



Viezec
STEM CELL INSTITUTE

Down Syndrome



Overview

The skin is a sensitive part and a simple cut or damage can turn fatal if not treated at the right time. The causes of injury may be the result of mechanical, chemical, electrical, thermal, or nuclear sources. Depending upon the mechanism of injury, the skin can be damaged in a variety of ways.

Inflammation is the skin's initial response to injury of any kind.

Superficial (on the surface) wounds and abrasions leave the deeper skin layers intact. These types of wounds are usually caused by friction and rubbing the skin against an abrasive surface. Stem cell treatment for wound in India has emerged as a befitting treatment for the ailment.

Deep abrasions (cuts or lacerations) go through all the layers of the skin and into underlying tissue like muscle or the bone.

Punctured wounds are usually caused by a sharp pointed object entering the skin. Examples of puncture wounds include a needle stick, stepping on a nail, or a wound of knife stab.

Human and animal bites can be classified as puncture wounds, abrasions, or a combination of both.

Pressure sores (bed sores) can develop due to lack of blood supply to the skin caused by chronic pressure on an area of the skin. To understand this better, consider a person who is bedridden, sits for long hours in a wheelchair, or a cast pressing on the skin. Individuals with diabetes, circulation problems (peripheral vascular disease), or malnutrition are at an increased risk of sore pressure. Stem cell treatment for wound in Delhi, helps take care of the underlying problem well.

Symptoms

If the wound is due to a significant force or trauma and other injuries are also present.

If bleeding cannot be stopped even with persistent pressure and elevation.

If there is a concern that requires wound repair with sutures (stitches). The size and location of the wound are another important considerations. Most facial wounds may need to be repaired for cosmetic reasons, especially if they involve the lip or eye.

If the wound is caused by an animal bite. There is also a need to consider rabies immunizations, if appropriate.

If the wound is very dirty and cannot be easily cleaned.

If there is evidence of infection including redness, swelling, increased pain, and pus at the wound.

If tetanus immunizations are not up to date, then a booster is needed within 48 hours. If the patient has never been immunized, the initial tetanus prevention with immunoglobulin should be given immediately.



Cause

Down syndrome results when abnormal cell division involving chromosome 21 occurs. These cell division abnormalities result in an extra partial or full chromosome 21. This extra genetic material is responsible for the characteristic features and developmental problems of Down syndrome

Diagnosis



Screening tests during pregnancy

- Chorionic villus sampling (CVS)
- Amniocentesis.
- Blood test.
- Ultrasound.
- Percutaneous umbilical blood sampling

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

The ViezeC 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

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 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.

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

Traci M. Grant (Lexington, Kentucky):

I have used this stem cell treatment for my daughter who had Down syndrome. I found the stem cells of a donor patient and have the stem cells injected into the brain of my daughter. The results have been quite impressive. She was not able to walk properly. But after the stem cells injection, she is able to walk properly and has become more active and alert. I am thankful to the doctor who did this stem cell treatment for my daughter.

Tauseef Ansari (Lucknow, Uttar Pradesh):

I had doubts about the treatment until I started noticing that the effect was visible in my kid. He stopped having seizures, and his muscle tone improved. It has been 3 months since we started the treatment and I can see improvements in his overall health. So, I would definitely recommend this treatment to other parents.

Sienna Allan (Lewis, Scotland):

I had a stem cell therapy in India and I couldn't be happier with my results. The doctors have been incredible and the treatment is so much less painful than I expected. And the best part is that my results have been long-lasting and I'm seeing continued improvement. I highly recommend Viezec to anyone who is looking for stem cell treatment in India.



HAPPY PATIENT

www.viezec.com
info@viezec.com
+91 96507 60803

SHAUNA FULLARD came USA for MS with Neuromyelitis Optica & amp ONA Treatment

My name is Shauna Fullard and I have come from America to take stem cell treatment for treating Neuromyelitis Optica & amp ONA disorder. Earlier, I took chemotherapy and several other treatments, but I didn't get any benefit. After taking stem cell treatment, my condition is stable. I'm satisfied with this effective treatment.



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MRS SWARALIPI DASH SAHA came from West Bengal for Diabetes Mellitus, Neuropathy and Retinopathy Treatment

Since the age of 14, I've been dealing with the effects of diabetes. Since then, I've been plagued by a variety of different neurological issues. All kinds of aches and pains began to manifest themselves in my feet. Due to diabetic neuropathy, I also had vision problems. Last year, I had a retinal detachment surgery. It was my last hope that stem cell therapy might help me. My stay here has exceeded my expectations in terms of both the service and the warmth. The group works well together.



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MAST. JENISH DUDHAGARA Came from Gujrat for Lennox Gastaut Syndrome / Developmental Delay Treatment

My infant suffered from hypoglycemia at the age of two days, which resulted in seizures. He healed after 10 days, but the convulsions resumed when he was 7 months old. A daily incidence was around 120 jerks in a cluster of 25-30 seizures over the course of a month. Seizures slowed down overall growth. He had surgery a year ago, but there has been no progress. We now put our faith in stem cell treatment to repair the harm that has occurred.

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. Viezec 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 Viezec 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 can the diagnosis be done after birth?

A diagnosis can be done on the basis of the facial features and deferred development which are typical of Down's syndrome. Along with that, a chromosomal analysis known as karyotype test can ratify the diagnosis of Down's syndrome post birth.

When is the correct time to seek intervention for a child diagnosed with Down's syndrome?

The intervention can begin instantaneously after the diagnosis of the syndrome in the kid. Timely intervention helps the young kid to attain his optimum level of development rapidly.

Will the other kid also have Down's syndrome?

It is imperative for the parents to undergo genetic counseling so as to determine the risk when they plan for the second child. However, there are no identified behavioral or environmental reasons pertaining to the Down's syndrome.

Are children with Down's syndrome only born to older parents?

80% of kids with Down's syndrome are born to females younger than 35. However, the likelihood of the kid having the syndrome does upsurge with maternal age.

Can the child get married and have kids in the future? What are the probabilities of the baby having Down's syndrome?

A kid with Down's syndrome can get married and have children as around 50% of all women with Down's syndrome are fertile and have regular menstrual cycles. However, between 35 to 50 percent of kids born to mothers with Down's syndrome have a probability of being born with Trisomy 21 or other developmental incapacities.

Will the kid's facial structure change after Stem Cell Therapy?

Stem Cell Therapy works on improving the brain functioning in the kid so therefore, the facial features remain the same.

How many times is Stem Cell Therapy required for our child?

The number of times entirely depends upon the varied multiplicity of factors like the impairment in the brain and the severity of the condition. Whether another round of stem cell therapy is necessary or not. All this is determined on the basis of clinical follow up and comparison of the PET-CT Scan 6 months after the first stem cell therapy. Depending on the outcome of all these investigations at the time of follow up, the need for another shot is indicated.





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

OTHER DISEASE

Stem cells are the prime cells that are present inside our body as our own “natural resources” and can be recovered back in crisis. The regenerative power of these stem cells will be employed in case of usual deterioration of the body. In an unhealthy condition as well, when the whole cellular system of a specific organ; these cells will be useful in redeveloping as many cells as possible to renovate back the lost function, to fairly an extent. This far-reaching regenerative potential of stem cells has been employed by the science of medicine to treat multiplicity of ailments, for which no known treatment modality does occur so far. Thus, stem cell therapy can definitely be a new medical blessing that has been recognized for treating numerous health stigmas, which are worrying mankind so far.

In the recent years, stem cells therapy has been evolving as the most viable option to treat variety of degenerative illnesses, which cannot be treated with the assistance of conventional treatment choices. Numerous clinical evidences have been amassed from gigantic obtainability of data to assess the immense potential of stem cell therapy as a contemporary medicine. Various doctors are in this regard, supporting stem cell therapy in India; indicating it to be the most innovative way to treat the root cause,



with the assistance of body's own restoring mechanism. Although, the therapeutic results are very promising, to affirm it to be the mainstream medicine; adequate clinical evidences are required, which can be gotten via huge variety of clinical trials. Thus, unquestionably, stem cells treatments are very auspicious and can prove as the prospective alternative for futuristic treatment arrangement.

SUPPORTIVE THERAPIES

Viezec 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 upsurges 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



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<https://www.viezec.com/>



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



info@viezec.com



International Patients : +91 9773585103,
Indian Patients : +91 96507 60803



/Viezec Medical Healthcare



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/Viezec



/viezec



+91 9773585103,
+91 9650760803



/company/viezec