

Special Issue

Advances in Neonatal Diagnostics

Message from the Guest Editor

Recent advancements in neonatal imaging have significantly enhanced the ability of clinicians to diagnose and monitor a wide range of conditions in newborns with greater precision and safety. One of the most transformative developments in neonatal diagnostics is the rapidly growing use of point-of-care ultrasound (POCUS). Advances in Targeted Neonatal Echocardiography have helped better our understanding of hemodynamics. Comprehensive hemodynamic evaluations have enhanced the impact of disease states and interventions on hemodynamics, and bedside serial echocardiography can help monitor rapidly changing conditions accurately. Functional MRI (fMRI) and diffusion tensor imaging (DTI) are increasingly used to assess brain development in preterm and high-risk newborns. Lastly, one of the most groundbreaking developments is the integration of genomic and genetic testing into routine neonatal care. Whole-genome and exome sequencing are increasingly used to identify rare genetic disorders in critically ill neonates, particularly in neonatal intensive care units (NICUs).

Guest Editor

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