

## **Using ultrasound in respiratory failure**

Point-of-care ultrasound (POCUS) has emerged as an effective and accurate goal-directed diagnostic tool that can be applied in real time for the bedside assessment of patients with respiratory failure. Integration of multiple POCUS applications (i.e., cardiac, lung, and vascular ultrasound) has been shown to outperform physical exam and chest radiography for the diagnosis and monitoring of patient with respiratory failure. In this interactive case-based lecture, we will review basic POCUS principles of image acquisition and interpretation, its use as an extension of physical examination for the management of patients with respiratory failure, and we will also highlight potential pitfalls to avoid