



Applications of Magnetic Resonance Imaging (MRI) in the Pediatric Head and Neck

Guest Editor:

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Message from the Guest Editor

MRI is the gold standard for imaging of the anatomy of both the head and neck, and advanced MRI techniques can serve as noninvasive biomarkers of normal development and disease processes. Many MRI sequences are well established for adult clinical and translational neuroimaging applications. However, the scanning of children is practically limited by their smaller anatomy, rapidly changing body structure and function, a lower scan tolerance, and safety considerations.

The added value of pediatric MR imaging arises at the intersection of effectiveness (diagnostic information) and efficiency (diagnostic throughput). This will require improvements in MRI hardware, software, and workflow that help provide “better, faster, and safer” imaging for children. This Special Issue will emphasize collaborations between physicians and scientists in the areas of advanced image acquisition (high-resolution, diffusion, perfusion, spectroscopy, ultra-high-field, PET/MR) and analysis (radiomics, artificial intelligence). Contributions in related content areas (fetal/neonatal imaging, head/neck interventions, image-guided surgery, digital pathology) are welcome.





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Message from the Editor-in-Chief

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