

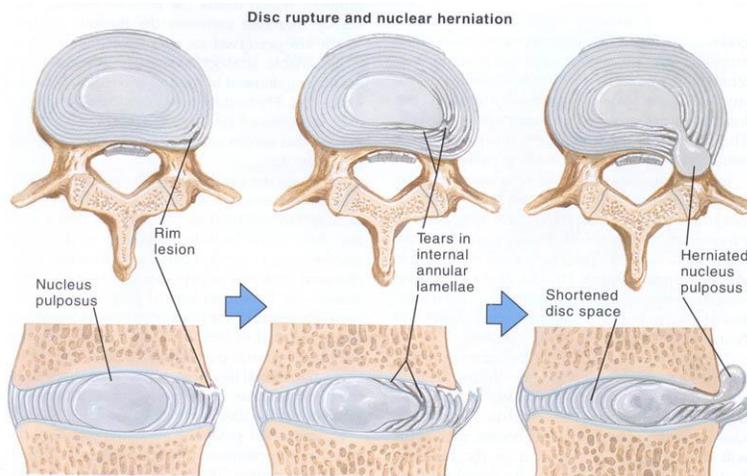
Holladay Physical Medicine

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This Information is about this condition in general. Every individual has a unique presentation. Once you understand this information, consult the doctor on any specific questions about your condition.

Lumbar Disc Disease and Compression Syndrome

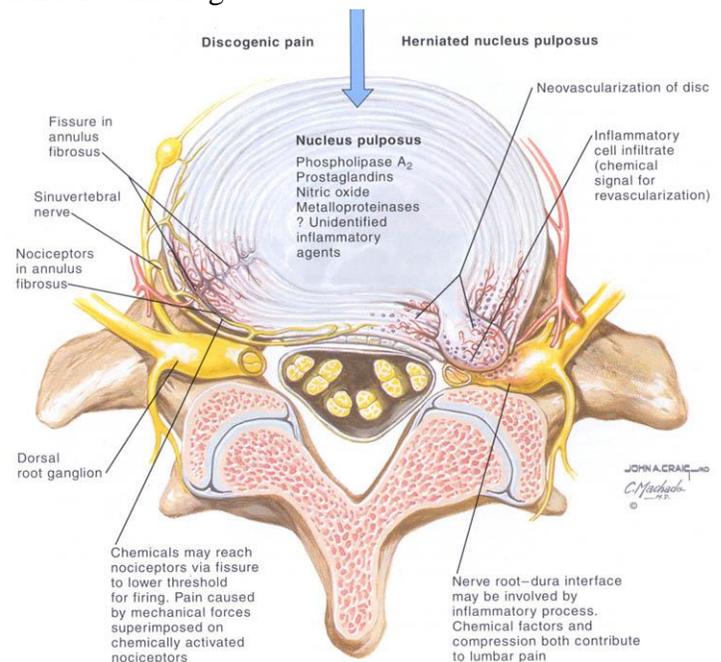
Lumbar Disc Disease and Compression Syndrome is primarily a tear in the disc tissue. This is generally caused by a breakdown of the normal mechanical function of the lower back and is characterized by the sharp, radiating pain in the lower back, buttocks, thigh and leg at times reaching beyond the knee to the foot. Pain is usually increased when coughing, sitting or bearing down and aggravated by stomach sleeping, hyperextension movements, combination bending and twisting and lifting.



hyperextension movements, combination bending and twisting and lifting. The early stages of the condition involve the outer rings of the disc. Each episode of back pain involving the disc becomes progressive until the disc bulges and impinges on the nerves to the pelvis and leg. With each untreated episode of low back pain, the tear in the outer fibers grow closer to the inner nucleus of fluid that can eventually protrude into the spinal canal and cause complete failure of the sciatic or femoral nerve roots. When advanced to this stage, the condition becomes a surgical concern as conservative treatments of physical

therapy, manipulation and exercise-very effective early on, become less effective later. The condition is often seen in two forms, the disc alone as a singular lesion or what is referred to as the three joint complex wherein the disc and the posterior joints on each side have failed to function properly as well. This form is far more difficult to treat and becomes a surgical consideration if left unmanaged.

Each stage shown above represents a new episode of back pain. The body will compensate and the pain will subside even though the condition does not heal. The next episode will be longer in duration and more painful but non-the-less damaging to the disc. Finally, if no treatment, rehabilitation and healing are completed, the disc will herniate. Depending on the available space in one's particular anatomy, the symptoms of this herniation may be unbearable or even moderate. The level of pain is not a good indicator of the severity of the condition.



DISCUSSION:

The lumbar disc syndrome is common in today's population. The increasing amounts of time spent in car seats and at the desk in front of the computer lend to increased dysfunction of the lower back joints and allow for the early deterioration of the disc tissue. Proper sitting techniques help reduce the frequency and intensity of pain. This is usually the second or third step in the progression of low back pain. If left untreated, this common problem gives rise to surgical intervention. When treated properly, the mechanical dysfunction is restored, the muscular components strengthened and the disc may be allowed to heal if left unaggravated. Proper healing may take up to 6 months while acute phase treatment is often effective within 2-3 months. Restored mobility of the spine, regular exercise and modification of aggravating life style habits are all necessary for restoration.

TREATMENT

The regenerative protocol for this disease includes Spinal Decompression. Following the decompression, ozone injections in the subcutaneous and intramuscular trigger points of the lumbar spine and sciatic and femoral nerve areas are performed. This is followed by electrical stimulation using Bi-Polar Rehab setting for 15 minutes bilaterally to the spine and nerve areas. Gentle spinal manipulation of the thoracic and lumbar spine is included and followed by Thera-Gun body massage of the symptomatic area. This is followed with extracorporeal shock wave therapy to the area. When adding stretching, mobility and agility exercises over 86% of patients considering surgery for this condition have been able to avoid it.

Treatment frequency is usually 3 per week unless pain is severe and requires daily sessions for a few days. Most patients require pain management during the first few weeks. See our Pain Management Video on the home page and order the pain relievers right away. Expect treatment to be 3 per week for the first 3-5 weeks and then gradually reduced to as needed. Watch the "Making Cartilage Video" on our web page to insure long term healing and preventions from recurrence.

After the first few days of treatment, you will be given a sheet of stretching exercises to do at home. This is to help reduce the treatment time and speed healing. It is very important for you to do these daily as prescribed. If you have any questions about them or difficulty or pain on performing them, please tell the doctor right away.

Several days following the initiation of treatment, more aggressive exercise routines will be proscribed for you. You will be taken to the rehabilitation center and instructed on how to use the computer monitored exercise routines specifically designed for this condition. The routines are monitored for completion and graduated in difficulty after certain numbers of routines have been completed. You will be expected to perform these routines after treatment during the initial part of the restorative phase and throughout the rehabilitative phase of your treatment. Our goal is to help you get well and stay well. We know from experience that most mechanical conditions return gradually over a period of months and become more advanced each time. The only way this can be prevented is with exercise. We expect you to be successful.

We offer treatment of these conditions at various levels for all patients. We expect that you will follow this treatment plan through to its logical conclusion of restoration of complete function and rehabilitation. Our management system is designed to help you remember all of your appointments and to be fully compliant with all of our recommendations. At any time, should you decide to discontinue the process, please just let us know so that we don't become a bother.

LIFE STYLE CHANGES:

Long periods of sitting or standing should be avoided. Bending, lifting and twisting should also be avoided for several weeks following onset. Do not sleep or lie on your stomach and avoid activities that hyper extend the lower back. Water intake should be increased substantially

USE OF PRESCRIPTION DRUGS

We do not prescribe drugs nor recommend their use if harmful side-effects are associated with your complaints. We also do not, in any case, recommend changes in the use of prescription drugs that a licensed physician has given you. If you believe alterations in those prescriptions are in the best interest of your health, always consult with the prescribing physician before making any changes.

NUTRITION AND SUPPLEMENTATION:

The ideal situation for nutrition in any injury or disease is first to eat whole foods, and to avoid processed foods, fast foods preservatives, refined carbohydrates and sugar. We have much information on our web page under Absolute Health Clinic. The physical medicine modalities we will provide you will help reduce the symptoms in the time we have projected. If you want to heal, this step is something you will need to take.

Nowadays, even if you do all of those things, you need to realize that our food supply has been gradually depleted. The pure ingredients needed to maintain body function, metabolism and immunity have been drastically reduced. We recommend only whole food supplements. Studies are clear that synthetic vitamins and mineral supplements are not only not helpful to the body in most cases, but can toxic. Don't expect them to take the place of what we recommend here. They will not help you sufficiently to heal properly. The following list has been prioritized to help you gradually begin to supplement your improved diet and provide your body with the ingredients it needs to restore or improve your immune response and then provide the raw materials in usable form to repair the damaged or diseased tissue. The degree to which you can implement these items will largely determine how fast you recover and more importantly whether or not you have a recurrence or relapse of the symptoms again soon.

These products are all produced by Standard Process. You may obtain them on line from Amazon or other distributors if you like or we can order them for you and save you an average of \$5 per bottle plus you can avoid shipping charges.

GENERAL DAILY SUPPLEMENTS

- Catalyn
- Tuna Omega-3 oil
- Calcium Lactate
- Trace Minerals B12
- Cataplex D
- Prolamine Iodine

SPECIFIC FOR THIS CONDITION

Whole Food Supplements:

| | |
|---------------------|-------|
| Ligaplex II | 6/day |
| Cataplex ACP | 4/day |
| Cal Ma Plus | 4/day |
| Calcifood Wafers | 4/day |
| Glucosamine Synergy | 3/day |
| Collagen C | 4/day |
| Biost | 2/day |

Herbal concentrates can be expected to have an immediate effect on some body functions.

Recommended Herbal Concentrates (for the first month):

| | |
|-------------------|-------------------|
| Saligesic | 2/day |
| Boswellia | 4/day |
| Californian Poppy | 8 mL |
| St John's Wort | 4/day |
| Horsetail | 5mL if acute pain |

You can order any of these by logging in to your account at www.standardprocess.com Or visiting our web page www.holladayphysicalmedicine.com and use the link on the left "Shop Supplements." You will not need an account for this link, just check out as a guest.

HOME REMEDIES AND MEDICINES

After the first 1-3 days when you should be using 5-8 minutes of cold packs, utilize moist heat packs on a daily basis during the first phase of treatment. 15 minutes is the maximum therapeutic dose for heat in this condition. The application may be repeated with at least 15 minutes of non-heat rest in between. This will help relax tight muscle fibers and bring blood to the region. Hot tubs and baths with Epsom salts provide temporary relief.

The use of over-the-counter medications for pain and inflammation may be seen as necessary at first depending on your pain level and tolerance. Understand that we depend on your natural immune response to function well in order to heal this disorder. Some pain relievers and most anti-inflammatory medications shut of the inflammatory response which is what triggers your body's immune response mechanisms. If you need pain medicines of any kind to continue to function or to be able to do the exercise routines we have recommended, use good judgement in when you use them. We strongly suggest you consider ice packs for 5-10 minutes for pain relief and mechanical positioning of the injured areas to relive pressure and pain. The more you are able to do these procedures and avoid medications, the faster your immune response will be effective and the sooner you will be out of pain and begin healing. The sooner you can stop taking pain medication, the better it will be for your healing.

EXERCISES:

Exercises should be specific, performed at the right time and in a particular order. They should be simple and aimed at pain relief and stabilization at first. Seek advice from your chiropractic physician on when to do these exercises and how often. When performed correctly, rehabilitation exercises can be the key to avoiding multiple episodes of pain and maintaining the function of the muscles and joints.

Our goal here is to have you begin exercises as soon as the joint mobility has been restored sufficiently. Consistent and proper exercise rehabilitation will shorten your treatment time and help reduce recurrence of the same disorder.

We offer a video training featuring exercises specifically designed and proven effective if properly performed for the rehabilitation of this condition. These video files are available on our web page at www.holladayphysicalmedicine.com ---follow that link, then the exercise pulldown menu at the top center of the home page, choose therapeutic and then scroll down to:

Low back Disc,

and perform them daily as soon as you can work it into your schedule. Along with the physical medicine we have recommended, it is the regular performance of these exercises that will get you well and keep you well.

MAINTENANCE:

Regular spinal adjustments and mild forms of physical therapy are important to reduce the symptoms on a regular basis. Patients who receive monthly spinal manipulation and therapy report fewer complications and improved life style. It is important that you follow your chiropractic physician's advice about the frequency of treatment for your particular condition.

OTHER INFORMATION:

We offer a wide variety of health information at our web site. www.holladayphysicalmedicine.com All patients are welcome to use our information to improve your life and maintain your spinal health.

This information is provided to you as a health service by Dr. Bruce Gundersen, DC, DIANM. He is board certified by the International Academy of Neuromusculoskeletal Medicine and currently serves as chairman of the examination board for the Academy. He is also the President of the Utah College of Chiropractic Orthopedists and clinical director and chief clinician at Holladay Physical Medicine. He has practiced physical and regenerative medicine for over 40 years.

Expectations

We understand that you have come here for help. We have spent many years learning the best ways to solve the problems of mechanical back and neck pain. We expect you to comply with our recommendations and follow our treatment schedule completely regardless of the treatment plan you have. We expect you to set all of the recommended appointments at times convenient for you and we expect you to keep all of them. We expect you to respond favorably and know that your 100% compliance is the determining factor. We also expect you to attend our next class on Absolute Spinal Health. The staff can give you a schedule of the next class.