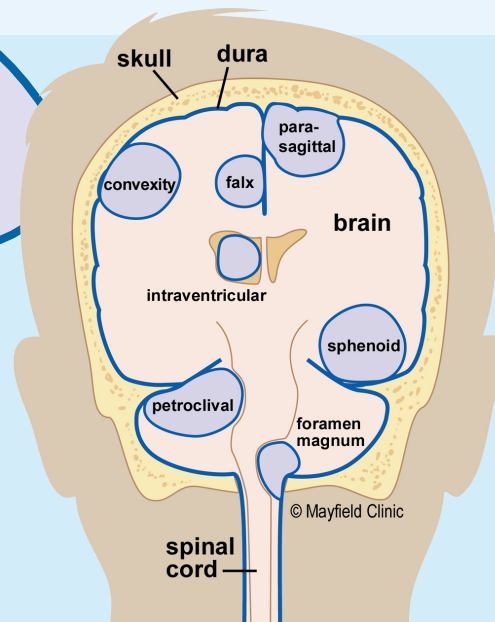


Meningiomas are as unique as you.

Treatment is tailored to your meningioma's size, location and grade.

A **meningioma** is a tumor that grows from the protective dura (shown here in blue) that covers the brain and spinal cord.

There are a variety of treatment options for meningiomas. The treatment that is right for you will depend on your **age, general health, and the location, size, and grade of the meningioma**. Each treatment has benefits, risks and side effects that should be discussed and understood.



Grade I

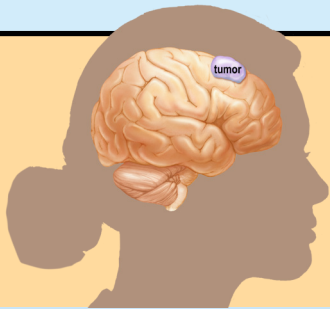
- benign
- slowest growing

Grade II

- atypical
- more aggressive

Grade III

- malignant
- most aggressive



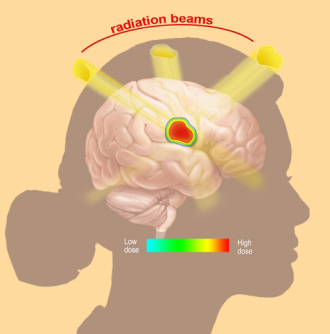
Meningioma Treatment Options

Observation: for meningiomas that are not causing symptoms and not growing in size
Observe with periodic MRI scans and report any symptoms to your physician.



Surgery:

for meningiomas that are causing symptoms or growing in size
The meningioma is removed by a neurosurgeon. During surgery, samples are collected (biopsy) and examined to confirm the meningioma type and grade. If the meningioma is completely removed, no additional treatment may be needed. If any remains, it can be treated with radiosurgery. The risks of surgery depend on where the tumor is located. Complex meningiomas may require the expertise of a skull base team.



Radiosurgery: for small- to medium-sized meningiomas and for meningiomas that cannot be completely removed surgically, are inoperable, or are malignant | During this minimally invasive, outpatient treatment, precisely targeted radiation beams damage meningioma cells while minimizing exposure to normal cells. Radiosurgery delivers a high dose of radiation during a single session or 5 daily sessions. Over time, the tumor stops growing, shrinks, and sometimes disappears. Benign tumors may take several months to a few years to show an effect. Meningiomas that do not respond to surgery and/or radiosurgery may be treated with chemotherapy.

For more information on meningioma brain tumors:
mayfieldclinic.com/meningioma-care.htm