

This Exam Outline was developed to help you prepare for the knowledge exam.

This Exam Outline is not meant to cover all aspects of the knowledge exam, but to guide your preparation for questions that may occur in the knowledge exam.

Review:

- 12 lead EKG interpretation, use
- Mechanical ventilation management, effects, alarms, complications, end-tidal CO<sub>2</sub> monitoring
- Respiratory anatomy: function, dead space, ventilation, oxygenation, Ventilation/perfusion mismatch
- Hemodynamic pressure monitoring devices, management, pressures, wave form interpretation
- Pulmonary artery catheters: indications, contraindications, placement, and management, complications
- Myocardial infarctions, angina signs, treatment, management
- Cardiac output, preload, afterload, contractility, systemic vascular resistance, stroke volume
- Atrial “kick” components
- Congenital heart defects
- Types of shock, treatment, management, signs
- Common dysrhythmias, causes, treatment, management, blocks and lethal rhythms
- Common infusion medications indications, contraindications, uses, side effects
- Common cardiac medications and their effects
- Alpha. Beta and dopaminergic effects of medication
- Intra-aortic balloon pump indications, contraindications, uses, management