

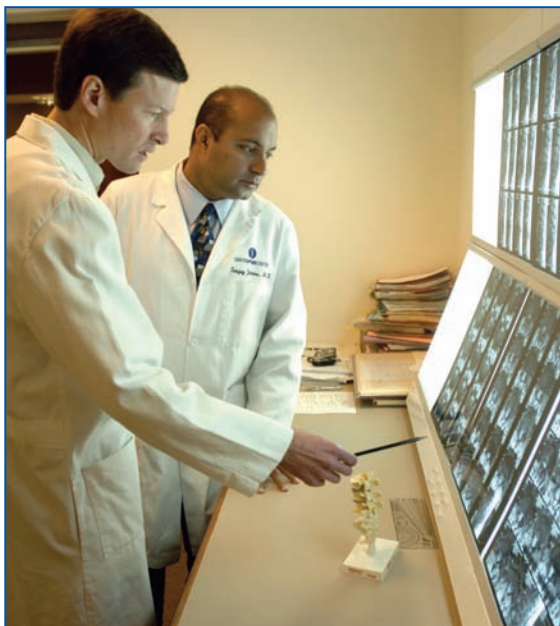


## A multidisciplinary approach to spine care

DenverSpine takes a team approach to spine care. It includes the expertise of nonsurgical care specialists for the management of back and neck pain including physical medicine physicians and spine specialized physical therapists as well as fellowship-trained spine surgeons. These surgeons have advanced training in complex spine surgery and the latest minimally invasive surgical techniques that shorten hospital stay and speed return to activity.

As a multidisciplinary spine center, DenverSpine includes professionals in physical medicine and rehabilitation and spine surgeons. We provide all the necessary diagnostic testing and treatment in one place, eliminating the need for multiple referrals, delayed care and confusion.

Sometimes surgery is the best treatment, especially for those suffering from herniated discs, spinal fractures, spinal deformity, scoliosis and spinal tumor. The surgeons at DenverSpine are referred some of the most complex spine cases from across the Denver region. Because DenverSpine has physical medicine, fellowship-trained spine surgeons and spine therapy all under one roof, the spine center is able to take care of any type of back or neck problem from the simple back or neck strain, all the way to the most complex spine surgery.



### **Gary Ghiselli, MD**

*Board certified orthopedic surgeon  
Fellowship trained spine surgeon*

Dr. Ghiselli is a board certified spine surgeon and his specialties include cervical, thoracic and lumbar surgery with subspecialty in complex deformity and degenerative conditions of the cervical spine. He completed a fellowship in spinal surgery at the University Hospital of Cleveland. Dr. Ghiselli also served as staff physician at the Veterans Hospital of Cleveland Acute Spinal Cord Injury Center.

### **Sanjay Jatana, MD**

*Board certified orthopedic surgeon  
Fellowship trained spine surgeon*

As a fellowship trained spine surgeon, Dr. Jatana focuses on general spinal surgery with special interest and training in the cervical spine. He also specializes in treating patients who require repeat or revision surgery. Dr. Jatana is a Diplomate for the American Board of Orthopedic Surgery and a Fellow for the American Academy of Orthopedic Surgeons.

### **David A. Wong, MD, MSc, FRCS (C)**

*Board certified orthopedic surgeon  
Fellowship trained spine surgeon*

Dr. David Wong is a fellowship trained orthopedic spine surgeon with a specialty in lumbar microsurgery. He serves as Director for the Advanced Center for Spinal Microsurgery at the P/SL Medical Center. Dr. Wong is also an Assistant Clinical Professor of Orthopedic Surgery at the University of Colorado.

### **Scott Bainbridge, MD**

*Board certified Physical Medicine  
& Rehabilitation & Electrodiagnostic Medicine*

Scott Bainbridge, MD is successful in returning back and neck pain sufferers to activity nonsurgically. Dr. Bainbridge completed his residency training at the University of Colorado. He is a Fellow for the American Academy of Physical Medicine and Rehabilitation and the American Association of Neuromuscular and Electrodiagnostic Medicine.

### **Deno Pappas, MD**

*Board certified Physical Medicine  
& Rehabilitation*

Dr. Pappas specializes in diagnosing and treating spine disorders using proven non-surgical methods. He completed his residency at the University of Colorado. Dr. Pappas is also a member of the American Academy of Physical Medicine and Rehabilitation as well as the Physiatric Association of Spine, Sports and Occupational Rehabilitation.

### **Christine Weiler, MD**

*Board certified  
Physical Medicine & Rehabilitation*

Dr. Weiler specializes in nonsurgical spine care and is successful in returning patients to activity without having to resort to surgery. She completed her residency training at the University of Colorado and served as Chief Resident.

A spine center encompassing all the components of a Center of Excellence for spine care:  
 Non-surgical physical medicine | fellowship-trained spine surgeons | spine-specialized therapy  
 spine diagnostics | spinal injection therapy | clinical outcome report card  
 clinical research | minimally invasive spine surgery | artificial disc replacement

## Artificial Disc Surgery

Unlike fusion surgery that locks spinal vertebrae, which can in turn damage adjacent discs above and below the fusion site, artificial disc replacement is designed to retain motion by replicating the function of a normal, healthy disc.

Most artificial disc designs have plates that attach to the vertebrae and a rotational component that fits between these fixation plates. These components are typically designed to withstand stress and rotational forces over long periods of time.

Because of the weight of the body and the rotational stress that the trunk places on discs in the lumbar area, more stress is placed on artificial discs in the lumbar area vs. the cervical area. Another advantage of cervical artificial disc surgery is that the neck area is more accessible in surgery than the front of the lumbar spine, and there is less risk related to artificial disc surgery in the neck area.

DenverSpine is trained in artificial disc surgery and is able to advise if a patient is a candidate for certain type of artificial disc replacement surgery. While the discs shown on the right represent the current FDA approved discs, other artificial disc designs may be available through clinical study.

### ARTIFICIAL DISC OPTIONS FOR OUR PATIENTS



*CHARITE disc for lumbar discs, was the first to receive FDA approval in 2004. In use in Europe for more than 10 years.*



*PRESTIGE DISC for cervical discs, manufactured by Medtronic, FDA approved.*



*PRODISC C for cervical discs*

*PRODISC L for lumbar discs*

## Minimally Invasive Surgery

DenverSpine uses state of the art minimally invasive techniques and instrumentation to help patients recover in a shorter period of time and allow for a quicker return home. In minimally invasive spine surgery, a smaller incision is made, sometimes only



a half-inch in length. The surgeon inserts special surgical instruments through these tiny incisions to access the damaged disc in the spine. For example, DenverSpine surgeons are proficient in the new Lateral Lumbar Interbody Fusion (XLIF) surgery to resolve leg or back pain from disc problems. Unlike traditional fusion surgery which requires a larger incision and hospital stay, XLIF is done through the patient's side with a narrow probe and the patient can go home later the same day. Minimally invasive spine surgery requires extensive training and experience to master use of the tools, but there is tremendous benefit for the patient. The incision is shorter, resulting in less disruption to muscle and tissue as well as shorter hospital stay and quicker recovery time.

## Scoliosis Treatment at DenverSpine

Scoliosis results from an abnormal curvature of the spine when seen from the back. When the curvature is more than 10 degrees, scoliosis is present. Depending on the cause of the scoliosis, a variety of treatment plans are available including nonsurgical options such as bracing or physical therapy. If the disease progressively worsens, surgical options may be necessary. Scoliosis surgery is very complex and must include considerations of spinal balance, spinal stenosis (nerve root pinching), and curve correction. Surgeries can include laminectomy and spinal fusion.

The surgeons at DenverSpine are experienced in the complex problems of scoliosis. Learn more about scoliosis and treatment options available at DenverSpine by visiting our informative website at [www.denverspine.com](http://www.denverspine.com).

## PMR and Spine Therapy under one roof

A physical medicine and rehabilitation (PMR) doctor or physiatrist, specializes in the nonsurgical management of back and neck pain. A physiatrist provides techniques and treatments that allow back and neck pain sufferers to return to activity without surgery. This can include injections that serve two purposes: relief of pain as well

as providing additional diagnostic information about the back or neck pain generator. Injection therapy bridges the patient into DenverSpine's internal therapy gym where patients learn customized stretches and exercises that relieve pain and prevent recurrence of strain. The key is emphasizing return to activity.

