

Contact Information

NNI@TTSH

Tan Tock Seng Hospital, NNI Block, Neuroscience Clinic
11 Jalan Tan Tock Seng, Singapore 308433
Main Tel: (65) 6357 7153
Appt. Tel: (65) 6330 6363
Email: appointments@nni.com.sg
Website: www.nni.com.sg



NNI@SGH

Singapore General Hospital, Block 3, Clinic L
Outram Road, Singapore 169608
Main Tel: (65) 6222 3322
Appt. Tel: (65) 6321 4377
Email: appointments@sgh.com.sg
Website: www.nni.com.sg



NNI@CGH

Changi General Hospital
2 Simei Street 3
Singapore 529889
Appt. Tel: (65) 6850 3333

NNI@KTPH

Khoo Teck Puat Hospital
90 Yishun Central
Singapore 768828
Appt. Tel: (65) 6555 8828

NNI@KKH

KK Women's and
Children's Hospital
100 Bukit Timah Road
Singapore 229899
Appt. Tel: (65) 6294 4050

NNI@SKH

Sengkang General Hospital
110 Sengkang East Way
Singapore 544886
Appt. Tel: (65) 6930 6000



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Neuroscience conditions

The National Neuroscience Institute operates out of
two main campuses (TTSH, SGH) and
four partner hospitals (CGH, KKH, KTPH, SKH).



Neurosurgery Department



Brain Tumours

Meningiomas

Brochure content serves as a guide only
Seek the advice of your doctor for more details

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National
Neuroscience Institute
SingHealth

Understanding Meningiomas

Meningioma is the most common type of brain tumour in Singapore, and occurs mostly in those aged 40 to 60. Meningiomas grow on the protective tissue covering the brain and spinal cord, called the meninges.

Most meningiomas are slow-growing and non-cancerous (benign), which means that they do not spread to other parts of the body. However, a large meningioma can put pressure on the brain or spinal cord, irritate nerves and injure blood vessels in the brain, causing damage or disability.

Like other types of brain tumours, the cause of meningiomas is unknown.

Signs of Meningiomas

Most benign tumours do not show any signs until they are large and increase brain pressure. Signs vary, depending on the tumour's location.

They include:

- Persistent headaches
- Seizures
- Numbness/weakness in the arms/legs if the tumour is near the area which controls motor functions
- Double/blurred vision if the tumour presses the nerve leading to the eye, or is large enough to cause a generalised increase in pressure
- Loss of smell, taste, hearing and memory, if the tumour grows between the eyebrow and nose

Diagnosing Meningiomas

A Computed Tomography (CT) and Magnetic Resonance Imaging (MRI) scan help to determine the size, location and likelihood of the tumour growing.

Treating Meningiomas

Small and slow-growing benign tumours without major signs may not need immediate treatment.

Periodic brain scans should be done to monitor tumour growth. If the tumour does not grow in size, surgery may not be needed.

If there are new symptoms or signs, consult your attending doctor.

Surgery

The majority of meningiomas can be treated with surgery.

The tumour can be removed if it is near the brain's surface and do not affect critical functions like sight.

Some tumours, however can only be partially removed because they are near important brain structures. A partial removal will help to relieve symptoms.

Medications to reduce brain swelling and prevent seizures may be given before and after surgery, if needed.

Physio, occupational and speech therapy may help with temporary muscle weakness, coordination and speech problems.

The recovery time depends on age, the overall health of the patient, location and size of the tumour.

Radiation Therapy and Radiosurgery

If the tumour is cancerous (malignant) or can only be partially removed, radiation therapy may be needed.

A high and precise dose of radiation is aimed at the tumour, with no or low damage to surrounding brain structures. This helps to shrink the tumour or prevent it from growing.

As tumours may recur, go for regular checks.

Support for Brain Tumours

Brain Tumour Society (Singapore) (BTSS)

BTSS is a community of brain tumour patients, caregivers and survivors. The BTSS provides community support and resources such as befrienders, financial assistance and public education. Started by brain cancer survivors, BTSS meets once a month so that members can share experiences and advice on how to cope with the disease.

For more information, visit www.braintumoursociety.org.sg.