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TEXAS BACK INSTITUTE

Orthopedic Spine Surgery, Physical Medicine and Rehabilitation

What's New in Spine Care

Celebrating 35 years of excellence in spine care, Texas Back Institute is known worldwide for providing the latest, state-of-the-art treatments and technology for neck and back pain. One example is a new FDA-approved neuro-stimulation system which can help provide instantaneous pain relief for patients with chronic pain. This new spinal implant uses the same "human controller" technology which is found in interactive games, such as Wii and smartphones, and can understand whether a patient is sitting, standing, running, or walking and can adjust the level of stimulation accordingly.

Texas Back is on the leading edge of robotic spine surgery and helped develop the first surgical robot in the world designed specifically to operate on the spine. Accurate to less than half a millimeter, it enables surgeons to plan the optimal surgery using a computed tomography (CT)-based 3D simulation of the patient's spine. Surgeons can map out the patient's spinal anatomy and plan the entire procedure before the patient even arrives for surgery. This allows the surgeon to be more efficient and precise and anticipate potential complications before they occur. This technology can be used in biopsies, to treat thoracic-lumbar fusion and vertebral compression fractures, and to correct scoliosis.

"From the beginning, the goal to perform as a center of excellence, integrating the best of science and education with the best business practices, has served Texas Back Institute well and continues to be the backbone of Texas Back Institute's success."

— Stephen Hochschuler, Co-founder, Texas Back Institute

The goal for any spine surgery patient is to be able to get back to living an active lifestyle while retaining as much motion as possible. Both of these goals can be achieved through artificial disc replacement. This surgery allows patients to continue their dynamic lifestyle by combining a motion-preserving technology with a minimally-invasive approach. Surgeons at the Texas Back Institute were the first in the U.S. to use this technology in a clinical trial in 2000 and have continued to be on the forefront of artificial disc replacement surgical techniques. As we get older, the discs in our spine begin to dehydrate and degenerate which can cause pain and numbness in the arms, legs, shoulders, neck, and sometimes hands. The artificial disc is designed to restore proper spacing between the vertebrae and also preserve the motion of a healthy disc. Texas Back participates in numerous clinical trials involving artificial disc replacement. Many of these trials have an immediate positive impact on patients. Our experience shows faster patient recovery while preserving motion in the spine. Minimally-invasive spine surgery has been a philosophy of Texas Back Institute since its inception and continues to be the goal with every patient.

The physicians at Texas Back Institute are leaders in surgical and nonsurgical treatment options for back and neck pain, from the most common outpatient procedures to the most complex cases. Thanks to advanced diagnostic testing and an unparalleled commitment to patient care and satisfaction, physicians can identify potential causes of your back and neck pain and create a treatment plan for your specific needs.

Texas Back Institute has locations in Plano, Frisco, Arlington, Denton, Flower Mound, Fort Worth, Mansfield, McKinney, Rockwall, Trophy Club, Midland, and Wichita Falls.

Texas Back Institute Multidisciplinary Spine Center

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