Acute Care and Perioperative Point of Care Ultrasound

Helping Bring Providers Out of the Guessing Game

F.O.R.E.S.I.G.H.T. Comprehensive Perioperative Ultrasound Examination

- Focused
- Perioperative
- Risk
- Evaluation
- Sonography
- Imaging
- Gastro-Absdominal
- Hemodynamic, and
- Trans-Thoracic Ultrasound

Endotracheal Tube Placement

- Pulmonary Evaluation
  - Pneumothorax
  - Pleural effusion
  - Severe alveolar interstitial disease

Abdominal Evaluation
- Evaluate free fluid in interperitoneal space via 3 windows
- Assess gastric content and volume

Cardiac Evaluation
- R/L ventricular function
- Pericardial effusion
- Severe Valvular abnormalities

Hemodynamics
- IVC collapsibility
- LV end diastolic area
- Respiratory variation on Doppler across LVOT/ peripheral arteries

Vascular Access
- Demonstrate image acquisition of peripheral veins/arteries

ICP Accessment
- Optic sheath diameter
I. **Ultrasound Physics**

II. **Assessment of Volume Status/Mechanism of Hypotension**
   A. IVC Diameter and Collapsibility
   B. Left Ventricle End-Diastolic Area
   C. Respiratory Variation of Velocity Time Integral
   D. FAST (Focused Assessment with Sonography for Trauma) Exam

III. **Pulmonary Ultrasound**
   A. Pneumothorax Evaluation
   B. Pleural Fluid Evaluation
   C. Lung Parenchyma Evaluation

IV. **Cardiac Ultrasound**
   A. Parasternal Views and Assessment of Left Ventricular Contractility
   B. Apical Views
   C. Subxiphoid Views
   D. Tips for Cardiac Ultrasound Imaging
   E. Cardiac Valve Evaluation
   F. Cardiac Ultrasound for Patients with Diastolic and Systolic Heart Failure
   G. Right Ventricular Systolic Function Assessment

V. **Additional Topics**
   A. Vascular Access
   B. Deep Venous Thrombosis Evaluation
   C. Pulmonary Embolus Evaluation
   D. Gastric Volume Assessment
   E. Intracranial Pressure Assessment
   F. Airway Ultrasound and Localization of Endotracheal Tube

VI. **FORESIGHT Exam Review Sheets, Questions and Answers**