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**Pediatric**

**MS02-1**

# High-Grade Pediatric Brain Tumors: A Clinical Imaging Approach

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This presentation on "High-Grade Pediatric Brain Tumors: A Clinical Imaging Approach" will provide a clinical imaging overview of the three most common high-grade pediatric brain tumors—diffuse high-grade gliomas, medulloblastoma, and ependymoma—highlighting how advanced neuroimaging techniques facilitate more accurate imaging diagnosis in the clinical practice setting. The WHO 2021 molecular-integrated classification of these high-grade tumors will be reviewed along with detailing the characteristic conventional and advanced MRI features that help distinguish each entity and evaluate tumor extent. Emphasis will be placed on how advanced neuroimaging aids in tumor characterization and management, while acknowledging key limitations that necessitate integrating imaging findings with molecular and clinical data for optimal diagnosis.