

Residual tumor

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The only study that compared this estimation with the presence of residual tumor mass on an MR image, dates back to [1994](#) ¹⁾.

It may be difficult to differentiate between surgically induced enhancement and residual tumor.

Intraoperative [dynamic contrast enhanced MRI](#) provides quick, reproducible, high-quality, and simply interpreted dynamic MR images in the intraoperative setting and can aid in differentiating surgically induced enhancement from residual tumor ²⁾.

The tumor status following treatment is described by the residual tumor (R) classification: R0, no residual tumor; R1, microscopic residual tumor; R2, macroscopic residual tumor. A residual tumor may be found in the area of the primary tumor and its regional lymph nodes and/or at distant sites. The R classification reflects the effects of treatment and influences further treatment planning. Furthermore, the R classification is a strong predictor of prognosis. An acceptable long-term prognosis can be expected only in R0 patients. Although there exist clear correlations between stage and R classification the differences in prognosis of R0 versus R1,2 cannot be explained by differences in stage alone.

Residual vestibular schwannoma

¹⁾

Albert FK, Forsting M, Sartor K, Adams HP, Kunze S (1994) Early postoperative magnetic resonance imaging after resection of malignant glioma: objective evaluation of residual tumor and its influence on regrowth and prognosis. *Neurosurgery* 34:45–60 discussion 60- 41

²⁾

Özduman K, Yıldız E, Dinçer A, Sav A, Pamir MN. Using intraoperative dynamic contrast-enhanced T1-weighted MRI to identify residual tumor in glioblastoma surgery. *J Neurosurg.* 2014 Jan;120(1):60-6. doi: 10.3171/2013.9.JNS121924. Epub 2013 Oct 18. PubMed PMID: 24138206.

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Last update: **2024/06/07 02:57**

