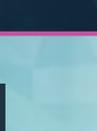




UNLOCK THE POWER OF HEALING FROM WITHIN



STEM CELL THERAPY

A PATIENT'S GUIDE TO NON-SURGICAL HEALING

INNOVATIVE INTEGRATIVE INTELLIGENT MEDICINE

REVERSING THE EFFECTS
OF AGING AND DEGENERATION

FROM ATHLETES TO ELDERLY
INDIVIDUALS



WHAT IS REGENERATIVE MEDICINE?

Regenerative medicine is the latest, and most exciting, specialty in healthcare focusing on enhancing the body's ability to regenerate healthy tissue and overcome disease processes. Stem cell therapy is a primary means of promoting regeneration of healthy tissue. Stem cells, by definition, are unspecified cells that can self-renew or duplicate and have the ability to mature into various tissues such as heart, liver, bone, muscle, cartilage, etc. In addition, research continues to provide more details showing that stem cells have the added ability to communicate to other cells in the tissue to promote the healing response. Stem cells may be used alone or in combination with other therapies to successfully renew, rejuvenate and revitalize.

Stem cells may be termed **autologous** or **allogenic** based on the source of the cells. Autologous cells are taken from a patient's body and reintroduced to the same patient's body. Allogenic are taken from one body and introduced to a different body. Allogenic is **not acceptable** under the current regulations in the United States, which means that you may not take cells from one individual and use them for another.

There are many questions as to why some things are allowable while others are not. Transferring stem cells from one individual to another is not acceptable under the United States guidelines, because of the risk associated with rejection, called graft versus host disease, where the recipient of the donated cells would have a negative reaction to them, because they are "foreign" to that body. This is not a risk when an individual's own stem cells are used.



**"WE ARE NOT
MADE FROM
DRUGS,
WE ARE
MADE FROM
STEM CELLS"**

SO HOW DO WE OBTAIN STEM CELLS FOR USE?

Adult stem cells can be obtained in a same-day office procedure by a physician harvesting directly from the patient. This can be accomplished by extracting a small amount of bone marrow or adipose (fat) tissue, then processing the tissue to separate the stem cells to be reintroduced in desired area of the body. In some cases, cells are obtained via apheresis which when blood is withdrawn, and the cells are separated from the plasma, then reintroduced into the body; but this method is uncommon due to low cell count. Common means of administration of stem cell therapy include injection, intravenous (IV) or inhalation.

WHAT TYPES OF MEDICAL CONDITIONS CAN BE HELPED WITH STEM CELL THERAPY?

The possibilities of conditions helped with stem cell therapy are almost limitless, because it is allowing the body to accomplish the healing. Some of the many conditions that can be helped are: **osteoarthritis** (OA), intervertebral discs, muscles, bones, ligament, and tendons; **Autoimmune conditions** such as lupus, rheumatoid arthritis (RA), dermatomyositis; **Neurodegenerative conditions** such as MS, Alzheimer's, Parkinson's, spinal cord injuries, neuropathy and nerve injuries.

Wounds, burns, scars, ulcers, **gastrointestinal disorders** - IBS, ulcerative colitis, or Chrons's disease, heart disease, lung disease, liver disease, kidney disease, sexual dysfunction (inorgasmia), urinary incontinence, complex regional pain syndrome, chronic pelvis pain, and vulvodynia can be helped with stem cell therapy.

Stem cell therapy also has **aesthetic** capabilities for non-surgical treatment of fine lines and wrinkles, signs of aging, facial volume loss, stretch marks, cellulite, hair restoration, and erectile/sexual dysfunction or enhancement.

In some common forms of treatment, stem cells are simply injected at a problem site in the body, such as a joint, with the assumption that those stem cells are going to grow new healthy tissue. This is a **misconception** because the stem cells will only remain in that area for a very limited period of time. Within one to two weeks, 99% of those cells will leave the joint.

The regeneration of healthy tissue is not directly related to the stem cell, but rather, what the stem cell leaves behind. All stem cells have tiny vesicles or bubbles which transfer from one cell to another and communicate information. These vesicles are called **exosomes**. They are critical to the proliferation of healthy cells. Though the stem cells leave the area where they are placed, they leave their exosomes behind and are taken up by neighboring cells passing on the information.



**TREAT THE ROOT
CAUSE OF
DISEASE
RATHER THAN
THE SYMPTOMS**

WHILE STEM CELLS ARE GETTING ALL THE ATTENTION, EXOSOMES ARE JUST AS IMPORTANT, IF NOT MORE IMPORTANT, IN THE DEVELOPMENT OF HEALTHY TISSUE.

THERE ARE A FEW COMMON "TOOLS" IN REGENERATIVE MEDICINE: Dextrose Prolatherapy, Ozone, Platelet rich plasma (PRP), placental or amniotic tissue, umbilical cord, bone marrow concentrate (BMAC), Adipose (Fat) Derived Stromal Vascular Fraction (SVF), and exosomes. There are pros and cons to each of these sources of regenerative medicine. Of these tools, only bone marrow and fat contain mesenchymal stem cells (MSCs). While umbilical cord tissue has a small amount of mesenchymal stem cells, it is minimal compared to bone marrow and fat tissue. The other problem with cord tissue and amniotic tissue is that they are allogenic, meaning that they are not from the patient's own body. They are from another source, which carries some risk, as previously discussed. Bone marrow and fat tissue are superior to the other sources of stem cells because they are harvested directly from the patient's own body and have the highest number of mesenchymal stem cells and growth factors.

It is obvious that bone marrow and fat tissue are the best source of adult stem cells due to the high cell count found in this tissue, and the fact that it is the patient's own cells. The most powerful solution is the combination of stem cells and additional exosomes.



**REVERSE THE
AGING PROCESS
FROM THE
INSIDE OUT
WITH STEM
CELL THERAPY**

SO HOW CAN WE ACHIEVE THE OPTIMAL SITUATION TO AID ONE'S BODY TO GROW HEALTHY TISSUE WHERE IT PREVIOUSLY HAD NOT?

This can be best accomplished by using mesenchymal stem cells harvested from a patient's own body and combining it with additional exosomes. **Exosomes are not cells.** They are tiny vesicles or bubbles, that are the secreted from cells, which carry all of the information (growth factors, cytokines, mRNA, microRNA, enzymes, mitochondria, and more) of the cell and pass it on to other cells. Exosomes are available from an FDA approved tissue lab. The lab cultures stem cells and then collects the exosome concentrate. It was once believed that exosomes were just the waste products of cells. We now know that they are of vital importance in regeneration of healthy cells. Exosomes are currently being heavily researched as a stand-alone treatment for systemic disorders that are more heavily influenced by a molecular signaling cascade.

Not all treatment surrounding stem cells are the same, and should therefore be. Treatment should be based on each individual's medical condition being addressed, severity of the condition, and consideration of other medical conditions of the patient discussed in detail with a trusted doctor.

Some treatment is done once, and the patient can accomplish good results. Often there is more than one treatment involved in order to accomplish successful outcomes. Each patient and each problem must be evaluated on an individual basis, and treatment must be selected appropriately to accomplish a desired outcome.

Aging is inevitable; it's actually due to the loss of circulating and tissue specific stem cells that cause the steady decline in tissue and organ function. Regenerative medicine allows us to naturally self-heal again. It is a treatment which stimulates healthy cell growth, thereby correcting age-related decline and fix damaged tissues.

In summary, this is a very exciting time in healthcare, where we can finally treat degenerative medical conditions and other chronic diseases rather than just manage the symptoms and watch them progress. The time to put down the drugs and surgery is upon us and live life again!

YOUR HEALTH IS IN YOUR HANDS

Don't miss an opportunity to be proactive in regaining your health!

**LOOK BETTER
FEEL BETTER
NATURALLY**
WITHOUT DRUGS OR SURGERY

SCHEDULE A COMPLIMENTARY
DISCOVERY CONSULTATION



DR. STEVEN SORR IS A REGENERATIVE AND FUNCTIONAL MEDICINE SPECIALIST GIVING A UNIQUE ABILITY TO REVERSE DISEASES AND KEEP THEM FROM COMING BACK.