

Because life moves.



Adipose Stem Cell Procedure



CENTRAL INDIANA
ORTHOPEDICS

An alternative treatment
for patients with joint pain

Stem cells are your body's natural healing cells. They are recruited by chemical signals emitted by damaged tissues to repair and regenerate your damaged cells. Stem cells derived from your own tissues may be the next major advance in medicine. Central Indiana Orthopedics Stem Cell Treatment Center (CIOSCTC), in association with California Stem Cell Treatment Center™ and the Cell Surgical Network™, has the technology to produce a solution rich with your own stem cells as a non-surgical option to treat joint pain. Under investigational protocols, your stem cells can be deployed to treat a number of degenerative conditions and diseases.

Types of Stem Cells

A stem cell is any cell that can replicate and differentiate. This means the cell can not only multiply, it can turn into different types of tissues. They have the potential to recognize tissue injury and repair injured cells. In the right environment, stem cells can change into bone, cartilage, muscle, fat, collagen, neural tissue, blood vessels and even some organs. Adult stem cells appear to be particularly effective in improving joints, repairing cartilage and ligaments, and even painful conditions along the spine.

There are different kinds of stem cells. Embryonic stem cells are cells from the embryonic stage that have yet to differentiate. These are then called “pluri-potent” cells. We do not use embryonic stem cells in our treatments at Central Indiana Orthopedics Stem Cell Treatment Center.

Another kind of stem cell is the “adult stem cell”. This is a stem cell that already resides in one's body within different tissues. Much work has been done isolating bone marrow derived stem cells. These are also known as mesenchymal stem cells. They can differentiate into bone and cartilage, and other mesodermal elements, such as fat, connective tissue, blood vessels, muscle and nerve tissue.

As it turns out, fat is also loaded with mesenchymal stem cells. In fact, it has hundreds if not thousands of times more stem cells compared to bone marrow. We have technology that allows us to separate adipose stem cells (stem cells from fat), and use them right away.

Healing Abilities of Stem Cells

These adult stem cells are known as “progenitor” cells. This means they remain dormant unless they witness some level of tissue injury. The tissue injury activates them. When a person has a degenerative type problem, the stem cells tend to go to that area of need and stimulate the healing process. We are still researching how they heal; whether they simply change into the type of injured tissue needed for repair or if they send out signals that induces the repair by some other mechanism. There are multiple animal models and a plethora of human evidence that indicates these are significant reparative cells.

There are many active clinical trials with stem cells. Find a list of our ongoing clinical trials at stemcellrevolution.com.





CIOSCTC Treatment

Central Indiana Orthopedics Stem Cell Treatment Center (C IOSCTC) uses adipose-derived stem cells for deployment and clinical research. The best quality adipose cells are derived from the enzymatic digestion of liposuctioned fat which can be performed at the bedside in an essentially closed system to protect sterility. Once the adipose-derived stem cells are administered back into the patient, they have the potential to repair human tissue.

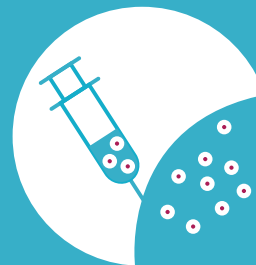
Our procedures are minimally invasive and done under local anesthesia. Patients looking for alternatives to surgical procedures for their degenerative disorders and musculoskeletal injuries can participate in our trials by filling out our treatment application to determine if they are candidates. C IOSCTC is proud to partner with the Cell Surgical Network™ to be state-of-the-art in the new field of Regenerative Medicine.

Stem Cell Harvesting Procedure

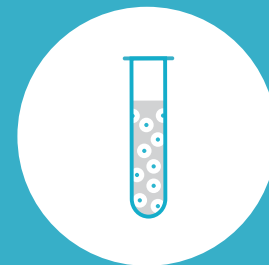
C IOSCTC can harvest your own adipose cells, break down the collagen that binds the fat and stem cells and then separate out a solution rich in your own stem cells.

Fat can be harvested from any area on your body that has an adequate fat supply, and we prefer to harvest it from the areas that will give you the best cosmetic result. The procedure requires mini-liposuction, done under local anesthesia, which takes less than twenty minutes. The processing of the cells is done under a completely closed, sterile system that is not exposed to air. Viable cells are then counted and photographed for your records. One of our physicians will inject the cells. This is called "deployment". Because it's your own DNA material, there can be no rejection. A solution rich with your tiny stem cells is administered through injection into tissues, joints or veins. The entire procedure takes less than three hours.

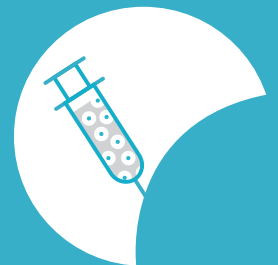
This technological breakthrough allows patients to safely receive their own stem cells in extremely large quantities. Our treatments and research are patient-funded and we have endeavored successfully to make it affordable.



Harvest Fat Cells



Preparation



Deployment

Effectiveness of Stem Cell Therapy

Early stem cell research has traditionally been associated with the controversial use of embryonic stem cells. The new focus is on non-embryonic, adult mesenchymal stem cells because of their ability to form cartilage and bone. This makes them potentially highly effective in the treatment of degenerative orthopedic conditions. Their ability to form new blood vessels and other tissues makes them suitable for mitigating a large number of traumatic and degenerative conditions.

Stem cells from a person's own fat are abundant, yielding quantities up to 2,500 times more than those seen in bone marrow. Clinical success and favorable outcomes appear to be related directly to the quantity of stem cells deployed.

In an effort to provide relief for patients suffering from certain degenerative diseases that have been resistant to common modalities of treatment, we have initiated pilot studies as investigational tests of treatment effectiveness with very high numbers of adipose-derived stem cells.



Obtaining the Procedure

At this time, the cost of investigational stem cell treatments is not covered by insurance companies. We are patient-funded and we have no source of grants or pharmaceutical company funding. Our goal is not to patent stem cell technology for corporate profit, but rather to learn the medical potential of these cells and contribute to the science of regenerative medicine. We have set our fees reasonably to lower the threshold of access to stem cell medicine. Our fee covers the entire procedure and includes harvesting, isolating cells and deployment of your own cells. Under special conditions, your stem cells may be cryogenically stored for future treatments. You might be able to use your health savings account for this procedure.



CIOSCTC, CSN and Adipose Stem Cell Therapy

Our aim is to make cell-based medicine available to interested patients and to provide ongoing research data under approved Institutional Review Board (IRB) validated studies.



Call for a consultation
800-622-6575

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