

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:

- Studies commonly used in surgical ICU
  - Doppler ultrasound
- Common exam tools
  - Clinical Institute Withdrawal Exam
  - Confusion Exam Method
  - Symptom Exam scale
  - Vanderbilt exam scale
- Common signs
  - Cullen's sign, Becks, Cushing's, Grey Turner, Virchows
- 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
- Chest tube management
- Head trauma: ICP management, symptoms of herniation, Glasgow Coma Scale
- Chest x-ray interpretation
- Blood gas analysis
- Blood transfusions indications, contraindications, complications
- Acute kidney injury
- Acute chest injury
- Air leak syndromes
- Coagulopathies: symptoms, causes, and treatment: HIT, DIC, ITP, TTP
- Blood free surgery
- Hospital acquired conditions
- Liver failure
- Diabetes and complications
- Pancreatitis
- Surgical complications
  - Retroperitoneal bleeding
  - Infections
- Trimodal Distribution of Death
- Just Culture
- Anaphylaxis reactions and treatment