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Spinal Cord Injury

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Overview

Any damage to the spinal cord is termed as spinal cord injury. It's a very serious condition which can lead to physical trauma that's likely to have a lasting and major impact on most aspects of daily life. The spinal cord is responsible for sending messages from the brain to all parts of the body, and from the body to the brain. We are able to perceive pain and move our limbs because of the messages that travel across the spinal cord. The spinal cord injury stem cell therapy in India acts majorly as a treatment that can improve quality of life for the affected individuals.

If the spinal cord is injured, some or all of these impulses may not be able to survive. The result of which is complete loss of sensation and mobility below the injury. A spinal cord injury closer to the neck typically cause paralysis throughout a larger part of the body than one in the lower back area. Spinal cord stem cell treatment offers provision for a befitting treatment.

Spinal cord injury is the result of a direct trauma to the nerves or indirect damage to the bones and soft tissues and vessels surrounding the spinal cord. It results in loss of functions, such as mobility or sensations. In most people, having suffered from spinal cord injury, the spinal cord is not completely severed but either bruised or torn. Spinal cord injury is not the same as back injury, which may result from pinched nerves or ruptured disks. Even when a person sustains a break in a vertebra or vertebrae, there may not be any spinal cord injury if the spinal cord itself is not affected.

A damage to the spinal cord triggers inflammation in the nerve cells. Sometimes, the first step of treating a spinal cord injury is to strengthen the spine in order to prevent any trauma to the spinal cord. In order to prevent any permanent deformities of the wounded limbs and to evoke a reaction from the affected parts, the second level of spinal cord injury recovery is comprehensive rehabilitation

Symptoms

- Loss of bowel or bladder control
- Changes in sexual function, sexual sensitivity and fertility
- Loss of sensation, including the ability to feel heat, cold and touch
- Exaggerated reflex activities or spasms
- Loss of movement
- Difficulty breathing, coughing or clearing secretions from your lungs
- Pain or an intense stinging sensation caused by damage to the nerve fibers in your spinal cord
- Loss of bladder or bowel control
- Difficulty with balance and walking
- Impaired breathing after injury
- An oddly positioned or twisted neck or back
- Weakness, paralysis in any part of your body
- Numbness, tingling or loss of sensation in your hands, fingers, feet or toes

Cause

- hard impacts and collisions in sports
- automobile accidents
- falls
- hitting the head when diving
- injuries from violent acts, such as gunshot wounds
- certain types of cancer
- arthritis
- specific types of infections
- some medical conditions, such as spina bifida and polio

Diagnosis

- X-rays
- CT scan.
- MRI

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 Stem Cell Care India 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

Meeting at the Airport

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

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.

Mechanism

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.

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Patient Testimonials

Myrtle Sharp (Inverguseran, Scotland)
I recently had a problem with my back and I was in a lot of pain. I got a recommendation for stem cell treatment for the spinal cord and decided to give it a shot. I got the treatment done and I have to say that my pain is gone. I feel so much better! It was much less painful than I thought it would be, the doctors were highly professional and the staff was very caring too. I would recommend them to anyone who needs stem cell treatment.

Rajesh Garg (Dehradun, India)
I found the Stem Cell Care India clinic from a friend who went there for stem cell treatment, I wasn't sure if it would work for me but I tried it, and I had great results, I am able to walk again, I feel better and I highly recommend this treatment if you have been looking for something that is safe, inexpensive and effective. Thank you once again Stem Cell Care India team.

Natalie Provencher (Lakewood, Ohio)
I was looking for a stem cell treatment for my spinal cord injury and my friend recommended I try Stem Cell Care India. They gave me their best doctor, who provided me with an easy-to-follow treatment plan and I saw a huge difference in my pain levels and mobility. Their stem cell treatment for spinal cord injury uses the highest quality stem cells so I know I'm safe.

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. StemCellCareIndia 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 StemCellCareIndia 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.

1.What is a neural structure injury?

Spinal Cord Injury is the result of a traumatic event that is accustomed with inflicting harm to the neural structure or nerve tracts that relays signals from brain to alternative elements of the body or body to the brain. As a result one may expertise in temporary or permanent loss of motor operations, sensory operations and involuntary operations. As per the National neural structure Injury Association is concerned, there exist 3 categories of neural tissue harm resulting in dysfunction, neuron death among the neural structure, Disruption of nerve pathways degenerative disorder, or destruction of the protecting insulation encompassing axons, that conduct nerve signals

2.What causes neural structure injury?

The most common causes of neural structure injury would be motor accidents, serious fall, act of violence, sports injury and recreation accident, diseases like birth defect may also cause permanent injury to the neural structure.

3.What is the distinction between paralysis & tetraplegia?

Paraplegia could be a term accustomed to describe the inability to maneuver and sense the lower a part of body from the waist down, whereas the term tetraplegia or paralysis includes loss of motor and/or sensory operations within the higher body, arms and hands.

3.My friend has a similar level of injury as Pine Tree State however he has sensation in his legs and I don't. Why would that be?

This could be a result of sensory and not motor operate. It is observed that below the medical specialty level it includes the sacral segments S4-S5, and no motor operate is preserved to quite 3 levels below the motor level on either facet of the body. So, he has sensation in his legs. All this is contingent on Complete or Incomplete Injury to the neural structure i.e. the quantity of movement and sensation that has been lost throughout the trauma. Understanding the extent of injury is best noted indicator of what to expect in recovery of operate from injury.

4.Can neural structure Injury be cured?

The Central nervous system is the most advanced network of nerves within the body and is highly sensitive. Till date even the scientists haven't completely found success in unraveling the mysteries of brain and its network, but the discovery of Stem Cells in a trendy science which holds promise in treating neural structure injuries. Somatic cell transplantation is directly aided into a skinned web site and results in generation of the latest nerve cells leading to a doable repair of axons and transmission of nerve signals. Conjointly it has been seen that the somatic cell transplantation given among few hours of SCI can cut back the harm by cathartic protecting substances like growth factors, and absorbing toxins like free radicals, once introduced into the neural structure shortly once injury and conjointly preventing the unfold of unwellness by reducing inflammation within the skinned space

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STEM CELL CARE INDIA

As a stem cell company at the cutting edge of Regenerative Medicine, SCCI 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.

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SUPPORTIVE THERAPIES

Stem Cell Care India 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.

PATIENT GALLERY

Stem Cell Care India

https://www.stemcellcareindia.com

F3 / 3A, 2nd Floor, Abul Fazal Enclave
Jamia Nagar
New Delhi - 110025, INDIA

info@stemcellcareindia.com

International Patients : +91 8743024344,
Indian Patients : +91 7838223336

/StemCellCareIndia

/StemCellCareIndia

/StemCellCareIndia

/StemCellCare

+91 8743024344,
+91 7838223336

/company/stem-cell-care