The Spine Center

At Concord Orthopaedics



Self-Schedule Your Appointment Online



Comprehensive Spine Care

concordortho.com 603.224.3368

OUR MISSION IS TO PROVIDE THE COMMUNITY WITH CARING, CONVENIENT EXPERT SPINE CARE

WHY COME TO THE SPINE CENTER?

Our Spine Team includes fellowship-trained, board-certified orthpaedic spine surgeons, interventional pain management specialists, physician associates, nurse practitioners, and orthotists.

WHAT DOES THE SPINE CENTER OFFER?

Our Spine Team includes fellowship-trained, board-certified orthpaedic spine surgeons, interventional pain management specialists, physician associates, nurse practitioners, and orthotists.

IS SURGERY MY ONLY OPTION?

Our dedicated physicians will provide a comprehensive evaluation and tailor your treatment to your individual needs. When possible, we recommend non-surgical options such as injections, physical therapy, or non-opiate medication to help manage pain.

WHAT IF SURGERY IS NECESSARY?

Our Spine Team includes fellowship-trained, board-certified orthpaedic spine surgeons, interventional pain management specialists, physician associates, nurse practitioners, and orthotists.

If a procedure is scheduled, plan ahead for day of the procedure and recovery. The better prepared you are for your procedure, the smoother your recovery is likely to be. Follow all instructions given.

MEET OUR SPINE TEAM



Clifford M. Levy, MD

Orthopaedic Spine Surgeon



David J. Nagel, MD

PM & R / Diplomate Paine Medicine



Russell S. Brummett, MD

Orthopaedic Spine Surgeon



Jessica L. Mack, MD

PM & R / Diplomate Paine Medicine



Ross A. McEntarfer, MD

Orthopaedic Spine Surgeon



Jung-Woo Ma, MD

PM & R / Diplomate Paine Medicine

MEET OUR SPINE TEAM



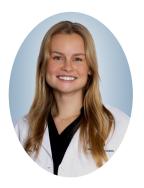
Alan D. Parzick, PA-C

Spine Care Physician Associate



Emily J. Hurst, DSc PAS, PA-C

Spine Care Physician Associate



Julie M. Michaud, PA.C

Spine Care Physician Associate

CONDITIONS TREATED AT THE SPINE CENTER

DEGENERATIVE DISC DISEASE

A condition in which disc deteriorate between vertebrae. Some degenerative disc diseases cause no symptoms, while others may cause the spine to lose flexibility or cause bone spurs that may pinch a nerve root, causing pain, or weakness.

HERNIATED DISC

Occurs when the soft center of a spinal disc pushes through a crack in the tougher exterior casing. Some herniated discs cause no symptoms, while others can irritate nearby nerves and result in pain, numbness, or weakness in an arm or leg.

OSTEOARTHRITIS

A form of arthritis caused by a degenerative disc disease that affects the facet joints, the small joints at each segment of the spine.

SACROILIAC JOINT DYSFUNCTION

Improper movement of the joints at the bottom of the spine that connect the sacrum to the pelvis. This can result in pain in the lower back and buttock, or inflammation of the joints known as sacroilitis.

PEDIATRIC & ADULT SCOLIOSIS

Curvature of the spine that generally occurs during the growth spurt just before puberty. While occasionally caused by cerebral palsy and muscular dystorophy, the cause of scoliosis is often unknown. In adults, scoloiosis is typically the result of degenerative disc disease (DDD) and facet joint arthritis.

SPONDYLOLISTHESIS

It can be the result of a degenerative change or a defect in part of the spine that causes vertebra to slip over another vertebra forwards, backwards, or sideways. This can result in symptoms including back and/or leg pain and is often found in the tendon with spinal stenosis.

VERTEBROGENIC BACK PAIN

Degeneration in the disc spaces can cause inflammation and degeneration where the disc meets the bones of the spine. This can result in debilitating back pain that is worse with sitting, activities, bending, and lifting.

RADIOLOGY SERVICES PROVIDED AT THE SPINE

X-RAY

As part of our commitment to patient care, every Concord Orthopaedics office has digital x-ray imaging facilities on-site. This aallows us to streamline your experience and allows our providers to have immediate access to your images. The images are stored in your electronic medical record and can be made available to you on a CD if needed at a small fee.

MRI

Sometime x-rays are not able to visualize what the doctor needs to adequately diagnose you. In this situation, your provider may order an MRI (magnetic resonance imaging). MRIs have proven invaluable for diagnosing spine, joint, and musculoskeletal disorders as they enable providers to see physical structures which may not be visible using other imaging techniques. We have an MRI conveniently on site at our Concord location. Gadolinium (contrast) studies are also available to those who need it. We also offer MRIs early mornings, late evenings, and weekends.

EMG / NCS

Electromyogram (EMG) is a test that helps to diagnose a variety of disorders involving peripheral nerves, muscles, spinal nerves, and symptoms including numbness, tingling, pain, muscle weakness, low back pain, sciatica, carpal tunnel syndrome, or radiculopathy. Our board-certified providers will perform the EMG, which usually takes 30-45 minutes. There are tow parts of the study: the nerve conduction study and the EMG needle study. Each part of the study gives information which will help to determine the functional quality of the peripheral nerves and muscles tested.

At Concord Orthopaedics, our radiology department utilizes state-of-the-art technology to perform advanced diagnostic studies. Our offices conveniently offer x-ray, MRI, and EMG and our professional radiologic technicians, physiatrist, and neurologist are here to assist to ensure your comfort throughout your exam.

PAIN INJECTION TREATMENT OPTION

EPIDURAL STEROID INJECTION

Frequently used for relief of neck pain that radiates to the arms or lower back pain that radiates to the legs. Steroidal (anti-inflammatory) medication is injected into the epidural space of the spine to effectively reduce the inflammation that may be caused by disc herniation, spinal stenosis, or spinal arthritis.

FACET JOINT STEROID INJECTION

Facet joints are the small joints at each segment of the spine and can become painful due to arthritis, a back injury, or mechanical stress. A small amount of local anesthesia and/or steroid medication is injected into the facet joints to decrease inflammation.

MEDIAL BRANCH BLOCK

A facet joint block is a diagnostic injection of local anesthesia into one or more of the joints located along the side of each vertebra on both sides of the spine in the lower back. If pain is relieved in the hours following the medial branch block procedure, this confirms the source of pain as the facet joint. Some providers will use steroids with this procedure for longer effect. This is then followed by a radiofrequency ablation procedure.

RADIOFREQUENCY ABLATION

An electrical current produced by a radio wave is used to heat up a small area of nerve tissue, thereby decreasing pain signals from the specific area. If can be done for both neck and lower back pain, and is appropriate for patients that experienced a successful response to facet block injections.

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NON-SURGICAL TREATMENT OPTIONS

PHYSICAL THERAPY

A highly-trained physical therapist evaluates and creates a treatment plan to meet your individual needs and goals. This includes exercises, manual techniques, stretching, soft tissue techniques, and other treatment methods to effectively improve your condition.

BRACING

Limited motion of the spine with a brace is sometimes needed to expedite the healing process. Braces are recommended based on factors specific to you, such as location or degree of spinal curvature. Proper usage of the brace is vital to the success of this kind of treatment. At the Spine Center, we offer bracing services on-site in all our office locations to provide you with the convenience and accessibility you deserve. We also partner with Capital Orthotics in Concord and Manchester for custom braces.

INJECTIONS

Concord Orthopaedics offers diagnostic and therapeutic spinal injections including epidural, facet, spinal nerve root, sympathetic blockade, and diagnostic discography.

Back/leg pain, frequently referred to as sciatica, is often caused by inflammation of a disc and/or nerves. An epidural injection targets this pain by injecting a steroid (anti-inflammatory) medicine into the epidural space.

IS SURGERY MY ONLY OPTION?

The epidural space is the space outside the covering of the spinal cord. The epidural injection may help an injury to heal by reducing inflammation in the area. It may provide permanent relief or a period of pain relief for several months while the cause of the pain is healing. Injections are usually done as a series of three, spaced apart by two to three weeks.

While lying on a special table, your back will be cleansed and prepared. The physician will numb the skin, which may sting for a few moments. Then, a special spinal needle will be inserted into the epidural space of the spine. A mixture of numbing solution (anesthetic) and an anti-inflammatory (steroid) medicine is injected. To ensure placement, the physician will use X-ray or fluoroscopy guidance.

After the procedure, you will be brought to the recovery area for 20 to 30 minutes. A driver will need to accompany you home. There may be some discomfort in the initial few days after the procedure. Your physician will provide specific discharge instructions.

SURGICAL TREATMENT OPTIONS

FRONT CERVICAL DISCECTOMY & FUSION

A herniated cervical disc can be removed through an anterior approach to relieve spinal cord or nerve root pressure with corresponding pain, weakness, numbness, or tingling. After the disc is removed, a bone graft or cage is inserted to fuse the bones above and below the disc space. A titanium plate and screws are usually placed over the bone graft or cage to hold the graft/cage in place during the healing process and to stabilize the spine.

ARTIFICIAL DISC REPLACEMENT (ADR) / TOTAL DISC REPLACEMENT (TDR)

Artificial disc replacement surgery involves replacing a painful disc with an artificial disc. Artificial disc surgery may be performed on the lumbar or cervical spine. These discs are designed to mimic the form and function of a natural disc. Younger patients in their 30s - 40s without bone spurs and soft disc herniations at one single disc are the best candidates for ADR/TDR.

DECOMPRESSION/LAMINECTOMY

A lumbar laminectomy, also known as a decompression, is typically performed to alleviate pain caused by neural impingement from lumbar spinal stenosis. The laminectomy is designed to remove a small portion of the bone over the nerve root and/or disc material from under the nerve root to give the nerve more space and a better healing environment.



SURGICAL TREATMENT OPTIONS

MICRODISCECTOMY / DISCECTOMY

In a microdiscectomy surgery, a small portion of the bone over the nerve root and/or disc material from under the nerve root is removed to relieve neural impingement and to provide more room for the nerve to heal. A micodiscectomy is typically performed for a herniated lumbar disc and is more effective for treating leg pain than lower back pain.

SPINAL FUSION (AKA SPINAL ARTHRODES)

This is the joining of two vertebrae permanently using a variety of different approaches and techniques. The most common reason the spine is fused from spinal instability due to conditions such as spondylolisthesis fracture, "tumors, infections, or from planned instability caused by having to remove the facet joints in patients with severe spinal stenosis in order to decompress the nerves. The Spine Center at Concord Orthopaedics works with our patients to select the best techniques for each patient's situation.

The spine can fused from different directions or approaches (i.e anterior, lateral, posterior). The most commonly performed fusion is a posterior lumbar fusion where the lower back is fused from an incision in the back. The sides of the vertebrae and facet joints are exposed and decorticated (the outer surface of the bone is removed, allowing bone to grow outwards).

A bone graft is obtained either from the patient's own bone removed to decompress the pinched nerves (local bone graft), from the patient's pelvis, (iliac crest autogenous bone graft), cadaver bone (allograft), patient's own bone marrow (aspirate), synthetic bone graft or sometimes a hormone which causes bone formation (Bone Morphogenic Protein).

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ORTHOPAEDIC SURGERY CENTER







If Approved, consider the benefits of having an outpatient procedure at one of our Surgery Centers

LOWER COST

Outpatient surgery centers can be less expensive than hospitals.

SAFER AND CLEANER

At our surgery centers, the health and safety our our patients are our utmost priority. To protect every individual who entrusts their care to us, we have implemented a rigorous patient health screening protocol. This protocol is designed to identify and mitigate potential risks, ensuring a safe and secure environment for all our patients and staff members.

SAFER AND CLEANER

Patients are released the same day so they can recover comfortably in their own home.

CONVENIENCE AND ACCESSIBILITY

Physicians are more involved with the surgical process, as a result they can offer better pre and post-operative care.

PREDICTABLE SCHEDULING

Outpatient surgery centers have better control of surgical scheduling. As a result, very few procedures are delayed or rescheduled compared to the in hospital operating room.

ORTHOPAEDIC SURGERY CENTER







The Orthopaedic Surgery Center (OSC) is a collaborative effort between the physicians of Concord Orthopaedics and Concord Hospital. The physicians and anesthesiology team of Concord Orthopaedics work closely with the nurses, and operating room and recovery staff to ensure patient safety and excellence in care.

Day surgery centers - like the OSC - are designed for patients who are safe to come in for, and go home on, the same day as their surgery. The procedures we offer at the surgery center are those which can be performed under local, regional, or general anesthesia, and are deemed safe for a short post-operative observation period followed by an at-home, same-day recovery. At the OSC, we know surgery in any setting can be intimidating, which is why we strive to create an atmosphere that is comfortable, safe, and convenient.

WHO WE ARE

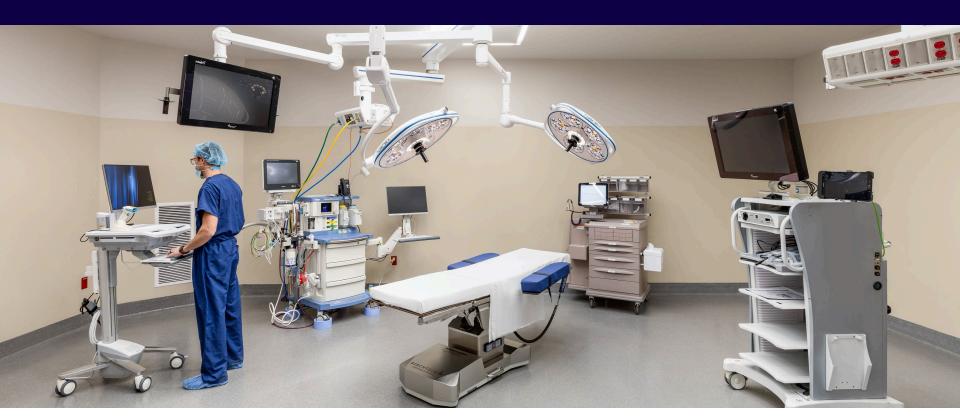


Today, Concord Orthopaedics is the largest private orthopaedic practice in New Hampshire boasting multiple office locations across the state including: 2 Orthopaedic Surgery Centers (OSC) in Concord and Derry and 2 Acute Injury Clinics in Concord and Londonderry.

In January of 2021, Concord Orthopaedics unveiled our brand new Orthopaedic Surgery Center, a freestanding ambulatory (day) surgery center dedicated to providing orthopaedic care in conjunction with Concord Hospital.

Concord Orthopaedics has grown to include over 50 providing specialized orthopaedic care. Physicians specialize in a particular area of orthopaedics including: sports medicine, total joint surgery, spine care and surgery, hand and upper extremity surgery, orthopaedic traumatology, foot and ankle surgery, pediatric orthopaedics, and general orthopaedics.

OUR GUIDING PRINCIPLES



OUR PRACTICE PHILOSOPHY & COMMITMENT

The founding principle of our practice was to create a group of highly skilled and talented physicians who specialize in specific areas of orthopaeidcs. Each of our physicians concentrates in his or her area of interest, developing skills, and experience that would not otherwise be possible. In addition, we have more than one physician in most specialties, allowing our physicians to seek the opinions of additional experts within our practice. There is no substitute for this kind of focus and experience.

At Concord Orthopaedics, we are committed to providing the highest quality of orthopaedic care available in the State of New Hampshire. Our expertise covers all orthopaedic specialties.

LOCATIONS

BEDFORD

166 South River Road Bedford, NH 03110

CONCORD

264 Pleasant Street Concord, NH 03301

DERRY

6 Tsienneto Road, Suite 200 Derry, NH 03038

LONDONDERRY

50 Michels Way, Suite 206 Londonderry, NH 03053

NEW LONDON

247 Newport Road, Suite 101 New London, NH 03257

PLYMOUTH

103 Boulder Point Drive Plymouth, NH 03264

TILTON

614 Laconia Road Tilton, NH 03276

Concord - Orthopaedic Surgery Center (OSC)

116 Langley Parkway Concord, NH 03301



Londonderry - Orthopaedic Surgery Center (OSC)

14 Tsienneto Road, Suite 100 Derry, NH 03836



ONLINE SELF SCHEDULING

Book your appointment online 24/7



- Patients are now encouraged to use our online self-scheduling portal on our website www.concordortho.com.
- Schedule appointments at your convenience.
- Appointments can be booked anytime.

Acute Injury Clinic (AIC)

- No Appointments Needed
- Walk-Ins Welcome
- Extended Hours

CONCORD

LONDONDERRY

264 Pleasant Street

50 Michels Way, Suite 206

Monday - Friday: 9am - 6pm

Saturday: 8am - 1pm * Accepting last patients at 4:45pm

Monday - Friday:

8am - 5:00pm

* Accepting last patients at 5:45pm

ortholive

ORTHO LIVE: Our telemedicine-based orthopaedic urgent care provides you with medical support access to help determine the nature of your injury and if you need immediate assistance. This service is offered 24/7/365 days per year and can help you make decisions for care based on your in jury.

TO ACCESS VISIT: WWW.CONCORDORTHO.COM