

Rapid Resolution of Pulsatile Tinnitus After Gamma Knife Radiosurgery for Tentorial Meningioma Involving the Transverse Sinus

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Case

- F/61, Pulsatile tinnitus (3mo)
- 2cm tentorial meningioma
- Rt. Transverse sinus compression

Treatment

- GKRS (13 Gy @50%)
- 80% isodose focused on sinus interface

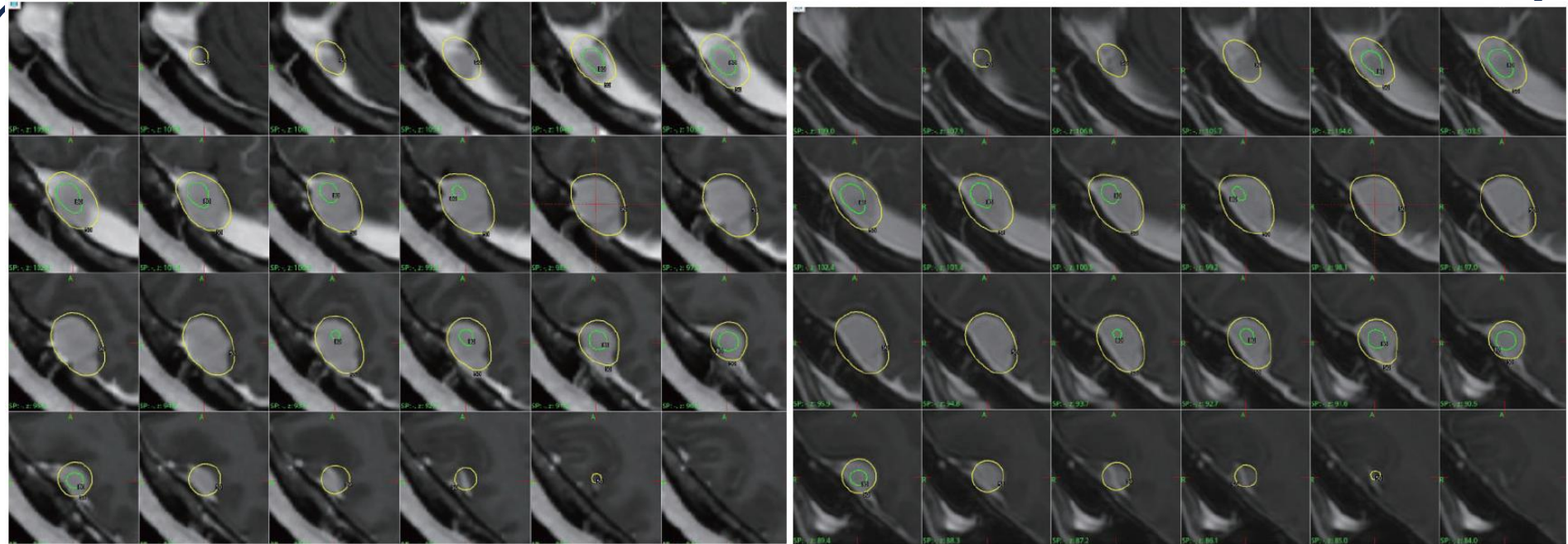
Clinical course

Pre → GKRS → 1 week → 7 months

COMPLETE RESOLUTION

- Symptom resolution precedes radiographic change

- Venous sinus compression can cause pulsatile tinnitus
- GKRS may modulate venous hemodynamics



GKRS planning: Green = 80% isodose; Yellow = 50% isodose. High-dose region focused on sinus interface.

Follow-up overlay: Yellow = pre-treatment margin; Green = 7-month margin. Focal shrinkage at sinus interface.

Rapid symptom relief despite minimal tumor shrinkage