

Special Issue

New Insight into Pediatric Neuroradiology

Message from the Guest Editors

Advancements of magnetic resonance imaging (MRI) technology in recent years, including imaging at higher magnetic field strengths (e.g., 7T) and the development of advanced imaging techniques such as spectroscopy, perfusion, diffusion tensor imaging (DTI), arterial spin labelling (ASL), and functional MRI (fMRI), allow earlier and more detailed recognition of pathological processes in the central nervous system in children. These advanced techniques have been proven to be useful in older children, as well as in infants and in the evaluation of the fetal brain. In addition to MRI imaging, in infants due to the open anterior fontanelle and non-ossified vertebral spinous processes, ultrasonography is a convenient and valuable tool for the evaluation of the brain and spine. Development of contrast-enhanced ultrasound (CEUS) and elastography has opened new possibilities in the field of pediatric neuroradiology using ultrasonography. The aim of this Special Issue is to present some of the novelties and potential future diagnostic possibilities in the field of pediatric neuroradiology.

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You are invited to contribute a research article or comprehensive review for consideration and publication in *Children* (ISSN 2227-9067). *Children* is an open access journal—research articles, reviews, and other content are published online immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. The journal focuses on sharing clinical, epidemiological, and translational science relevant to children's health. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Paul R. Carney

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