



PAINWEST

Excellence in Pain Management

Rhizotomy (Non-Facet Joint)

Several painful conditions can be treated with a procedure called a Rhizotomy (also called a percutaneous neurotomy). The procedure involves heating nerves which carry pain signals from an affected area to the brain. It can provide between 6 and 12 months of pain relief in most people and it can be repeated. There are 2 versions of this:

- High temperature (80-90 °C): this damages the nerve and stops it functioning.
- Low temperature, pulsed (42 °C): this “reprograms” the nerve and reduces it’s sensitivity.

The common areas that can be treated include:

- Sacroiliac Joints (SIJ) – associated with buttock and lower back pain
- Spinal Disc – pulsed rhizotomy of the intervertebral disc
- Knees – the Genicular nerves are targeted
- Shoulders – the Suprascapular nerves are targeted
- Headache – the Greater Occipital Nerves (GON) are targeted
- Pelvic pain – the Pudendal nerves are targeted
- Chest pain – the Intercostal nerves are targeted

What are the risks of the procedure?

All invasive procedures carry the risk of complications. In general, the risk is low, but potentially includes:

- Discomfort at the site of the injection
- Worsening of your pain. This is common and typically lasts 1-2 weeks but can be as long as 1-2 months in some people
- Infection (generally a low risk except for Intra-discal which carries 1:500 risk)
- Bleeding
- Allergic reaction to the medications.
- Fainting
- Nerve damage (due to direct trauma, the medication, infection or bleeding).
- Steroid-related side effects such as transient flushing, mood swings, insomnia, high blood sugar levels (especially in diabetic patients). The manufacturer did not specifically design most steroid solutions for this procedure, so this termed “off label use”. Despite this, these medications have been widely used, over many years, for this procedure without significant complications.
- Risks of sedation, if used

What are the costs of the procedure?

- For privately insured patients we will send a bill directly to your health fund. In general, there is no gap to pay (although you will be liable for any costs that your health fund doesn’t cover, such as an excess).
- For worker’s compensation and motor vehicle insurance patients, we will obtain authorisation from the insurers prior to the procedure. There should be no cost to you.
- For uninsured patients, you will be expected to pay the full amount prior to the procedure and you will then be able to claim back a portion from Medicare (MBS item number is usually 39323).

How do I prepare for this procedure?

You will receive a call from the hospital or us a few days before the procedure to discuss an exact admission time and details with you.

Please advise staff if you are:

- **Taking blood thinners (including warfarin, clopidogrel, dabigatran, rivaroxaban and apixaban)**
- **Diabetic**
- **Pregnant (or any chance of you being pregnant).**
- **Allergic to iodine, betadine, shellfish, local anaesthetics, or cortisone/steroids.**
- **Unwell (especially if you have an infection)**
- **Weigh over 120kg**

Prior to the procedure you should:

- **Fast – No food for 6 hours. Can have water up till 2 hours before procedure.**
- **Take your usual medications (apart from those mentioned above)**
- **Arrange for someone to accompany you to and from the day surgery**

What does the procedure involve?

After arriving and completing the necessary paperwork:

- You will be asked to change into a hospital gown and a small cannula may be inserted into one of your veins.
- You may be given a sedative. This is not a general anaesthetic but most people feel as if they were asleep.
- Your heart rate and blood pressure are usually monitored throughout the procedure.
- You will lie face down on an x-ray table, the skin over the area to be injected is cleaned with an antiseptic solution, and sterile drapes applied
- A local anaesthetic (usually lignocaine) is injected into your skin
- A specialised needle is then inserted under x-ray guidance.
- The needle tip heats up to damage the target nerve.
- The local anaesthetic and/or steroid solution is injected.
- The procedure usually takes about 30 minutes, plus recovery time.

What happens after the procedure?

- You will be monitored in a recovery area until you are ready to go home (usually 30-60 minutes).
- You may experience numbness and/or relief from your symptoms for several hours after the injection and you may experience some light-headedness on standing. These feelings will gradually return to normal over next few hours.
- If you have received any sedation during your procedure, the effects of these medications may last for up to 24 hours:
 - You may not remember some of the information given during the procedure. This is a normal side effect of the medication.
 - You need to have someone take you home and stay with you for the next 24 hours.
 - For the next 24 hours you should not drive a vehicle, drink alcohol, operate machinery, make important decisions, sign legal documents or travel unaccompanied
- You will be given a pain relief chart to fill out. Please bring this to show the doctor at your next consultation.
- Please remove the dressing the day after the procedure, when you next wash.
- The pain may return when the local anaesthetic wears off. Some people experience an initial increase in pain and stiffness that may continue for several days. If necessary, an ice pack can be applied to the area, 20 minutes at a time, for 1-2 days following the procedure.
- If steroids are injected, then it may take several days for the benefits to be noticed. Additionally, you may feel flushed in the face, have some mild insomnia and/or notice a change in your mood for a few days. Diabetic patients may notice a rise in their blood sugar levels.
- After the procedure, care must be taken to avoid a rapid increase in your activities. Gradually increase your daily activities as tolerated. Discuss this with your doctor.
- If you notice any swelling or bleeding from the site, fever, urinary difficulties, severe headache, increasing weakness and numbness or have any other concerns, please contact us, your General Practitioner or the Emergency Department of your local hospital.