Everything Cardiac

Course Description
This program provides a clinically applicable review of cardiovascular physiology and pathophysiology, cardiac assessment, cardiovascular pharmacology and interventions based on current guidelines for the most common cardiac disorders seen in clinical practice. Content includes a review of cardiac physiology that can be applied in daily practice, the physiological basis for cardiovascular drug therapy and the pathophysiology, diagnosis and guideline-based treatment strategies for heart failure, acute coronary syndromes and atrial fibrillation. Clinically useful tips on noninvasive assessment techniques and 12-Lead ECG interpretation can be applied in any clinical setting where cardiac patients receive care. Evidence-based practice standards for bedside cardiac monitoring for arrhythmia identification, ST-segment monitoring and QT interval monitoring provide a foundation for the delivery of high quality patient care in any monitored setting. Take your knowledge of cardiovascular patient care to a higher level and improve outcomes for your patients.

Program Learning Outcomes
This program prepares the learner to:

- Apply physiological concepts to your understanding of cardiovascular drug therapy.
- Utilize physical assessment skills to evaluate a patient's cardiovascular status.
- Utilize the 12-Lead ECG to evaluate patients with chest pain and acute coronary syndrome.
- Utilize the bedside cardiac monitor to evaluate arrhythmias and to assess the ST segment and the QT interval.
- Discuss management of patients with heart failure, acute coronary syndromes and atrial fibrillation.

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   Essential Cardiovascular Physiology
Normal Cardiac Valve Function | Coronary Artery Anatomy and Blood Supply to the Heart | Cardiac Conduction System | Origin of ECG Waves and Intervals | Determinants of Cardiac Output and Noninvasive Evaluation | Blood Pressure Regulation

0845   Essential Assessment Skills
Blood Pressure Evaluation | Evaluating Neck Veins | Heart Sounds | Compensatory Mechanisms for Decreased Cardiac Output | Signs of Peripheral Hypoperfusion | Signs of Pulmonary Congestion

0945   Break

1000   Cardiovascular Pharmacology
Manipulating Determinants of Cardiac Output | Balancing Myocardial O₂ Supply and Demand | Altering the Renin-Angiotensin-Aldosterone System | ACE Inhibitors | Beta Blockers | Calcium Channel Blockers | Antiplatelets and Anticoagulants | Vasoactive Drugs

1200   Lunch

1300   Essentials of 12-Lead ECG Interpretation
Anatomy | Normal ECG Waves and Intervals | Easy Axis Determination | Bundle Branch Block

1430   Break

(continued)
Agenda

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

0800 Understanding Heart Failure
Pathophysiology | Systolic vs. Diastolic | Signs and Symptoms | Classification Systems | Acute Decompensated HF | Drug Therapy | Biventricular Pacing | Ventricular Assist Devices

1000 Break

1015 Atrial Fibrillation: Risks and Management
Pathophysiology | Detrimental Effects | Determining Stroke Risk | Management | Anticoagulation Guidelines | Ablation and Surgical Management

1200 Lunch

1300 Cardiac Monitoring: Using the Bedside Monitor and 12-Lead ECG for Rhythm Identification
Advantages and Disadvantages | Proper Electrode Placement for 5-Wire Systems | Best Practice for Bedside Monitoring | Alternative Monitoring Leads | Best Leads for ST-Segment Monitoring | Technical Aspects of ST-Segment Monitoring

1430 Break

1445 Cardiac Monitoring: Using the Bedside Monitor and 12-Lead ECG for Rhythm Identification (cont.)
Supraventricular Tachycardias | Ventricular Tachycardias | Mechanisms of Aberrant Conduction | Differential Diagnosis of Wide QRS Tachycardias

1630 Adjourn

Accreditation

RN/LPN/LVN/Other: 14 Contact Hours
CRNA: 14 Class A CE Credit Hours

Includes 4 Pharmacology Contact Hours

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