



Ultrasound in Anesthesiology and Critical Care Medicine: From Concept to Clinical Applications

Guest Editor:

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Message from the Guest Editor

The Journal of Clinical Medicine launched a Special Issue titled "Ultrasound in Anesthesiology and Critical Care Medicine: from Concept to Clinical Applications".

In Critical Care Medicine, physicians are often faced with complex clinical pictures involving multiple organ failures including but not limited to heart failure, acute kidney injury, respiratory failure, trauma and brain injury. In a such complex scenario a real-time, bedside, rapidly available multi-faceted ultrasound approach is fundamental to personalize treatments. This approach includes the assessment of respiratory failure and the optimization of ventilatory strategy by lung ultrasonography, the prediction of patient-ventilator interaction, early detection of weaning failure and the assessment of muscular weakness by the study of the diaphragm, the optimization of hemodynamics, heart-lung interactions, and brain-lung-splanchnic cross-talk through the assessment of perfusion and congestion by abdominal Doppler ultrasonography, the monitoring of neurocritical patients by optic nerve sheath diameter and transcranial Doppler.





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