

## Pediatric cancer: teratoid/rhabdoid, brain tumors, and glioma

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### Abstrak

A general introduction to the principles of diagnosis and treatment of children with brain tumors is presented. Molecular characterization of solid tumors is also presented. Molecular pathways provide putative targets for new therapies. High resolution magic spinning NMR spectroscopy is explained, which is used to determine metabolic profiles for small pieces of intact tissue and whole cells in culture. The differences between adult and pediatric brain tumors are outlined. Various neuroradiological imaging modalities in children with leukemia are detailed. Also are detailed results of clinical trials in pediatric brain tumors, such as medulloblastoma, ependymoma, craniopharyngioma, low-grade glioma, high-grade glioma, brainstem glioma, and germ cell tumors, using radiotherapy. Considering the clinical importance of epilepsy in the primary brain tumors in children, its symptoms, diagnosis, and treatments (surgery and antiepileptic drugs) are discussed.