

Muscular Dystrophy









Overview



Dystrophy stands for a group of inherited diseases in which the voluntary muscles progressively weaken. In some forms of this disease, the heart and other organs are also affected.

There are 9 types of muscular dystrophy:

Myotonic, Duchenne, Becker, Limb-girdle, Facioscapulohumeral, Congenital, Oculopharyngeal, Distal, Emery-Dreifuss

In Dystrophy, a particular part of the body weakens or wastes away. In muscular dystrophy, the weakness affects the muscles. An inherited genetic mistake prevents the body from making a protein that helps build muscles and keep them strong. Children who are born with muscular dystrophy usually develop normally in the first few years of life. They may suddenly show signs of clumsiness. These signs include:

- Trouble walking
- •Difficulty raising the front of their foot (called foot drop)
- Falling

Symptoms

Difficulty standing

Difficulty rising from a lying or sitting position

Trouble breathing

Trouble learning to sit independently and walk

Muscle weakness that begins in the hips, pelvis, and legs

Clumsiness, falling often

Trouble climbing stairs

Unsteady, waddling gait

Larger-than-normal calves that is sometimes painful

Breathing problems that may eventually require the use of a ventilator

Walking on the toes or balls of the feet

Learning disabilities or behavioral problems



- Familial Inheritance of the condition.
- Gene mutations that occur spontaneously.
- Due to intimate relation linked (X-linked) disorder.
- Gender and Age-based developments
- Environmental Factors
- Protein Deficiency

Diagnosis



- EMG / NCS Upper and Lower Limbs
- CPK Test
- Electrocardiography and echocardiogram
- Enzyme tests
- Genetic testing
- Heart-monitoring tests
- Lung-monitoring tests

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





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







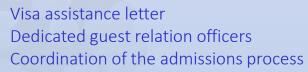
















Treatment



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.
- •<u>Laboratory Processing:</u> 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.
- •<u>Stem Cell Implantation</u>: 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.

<u>Stem cell treatment Aftercare:</u> 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.



Patient Testimonials



Justin from Ireland Came India for Stem Cell Therapy for Muscular Dystrophy

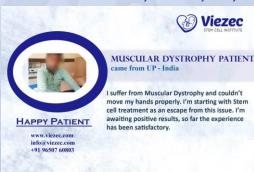
Hello, I am Justin, 42 years from Ireland. I came to India for stem cell therapy for muscular dystrophy. One day, I observed having trouble in breathing and also began experiencing feebleness in my facial muscles affecting my communication. I also began feeling feebleness in my arms and legs. After visiting my local hospital, my physician urged me to go through lab tests and afterward I was detected with muscular dystrophy. My physician told me to go through stem cell treatment. But the hefty expenditures incurred for this treatment made me search for an economical treatment. I explored several websites of a medical group in Singapore, Thailand, India, etc. offering economical stem cell treatment. Inept to take the final decision, one of my friends suggested Viezec in India as his family member had visited India and had a brilliant experience with the excellence of service and attention while undergoing treatment in India. Once I arrived in India, The hospital staff was quite welcoming, caring and kindhearted. I underwent the stem cell treatment that was very successful. It has been a wonderful experience getting my treatment done via Viezec.

Seema Kumari Saini Came to Delhi from Jaipur, Rajasthan for Muscular Dystrophy Treatment

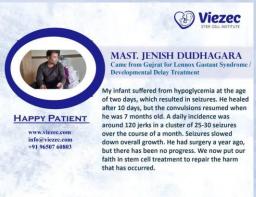
Hi, my name is Seema Kumari Saini. I came to Delhi from Jaipur, Rajasthan. I was suffering from muscular dystrophy since past 10-15 years. Initially, I was living a normal life without any impediments. However, as the time and years passed by, I started experiencing weakness and trouble in carrying out normal day-to-day activities. After the diagnosis, I came to know that I am suffering from muscular dystrophy. To treat this problem, I underwent every type of treatment i.e. Allopathy, Ayurvedic, etc. but nothing soothed my pain and suffering. These treatments gave me a relief of 1-2 months but again the disease starts showing its repercussions. Then we researched about stem cell treatment and got to know about Viezec. After gathering all the information, we came to Delhi and Viezec's team conducted some major tests of mine. Once the doctors got to know that my reports are normal, they started with my stem cell treatment for muscular dystrophy. The stem cells injections were given to my on the spots where my muscles were very weak. After the injections, I am feeling very positive and relief. My treatment is still going to take 2-3 months more. The doctors here gave me a lot of hope and optimism that I can be in the best of my health very soon. My husband is also a great support to me. I am noticing a lot of improvement in fingers, thighs, feet, etc. I am satisfied with the treatment. Thanks Team!

Bent Mark from California Came India for Stem Cell Therapy for Muscular Dystrophy

I am Bent Mark from California and I was a victim of muscular dystrophy from past 5 years. I decided to opt for stem cell treatment via Viezec in India. Once I arrived here, the executive of Viezec sounded pretty welcoming and asked me to send my medical reports. He clarified to me about the whole process and what I should anticipate with this treatment. I also communicated with the doctor who clarified to me that the stem cell treatment targets to regenerate the impaired and missing muscles and help avert further complications. After conversing it with my family, I decided to fly opt for this treatment. After I underwent the treatment, I found that I am recovering fast. I am awestruck with the high-quality facilities and care I got here and would recommend you to anybody wanting an economical treatment in India.







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.



1. What is inherited disorder and may stem cells help?

MD's are a gaggle of disorders characterized by hereditary defects in the muscle super molecule, death of muscular cells and muscular weakness. Mutations in the genes, concerned in muscular membrane structure and performance may welcome the deformity. In theory, if stem cells treatment for muscular dystrophy is opted then you will notice that stem cells manufacture traditional muscle cells that are non-practical as a result of the faulty genes. Some quite stimulations may be useful to multiply residential stem cells and differentiate on their own to muscle cells.

2. What are the various stem cells which will supply facilitate for MD?

Stem cell treatment for Muscular Dystrophy in India is of various sorts starting from allogeneic Mesenchymal stem cells, funiculus blood derived stem cells, autologous bone marrow and fat derived stem cells, etc. However, out of those, autologous mode of vegetative cell transplantation is thought to be the foremost helpful as body's own cells are used they do not impose any threat of rejection of infection.

3. How many numbers of stem cells injections are needed to treat MD?

Stem cell injection will begin showing leads to one injection itself, though it's troublesome to interpret as a result of the therapeutic effectivity of this treatment depends upon the patient's condition relying upon the uptake of stem cells, severity of the unwellness and age of the patient.

4.Does the endocrine drug medical aid used as a traditional means of treating MD is useful?

Rehabilitation in terms of workout is critical, but strenuous means of exercise ought to be avoided. Considering endocrine medical aid, it's continuously been established to be medically subjective and restricted in usage and thus their future use are avoided. The basic goal of steroids is to scale back inflammation throughout the inherited disorder. However, their future usage will have an effect on the overall good condition of the patient.

5. What are the probabilities that a patient can begin walking after stem cells treatment?

Stem cells isolated from autologous tissue sources in conjunction with inhibitor stimulation will improve the muscular strength by making better muscle cells. The event has been ascertained in numerous clinical trials, but the results could vary from person to person. Stem cell muscular dystrophy hospital helps provide best possible treatment for the underlying disease.

6.In my family if my elder brother has doctor's degree, what are the probabilities of my son obtaining affected with constant and can stem cells injection may be associate degree option?

There exists five hundredth probabilities of doctor's degree deformities in your younger son. However, it's to be confirmed by molecular nosology and different tests. The stem cells medical aid will work higher in younger patients than older one. The sooner you'll undergo the treatment, you'll recover outcomes.







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.



NEURO DISORDER

Contrary to what some may think, Neurological Stem Cell Therapy isn't a sole treatment for a single kind of disease. Nor are neurological syndromes restricted only to the brain. A neurological disease is a disorder or complaint that affects any portion of the body's nervous system. These can consist of the elementary



physical structure, biochemistry or electrical functioning of the brain, the spinal cord, or any nerves connected to them. The symptoms can run the gamut including paralysis, muscular complications, trouble with coordination, losing physical sensations, experiencing seizures, confusion, pain, or shifts in one's sense of cognizance. Each region of the brain and spinal cord has its own specialty cells. The neurological stem cell therapy treatments at Viezec concentrates on isolating and intensifying the patient's own adult Neural Stem Cells from each area that is to be involved in treatment. This is done by reaping a sample of the patient's own fatty tissue that is found just underneath the skin. With this progressive technique, NSI can relieve the symptoms of a varied variety of neurological ailments, such as Autism and Multiple Sclerosis.

How Neurological Stem Cell Therapy Works

All adult stem cells have the aptitude to be transformed into whatever kind of cell the body needs. But those that are stowed in the fat that forms around our upper legs, stomach area and buttocks are particularly potent. Moreover, these highly regenerative adult stem cells are found in particular profusion in our fat, making harvesting not only easier but the sample size much smaller than harvesting from other zones like bone marrow. Neurological stem cell therapy "assigns" new adult stem cells the tasks of becoming the exact varieties of cells required for the regrowth and regeneration of missing, malfunctioning or incapacitated tissue, bone, blood elements or neural cells. Once processed and re-vaccinated into the patient, the newly assigned adult stem cells always remain the particular type they have become. In the case of neurological ailments, the two chief objectives of neurological stem cell therapy is 1.) to help in the regeneration and repair of neural circuitry and 2.) excrete protective factors that protect cells already working at a healthy level. Another imperative objective of neurological stem cell therapy is to deter or, if and whenever possible, altogether stop the weakening of cellular matter that neurological ailments or injuries might cause.



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 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 uptaken 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.















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