

Special Issue

Advances in Diagnosis and Management in Pediatric Neuro-Oncology

Message from the Guest Editors

Advances in pediatric neurosurgery diagnosis have revolutionized the identification and management of neurological disorders in children. Recent neuroimaging breakthroughs, such as high-resolution MRI, CT scans, and functional imaging, have enabled early and accurate detection of conditions ranging from brain tumors and vascular malformations to congenital anomalies and traumatic injuries. These advancements have improved differentiation between benign and malignant lesions, assessment of location and extent, and identification of critical neurological structures needing preservation during surgery. Additionally, advanced software and algorithms have facilitated precise analysis of imaging data, leading to more accurate diagnoses and prognoses. In summary, progress in diagnostic techniques has transformed the way neurological disorders are characterized in children, enabling earlier intervention, targeted therapies, and improved patient outcomes. This Special Issue invites contributions on current aspects of diagnosis and management in pediatric neurosurgery, including original research, experimental methodology, reviews, and perspectives.

Guest Editors

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