Principles and Practices of Neuro-Oncology establishes a new gold standard in care through a comprehensive, multidisciplinary text covering all aspects of neuro-oncology.

Neuro-oncologic (brain and spine) cancers account for 19,000 new cases and 13,000 deaths per year. The early and proper diagnosis of these virulent cancers is critical to patient outcomes and diagnosis and treatment strategies are continually evolving. The multidisciplinary team that manages these patients involves medical and radiation oncology, neurosurgery, neuroimaging, nurses and therapists.

Six major sections cover all topics related to epidemiology and etiology, molecular biology, clinical features and supportive care, imaging, neuroanatomy and neurosurgery, medical oncology and targeted therapies, and radiation oncology for adult and pediatric cancers. Expert contributors from multiple disciplines provide detailed and in-depth discussions of the entire field of neuro-oncology including histopathologic harmonization, neurosurgical techniques, quality of life and cognitive functions, and therapeutic changes in terms of combined modality treatments, advanced radiation techniques, the advent of new drugs, especially targeted agents, and the tantalizing early promise of personalized therapeutic approaches.

With contributions from over 180 authors, numerous diagrams, illustrations and tables, and a 48 page color section, Principles and Practice of Neuro-Oncology reflects the breadth and depth of this multi-faceted specialty.