1. Record Nr. UNINA9910760275203321

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Titolo	Neuroradiology of Brain Tumors : Practical Guide Based on the 5th Edition of WHO Classification / / Fabio Maria Triulzi
Pubbl/distr/stampa	Cham, Switzerland : , : Springer Nature Switzerland AG, , [2023] ©2023
ISBN	3-031-38153-X
Edizione	[First edition.]
Descrizione fisica	1 online resource (248 pages)
Disciplina	616.99281
Soggetti	Brain - Tumors Brain Neoplasms - diagnostic imaging Neuroimaging
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	A. General considerations -- Epidemiology -- Clinical presentation -- Classification, grading and prognosis -- Imaging: general principles. B. Systematic review: intra-axial adult brain tumours -- Diffuse astrocytic and oligodendroglial tumours -- Other gliomas, ependymal tumours and rare gliomas in the adult -- Neuronal and mixed neuronal-glial tumours -- Tumors of the pineal region -- Lymphomas -- Metastatic tumours of the CNS -- C. Systematic review: entra-axial adult brain tumours -- Tumours of the cranial and paraspinal nerves -- Meningiomas -- Mesenchymal non meningiomatous tumours -- D. Systematic review: pediatric brain tumours -- Brain tumours of the first two year of age -- Posterior fossa tumours of childhood -- Other pediatric tumours.
Sommario/riassunto	While several books describing imaging of brain tumors from MR acquisition techniques to differential diagnosis are written by different contributors and present chapters with different styles and design, this book illustrates a unique vision and structure putting together modern molecular classification of brain tumor with modern neuroradiology. After an introduction on general imaging features of brain tumors the book explores each different tumor according to 2021 WHO classification, distinguishing however between adult and pediatric

tumors, being the epidemiology substantially different between these two groups. The approach is schematic with few essential information on epidemiology, genetics, clinical features, location and prognosis, followed by a detailed description of imaging features with a large number of examples. Figures are mainly put together with the same modality considering all the different MR techniques as well as CT when it can be useful. Each figure provides T1, T2, FLAIR, DWI, ADC, perfusion imaging techniques, spectroscopy and post contrast study. Some examples of Amide Proton Transfer (APT) technique are provided as well. At the end of each chapter a scheme summarizes the different appearance of the tumor in any different sequence. This book will be an invaluable tool for neuroradiologists, radiologists, neurosurgeons, neurologists, pediatricians, and pathologists.