

Pediatric cancer: diagnosis, therapy, and prognosis

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Abstrak

This third volume of the Springer series discussing pediatric cancer focuses on diagnosing, treating, and assessing the future course of malignant brain neoplasms in children. In addition to a general introduction to the principals involved, the material includes vital research in molecular genetics, a major contribution to the molecular characterization of solid tumors, which will define new biomarkers of the disease and identify molecular pathways.

The volume includes presentations of present and future therapies. The volume also explains AT/RT's dissemination to the cerebral fluid, the molecular mechanisms underlying the progression of medulloblastoma, and the importance of gamma knife radiosurgery during multimodality management of medulloblastoma/PNET tumors. Other topics discussed include using magnetic resonance imaging for diagnosing retinoblastoma, and mapping the effects of radiotherapy in low-grade glioma in children. Information on alterations in cell-cycle regulators that are influenced by tumor suppressor genes and oncogenes is detailed. Contributors provide recommendations concerning non-narcotic analgesic routines for children recovering from cranial and spinal surgery.