

Jugulotympanic paraganglioma

Jugulotympanic [paragangliomas](#) (JTPs) are rare [benign tumors](#) whose [surgical treatment](#) is usually associated with [partial resection](#), high [morbidity](#), and even [death](#).

Treatment

[Gamma Knife radiosurgery](#) (GKRS) has been reported as a useful treatment option.

A total of 75 patients with JTPs were treated with GKRS from 1995 to 2012. Gandía-González et al., analyzed those treated during this period to allow for a minimal observation time of 2 years. The [MR](#) images and clinical reports of these patients were reviewed to assess clinical and volumetric outcomes of the tumors. The radiological and clinical assessments, along with a group of prognostic factors measured, were analyzed using descriptive methods. The time to volumetric and clinical progression was analyzed using the Kaplan-Meier method. Prognostic factors were identified using log-rank statistics and multivariate Cox regression models.

The mean follow-up was 86.4 months. The authors observed volumetric tumor control in 94.8% of cases. In 67.2% of cases, tumor volume decreased by a mean of 40.1% from the original size. Of patients with previous tinnitus, 54% reported complete recovery. Improvement of other symptoms was observed in 34.5% of cases. Overall, clinical control was achieved in 91.4% of cases. Previous [embolization](#) and familial history of paraganglioma were selected as significant prognostic factors for volumetric response to GKRS treatment in the univariate analysis. In multivariate analysis, no factors were significantly correlated with [progression free survival](#). No patient died of side effects related to GKRS treatment or tumor progression.

Gamma Knife radiosurgery is an effective, safe, and efficient therapeutic option for the treatment of these tumors as a first-line treatment or in conjunction with traditional surgery, [endovascular treatment](#), or conventional fractionated radiotherapy ¹⁾.

¹⁾

Gandía-González ML, Kusak ME, Moreno NM, Sárraga JG, Rey G, Alvarez RM. Jugulotympanic paragangliomas treated with Gamma Knife radiosurgery: a single-center review of 58 cases. J Neurosurg. 2014 Nov;121(5):1158-65. doi: 10.3171/2014.5.JNS131880. Epub 2014 Jun 13. PubMed PMID: 24926654.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=jugulotympanic_paraganglioma

Last update: **2024/06/07 02:59**

