

Cardiac Nuts & Bolts: Drugs and Diseases



Course Description

Day One of this two-day course is designed for nurses and other healthcare providers working in critical care units, progressive care units, emergency departments, medical-surgical units, home health care or anywhere cardiac drugs are administered or patients with cardiac diseases are cared for. The course covers the physiological basis for using cardiac drugs, the indications and side effects. On Day Two, diagnosis and management of two of the most commonly encountered cardiovascular diseases, heart failure and acute coronary syndrome, are covered, along with an overview of other cardiac pathologies. Current management strategies are discussed with each disease process.

Program Learning Outcomes

This program prepares the learner to:

- Discuss the physiological basis for cardiac drug therapy.
- List specific drugs used to improve cardiac output, control blood pressure, modify the renin-angiotensin-aldosterone system, stimulate and block the cardiovascular effects of the sympathetic nervous system, prevent platelet activation and aggregation, modify the clotting cascade, treat cardiac arrhythmias and manage dyslipidemias.
- State the clinical indications and most common side effects for selected cardiac drugs.
- Discuss the pathophysiology, presentation and management of the following cardiac diseases: heart failure, cardiomyopathies, inflammatory cardiac diseases, valvular disease and acute coronary syndromes.
- Describe how to initiate temporary transvenous and epicardial pacing at the bedside, evaluate capture and sensing along with troubleshooting techniques.
- Recognize bradyarrhythmias, narrow QRS tachycardias and wide QRS tachycardias on selected rhythm strips and discuss drug and electrical therapy for each.

Agenda

Sign-in begins at 7:30 am. Each day includes a one-hour lunch (on your own), as well as a morning and afternoon break of 15 minutes each. The order of lectures presented and break times may vary according to speaker preference.

Day 1, 8:00 am to 4:30 pm

- 0800 **Physiological Basis of Cardiac Drug Therapy**
- 0930 **Break**
- 0945 **ACEI, ARBs, Aldosterone Blockers, Diuretics**
- 1030 **Beta Blockers, Ca⁺⁺ Blockers**
- 1115 **Antithrombotic Drugs**
- 1200 **Lunch**
- 1300 **Vasoactive Drugs**
- 1430 **Break**
- 1445 **Antiarrhythmic Drugs**
- 1545 **Lipid Management Drugs**
- 1615 **Summary of Treatment for Specific Conditions: Shock States, Hypertensive Emergencies, Heart Failure**
- 1630 **Adjourn**

Agenda

Day 2, 8:00 am to 4:30 pm

- 0800 **Heart Failure**
Pathophysiology | Assessment | Treatment Guidelines
- 0945 **Break**
- 1000 **Cardiomyopathies**
Hypertrophic | Dilated | Restrictive | Takotsubo
Inflammatory Cardiac Diseases
Endocarditis | Myocarditis | Pericarditis
- 1100 **Valve Disease**
Aortic and Mitral
- 1145 **Lunch**
- 1245 **Acute Coronary Syndrome**
Pathophysiology | ECG Diagnosis (STEMI, NSTEMI) | Treatment Guidelines
- 1415 **Break**
- 1430 **Arrhythmia Review**
Bradyarrhythmias | Supraventricular Tachycardias | Ventricular Tachycardias
- 1530 **Pacemakers for the Petrified**
Basics of Pacing | Initiating Temporary Pacing at the Bedside | Single Chamber Pacemaker Evaluation
- 1630 **Adjourn**

Accreditation

RN/LPN: 14 Contact Hours

CRNA: 14 CE Credits

RT: 14 Category 1 CRCE Hours

Med-Ed, Inc. is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation.

This program is also approved by the American Association of Nurse Anesthetists (**AANA**) and the American Association of Respiratory Care (**AARC**).

Med-Ed, Inc. is an approved provider by the following State Boards of Nursing: **Florida/FBN 3215, Iowa/296, California #CEP10453.**

If your profession is not listed we suggest contacting your board to determine your continuing education requirements and ask about reciprocal approval. Many boards will approve this seminar based on the accreditation of the boards listed here.

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