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## Structural and microstructural 3T MR imaging of glioma

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MR imaging is an integral part of the management of gliomas. Morphologic and functional MR imaging modalities help in the assessment of location and extent of the tumor and of its biologic activity. The techniques and imaging findings of WHO II, III and IV gliomas at structural (high-resolution T2W, Flair, MPR, SWI) as well as at functional (DWI and DTI, MR Spectroscopy, dynamic susceptibility-weighted contrast-enhanced MR perfusion, arterial spin labeling) MR imaging will be summarized. In particular, the predictive value of multimodality MRI in detecting anaplastic transformation and the Value of multimodality MRI in detecting pseudoprogression and pseudoresponse will be emphasized. The major teaching points of this presentation are:

1. understanding the spectrum of key image characteristics of glioma at various 3T MR techniques.
2. conjoint interpretation of structural and functional MR imaging findings helps in recognizing glioma grade, tumor tendency for progression (upgrading) and tumor respond after therapy.
3. choosing a multimodality MRI approach assists biopsy and surgery planning.

### Biography

Ammar Mallouhi has completed his specialization in diagnostic radiology in Innsbruck, Austria in 2006 and he was awarded a Venia Docendi in 2007. Currently consultant at the Department of Neuroradiology at Vienna Medical University in Vienna, Austria since 2010. In 2012, he was nominated as associate professor at Vienna Medical University. He has published more than 50 papers and proceedings in reputed journals. He was awarded with several international scientific awards including three "Certificate of Merit" from the RSNA.

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