

Stereotactic Radiosurgery for intracranial meningioma

Meningiomas are among the most common adult brain tumors. Although the optimal management of meningiomas would provide complete elimination of the lesion, this cannot always be accomplished safely through resection. Therefore, other therapeutic modalities, such as stereotactic radiosurgery (as primary or adjunctive therapy), have emerged ¹⁾.

[Stereotactic Radiosurgery](#) is becoming an integral modality in the management of [intracranial meningiomas](#), both as the primary treatment or as [adjuvant therapy](#).

A study analyzed the scholarly impact of the top 100 cited articles on the stereotactic radiosurgical management of intracranial meningiomas.

A ranked list of the 100 most-cited articles was generated using the [Scopus](#) database by searching the keywords 'intracranial meningioma' and 'stereotactic radiosurgery'. All articles were then evaluated on multiple criteria regarding both the publication of the articles (year of publication, journal, country of origin, and authors) as well as their methods and foci (type of study, location of studied meningiomas, and type of radiosurgical modality). Quantitative and qualitative analyses were then performed from the collected data.

The most frequently cited articles on stereotactic radiosurgical management of intracranial meningiomas were published between 1990 and 2016. The average citation-per-year across all papers in the list was 6.1. The most studied anatomic area of intracranial meningiomas was the [skull base meningioma](#), with the [cavernous sinus meningioma](#) being the most well-studied specific site. The most utilized stereotactic radiosurgical modality was [Gamma Knife radiosurgery](#). The country with the highest number of publications was the [United States](#). Twenty-six percent of the articles were published in the journal *Neurosurgery*; Lunsford, Kondziolka, Flickinger, Sheehan, and Pollock were respectively the most frequently listed authors among this list. The most active academic institute publishing on this topic was the University of Pittsburgh Medical Center.

Stereotactic radiosurgery is an integral modality in the management of intracranial meningiomas. This bibliometric analysis sheds the light on the ways in which intracranial meningiomas have been studied in the past two decades in order to identify trends among neurosurgeons and radiation oncologists and to reveal areas of rising and declining focus ²⁾.

Gamma Knife radiosurgery for meningioma

[Gamma Knife radiosurgery for meningioma](#)

¹⁾

Mansouri A, Guha D, Klironomos G, Larjani S, Zadeh G, Kondziolka D. Stereotactic radiosurgery for intracranial meningiomas: current concepts and future perspectives. *Neurosurgery*. 2015 Apr;76(4):362-71. doi: 10.1227/NEU.0000000000000633. PMID: 25599213.

²⁾

Patel A, Abdelsalam A, Shariff RK, Mallela AN, Andrews EG, Tonetti DA, Lunsford LD, Abou-Al-Shaar H. Bibliometric analysis of the top 100 cited articles on stereotactic radiosurgery of intracranial meningiomas. Br J Neurosurg. 2022 Feb 10:1-6. doi: 10.1080/02688697.2022.2034745. Epub ahead of print. PMID: 35142245.

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