



Spinal Cord Tumors

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- Abstract: This book provides state-of-the-art, in-depth knowledge of spinal cord tumor surgery. After an introduction to the history and etiology of spinal cord tumor treatment, the molecular biology, cytogenetics and pathology of this group of tumors is discussed. The pathological anatomy of spinal cord tumors is described and the book focuses in depth on their diagnosis and the surgical approaches that can be used in their treatment. Microsurgery resection techniques, auxiliary treatment options, prognosis and outcomes of spinal cord, and spinal nerve tumors are all covered in detail. Spinal Cord Tumors is aimed at neurosurgeons and may also be of interest to neurologists, neuro-oncologists, radiologists, physiatrists, pathologists, geneticists, orthopedic surgeons, physical and occupational therapists, and other interested scientists.
- Contents: 1. History of Spinal Surgery and Surgical Treatment of Spinal Intradural Tumors – 2. Epidemiology of Spinal Cord Tumors – 3. Spinal Cord Anatomy – 4. Diagnostics and Differential Diagnostics of Spinal Cord Tumors – 5. Neuropathology of Spinal Cord Tumors – Neurological Aspects of Spinal Cord Tumors – 7. Intraoperative Neurophysiology during Surgery for Spinal Cord Tumors – 8. Neuro-Anesthesiology Considerations in Spinal Cord Tumors – 9. Spinal Meningiomas – 10. Spinal Schwannomas – 11. Management of Intradural and Extradural Spinal Schwannomas – 12. Spinal Cord Tumors in Neurofibromatosis – 13. Spinal Cord Astrocytomas – 14. Spinal Cord Hemangioblastomas – 15. Myxopapillary Ependymomas – 16. Pediatric Spinal Cord Tumors: Diagnosis and Management – 17. Spinal Cord Ependymomas – 18. Malignant Intramedullary Spinal Cord Tumors – 19. Intradural-Extradural and Intramedullary Spinal Metastases – 20. Sacral Spinal Tumors – 21. Rare Spinal Cord Tumors – 22. Dumbbell Tumors of the Spine – 23. Instrumented Fusion after Spinal Cord Tumor Resection – 24. Radiosurgical and Radiation Considerations for Residual, Recurrent and Malignant Spinal Cord Tumor – 25. Complications in Treatment of Spinal Cord Tumors and Prevention Surgical Strategies – 26. Rehabilitation of Patients with Primary Intradural Tumors of the Spinal Cord.

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