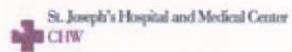


## LEFT OPTIC NERVE MENINGIOMA (WHO GRADE 2)

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Barrow Neurological Institute CyberKnife® Team:

Radiation Oncologists: John Kresl, M.D., Ph.D.

Surgeon: Randal Porter, M.D.

Medical Physicist: Raymond Rodebaugh, Ph.D.

Radiation Therapist: Nancy Berstein, R.T.(T.)

Additional Contributors: Debra Traylor

CyberKnife Center: Saint Joseph Hospital  
Barrow Neurological Institute  
Phoenix, AZ

## LEFT OPTIC NERVE MENINGIOMA (WHO GRADE 2)

### DEMOGRAPHICS

**Sex:** Male  
**Age:** 75 years  
**Histology:** Meningioma

### CLINICAL HISTORY

**Referred by:** Neurosurgery  
**Previous Treatment:** Previously resected

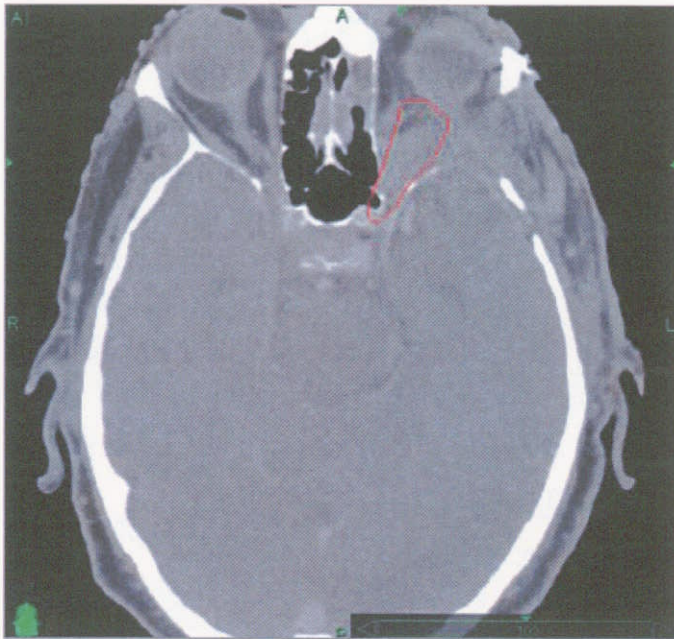
### Case History

History of progressive loss of visual acuity and peripheral vision. Patient was referred for resection. Patient complained of post-surgical retrobulbar pain and discomfort.

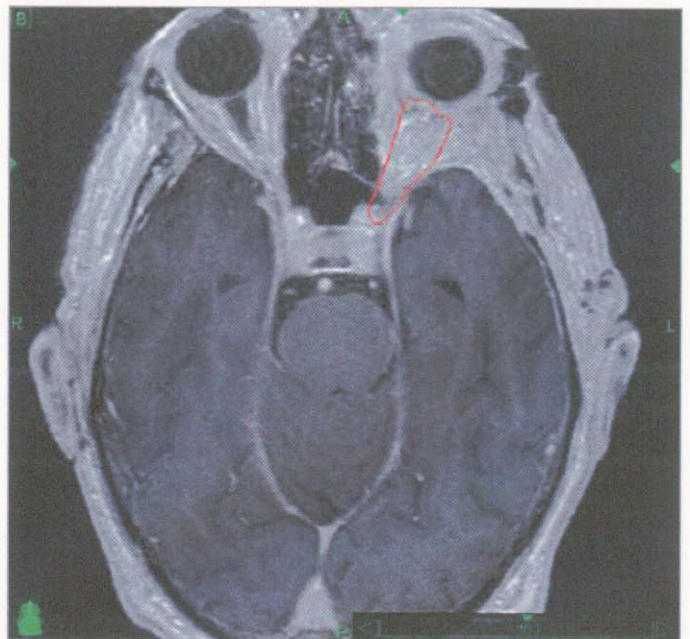
### CyberKnife® Treatment Rationale

This lesion is prone to recurrence so a recommendation to perform adjunctive radiosurgery to the resection bed was made by the neurosurgeon.

Due to the risk of recurrence and intimate association of the lesion with the optic nerve, the CyberKnife® System was selected. SRS will reduce the risk of encroachment into the optic chiasm and risk to the sighted eye. Studies report hypofractionation to be safer and effective for optic nerve meningiomas.<sup>1</sup>



Pre-treatment CT image showing target lesion.



Pre-treatment MR image showing target lesion.