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| Organ System | Core Knowledge | Enhanced Knowledge |
| Cardiac |
|  | Pericardial fluid | Tamponade |
|  | Asystole | Regional wall motion |
|  | Global LV function | Fluid assessment (w IVC) |
|  |  | Valvular assessment |
|  |  | RV size and function |
|  |  | Cardiac output estimation |
| Chest and Lung  |
|  | Pneumothorax | Interstitial fluid |
|  | Pleural fluid | Consolidation |
|  |  | Ventilator management |
| Aorta |
|  | Abdominal Aortic Aneurysm | Aortic Dissection |
| Renal and GU  |
|  | Hydronephrosis | Renal parenchymal assessment |
|  | Qualitative bladder volume | Complex vs. simple cystsRenal Doppler  |
|  |  | Testicular torsion, epididymitis, cysts, fracture |
| Hepato-biliary  |
|  | Gallstones | Liver - assessment for masses, portal venous thrombosis |
|  | Cholecystitis | Pancreas - assessment for masses, inflammation, cysts |
|  |  | Spleen - assessment for size, hematoma, parenchymal changes |
| Gastrointestinal |
|  |  | Appendicitis |
|  |  | Hernia assessment |
|  |  | Colitis, Ileus  |
|  |  | Diverticulitis |
|  |  | Pneumoperitoneum |
| Ocular  |
|  | EOM movement and pupillary reactivity | Lens dislocation |
|  |  | Retinal detachment |
|  |  | Retrobulbar hematoma |
|  |  | Orbital emphysema |
|  |  | Foreign body |
|  |  | Optic nerve sheath diameter |
| Obstetrics & Gynecology  |
|  | IUP yes or no | Adnexal assessment for cysts or masses |
|  | Free fluid in pelvis | Ovarian torsionUterine masses  |
| Venous/Arterial Assessment |
|  | DVT evaluation - two point compression lower extremity | DVT evaluation - upper extremity |
|  | IVC evaluation for volume/pressure status | Evaluation of arterial insufficiency, carotid stenosis/CIMT and transcranial Doppler |
| Soft Tissue  |
|  | Abscess vs. cellulitis | Myositis |
| Musculoskeletal |
|  |  | Fractures, Joint Effusions, |
|  |  | Tendon, ligament and |
|  |  | muscular Injuries |
| Nerve blocks  |
|  |  | Brachial plexus, forearm |
|  |  | Intercostal, TAP |
|  |  | Femoral, sciatic, tibial |
| Pediatrics |
|  |  | Hip evaluation |
|  |  | Appendicitis |
|  |  | Pylorus stenosis  |
|  |  | Intussusception |
|  |  | Lumbar puncture |
| Head and Neck  |
|  |  | Evaluation of neck masses for airway compromise |
|  |  | Vocal cord assessment |

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| Disease System | Core Knowledge | Enhanced Knowledge |
| Trauma  |
|  | Primary Survey | Secondary Survey |
|  |  Pericardial fluid |  Fracture  |
|  |  Peritoneal fluid |  ICP/optic nerve sheath  |
|  |  Pleural fluid |  |
| Shock/Hypotension |
|  | Cardiac | Cardiac |
|  |  Pericardial fluid |  Tamponade |
|  |  Global LV function |  Regional wall motion |
|  | Vascular |  Fluid assessment (w IVC) |
|  |  IVC |  Valvular assessment |
|  |  Aorta - AAA |  RV size and function |
|  | Chest/Abdomen/Pelvis |  Cardiac output estimation. |
|  |  Pleural fluid |  |
|  |  Peritoneal fluid | Aorta – Dissection  |
|  | Adjuncts  |  |
|  |  Pneumothorax |  |
|  |  DVT assessment |  |
| Breathlessness |
|  | Cardiac | Cardiac |
|  |  Pericardial fluid |  Tamponade |
|  |  Global LV function |  Regional wall motion |
|  | Chest |  Fluid assessment (w IVC) |
|  |  Pleural fluid |  Valvular assessment |
|  |  Pneumothorax |  RV size and function |
|  | DVT assessment | Chest |
|  |  |  Interstitial fluid |
|  |  |  Consolidation |
| HIV /TB (FASH) |
|  | Cardiac | Abdomen |
|  |  Pericardial fluid |  Splenic abscesses |
|  | Chest |  Lymphadenopathy |
|  |  Pleural fluid |  Liver abscesses |
|  | Abdomen |  Psoas abscesses |
|  |  Peritoneal fluid |  Peritoneal TB |
| Other |

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| Procedure Type | Core Knowledge | Advanced Knowledge |
| Invasive Procedures  |
|  | Central line placement | Foreign body removal |
|  | Peripheral line placement  | Joint aspiration |
|  | Thoracentesis | Lumbar puncture |
|  | Paracentesis | Arterial line placement |
|  | Abscess drainage | Pericardiocentesis |
|  |  | Other |
| Confirmation of Placement/Reduction |
|  | Fracture reduction | Evaluation of tubes - SPT, Gtube, Jtube |
|  |  | Airway confirmation |
|  |  | Other |