

Imaging gliomas after treatment ; a case-based atlas / Tommaso Scarabino, editor

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Abstrak

This atlas is a detailed guide to the imaging appearances of gliomas following treatment with neurosurgery, radiation therapy, and chemotherapy. Normal and pathological findings are displayed in detailed MR images that illustrate the potential modifications due to treatment. Particular emphasis is placed on characteristic appearances on the newer functional MR imaging techniques, including MR spectroscopy, diffusion-weighted imaging, and perfusion imaging. These techniques are revolutionizing neuroradiology by going beyond the demonstration of macroscopic alterations to the depiction of preceding metabolic changes at the cellular and subcellular level, thereby allowing earlier and more specific diagnosis. A key section comprising some 40 clinical cases and more than 500 illustrations offers an invaluable clinical and research tool not only for neuroradiologists but also for neurosurgeons, radiotherapists, and medical oncologists.