

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:

- Types of injuries that may be sustained in an accident resulting in chest injuries, such as aortic rupture, myocardial contusions, lung contusions
- Types of injuries that may be sustained in an accident resulting in abdominal injuries, common complications, anticipated labs for each
 - Pelvic fractures
 - Liver and splenic fractures
- Types of injuries sustained in a fire, types of complications for each injury such as chest burns
- Cardiac medications commonly used together
- Blood transfusions: amount to be transfused, rate of transfusion, transfusions for special diagnosis: sickle cell anemia, bleeding disorders
- Medications: dose/kg standards for common medications, side effects, contraindications, safe medication practices, toxicity symptoms
- Vasoactive medications: common dose and rates, signs that medication is working, side effects
 - Formula for determining rate of infusion
- Intracranial pressure monitoring, indications for use, contraindications, normal ICP ranges
- Expected urinary output for general surgery, cardiovascular surgery, and maintenance
- Common cardiovascular surgeries and management such as tetralogy of fallot and tet spells
- Common issues with congestive heart failure
- Maintenance fluid calculations
- Hemodynamic lines, indications, contraindications, wave forms, management, trouble shooting
- Asthma exacerbation
- Common issues associated with cystic fibrosis
- Types of isolation
- Basic life support, PALS and medications and doses
- Bacterial meningitis
- Common issues associated with pneumothorax and tension pneumothorax
- Cardiac arrhythmias associated with cardiovascular surgeries