



**INTENSIVE CARE UNIT (ICU)
and/or
CORONARY CARE UNIT (CCU)**

Goal: The goal of the ICU and/or CCU rotation is to provide learning opportunities that will enable students to develop the knowledge, skills, and attitudes necessary to:

1. Identify the appropriate management of patients in the ICU and CCU setting with the importance of consultation.
2. Determine appropriate tests and procedures for specific cardiac conditions and complaints.
3. Perform a variety of procedural skills pertinent to the CCU setting.
4. Identify the most common Diagnosis that require ICU care, the principles of management, and the appropriate consultation for medical conditions in the ICU setting.
5. Determine appropriate tests and procedures for specific medical situations.
6. Perform a variety of procedural skills pertinent to the ICU setting.

Objectives: Upon completion of this rotation students will demonstrate:

1. The ability to perform a diagnostic work- up of adult patients with the following symptoms and problems:
 - a. Chest pain.
 - b. Shortness of breath.
 - c. Palpitations.
 - d. Syncope.
 - e. Rhythm and conduction disturbances.
 - f. Coronary artery disease.
 - g. Cardiomyopathy.
 - h. Valvular heart disease.
2. The ability to complete a cardiovascular history and cardiac-centered physical examination.
3. Understanding of the indications and interpretation of the following tests:
 - a. ECG and ECG monitoring.
 - b. Chest x-ray.
 - c. Stress testing.
 - d. Echocardiography.
 - e. Radioisotope imaging.
 - f. Coronary angiography.
 - g. Electrophysiologic testing.

4. Understanding of the laboratory interpretation of cardiac enzymes.
5. Understanding of the following diseases and conditions:
 - a. Acute myocardial infarction
 - b. Unstable angina
 - c. Arrhythmias, including:
 - Congestive heart failure, acute and chronic.
 - Supraventricular (atrial flutter, atrial fibrillation, supraventricular tachycardia).
 - Ventricular (ventricular tachycardia).
 - Sudden cardiac death.
 - Heart block (first degree, second degree (types I and II), third degree and the use of Pacemakers and AICD).
 - Electrophysiologic testing.
6. Identify the indications and contraindications for the following interventional procedures, including:
 - a. Swan-Ganz catheterization.
 - b. Temporary and permanent pacemaker.
 - c. Coronary angiography.
 - d. Percutaneous transluminal coronary angioplasty.
 - e. Stenting.
 - f. Coronary artery bypass surgery.
7. Accurately identify and manage conditions such as:
 - a. Acute pulmonary edema.
 - b. Sepsis.
 - c. Shock.
 - d. Acute GI bleed.
 - e. Respiratory distress.
 - f. Drug overdose.
 - g. Ventilator management.
8. Interpret tests and develop an understanding of the following procedures including:
 - a. Arterial blood gases.
 - b. Chest x-ray.
 - c. Respiratory parameters.
 - d. Ventilator management.
 - e. Peripheral IV insertion.
 - f. Arterial puncture.
 - g. ACLS and codes.

9. Demonstrate understanding of the following techniques and procedures:
 - a. Central line placement.
 - b. PFTs.
 - c. Bronchoscopy.
 - d. Intubation and ventilation.

7. Identify the principles related to the safe practice of osteopathic manipulation in the ICU setting.
8. Identify those practices that are useful in the ICU setting and effectively apply osteopathic manipulative medicine skills as they are required, including but not limited to:
 - a. OMM for the relief of Congestive Heart Failure.
 - b. Pedal pump.
 - c. Thoracic pump.
 - d. Indirect techniques for the treatment of the chest wall and thoracic spine.