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# Osteoarthritis

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# Overview

Osteoarthritis is a painful problem with the joints, especially spine, hip, hand, knee, and foot. When you have arthritis your simple everyday movements can cause trouble too, such as climbing the stairs, walking a few steps, opening a door, and even combing your hair can be hard. The simplest way to elaborate arthritis is that it is the wear and tear of the cartilage of your joints.

Most commonly occurs in older people, but some young individuals may also suffer from it if they had joint injuries. Genetics and obesity may also pose as the reason behind arthritis.
This type of arthritis is caused by the breakdown and eventual loss of the cartilage of one or more joints. Cartilage is a protein substance that serves as a “cushion” between the bones and the joints. It is also known as degenerative arthritis. Osteoarthritis is the most common among the 100 different types of arthritis conditions. Before the age of 45, osteoarthritis occurs more frequently in males. After age 55 years, it occurs more frequently in females. The body parts that are most commonly affected are the hands, feet, spine, and large weight-bearing joints, such as the hips and knees.

Primary osteoarthritis is caused due to aging. The water content of the cartilage increases and the protein makeup of cartilage degenerate as the body ages. The constant use of the joints over the years irritates and inflames the cartilage, causing joint pain and swelling. Over the course of time, cartilage begins to degenerate. In advanced cases, a total loss of the cartilage cushion between the bones of the joints may also occurs. Friction between the bones occurs due to the loss of cartilage cushion, which leads to pain and limitation of joint mobility. Inflammation of the cartilage can also stimulate new bone growth to form around the joints. Osteoarthritis stem cell joint treatment in India is here to help you cure your ailment.

# Symptoms

- Pain
- Stiffness
- Muscle weakness
- Swelling
- Deformed joints
- Reduced range of motion and loss of use of the joint
- Cracking and creaking
- Sleep problems

# Cause

- Heredity
- Corpulence
- Damage
- Joint abuse
- Different illnesses. Individuals with rheumatoid joint inflammation

# Diagnosis

- HLA B27
- X Ray
- Blood Test
- MRI both hip joints including sacroiliac joints
- ESR
- C reactive protein
- 2 D Echo

# 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 |

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# Treatment Procedure

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The Global Stem Cell Care offers a very safe and non-invasive treatment protocol and procedure. The patients can travel the next day. The following is the day-wise schedule for the patients.

Day 1-

- Pick up from the Airport to the Hospital
- Interaction between Dr and Patient, to clear all their doubts at that time
- Admission procedure
- Clinical examination & Lab test will be done prescribed by the doctor

Day 2-

- Stem cell Procedure
- Supportive therapies
- Physiotherapy

Day 3-

- Supportive Therapy
- Physiotherapy
- Discharging formalities
- Drop back to the Airport

## International Patient Facilities

Quote/treatment plan
Complimentary airport pick up
Scheduling of all medical appointments
Cost estimates for anticipated treatment

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

# Treatment

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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 identity 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.

# Mechanism

- • 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.

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# Patient Testimonials

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**John Charlton (Bodelwyddan, Wales)**

I needed to find a non-surgical option to treat my osteoarthritis pain. After hearing mixed reviews I began to look into Stem Cell therapy (which is highly recommended by doctors and arthritis specialists). After much research, I landed on GSCC's site and found that they offer it at a fraction of the cost I was seeing online. I called and spoke with the manager and he was able to walk me through the entire process. I was amazed at how painless the treatment was and have had excellent results with no side effects.

**Richard N. Tarr (San Francisco, California)**

I underwent the treatment for osteoarthritis and it was much safer than surgery. I was given shots in my joint and knee area and I went through the process in just a few days. The recovery time was much better than expected and it was much less painful than I thought it would be. The best part was that I was able to walk and move around much faster than I thought I would be able to and I was able to do every activity that I wanted to do. My pain has been reduced and I'm able to do everything I used to do before.

**Vishwas Khurana (Kolkata, India)**

I was experiencing pain in my right hand, it felt like something was crushing it. I couldn't even open a door with my right hand. I had to use my left hand to open the door. The pain was so unbearable, that I felt like I was going to pass out. I went to a doctor, he told me it was osteoarthritis. He gave me a steroid injection and said to come back after a month. I didn't want to wait for a month to get pain relief, so I went for stem cell treatment for osteoarthritis. I got it done at GSCC in Delhi. They were caring and professional. I am very thankful to them.


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SOMNATH ROY

Came from Kolkata for Orthopedic Disorder Treatment

PATIENT STORY

Hi, I am Somnath Roy from Kolkata. I belong to Delhi as I reside here. I had some cartilage issue that was making my life somehow very difficult. I had tried many treatment options but wasn't getting much relief. Then, after exploring the internet, I got to know about Global Stem Cell Care. I wrote to them about my problem and to my surprise, they replied in a very quick and prompt way. They recommended me to undergo stem cell treatment for my orthopedic disorder. I decided to undergo this treatment in a hope to get relief soon. After that, I had a discussion with Dr. Madhav who is from Mumbai and he told me that they have a procedure of bone marrow transplantation for my treatment. I consulted him and decided to undergo this specific treatment. Upon admittance on the hospital, my procedure started 6 am in the morning and it was a 2 hours process. They injected the stem cells from my bone marrow for the treatment of my cartilage. After that, I was discharged from the OT and they provided me with some multivitamin medicines. Post treatment, I am stable now. I got rid of my pain and I expect to recover fully in the coming 3 months. The doctors at Global Stem Cell Care are very supportive and they even recommended me regular physiotherapy sessions.

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MR. MARIADHASS BARNABAS

Came from Tamilnandu for Spinal cord Injury & Motor Neurone Disease Treatment

PATIENT STORY

Hi, my father's name is Mr. Mariadhass Barnabas. We are from the state of Tamil Nadu. He was suffering from spinal cord injury and also motor neuron disease. He was also detected with multiple sclerosis disease some 4 years back. My father was in deep pain because of all of these problems. His life has been very tough. I, being his son, decided to do something to cure all his problems, I had heard about the stem cell therapy and its miraculous effects. So, I started searching on the internet and after a rigorous research, I found that Global Stem Cell Care is the best place to get stem cell treatment. The stem cell surgery of my father at Sarvodya hospital went very good and we are just waiting for the improvements to show up as soon as possible. We are satisfied with the treatment and the staff of the hospital. The staff assisted us in a very cooperative and good manner. They offered us all the vital facilities and accommodation they arranged for was also very nice.

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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.


**What is orthopedic?**
Orthopedic is the branch of science, that specialize in injuries and diseases of the body's contractor system together fused with bones and muscles.

**What is joint replacement surgery and how long does it last?**
Joint replacement surgery is performed to interchange broken joint with a brand new, implant is familiar to a prosthetic device. On a median, these joints have a time period of ten years, but it widely varies relying upon the usage and person's age.

**What is the distinction between the sprain and strain?**
A strain happens once the muscle or sinew is stretched or torn whereas a sprain happens once the ligament is Stretched or torn.

**What is Sciatica?**
The nerves on our lower back acts as part of the Sciatic Nerve which runs down within the leg and controls the muscles of the leg. Neurology is the condition that will cause a radiate pain, numbness, tingling and/or Muscle weakness within the legs.

**What is shoulder impingement?**
Impingement syndrome, could be a common disorder of the shoulder relating to an improper alignment of the bone and also the tissues within the higher arm. Inflammatory conditions like inflammatory diseases are closely associated with the impingement syndrome.

**What is a separated shoulder?**
A shoulder separation happens once the outer finish of the clavicle separates from the tip of the Shoulder blades owing to the torn ligaments.  The injury happens most frequently from a blow to the Shoulders or stretched hand or arms.

**Do men suffer osteoporosis?**
Although pathology verifies that osteoporosis is common in ladies, it can't be denied that one in eight over fifty have the probabilities of suffering from osteoporosis, for instance the declined androgen levels in men also can result in accumulated Chances of the bone loss.

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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.

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## 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.

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# 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.

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# 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 viaa 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 upsurges the lifetime of stem cells after inoculation and offers an oxygen-rich atmosphere for the body to function at optimal levels.

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## 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
BEFORE
AFTER




# INDIAN PATIENT GALLERY









BEFORE

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