

GOBrain 5-Minute MRI in children:
Reducing the need for sedation

Editorial Comment

- 4 **Paolo Tomà**
Bambino Gesù Children's Hospital, Rome, Italy

Spotlight

- 10 **Robust, Efficient, and Comprehensive Pediatric Imaging with BioMatrix Technology and High-End Applications**
Johan Dehem
VZW Jan Yperman, Ypres, Belgium

Neurology

- 24 **GOBrain 5-Minute MRI in Children: Shown to Reduce the Need for Sedation**
Nadja Kadom, Anna Trofimova
Emory University School of Medicine, Atlanta, GA, USA
- 27 **Perfusion Imaging in Pediatric Brain Tumors: PCASL² at Work**
Giovanna Stefania Colafati, et al.
Bambino Gesù Children's Hospital, Rome, Italy

Advanced neuroimaging and pediatric epilepsy surgery

- 29 **Clinical Benefits of Multi-PLD PCASL² in Pediatric Patients with Moyamoya Disease**
Aya Tominaga, et al.
Miyagi Children's Hospital, Sendai, Japan

- 41 **"Puff of Smoke": an MR/PET Case of Moyamoya Disease**
Diego Cecchin, et al.
University Hospital of Padova, Italy

- 49 **Advanced Neuroimaging and Pediatric Epilepsy Surgery**
Michael Kean, et al.
Royal Children's Hospital, Melbourne, Australia

- 58 **Advanced Multi-Parametric Neuroimaging in Pediatric Neurology**
Steffi Dreha-Kulaczewski, Arun Joseph
University Medical Center, Göttingen, Germany

- 64 **Case Series: Utilization of the Pediatric 16 Coil for 1.5T and 3T Systems**
Bac Nguyen, Oslo University Hospital, Rikshospitalet, Oslo, Norway

Oncological Imaging

- 72 **MR Total Tumor Load³ – First Clinical Experience in Pediatric Oncology Patients**
Ilias Tsiflikas, Jürgen F. Schäfer
University Hospital Tübingen, Germany

Compressed Sensing cardiac cine in children

syngo Virtual Cockpit – remote scanning assistance and flexible workforce management

Body and MSK Imaging

- 77 **Musculoskeletal and Body MRI in Children**
Sarah Bixby, et al.
Boston Children's Hospital, Boston, MA, USA

Fetal MRI

- 107 **Fetal MR Imaging: An Overview**
Guangbin Wang, et al., Shandong Medical Imaging
Research Institute, Shandong University, China

Cardiovascular Imaging

- 84 **Performance of Compressed Sensing Cardiac Cine Imaging in Children: Initial Experience**
Aurelio Secinaro, et al.
Bambino Gesù Children's Hospital, Rome, Italy
- 89 **4-Dimensional Phase Contrast Imaging in Congenital Heart Disease: How We Do it!**
Timothy C. Slesnick, Sassan Hashemi
Children's Healthcare of Atlanta, Atlanta, GA, USA
- 103 **Deep Cervical Infantile Hemangioma Identified by Time-Resolved Magnetic Resonance Angiography**
Vikas Gulani, et al., Case Western Reserve University,
Cleveland, OH, USA

Product News

- 119 **syngo Virtual Cockpit⁴ – Your Software for Remote Scanning Assistance and More Flexible Workforce Management**
Petra Kraft, Janis Dummet
Siemens Healthineers, Forchheim, Germany

Meet Siemens Healthineers

- 123 **Introducing Emily Lucchese and Stuart Calder**
MRI applications specialists
Siemens Healthineers, Melbourne, Australia

¹MR scanning has not been established as safe for imaging fetuses and infants less than two years of age. The responsible physician must evaluate the benefits of the MR examination compared to those of other imaging procedures.

²Work in progress: the application is currently under development and is not for sale in the US and in other countries. Its future availability cannot be ensured.

³syngo.via Frontier is for research only, not a medical device. syngo.via Frontier MR Total Tumor Load is a released research prototype.

⁴syngo Virtual Cockpit is not commercially available in all countries. For regulatory reasons, its future availability cannot be guaranteed.

Precondition: Expert-i enabled modality from Siemens Healthineers.