



children



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Application of Electroencephalogram (EEG) in Pediatrics

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

We are pleased to invite you to contribute your work to the Special Issue 'Application of Electroencephalogram (EEG) in Pediatrics'.

In this Special Issue, original research articles and reviews are welcome. The research areas may include (but are not limited to) the following:

- The diagnostic yield and special considerations of routine EEGs, ambulatory EEGs, and LTM video EEGs in the clinical assessment of epileptic seizures, electroclinical syndromes, and paroxysmal non-epileptic spells.
- The application of updated ACNS critical care EEG terminology in neonatal and pediatric intensive care units (ICUs), along with emerging diagnostic and neuroprognostic biomarkers.
- The challenges and unique opportunities that arise alongside the utilization of intracranial EEGs in assessing the epileptic network and treatment modalities (e.g., resective surgery versus neuromodulation) in a young brain.
- The exciting progress in the practice of qEEG and emerging electrophysiological biomarkers (e.g., HFO, cross-frequency coupling, theta–beta ratio, etc.) for neurocognitive assessments in children with chronic epilepsy and/or neurodevelopmental disorders.



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Special Issue