

EANS-EANO guidelines on the extent of resection in gliomas.

Title: EANS-EANO guidelines on the extent of resection in gliomas.

Publication year: 2026

Journal: Neuro-oncology

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Society: EANS-EANO

Origin country: International

Target countries: International

DOI: 10.1093/neuonc/noaf217

PMID: 40973061

Source: <https://pubmed.ncbi.nlm.nih.gov/40973061/>

Neuro Oncol Neuro Oncol 310 neuroncol 100887420 neuonc Neuro-Oncology 1522-8517 1523-5866 Oxford University Press PMC12962633 PMC12962633.1 12962633 12962633 40973061 10.1093/neuonc/noaf217 noaf217 1 Guidelines Editor's Choice AcademicSubjects/MED00300 AcademicSubjects/MED00310 EANS-EANO guidelines on the extent of resection in gliomas <https://orcid.org/0000-0002-1927-0022> Goldbrunner Roland Department of General Neurosurgery, Center for Neurosurgery, Faculty of Medicine and University Hospital Cologne, University of Cologne , Cologne, Germany Faculty of Medicine and University Hospital, Center for Integrated Oncology Aachen Bonn Cologne Duesseldorf (CIO ABCD), University of Cologne , Cologne, Germany Foroglou Nicolas Department of Neurosurgery, AHEPA University Hospital, Aristotle University of Thessaloniki , Thessaloniki, Greece Signorelli Francesco Division of Neurosurgery, Department of Translational Biomedicine and Neurosciences, University "Aldo Moro" of Bari , Bari, Italy Schucht Philippe Department of Neurosurgery, Bern University Hospital , Bern, Switzerland Jakola Asgeir S Section of Clinical Neuroscience, Institute of Neuroscience and Physiology, Sahlgrenska Academy , Gothenburg, Sweden Department of Neurosurgery, Sahlgrenska University Hospital , Gothenburg, Sweden Minniti Giuseppe Department of Radiological Sciences, Oncology, and Anatomical Pathology, Sapienza University of Rome , Rome, Italy IRCCS Neuromed , Pozzilli, IS, Italy , (G.M.) Rola Radoslaw Department of Neurosurgery and Pediatric Neurosurgery, Medical University of Lublin , Lublin, Poland Renovanz Mirjam Department of Neurology and Interdisciplinary Neuro-Oncology, University Hospital Tübingen, Hertie Institute for Clinical Brain Research, Eberhard Karls University , Tübingen, Germany Center for Neuro-Oncology, Comprehensive Cancer Center Tübingen-Stuttgart, University Hospital Tübingen, Eberhard Karls University , Tübingen, Germany Department of Neurosurgery, University Hospital , Tübingen, Germany Preusser Matthias Division of Oncology, Department of Medicine I, Medical University of Vienna , Vienna, Austria Furtner Julia Research Center MIAAI (Medical Image Analysis and Artificial Intelligence), Danube Private University , Krems-Stein, Austria Grossman Rachel Brain Tumor Center, Department of Neurosurgery, Rambam Health Care Campus, Rappaport Faculty of Medicine, Technion - Israel Institute of Technology , Haifa, Israel Mawrin Christian Department of Neuropathology, Otto-Von-Guericke University , Magdeburg, Germany <https://orcid.org/0000-0002-2004-9448> Demetriades Andreas Department of Neurosurgery, Royal Infirmary , Edinburgh, UK <https://orcid.org/0000-0002-1748-174X> Weller Michael Department of Neurology, University Hospital and University of Zurich , Zurich, Switzerland Simon Matthias Department of Neurosurgery, Bethel Clinic, University of Bielefeld, Medical Center Ostwestfalen-Lippe , Bielefeld, Germany Corresponding Author: Roland Goldbrunner, MD, Department of General Neurosurgery, Center for Neurosurgery, Faculty of Medicine and University of Cologne, Kerpener Street 62, 50937 Cologne, Germany (roland.goldbrunner@uk-koeln.de). 1 2026 17 9 2025 28 1 508935 38 54 09 5 2025 10 9 2025 17 09 2026 06 03 2026 06 03 2026 © The Author(s) 2025. Published by Oxford University Press on behalf of the Society for Neuro-Oncology. All rights reserved. For commercial re-use, please contact reprints@oup.com for reprints and translation rights for reprints. All other

permissions can be obtained through our RightsLink service via the Permissions link on the article page on our site—for further information please contact journals.permissions@oup.com. 2025 <https://academic.oup.com/pages/standard-publication-reuse-rights> This article is published and distributed under the terms of the Oxford University Press, Standard Journals Publication Model (<https://academic.oup.com/pages/standard-publication-reuse-rights>) Abstract Intense efforts are employed to optimize neurosurgical resection of gliomas in different clinical scenarios. However, the level of evidence employed toward personalized treatment decisions is still moderate. Therefore, a joint task force was created by the European Association for Neurosurgical Societies (EANS) and the European Association of Neuro-Oncology (EANO) in order to provide interdisciplinary guidance on the extent of resection (EOR) in glioma surgery. This task force assessed the data on the EOR in gliomas, evaluated the level of evidence, and composed recommendations. The EOR is determined routinely by postoperative magnetic resonance imaging. Since EOR may be associated with survival and may have an impact on epilepsy, neurocognition, quality of life, neurological status, and also on planning of radiation and pharmacotherapy (evidence classes I-IV), recommendations of different levels can be made for the resection of newly diagnosed glioblastomas (level A), recurrent glioblastomas (level C), newly diagnosed (level B) and recurrent (good practice point) IDH mutant gliomas, ependymomas in children (level B) and adults (good practice point) as well as World Health Organization CNS grade 1 tumors (good practice point). We hereby report the outcome of this collaborative effort by the joint task force between EANS and EANO.