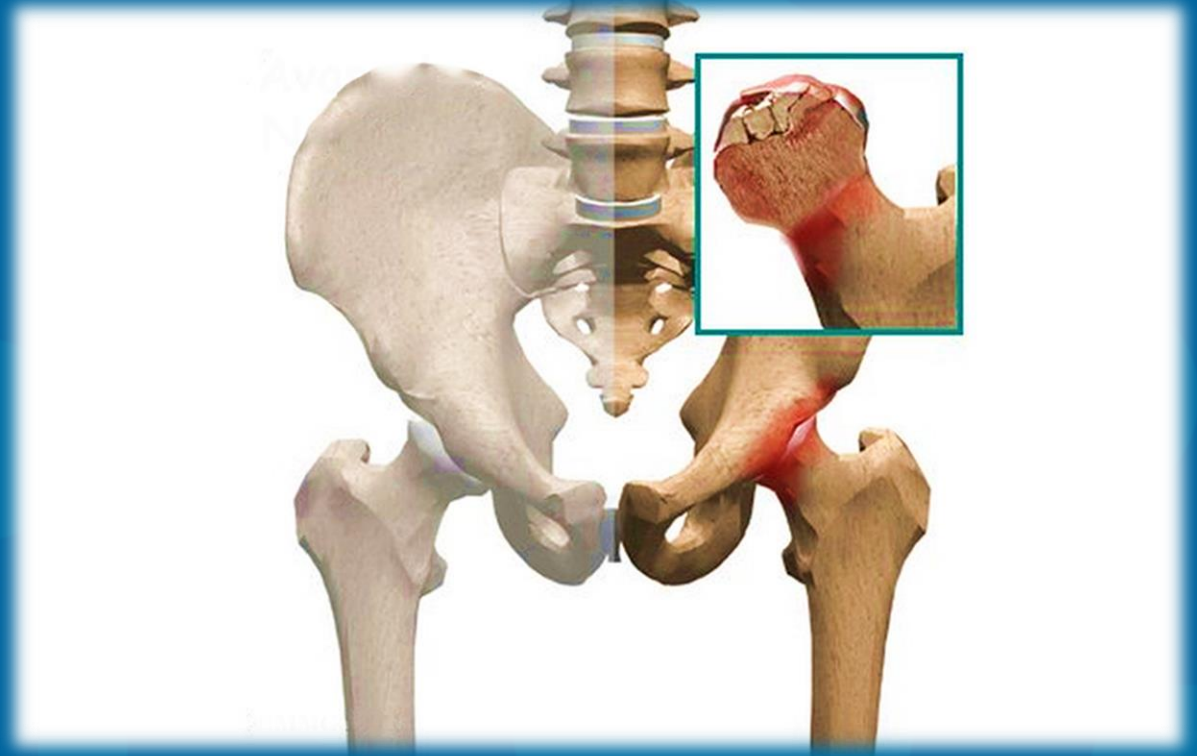




**Global
Stem Cell
Care**

Avascular Necrosis



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Overview

Avascular necrosis, also known as osteonecrosis or bone infarction, is the death of bone tissue because of the obstruction of its natural flow. Initially, you may not notice any warning signs such as throbbing pains; yet it will slowly begin to manifest itself in how much movement you are capable of doing without feeling too many aches and pains. As time goes on complications arise such as the bones becoming brittle and weak, or even collapsing completely if left untreated for too long.

Risk factors include bone fractures, joint dislocations, alcoholism, and the use of high-dose steroids. The condition may also occur without any clear reason. The most commonly affected area is the femur with other notably frequent sites including the upper arm bone, knee, shoulder, and ankle. Diagnosis typically requires medical imaging such as an X-ray, CT scan, or MRI while biopsy has been shown to be rare at best.

Medication for this condition includes not walking on the afflicted leg, stretches, and possible surgeries are only some of the ways doctors treat patients with femoral neck fractures. Surgery is often needed to get back to living a normal life; it could involve core decompression, osteotomy (surgical correction), bone grafting, or joint replacement (replacement) all of which have their own dangers. To avoid these, patients can opt for stem cell treatment for Avascular Necrosis in Delhi, India at Stem Cell Care India.

Symptoms

Intermittent pain that changes the intensity of its presence when you put pressure on your bone and then remove it.

Increasing discomfort and stiffness of joints.

Limited mobility.

Limping in hips or knees.

Difficulty performing physical tasks such as climbing stairs, standing, or walking.



Cause

An injury or trauma to a joint or bone such as an accident can disrupt the surrounding blood flow and destroy the veins near it.

The fatty deposits (lipids) can form an obstruction in the small blood vessels that will result in no blood supply to the bones.

There are many conditions where there is a decrease in the flow of blood to bones such as Gaucher's disease and sickle cell anemia. Radiotherapy which treats cancer may also lead to damage to the blood vessels and weakening of the bones.

One-fourth of those diagnosed with avascular necrosis do not know what caused it.

Diagnosis



- X-rays
- MRI and CT scan
- Bone scan.

Adverse Reaction

We comprehend that patients might have apprehensions about adverse reactions to the treatment. Possible side-effects of stem cell therapy may differ from individual to individual; any complications depend upon the type of processes you are undergoing.

Side-effects experienced by our patients are consistent with predictable reactions for routine IV and LP injections. The most common reactions to the treatment are fever, headache, diarrhea, leg pain, vomiting and allergic reactions. Less than four percent of patients experience any of these signs.

The most common reactions to the stem cell treatment are:

Fever

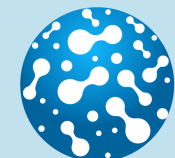
Headache

Leg Pain

Diarrhea

Vomiting

Allergic reactions



**Global
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Day 1-

- ## Day 2-

-
- A colorful illustration of a healthcare facility. On the left, a male nurse in a green uniform assists an elderly female patient with a walker, while a male doctor in a white coat holds a red folder. In the center, a female receptionist in a blue uniform stands behind a white reception desk with a computer monitor. To the right, a female nurse in a blue uniform adjusts an IV drip stand for a male patient sitting on a green hospital bed. The background is a light blue wall with a window.



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International Patient Facilities

- Visa assistance letter
- Dedicated guest relation officers
- Coordination of the admissions process



Treatment



The majority of the cases of AMD involve the slow-developing type of AMD, called dry AMD. Currently, as of 2020, there are no treatment options available for dry AMD, but some promising new therapies are in it. The slow-developing form of AMD, called dry AMD, constitutes the majority of AMD cases. There are no treatment options currently available for dry AMD as of 2022, but some exciting new treatments are in the pipeline.

For all aspects of medicine today, including multiple cases of cancer, as well as for dry AMD, stem cell treatment is gaining momentum. The aim of stem cell treatment for AMD is to be able to replace retinal cells that have been damaged or killed by symptoms with new stem cells.

Stem cells are also inserted, through IV infusion, into the blood supply of the body. But, experts are focusing on how the stem cells can be transplanted directly into the eyes. One strategy involves placing the stem cells into a fluid suspension that can be injected under the retina

We use the unique technology of Mesenchymal stem cells extracted from Wharton's jelly (WJ) for treating MS. WJ-MSCs offer remunerative and budget friendly favorable treatment for tissue engineering purpose. An optic nerve stem cell regeneration aids this and more. They might help in the three peculiarly prominent ways – prevent damage, repair damage and develop new medicines.

The treatment will take place in multiple steps comprising of the following.

•**Qualification for the treatment:** Our experts will assess all your past medical history and symptoms to examine and correctly judge the severity of your condition. A series of tests will be performed to gain a knowledge of the stage of disease. As per the test results, our experts will counsel the patient for further process of the procedure.

•**Source Extraction:** With guidance and approval from the physician, the source of extraction will be decided. In general, WJ-MSCs are the most potent allogenic sources available. Stem cells from a healthy person (the donor) are transferred to the patient's body. A bone marrow donor is considered for allogenic stem cell transplantation. A scraping from the inside of the patient and his or her sibling's cheek is tested to determine tissue type. An expert will examine to identify Human Leukocyte Antigens (HLAs). If the HLA on the donor cells are identical or similar, the transplant is more likely to be successful. Stem cell for optic nerve atrophy is promoted to aid patients suffering from similar kind of ailment.

•**Laboratory Processing:** The extracted samples will be sent to government approved cGMP laboratory for processing. The sample manipulation will take place in a state-of-the-art facility in compliance with the ISO and GMP standards and using the latest technologies. The client will receive a third party certificate from an internationally accredited lab for quality purpose. An optic nerve stem cell therapy provides just that and more.

•**Stem Cell Implantation:** Once the stem cells are ready to be implanted, the doctor will identify the most potent method of infusion based on the patient's physical and mental well-being. The only limitation of the allogenic stem cell treatment is that this procedure carries the risk of developing Graft vs. host disease (GVHD), wherein the patient's body rejects the donor stem cells. Human leukocyte antigens (HLA) can help minimize the risk of any side effects. In this procedure, the HLA of the patient and the donor are primarily matched as closely as possible.

Stem cell treatment Aftercare: The patients will be asked to visit the doctors for evaluation. You will be provided counselling for speedy recovery and also kept on check to ensure that no side effects affect the human body.

Stem cells can help restore the weakened retina and can contribute to a complete halt in the process of loss of vision, thus enhancing the general quality of life of humans. The new doors to the cure and changes in Macular Degeneration patients have been opened through Stem Cell Therapy.

Program for Stem Cell Therapies to treat multiple diseases. Each patient receives 200-300 million stem cells during the stem cell procedure. Not only does the sum of stem cells compensate everyday losses, but it beats them by a million times. The stem cell source, which has basically been missing for the last 15 to 20 years, is thus retrieved and revived. Different organs get rejuvenated following our stem cell injection, and they get revived when the new and activated stem cells replace the old ones fully.

Introduced into the retrobulbar space, stem cells may start to work on damaged tissue and begin to rejuvenate the optic fibers and retinal cells. Photoreceptors and other cells can be differentiated from mesenchymal stem cells. It is possible to use segregated stem cells to treat tumors in the macular and retinal cells.

- ❑ • There are three stem cell classes that vary, based on their position in the body and their potency (the ability to develop in different cell lines). Ophthalmologist performs experiments on both of these classes. Embryonic stem cells (ESCs) are cells that are found at an early stage of development in the inner cell mass of an embryo. ESCs are pluripotent, meaning that in the course of growth they will become any cells.
- ❑ Fetal stem cells. Following an abortion or from cord blood, this community of cells is removed from the fetus. Fetal SCs have greater functionality than adult SCs and are pluripotent. Such cells exhibit increased recovery rates of photoreceptors and are capable of sustained doubling during cultivation. Their use, however, is often synonymous with ethical concerns. Study on fetal cells is banned by law in many countries worldwide.
- ❑ Adult stem cells, found in mature tissues, are immobile and non-specialized cells. Adult SCs collaborate with new ones to replace dead cells and facilitate tissue regeneration. Nonetheless, they create a microenvironment for tissues, shield them from degeneration (destruction), and also have the capacity to self-renew and create mature cells. Hematopoietic stem cells, mesenchymal stem cells, and neural stem cells may be differentiated by multiple forms of SCs.
- ❑ Relevant antigens, which are a common cause of incompatibility between donor tissues and the recipient during transplantation, are still not generated. ESCs may be useful in managing retina degenerative disorders, retinal pigment epithelium pathologies, and optical neuropathies. Research on ESCs is banned at the regulatory level in many countries, as their extraction from the embryo interrupts its further production.



Mechanism



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Patient Testimonials



Nancy Dubey (Tiruchirappalli, Tamil Nadu)

I had avascular necrosis in my hip joint. I was in a lot of pain, and I was worried about other side effects of the surgery. I found stem cell treatment for avascular necrosis on the internet and I decided to give it a try. I got treated at GSCC at an affordable price. I am now able to walk and do my work without much pain. I am very grateful for your guy's assistance.

Vera L. Weiner (Sacramento, California)

The treatment was very effective. I had avascular necrosis with a bone spur in my hip. The treatment is effective, more evidence-based, and less painful. The stem cell treatment has been done and I am more confident, my hip pain is gone, and I am more active and energetic than I was before. I recommend stem cell therapy for all patients with avascular necrosis.

Virginia Thompson (Batavia, New York)

GSCC is a really amazing clinic for stem cell therapy of avascular necrosis in India. I at first thought that it will make a difference but not too much. In reality, it's been only a few weeks since my treatment, already I am a lot better. I am thankful to the doctors there for taking care of me.

Patient Testimonial



PUSHKAR SHAMSHER

came Nepal for Avascular Necrosis of Femoral Head Bilaterally Treatment

I have a kidney problem since a long time ago. Pain in the area and problem urinating. I have been on pills for a long time now, which apparently affected my hip bone. Hip problem has now been an issue for more than 2 years. I visited an orthopedic doctor and got operated on using injections. I got to know about stem cell treatment from my sister, so came here for the procedure and the experience has been satisfactory.



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info@globalstemcellcare.com
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Patient Testimonial



MR. ALI

From Australiacame for Chronic Adrenal Hyperplasia with Oligospermia

My name is Ali and I came from Australia to take stem cell therapy for Chronic Adrenal Hyperplasia with Oligospermia at GSCC. I have tried several treatments including IVF several times but didn't get any improvement. But after taking stem cell therapy at GSCC, I'm feeling improvement in my condition. I'm very happy with their treatment.



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Improvement



It's frightening to envision a life without a clear central goal, but there's reason to be hopeful. Doctors are also searching at ways to improve patients with this condition, and they're researching experimental therapies that may one day be used as a therapy. For instance, stem cell development is currently ongoing, with the potential to lead to a cure in the future.

Before these groundbreaking therapies become a reality, it's important to speak with an experienced doctor who will guide you through current procedures for the type of macular degeneration you have already. We have physicians available to work with you, and our doctors will use cutting-edge procedures to keep your eyes as healthy as possible. Patients' effects have changed as a result of stem cell therapy provided by Stem Cell Treatment India.

Our Promise

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Post Treatment Care

Postoperative care

The stem cell therapy does not damagingly affect patients in any way. Generally, the patients are permitted to leave after few hours after the completion of the stem cell treatment. A 24-hour patient hotline number is there for any inquiries after their discharge. The concerned physicians or surgeons of the clinic also stay in contact with their corresponding patients through telephone or email. By doing this, they can get the precise feedback about their progress and also suggest further recovery if required. Say for example, in case of a diabetic patient, after hearing about the patient's present symptoms, the concerned doctor can recommend the needed dosage of insulin.

Treatment disclaimer

It is an imperative fact to comprehend that stem cell treatment in every prospect has the ability to diminish symptoms of numerous diseases. It also has the aptitude of ceasing several degenerative procedures, but one should also know that this treatment may not work for all kinds of patients. GlobalStemCellcare does not have the right of forecasting or warranting the success of this treatment.

In harmony to the current condition of a patient, the medical team of GlobalStemCellcare might propose the stem cell transplantation or may even withdraw the treatment under abnormal situations. However, in any case, the approval of the patient is a must. Keeping the patient's current health condition and unforeseen health hazards in mind, the medical staff might propose an alternative stem cell transplantation process. In exceptional situations, they may entirely cancel the treatment.



How effective is stem cell therapy for people with avascular necrosis?

In conclusion, the mesenchymal stem cells in the form of can provide both pain relief and an increase in functionality for those diagnosed with AVN of the femoral head.

How long does it take for stem cells to heal the hip?

In general, stem cell administration and hospitalization take 3 days, after which patients are suggested to maintain a less physical intensive lifestyle for a week or two. This helps in boosting the effects of stem cells, but the patents overall condition could also take more than a year to improve depending on its severity.

Can AVN be cured without surgery?

Stem cell therapy is a promising minimally invasive method of healing the dead tissue around an AVN lesion. This treatment option can also stop the progression of avascular necrosis (AVN) and avoid total hip arthroplasty surgery.

Which treatment is better, PRP or stem cell therapy?

Unlike PRP Therapy, which utilizes only growth factors to initiate the body's repair response, Stem Cell Therapy also stimulates stem cells' ability to regenerate and hence is a better treatment modality.

Is stem cell therapy painful?

Yes, but not too much. Stem cell therapy for back, knee, shoulder, or joint pain could be minimally painful, but that pain is nothing compared to what the patient has to otherwise undergo in surgery.

What can't you do after stem cell therapy?

Any forceful rotation or extensive physical movement should be avoided. Keep in mind that proper healing over the first two months following the treatment will offer you the highest chance of success. The cells are delicate, and you must be careful not to overload them or subject them to undue stress or shearing.



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As a stem cell company at the cutting edge of Regenerative Medicine, GSCC is dedicated to developing technologies and protocols for safe and effective treatments utilising adult stem cells derived from the umbilical cord.

StemCellCareIndia offers a comprehensive range of stem cell solutions in India for the treatment of different kinds of diseases. Our main focus is helping people get back to good health through stem cell treatment. We have association with the leading hospitals, research institutions and medical colleges specialising in regenerative medicine to offer cost – effective healthcare.

Around the world, emerging technologies and advancements in stem cell therapies are driving major changes in healthcare. With the use of potent mesenchymal stem cells isolated from the tissue of umbilical cord, damaged cells are replaced by new cells. This makes the symptoms of the diseases disappear. We are passionate about the latest developments in stem cell therapies and strive to deliver safe and effective treatment options to patients' world over at the highest medical standards.

As the leading stem cell therapy company, StemCellCareIndia takes care of each and every section of the Medical Trip to New Delhi. We ensure our patients get the best healthcare service by bringing in place, the renowned multispecialty hospitals, latest stem cell treatments, economical accommodations and travel options for the patients.

VISION

Our vision is to provide effective healthcare services to patients all over the world fast and hassle-free. For this, we work closely with some of the best medical centres and research institutions in providing stem cell therapeutic solutions to our patients. Our work is to redesign and deliver the best treatment possible for the safe and fast recovery of patients and make their journey towards 'good health' as stress-free as possible.

MISSION

Our mission is to provide the international patients visiting in New Delhi, the satisfaction of best treatment for any kind of disease. The face of healthcare has changed over the years and so, have the healthcare costs. We have a professional team that takes care of every need of international patients, from appointment to accommodation. Through our network of internationally accredited hospitals and research clinics, we provide reliable and bespoke assistance. Seeing patients getting healthier and happier is what make us happy.

ORTHOPEDIC

Orthopedic problems are disorders linking to the musculoskeletal system. They might involve the bones, muscles, cartilages, connective tissues or joints. Orthopedic problems might be pathological like fracture, dislocation and tumors; degenerative like osteoarthritis, osteoporosis or inflammatory autoimmune disorders like rheumatoid arthritis, gout, systemic lupus erythematosus (SLE). Long term joint pain, muscle or tendon pain can be exasperating. These pains lead to some of the most common musculoskeletal complications and they can be because of strains, sprains and overuse. The pain is most common on shoulders, back, knees, hip and ankles. It might be a worthy idea to seek medical support when the pain takes a bit longer to subside so you can decrease the chances of it developing into a more serious issue.

Orthopedic stem cell treatment deals with anything that is concerned with muscles, ligaments and joints via stem cells. Any disorders that affect these three portions of the body involve an orthopedic surgeon. Some of these ailments include injuries and sicknesses of the knee, dislocated shoulders, torn cartilages or foot pain.



SUPPORTIVE THERAPIES

Global Stem Cell Care is unlike any other stem cell treatment provider in the world, the reason? Since its inception, we have been developing and enhancing our stem cell treatment protocols with the notion that stimulation via a number of supportive therapies is essential to augment stem cell regenerative response. Our treatment methodology permits our patient to maximize their improvements. Learn more about the diverse therapies provided in our treatment practices.

ACUPUNCTURE

Acupuncture is a method in which practitioners stimulate particular points on the body – most often by inserting thin needles via the skin. It is one of the most effective practices used in old-style Chinese medicine. Acupuncture arouses nerve fibers to convey signals to the spinal cord and brain, stimulating the body's central nervous system. The spinal cord and brain then release hormones accountable for making us feel less pain while improving overall health. Acupuncture might also: upsurge blood circulation and body temperature, affect white blood cell activity (responsible for our immune function), decrease cholesterol and triglyceride levels and normalize blood sugar levels.

EPIDURAL STIMULATION

Epidural stimulation has aided preceding patients to recoup some voluntary motor function. The technology comprises of a device implanted in the epidural space which constantly delivers electric signals to the spinal cord. These electric signals mimic the ones that are delivered by the brain to voluntarily control the body's movements. The epidural stimulation device is offered by Medtronic.

AQUA THERAPY

Aquatic Physical Therapy is the practice of physical therapy in a specially designed water pool with a therapist. The exceptional properties of the aquatic environment augment interventions for patients with neurological or musculoskeletal conditions. Aquatic therapy embraces a widespread variety of techniques permitting patients to improve their balance, muscle strength and body mechanics. Aquatic therapy works to boost the rehabilitation process and support efficiency of stem cell treatment.

HYPERBARIC OXYGEN THERAPY

Hyperbaric Oxygen Therapy (HBOT) is the medical use of oxygen at a level upper than atmospheric pressure. The equipment necessary comprises of pressure chamber, which might be of rigid or flexible construction, and a means of supplying 100% oxygen into the respiratory system. Published research shows that HBOT upsurses the lifetime of stem cells after inoculation and offers an oxygen-rich atmosphere for the body to function at optimal levels.

NERVE GROWTH FACTOR (NGF)

Nerve growth factor (NGF) is a member of the neurotrophic factor (neurotrophin, NTFS) family, which can inhibit the death of nerve cells and has several features of typical neurotransmitter molecules. NGF plays an imperative role in the development and growth of nerve cells. NGF is synthesized and secreted by tissues (corneal epithelial, endothelial, and corneal stromal cells), and it can be up-taken by sympathetic or sensory nerve endings and then conveyed to be stored in neuronal cell bodies where it can encourage the growth and differentiation of nerve cells. NGF can exert neurotrophic effects on injured nerves and promote neurogenesis (the procedure of generating neurons from stem cells) that is closely related to the development and functional maintenance and darning of the central nervous system. It is also adept of encouraging the regeneration of injured neurons in the peripheral nervous system, improving the pathology of neurons and guarding the nerves against hypoxia (lack of oxygen)/ischemia (lack of blood supply).

TRANSCRANIAL MAGNETIC STIMULATION

Research has shown that TMS can efficiently treat symptoms of depression, anxiety, neurological discomfort, stroke, spinal cord injuries, autism and more. This process is very simple and noninvasive. During the process, a magnetic field generator or “coil” is placed near the head of the individual getting the treatment. The coil produces small electrical currents in the area of the brain just beneath the coil via electromagnetic induction. This electrical field causes a change in the trans membrane current of the neuron which results in depolarization or hyper polarization of the neuron and the firing of an action potential.

OCCUPATIONAL THERAPY

Occupational therapy interventions concentrate on adapting the environment, revising the task and teaching the skill, so as to upsurge participation in and performance of everyday activities, predominantly those that are meaningful to the patient with physical, mental, or cognitive maladies. Our occupational therapists also focus much of their work on detecting and eradicating environmental barriers to independence and participation in day-to-day activities, akin to everyday life.

PHYSIOTHERAPY

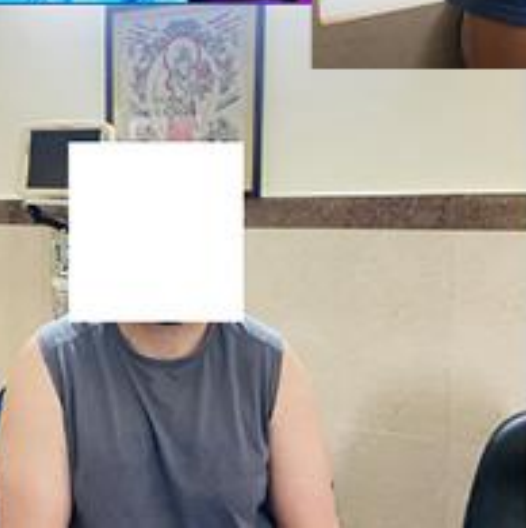
Physical therapy or physiotherapy (often truncated to PT) is a physical medicine and rehabilitation specialty that, by using mechanical force and actions, remediates damages and promotes flexibility, function and quality of life via examination, diagnosis, prognosis and physical intervention. We combine our PT with stem cells for supreme physical rehabilitation improvements.

NUTRITION THERAPY

Medical nutrition therapy (MNT) is a therapeutic methodology to treat medical conditions and their related symptoms by the usage of a specifically tailored diet formulated and monitored by a specialist. The therapy targets at fixing nutritional inefficiencies and physiological imbalances so as to provide the best environment possible for the stem cells to develop appropriately as well as improving patient's general health.



INTERNATIONAL PATIENT GALLERY





INTERNATIONAL PATIENT GALLERY





INTERNATIONAL PATIENT GALLERY





INDIAN PATIENT GALLERY



BEFORE



AFTER

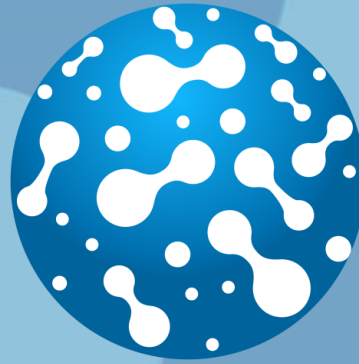


INDIAN PATIENT GALLERY





INDIAN PATIENT GALLERY



Global Stem Cell Care



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