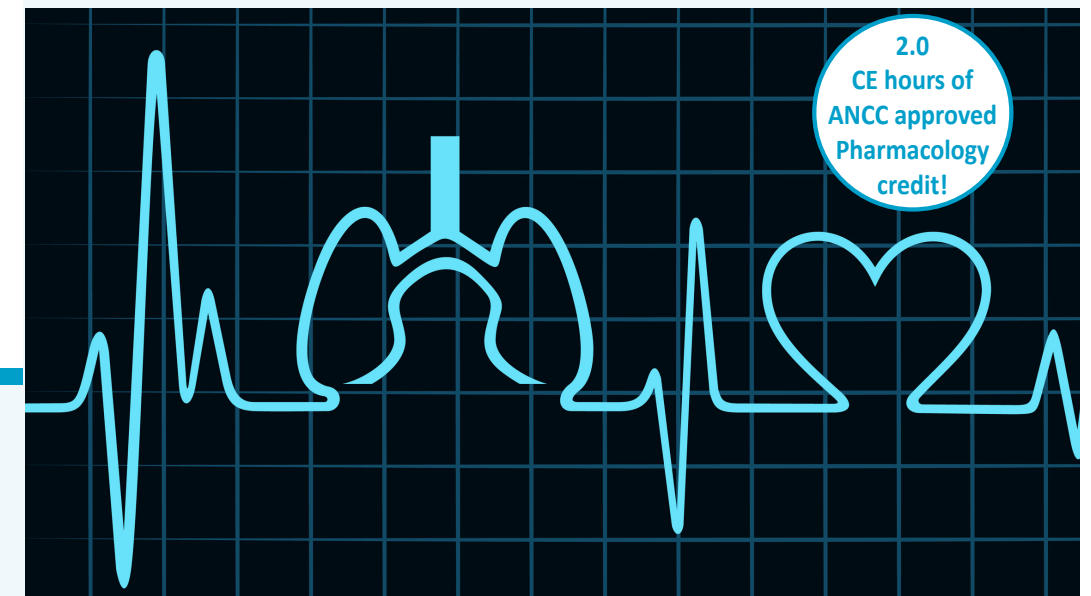
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Nurses • Nurse Practitioners • Clinical Nurse Specialists

# Cardiac and Respiratory Complexities

Quickly Differentiate to Take Rapid Action



- The BEST strategies to de-mystify the ECG findings
- Making sense of cardiac medications
- Hemodynamics: Improve your confidence interpreting results
- Early signs of clinical deterioration: How did the clues get missed?
- Critical steps to manage fluid and electrolyte levels
- ABGs made easy
- Pacing devices & other interventions: What's trending
- CPAP, BiPAP, and ventilators

**BURLINGTON, VT**  
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# CARDIAC AND RESPIRATORY COMPLEXITIES

## Quickly Differentiate to Take Rapid Action

*You are assessing the patient who just returned from endoscopy following a foreign body removal. The patient is complaining of his throat itching. On assessment, his vital signs are normal, but he appears anxious. Is this normal following the procedure? Do you put him on a cardiac monitor? Should you call a rapid response?*

We have all been faced with the clinical dilemma when our patient has rapidly progressing dyspnea, tachypnea, fever, cough, and chest pain. What is happening? Distinguishing between heart failure, pneumonia, and ARDS can be difficult. Did you know that COPD could mask a pulmonary embolism? When your patient is wheezing, do you make the assumption it is asthma? Or could the presentation be caused by heart failure or an allergic reaction?

Attending this conference will provide you with the confidence to recognize early and identify appropriate interventions to prevent further deterioration. We will discuss when non-invasive ventilation devices should - and should not - be used. If you are still struggling with blood gases, don't let blood gases intimidate you! Learn quick and easy ways to interpret ABG results. You will learn from actual patient stories to illustrate the complexities and co-morbidities of cardiac and respiratory diagnoses!

### SPEAKER

**Robin Gilbert, MSN, RN, CEN, CPEN**, has over 25 years' experience in emergency nursing. She is both a certified emergency nurse and certified pediatric emergency nurse. Robin has experience as an emergency department manager, manager of cardiac & pulmonary rehabilitation and, currently, as the regional manager for staff development at Central Maine Medical Center. She instructs the NCLEX review class for Kaplan and tutors nursing students online for a local college of nursing. Her experience also includes having been an item writer for the Board Certification of Emergency Nursing and a former Chairperson. In her current role, Robin is able to remain up to date in the trends and best practice standards for care in emergency nursing. Robin received her BSN from Curry College, Massachusetts and her MSN from Saint Joseph's College, Maine. Robin is an active member of the Emergency Nurses Association, the American Nurses Association, Society of Critical Care Medicine, and is a reviewer for the ANCC's Pathway to Excellence.

Speaker Disclosures:

Financial: Robin Gilbert has an employment relationship with Central Maine Medical Center and Rumford Hospital. She receives a speaking honorarium from PESI, Inc.

Non-financial: Robin Gilbert has no relevant non-financial relationship to disclose.

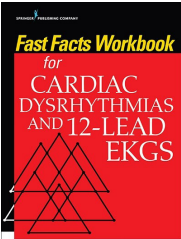
### OBJECTIVES

1. Review the nursing assessment for patients with airway or ventilatory problems.
2. Describe the pathophysiologic changes that occur causing the signs and symptoms associated with airway or ventilatory problems.
3. Select appropriate interventions for airway or ventilatory problems.
4. Differentiate between ventilator modes and the use of NPPV.
5. Evaluate appropriate treatment strategies for high-risk ECG findings.
6. Plan for emerging treatments in heart failure.
7. Analyze management options for acute coronary syndromes.
8. Describe the diagnosis, evaluation, and management of inflammatory cardiac disease.

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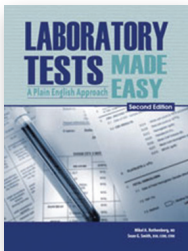
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By Paul Desmarais PhD, RN

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#### Laboratory Tests Made Easy: A Plain English Approach, Second Edition

By Mikel Rothenberg, MD & Sean G. Smith, BSN, CCRN

This best-selling reference book provides both the "need to know" information, as well as the more in-depth "nice to know" details relevant to your patient's lab results. In this Second Edition you will find plain English summaries, pertinent case studies, and easy to read diagrams and tables. This fully revised and updated book puts the information right at the fingertips of any medical professional at any experience level. Laboratory Tests Made Easy is a must for your professional library. (2014)

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**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.*

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