

# WHAT YOU SHOULD KNOW

## ABOUT MENINGIOMA

### WHAT IS A MENINGIOMA?

- A tumor that forms from the membranes covering the brain and spinal cord
- Most common type of tumor that originates in the central nervous system

Meningioma tumors that have never been detected clinically are discovered in

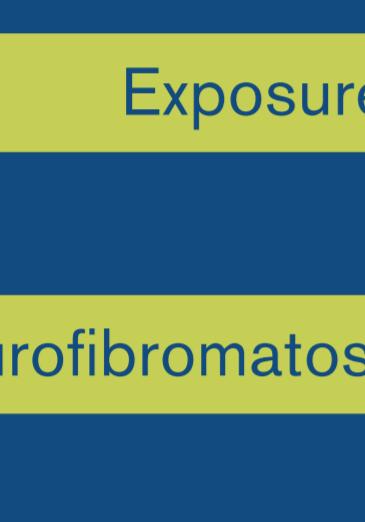
**2.8%** of all people who are autopsied.



### WHO IS AFFECTED?

**33.8%**

of all adult primary brain tumors are meningiomas.



Only **2.5%**

of all cases occur in children.



Most cases are diagnosed between ages

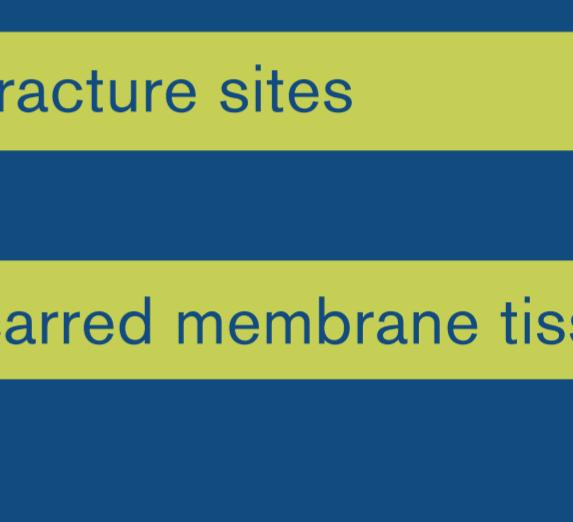
**40-70.**

Most cases are diagnosed between ages

Meningioma cases by gender:

**74% Female**

**26% Male**



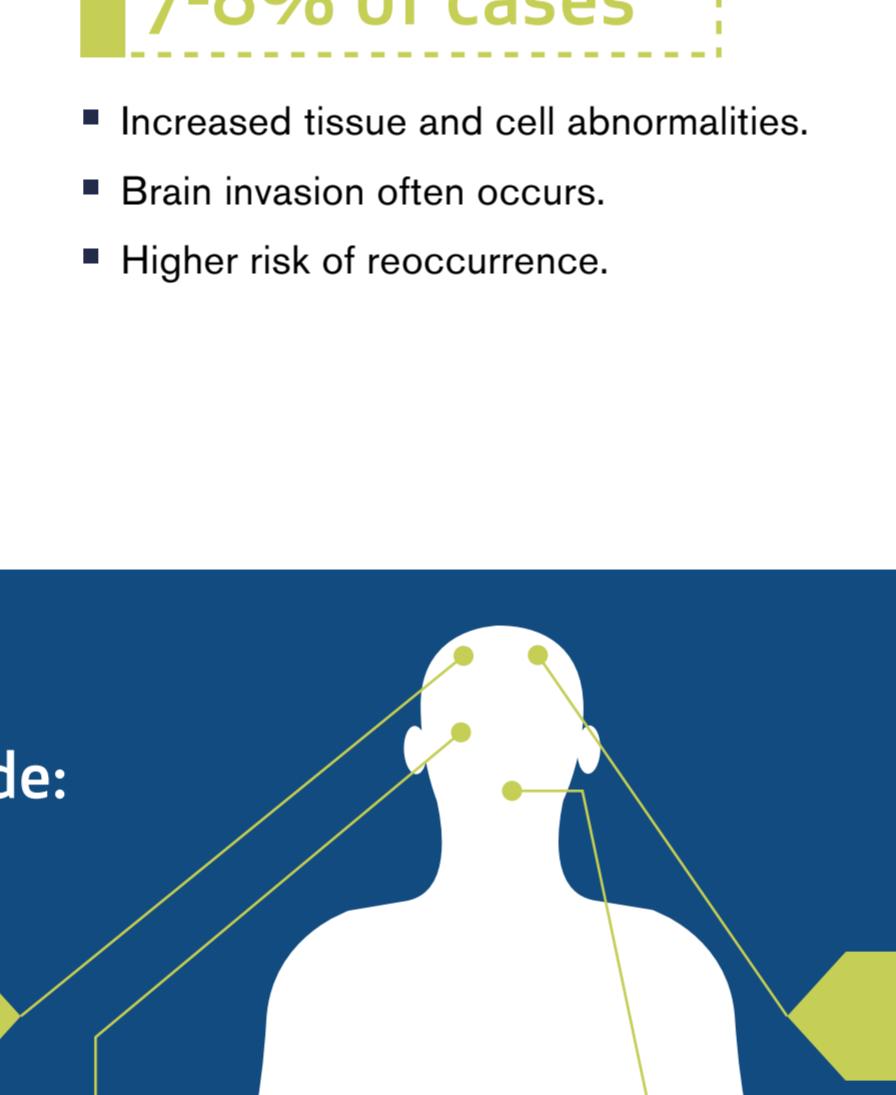
### WHAT CAUSES A MENINGIOMA?

#### 2 known risk factors:

Previous injury may also be a risk factor, as meningiomas have been found on:

Exposure to radiation

Neurofibromatosis type 2



Skull fracture sites

Scarred membrane tissue

### 3 CLASSIFICATIONS OF MENINGIOMA

#### BENIGN:

**90% of cases**

- Slow growth.
- Rarely invade the brain tissue.
- Less likely to recur.

#### ATYPICAL:

**7-8% of cases**

- Increased tissue and cell abnormalities.
- Brain invasion often occurs.
- Higher risk of reoccurrence.

#### MALIGNANT:

**2-3% of cases**

- Increased cellular abnormalities.
- Fastest growth rate.
- Most likely to:
  - Invade the brain.
  - Spread (metastasize) to other organs.
  - High recurrence rate.

### DETECTION

Common symptoms include:



Seizures



Blurred vision



Weakness in arms or legs

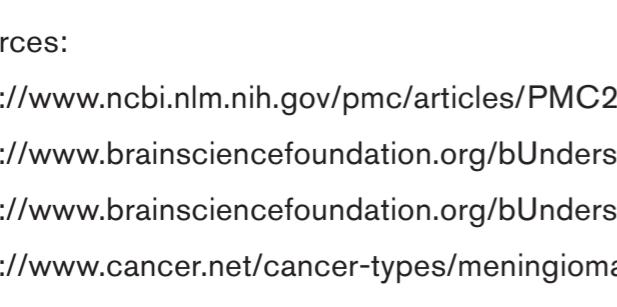


Meningiomas are rarely diagnosed before symptoms occur.

### DIAGNOSIS

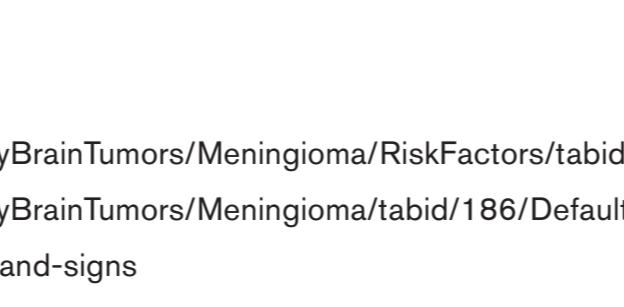
Doctors will order **CT scan or MRI scan** to determine the size and location of the meningioma.

### TREATMENTS



#### Observation

- Regular brain scans check for tumor growth.



#### Surgery

- Minimally invasive approach.
- Advanced microsurgical and virtual reality techniques.



#### Stereotactic Radiosurgery

- Focused radiation only to the tumor.
- Little to no spread to surrounding brain.

▪ Shrinks and prevents tumor growth.

▪ Can kill cancer cells in malignant tumors.

Houston Methodist Kenneth R. Peak Center for Brain & Pituitary Tumor Treatment and Research offers patients personalized treatment of brain, spine, and pituitary tumors.

For more information, visit [houstonmethodist.org/peakcenter](http://houstonmethodist.org/peakcenter) or call 713-441-8500.

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Sources:  
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