

# Gamma Knife radiosurgery for glioblastoma

Here are some key points regarding the use of Gamma Knife radiosurgery for glioblastoma:

**Targeted Treatment:** Gamma Knife allows for highly accurate targeting of the tumor, which is essential for glioblastomas given their infiltrative nature and the importance of sparing nearby healthy brain tissue.

**Adjuvant Treatment:** Gamma Knife radiosurgery is more commonly used as an adjuvant treatment, meaning it is employed in addition to standard treatments like surgery, chemotherapy, and traditional radiation therapy.

**Tumor Size and Location:** The efficacy of Gamma Knife radiosurgery may depend on factors such as the size and location of the tumor. It is often used for smaller tumors or for treating specific regions of larger tumors that are challenging to reach with conventional surgery.

**Treatment Planning:** A detailed treatment plan is developed using advanced imaging techniques, such as magnetic resonance imaging (MRI), to precisely map the tumor and surrounding structures. This allows for accurate targeting during the radiosurgical procedure.

**Follow-Up Monitoring:** Patients typically undergo regular follow-up imaging to assess treatment response and monitor for any recurrence.

While Gamma Knife radiosurgery can be a valuable tool in the management of certain brain tumors, including some metastatic brain tumors and benign tumors, its role in [glioblastoma treatment](#) is usually considered within the broader context of a comprehensive treatment plan. Treatment decisions for glioblastoma are typically made based on factors such as the patient's overall health, the location and size of the tumor, and the potential benefits and risks of each treatment modality. The field of glioblastoma treatment is an area of active research, and new therapeutic approaches may emerge over time. Patients with glioblastoma should consult with their medical team to determine the most appropriate and personalized treatment strategy based on the latest evidence and guidelines.

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