

Special Issue

Ultrasound: An Important Tool in Critical Care

Message from the Guest Editors

Patients in critical care confront significant challenges, including life-threatening organ dysfunction or failure. Ultrasound has risen as a crucial diagnostic tool for managing these patients due to its non-invasive, cost-effective, and real-time imaging capabilities. This special edition of *Diagnostics* will investigate the expanding importance of ultrasound in critical care environments. In this edition, we invite a diverse range of articles, encompassing original research and reviews, authored by experts in the field. Our goal is to address various facets of ultrasound technology, including point-of-care applications, echocardiography, lung, abdominal and cerebrovascular imaging, vascular access, and procedural guidance, with the hope of providing insights into the future impact of artificial intelligence on ultrasound technology. This compilation aims to constitute a comprehensive resource for medical professionals and researchers, presenting insights into the present state and future potential of critical care ultrasound. We aspire to reinforce the value of ultrasound in critical care management and promote ongoing advancements in this vital diagnostic instrument.

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