

Brain and Spine Specialists
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Surgical treatment for Trigeminal Neuralgia

Trigeminal neuralgia is usually treated with medications such as Tegretol or Gabapentin.

The indications for neurosurgical intervention are:

1. Severe intractable pain.
2. Inability to eat/swallow.
3. Failure of medical treatment.

OPERATION

The options of neurosurgical treatment include a major operation (microvascular decompression of the trigeminal nerve) and a minor procedure (glycerol rhizotomy).

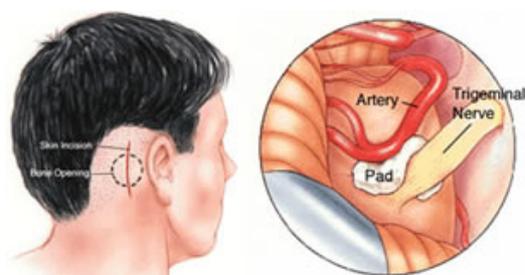
Microvascular decompression of trigeminal nerve

This major operation involves the patient being put to sleep and an incision behind the ear on the same side as the pain. A bone window is created, craniotomy (replaced at end of operation). A microscope is used to identify the trigeminal nerve and the structure compressing it. This is usually the superior cerebellar artery. A piece of sterile felt or something similar is placed between the two structures ensuring separation (Micro-vascular decompression).

The operation takes approximately two hours, and patients wake up well afterwards. The medication is weaned down over several months. This procedure has a low long-term risk of recurrence, but is a big operation compared to the above minor procedures.

Glycerol Rhizotomy of trigeminal nerve

Under a local anaesthetic and a light sedation the trigeminal is targeted through a needle puncture on the side of the face adjacent to the lips.



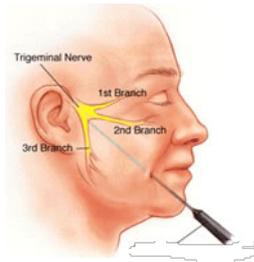
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Stereotactic navigation and X-rays are used to help direct us to the foramen ovale which is the exit point of the trigeminal nerve from the skull. Once the needle is in position, glycerol (a type of alcohol) is injected down the needle. The patient is awake at this stage and may report similar symptoms to their trigeminal neuralgia. Alternatively, the procedure could be performed under a full general anaesthetic. After an

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appropriate period of time the needle is removed and a small dressing placed over the needle entry point. The patient could be admitted overnight for observation or discharged home on the day of the procedure.



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Risks of the procedures:

The risks of this operation include the following. A detailed discussion with your surgeon is recommended prior to surgery.

- Infection: may be superficial or deep.
- Bleeding: may be superficial bruising or a deeper collection.
- Cranial nerve damage: resulting in loss of hearing, facial weakness & numbness, double vision, hoarse voice, difficulty swallowing &/or impaired tongue movements.
- Hydrocephalus - which may be temporary or permanent and may require a second operation.
- Cerebrospinal fluid (CSF) leak through the wound and/or nose.
- Headaches & neck pain.
- Weakness, numbness, speech disturbance or paralysis (stroke like symptoms).
- Coma or death.

Disclaimer:

This brochure provides a general overview of the surgery and does not represent individual medical advice. Changes to your medication or lifestyle, and specific questions concerning surgery must be discussed with your doctor.

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