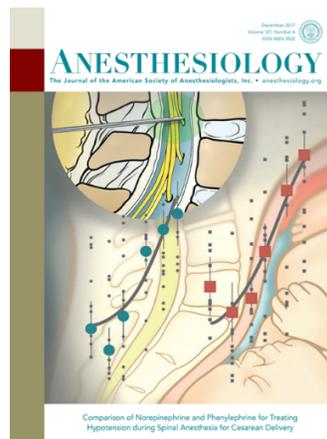




## Selected Journal Article Review from December 2017

# I-AIM (Indications, Acquisition, Interpretation, Medical Decision-making) Framework for Point of Care Lung Ultrasound.

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**ABSTRACT:**

*Case 1: You are on call for anesthesia. The neurosurgeon on call has booked an emergency decompression of a subdural hematoma for an elderly man who fell at home during a syncopal episode. A chest radiograph on admission showed fractures of the sixth to eighth ribs with no evidence of a pneumothorax. Cardiac workup and blood work were noncontributory. On assessment, the man is desaturating on room air despite no previous respiratory history. He is uncooperative and will require general anesthesia and mechanical ventilation.*

*Case 2: You are working in the intensive care unit (ICU). A patient with heart failure related to severe systolic dysfunction has steadily increasing work of breathing and oxygen requirements despite noninvasive mechanical ventilation. On physical exam, there is decreased air entry on the right side. A right-sided central line is in place.*

*Case 3: You are called to the post-anesthesia care unit to see a 60-yr-old patient with a history of asthma who just underwent laparoscopic cholecystectomy. He has persistent wheezing and respiratory distress that has been unresponsive to initial treatment with nebulized beta agonists and intravenous steroids.*

*Is there any role for lung ultrasound in the management of these patients? How should we perform the ultrasound and what findings should we look for?*

**Review:**

The article was a detailed outline for performing a “bedside” ultrasound lung examination. The article discussed the benefit of ultrasound-guided point-of-care decision-making for the treatment of multiple lung pathologies. The authors also discussed the limitations as well such as those pertaining to user expertise and the medical knowledge needed to translate findings into diagnoses. The authors presented three cases at the beginning to attract the reader into utilizing the “meat” of the article to formulate a plan for those cases. At the end of the article, the authors gave their thoughts on those cases in regard to the use of point-of-care ultrasound.