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Overview

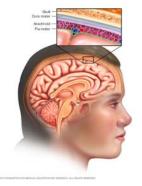
A meningioma is a tumor that arises from the meninges — the membranes that surround your brain and spinal cord. Although not technically a brain tumor, it is included in this category because it may compress or squeeze the adjacent brain, nerves and vessels. Meningioma is the most common type of tumor that forms in the head.

Most meningiomas grow very slowly, often over many years without causing symptoms. But in some instances, their effects on adjacent brain tissue, nerves or vessels may cause serious disability.

Meningiomas occur most commonly in women, and are often discovered at older ages, but a meningioma may occur at any age.



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Meninges

Three layers of membranes known as meninges protect the brain and spinal cord. The delicate inner layer is the pia mater. The middle layer is the arachnoid, a web-like structure filled with fluid that cushions the brain. The tough outer layer is called the dura mater.

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1 of 5 2/19/2020, 10:19 AM Because most meningiomas grow slowly, often without any significant signs and symptoms, they do not always require immediate treatment and may be monitored over time.

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Symptoms

Signs and symptoms of a meningioma typically begin gradually and may be very subtle at first. Depending on where in the brain or, rarely, spine the tumor is situated, signs and symptoms may include:

- Changes in vision, such as seeing double or blurriness
- · Headaches that worsen with time
- Hearing loss or ringing in the ears
- Memory loss
- Loss of smell
- Seizures
- Weakness in your arms or legs

When to see a doctor

Most signs and symptoms of a meningioma evolve slowly, but sometimes a meningioma requires emergency care.

Seek emergency care if you have:

- Sudden onset of seizures
- Sudden changes in your vision or memory

Make an appointment to see your doctor if you have persistent signs and symptoms that concern you, such as headaches that worsen over time.

In many cases, because meningiomas do not cause any noticeable signs or symptoms, they are only discovered as a result of imaging scans done for reasons that turn out to be unrelated to the tumor, such as a head injury, stroke or headaches.

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Causes

It isn't clear what causes a meningioma. Doctors know that something alters some cells in your meninges to make them multiply out of control, leading to a meningioma tumor.

Whether this occurs because of genes you inherit, hormones (which may be related to the more frequent occurrence in women), the rare instance of prior exposure to radiation or other factors remains largely unknown. There is no solid evidence to support the assertion that meningiomas occur in association with cellphone use.

Risk factors

Risk factors for a meningioma include:

- Radiation treatment. Radiation therapy that involves radiation to the head may increase the risk of a meningioma.
- Female hormones. Meningiomas are more common in women, leading doctors to believe that female hormones may play a role.
 Some studies have also suggested a link between breast cancer and meningioma risk related to the role of hormones.
- An inherited nervous system disorder. The rare disorder neurofibromatosis 2 increases the risk of meningioma and other brain tumors.
- Obesity. A high BMI (body mass index) is an established risk factor for many types of cancers, and a higher prevalence of meningiomas among obese persons has been observed in several large studies. But the relationship between obesity and meningiomas is not clear.

Complications

A meningioma and its treatment, typically surgery and radiation therapy, can cause long-term complications, including:

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 - Difficulty concentrating
 - Memory loss
 - Personality changes
 - Seizures

Your doctor can treat some complications and refer you to specialists to help you cope with other complications.

By Mayo Clinic Staff

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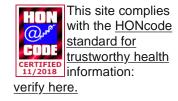
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