



# STEM CELL THERAPY



## WHAT IS A STEM CELL?

Stem cells are the basic cells in the body that have the potential to become any other cell or tissue in the body. Given the right stimulation, they differentiate into cells that make bone, tendon, cartilage, ligaments etc. As we get older, there are less of these available and they live in the bone marrow and fat. They also have anti-inflammatory properties as well as many other healing effects that make stem cells an exciting alternative to treat many disorders, especially sports related injuries and arthritis.

## BENEFITS OF STEM CELL THERAPY

Stem cell therapy is an excellent option as an alternative to surgery, especially joint replacement. It is also excellent to help heal degenerative tendon and tendonitis, rotator cuff injuries and many other ailments, both chronic and acute. The procedure is all done in your doctor's office or a stem cell center, takes less than an hour and does not require any special recovery protocols. You can return to regular routine right away, but it can take up to 6 weeks to see the effects. Many patients have experienced relief within a few days. As this is minimally invasive, it does not carry the greater risks of surgery or the lengthy recovery that follows.

## WHARTON'S JELLY DERIVED STEM CELLS

GeneXStem™ is derived from the Wharton's Jelly of the umbilical cord and can be used to supplement or replace damaged or inadequate connective tissue and for pain relief.

Wharton's Jelly is a gel-like tissue that insulates and protects the umbilical arteries and vein. Wharton's Jelly contains a high concentration of long-chain hyaluronic acid, and growth factors. Patients can have significant relief from symptoms after using these injections.

## Common Treatment Areas

- Large joints (Knee, Hip, Shoulder & Ankle)
- Chronic partial rotator cuff tears
- Persistent partial tendon tears (Tennis Elbow)
- Plantar fasciitis / Bone Spurs
- Quadriceps and patellar tendon tears
- Muscular tears
- Meniscus and cartilage tears
- Intervertebral disc and spinal facet joints
- Radicular and Sacroiliac nerves



## CAN STEM CELLS HELP TREAT YOUR PAIN?

If you are suffering from knee or shoulder pain, generally stemming from mild arthritis, stem cell injections may be a suitable option for you. It is an immediate and less invasive option for those looking to avoid surgery. Please contact Dr. Bayless or Dr. Sanders of Irving Orthopedics & Sports Medicine today to schedule your consultation and determine what is the best option to help you get back in the game. The use of the GeneXStem™ product is less invasive when compared platelet rich plasma (PRP) procedures, bone marrow aspiration, or adipose tissue extraction. This results in less pain for the patient and a much shorter procedure time.

GeneXStem™ is processed from donated human tissue from full term, c-section deliveries in accordance with the FDA. It is regulated as a human cell, tissue, or cellular or tissue-based product (HCT/P) under 21 CFR Part 1271 and Section 361 of the Public Health Service Act.

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