Lumbar Spondylosis

Lower back pain is incredibly common, with one in two people suffering lower back pain each year. If back pain occurs in older age, it is often attributed to lumbar spondylosis, or degenerative changes of the lower back.

It is very normal to suffer with degenerative conditions in the body. The discs naturally start to degenerate over the age of 25. They are made mostly of water (around 80% of the disc is water), with a tough outer fibrocartilage (known as the annulus). If the disc is placed under strain or stress, gradually the water starts to dehydrate. Dehydration of the disc is the first part of degeneration. If more than one disc dehydrates, this would then be termed as degenerative disc disease. If the discs continue to degenerate, you end up with a disc bulge which is where the downward pressure on the disc bulges the disc outwards. If enough strain is placed on the disc over a long enough period of time, then the disc might slip or prolapse. This too is part of degenerative disc disease.

Lumbar spondylosis is also known as degenerative disc disease.

Causes of Lumbar Spondylosis

- Hereditary/Genetic: weakness in the annulus of the disc can run in families, so if your parents have degenerative disc disease you would be more likely to get it too.
- Wear and Tear: years of small amounts of stress to the disc can cause degeneration.
- Poor posture: constant forward bending of putting the back in a compromised position can increase the pressure on the discs making degeneration more likely.
- Poor nutrition and dehydration: eating a poor diet can reduce the strength of the ligaments and fibres of the disc.

Lumbar Spine Anatomy

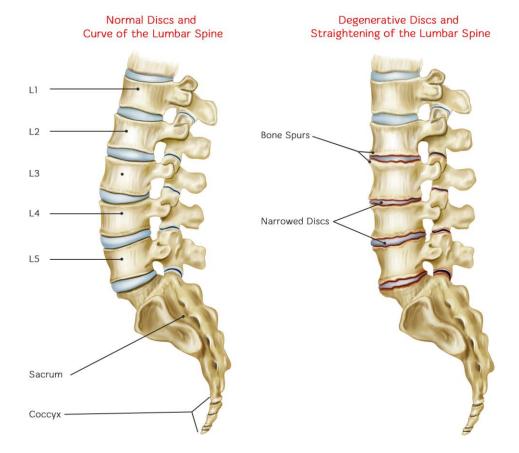
Your spine is composed of multiple bones (vertebrae), which are all stacked on top of each other. Ligaments, muscles, intervertebral discs and nerves are all additional components of your spine. Vertebrae are all of the bones that connect to create a canal protecting the spinal cord. Three columns make up the spinal column: the chest (thoracic), curves in the neck (cervical) and the lower back (lumbar). The lower part of the spine is composed of the vertebrae fused together.

In between each vertebra is a disc. It is made up of a soft inner part called the nucleus, and a harder outer part called the annulus. The inner part is mostly made up of water, and so the disc is full of water. When the disc starts to degenerate, the inner part dehydrates and the disc loses water. Small cracks can appear in the outer part of the disc, and the disc material can prolapse through these cracks, known as a slipped disc (or disc prolapse).

The nerves (electrical cables) travel through the spinal canal and send messages from the brain to the muscles. They branch away from the spinal cord from the openings along the vertebrae. Ligaments and muscles provide the body with stability and support for the upper body and the spine. Strong ligaments work to connect the vertebrae and make sure the spinal column stays in proper position.







How to Treat Lumbar Spondylosis:

1. Medication and/or Heat Therapy

Acetaminophen and aspirin can help to alleviate pain without a bunch of unnecessary side effects. A non-steroid anti-inflammatory medication like naproxen and ibuprofen helps to reduce pain and minimize swelling. Narcotics, like morphine and codeine, can help with the pain and swelling you are dealing with. Steroids, regardless of whether they are injected into the spine or taken orally, deliver a high dosage of anti-inflammatory medication to the injured site. However, these should only be taken short term when the pain is at its worst. An alternative would be using heat therapy. A hot pack will give the back comfort and help to sooth the pain. The heat may also help with mobility. Ask your therapist how long to use the heat pack for.

2. Physical Therapy

Physical therapy entails modalities like massage, heat, ice, electrical stimulation and ultrasound. Active therapy involves weight lifting, stretching and cardiovascular exercises. Using exercise and physiotherapy may help to restore strength and motion to the lower back and relieve pain. Therapy is often an effective way to relieve pressure on the spine as a result of degenerative disc disease.



3. Braces

Braces tend to be used quite often. The most common form of brace used is that of a corset-type unit that wraps around the stomach and back. Even though they might always be helpful, there are some that report feeling more stable and comfortable when wearing them. Short term use is more recommended, especially for lifting heavy items.

4. Chiropractic, Osteopathy and Acupuncture

Many different forms of this therapy exist. Some patients find relief from this type of pain by using these treatments. All have proven to help reduce back pain.

5. Traction

Even though this form of treatment is used, there is scientific evidence supporting its effectiveness and home traction devices can be used such as traction tables, or inversion tables, or you can have manual traction from a therapist, or some clinics offer traction machines which will traction the spine.

6. Accept it and Manage your Condition

Lumbar spondylosis is normal ageing to the spine. It is important that you realise everyone will suffer some degree of wear and tear when they get older, that's just aging. So you need to be realistic and expect some morning stiffness in your back. Your back will not be able to do what it used to, so repeated bending or lifting will likely aggravate your back, and care needs to be taken to look after your spine, and preserve what you have. Keep active, eat well, stay positive in mind and live a well balanced life to minimise the pain.

Tips:

- 1. Combining aerobic exercise with a specific type of exercises will help to keep your back muscles flexible and strong.
- 2. Make sure to lift heavy objects using the legs and not the back.
- 3. Maintaining a healthy weight will help to alleviate added stress on the lower back.
- 4. Smoke and nicotine can all cause your spine to age a lot quicker than normal.
- 5. Good posture will help to prevent problems down the line with your back.
- 6. Reduce forward bending.
- 7. Be realistic most people get lumbar spondylosis, you do need to manage your condition.