

# Target volume

Planning target volumes for [high grade gliomas](#) were similar at 3 Tesla and 1.5Tesla MR using a [standard imaging protocols](#). However, in some patients, the 3T MR may reveal substantially smaller [tumor volume](#) due to inferior [conspicuity](#) of the [lesion](#). These findings imply that while overall the radiation target volumes are comparable, there are differences in contrast-to-noise ratios (CNR) and signal-to-noise ratio (SNR) that lead to differences in individual patients. The 1.5T may be better for gaining conspicuity of the tumor <sup>1)</sup>.

<sup>1)</sup>

Guarnaschelli JN, Vagal AS, McKenzie JT, McPherson CM, Warnick RE, Batra V, Breneman JC, Lamba MA. Target definition for malignant gliomas: No difference in radiation treatment volumes between 1.5T and 3T magnetic resonance imaging. Pract Radiat Oncol. 2014 September - October;4(5):e195-e201. doi: 10.1016/j.prro.2013.11.003. Epub 2014 Jan 8. PubMed PMID: 25194105.

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