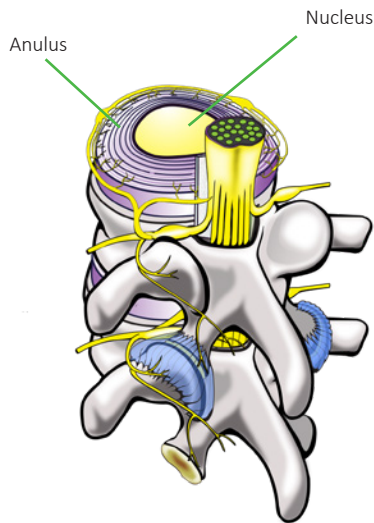


LUMBAR DISCOGRAPHY

For Diagnosing Lumbar Disc Pain



Lumbar discography is a procedure for diagnosing painful tears in intervertebral discs in the lower back.

What are intervertebral discs?

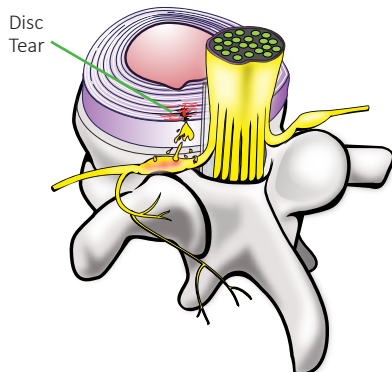
Intervertebral discs are found between the vertebrae (the bones) of the spine. These soft discs cushion the vertebrae, hold them together, and control motion. They are located in the neck, upper back and lower back.

Each disc has two parts. The inner part is called the nucleus, and the outer part is called the anulus. The anulus has nerve endings that are sensitive to pain.

What causes pain in a disc?

If a disc tears, chemicals inside the nucleus may leak out. This can inflame the nerves in the outer part of the disc, the anulus, and cause pain. Nerve roots and the protective covering of the spinal cord (called the dura) are also sensitive to these chemicals. In the low back, it causes low back and/or leg pain.

An untreated disc tear may cause a disc to bulge or herniate. This can further inflame or compress the nerve roots and cause even more pain. This means early diagnosis of disc tears is important.



How do I know if I have disc pain?

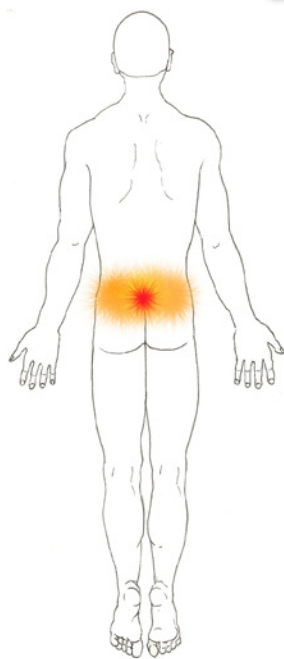
If you have pain in your lower back or legs, and it has not improved with treatment, you may have disc pain.

Common tests such as MRIs can show disc bulges and nerve root compression, but may not always show tears or leaks in discs. Discography is the best way to diagnose torn discs. It can also provide important information to determine if you will benefit from spine surgery.

What is discography?

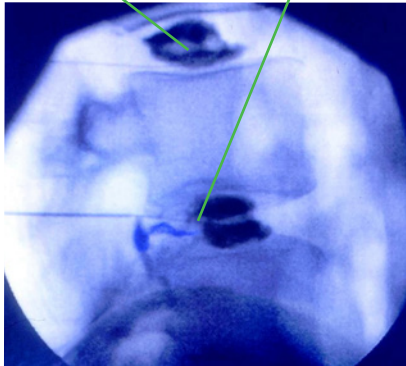
Discography is a procedure that helps your doctor find disc tears that may be causing your pain.

During discography, a thin needle is inserted into the center of a disc. X-ray contrast dye will be injected into the disc to identify whether or not the disc is painful. The dye will outline the tears in the disc. This is often done to several discs to find the specific disc or discs that are causing your pain.

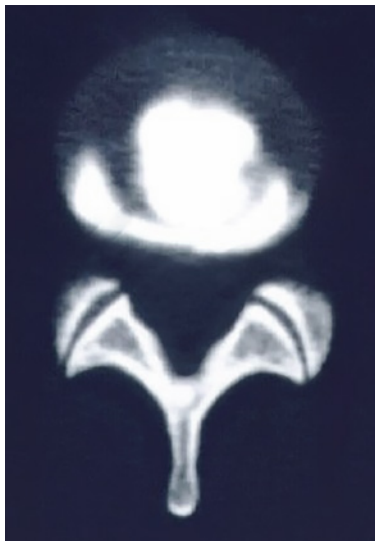


Dye contained
inside disc:
No tear

Dye leaking out
of the disc:
Disc tear



X-ray showing torn disc with dye leaking out



CT scan after discography with dye leak

What happens during discography?

Discography may start with IV sedation (medicine given intravenously) to help you relax. A local anesthetic will be used to numb your skin.

The doctor will then insert a thin needle directly into a disc. Fluoroscopy, a type of x-ray, must be used to ensure the safe and proper position of the needle. Dye will be injected to outline the tear.

It is important to describe any pain you feel to your doctor. During discography, a healthy disc will not cause your usual pain but a torn disc may. If you feel a different pain or soreness, be sure to explain that it hurts but it's not your usual pain. This will help the doctor determine which discs may be responsible for your pain.

What happens after discography?

You will be monitored for up to 30 minutes after the procedure. When you are ready to leave, the clinic will give you discharge instructions. You will be sent for a CT scan to get an image of your discs.

You may feel increased pain in your back after discography. This indicates your doctor may have found the source of your pain.

You can usually return to work a day or two after discography, but always check with your doctor.

What happens next?

You will have a follow-up appointment with your doctor to discuss the results of the discography. Your doctor will then recommend the best treatment for you based on the results.

This pamphlet is for general education only. Specific questions or concerns should always be directed to your doctor. Your doctor can explain possible risks or side effects.



Michael G. DeGroote Pain Clinic
McMaster University Medical Centre

1200 Main St West

Hamilton, ON. L8N 3Z5

T: 905.521.2100 Ext. 44621 Fax: 905-577-8022

www.hamiltonhealthsciences.ca/pain

