

Semiautomatic segmentation

In one kind of [segmentation](#), the user outlines the [region of interest](#) with the mouse clicks and algorithms are applied so that the path that best fits the edge of the image is shown.

The semi-automatic volumetric analysis showed a high [interobserver](#) agreement and should, therefore, be considered the [gold standard](#) for the assessment of [EOR](#). The introduction of [fluorescence](#) has resulted in better [resections](#) ¹⁾. Sezer et al. found it to increase the accuracy of the surgeons' estimate of [fluorescence](#), whilst resulting in a tendency towards overestimation. Even though surgeons' estimate of the [extent of resection](#) has clearly improved since the report of Albert et al., the reliability of their estimation is statistically moderate. Therefore, early post-operative MRI scanning for evaluation of [EOR](#) remains paramount ²⁾.

¹⁾

Eljamel S (2015) 5-ALA fluorescence image guided resection of glioblastoma multiforme: a meta-analysis of the literature. Int J Mol Sci 16:10443-10456. <https://doi.org/10.3390/ijms160510443>

²⁾

Sezer S, van Amerongen MJ, Delye HHK, Ter Laan M. Accuracy of the neurosurgeons estimation of Glioblastoma extent of resection. Acta Neurochir (Wien). 2020 Feb;162(2):373-378. doi: 10.1007/s00701-019-04089-8. Epub 2019 Oct 28. PubMed PMID: 31656985.

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