



**Viezec**  
STEM CELL INSTITUTE

# Vitiligo



# Overview

A skin condition that is the reason behind pigmented skin is known as Vitiligo, some of these results in an irregular pattern which causes white patches on the skin. This condition affects people of all age group. It is a skin condition that causes major loss of skin color which is also known as pigmentation and form blotches on the skin. The severity as well as rate of the loss in color of the skin causes the condition of Vitiligo and makes it uncontrollable. It can highly cause some effect on parts of the body. It also has an effect on hair, as well as the internal parts of the mouth as well as even the eyes can get affected in this condition. **Stem cell therapy for Vitiligo in India** is carried out by the best and most reputed doctors as well as professionals.

Melanin is the major cause that affects the color of skin, hair, as well as the eyes. Vitiligo occurs in case the cells producing melanin dies or stop functioning. Vitiligo can affect people of all skin types and condition, but it can be more noticeable in people with darker or brown skin color. This condition is not life-threatening or contagious but It can be stressful or make you feel bad about yourself having this condition. **Vitiligo stem cell transplantation in India** may cause some improvement in the appearance of the affected skin but does not ensure an absolute cure of the disease.

## Symptoms

Loss of color and pigmented Skin can cause whitening of the skin or also graying of the scalp hair, eyelashes, as well as eyebrows or beard. This usually strikes before the age of 35.

The Loss of pigments that happen to affect the cells and tissues which lines the interior of the mouth and nose. The mucus membrane happens to affect the body.

Pigment loss and change in color that happens to affect the inner layer which is retina of the eyeball.

Discolored patches which affect to happen and cause an impact around the armpits, rectum as well as navel area.



## Cause

- Autoimmune Conditions
- Neurochemicals
- Genetic factors
- Self-destruction

## Diagnosis



Your health care provider will ask about your medical history and examine your skin, possibly with a special lamp. The evaluation might also include a skin biopsy and blood 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



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# Treatment Procedure

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



## 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.



## 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



•**Madelyn J. Drennan (Michigan, US):** I've been looking for a safe and effective treatment to make my vitiligo less noticeable and I found it. Stem cell therapy is a proven treatment to improve the condition of vitiligo and I'm amazed by the results. Some of my white spots are starting to get darker and my skin is becoming much smoother. I would highly recommend this treatment for people with vitiligo.

•**Nicole Moeller (Lüneburg, Germany):** When it comes to skin conditions, we're always looking for a treatment that will deliver visible and efficient results. After the stem cell therapy, I was able to see the results in just the first few weeks. It was a lot less painful than what I had thought it would be and it's a lot safer than other methods that I've tried so far.

•**Animesh Malhotra (Jaipur, India):** I've been suffering from Vitiligo for a while now, and it's been a real pain. It's gotten to the point where I'm so embarrassed to go out in public or even to my own job because of how horrible it looks. I really didn't think there was any other option. But then I heard about stem cell therapy and I figured it was worth a shot. I was able to get in touch with a leading stem cell expert and I had the procedure done. The results were amazing and I was finally able to feel confident in my own skin again!

# 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.

### **What Causes Vitiligo to Develop?**

When melanocytes avoid producing melanin, white patches appear on the body. Vitiligo can strike at any age, but it is most common in people between the ages of 20 and 30. It also begins on the parts of the body that are exposed to light and spreads across the body. Vitiligo is mostly caused by a loss of pigmentation. It can be seen in both males and females.

### **Is Vitiligo a Hereditary Disease?**

Vitiligo can affect several individuals in the same household. About 30 to 40% of people with vitiligo still have a family member. There is a 5% probability that vitiligo will be passed on from mother to child. There is currently no good understanding of how and why vitiligo is genetic.

### **Is it possible to halt the progress of vitiligo?**

Yes, we will prevent vitiligo from spreading if we get treated right away. Consult a dermatologist as soon as you find white patches on the body to prevent them from spreading.

### **Is Vitiligo Linked to Skin Cancer?**

Vitiligo is caused by a loss of pigment in the skin. However, there is no scientific proof that vitiligo causes cancer. In certain cases, though, some that have skin cancer also have vitiligo. However, there is no proof that vitiligo causes cancer.

### **Vitiligo's Myths and Reality**

Myth: Those with dark skin are the only ones who get vitiligo. Fact: Vitiligo can affect people of any race, but it is more common in people with dark skin. Myth: Vitiligo is a form of skin cancer. Vitiligo is not a skin cancer and is not related to any other form of cancer. This occurs as a result of a lack of pigmentation. Myth: Vitiligo only affects people who are exposed to sunshine on the outside of their bodies.

Fact: Vitiligo affects not only the skin that is exposed to light, but also the whole body, including the arms, legs, and hands, which are not exposed to the sun. Myth: Vitiligo is caused by eating such food mixes. Vitiligo should not affect a person's dietary habits. Myth: It's contagious in Vitiligo. It will spread from one individual to another when they are physically connected. Vitiligo is a skin condition that is not contagious.

### **Is tension a source of vitiligo?**

Stress will not activate vitiligo, but it will grow if melanocytes fail to absorb melanin. In certain circumstances, tension can help to strengthen vitiligo. If a person has vitiligo and is stressed, the white spots will extend over his body.

### **Is it true that bananas will help with vitiligo?**

If the immune system is less active, the melanocytes are less likely to produce vitiligo-causing melanin. As a result, there isn't a special vitiligo diet. Vitiligo is impossible to be cured by a single fruit or diet. Vitiligo can be avoided by eating a regular diet that contains a variety of fruits and vegetables.





# ViezeC

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.

# AGING & LONGIVITY

Using stem cells to more effectually decelerate aging and reverse the signs of ageing is not a new idea, but it is now becoming better acknowledged in the general public. Here at the Viezec, we are thrilled to be assisting patients like you look and feel 20 years younger!

Stem cell anti-aging therapy is the most progressive and contemporary approach available for slowing, and even reversing, the ageing procedure in humans. Furthermore, anti-aging stem cell therapy helps fortify the remaining cells so they last longer. Eyeing for diverse skin rejuvenation therapy? You have come to the right place as stem cell therapy can be used for skin and face renovation. Aging is a very natural but astonishingly complex process everybody goes through as they get older. The course of aging is one where the cells of the body become gradually impaired over time because of normal wear and tear and exposure. Finally, those cells expire. Some cells are supplanted as they deacease but it is never quick enough to compensate totally for the cells dying off. Thus, the signs of aging start to appear. New stem cells and related therapies are demonstrating to be very useful at slowing down or, in some circumstances, even



reversing this natural aging procedure. Stem cells have a unique regenerative and anti-aging effect that aids to repair organs, tissue sand cells that have been impaired by stress and/or exposure to toxins and contaminants. This is why stem cell therapy is one of the most focused and contemporary medical discoveries nowadays. Naturally, stem cell application helps embolden new healthy cell growth so the body stays healthy and sturdy, unlike old-style anti-aging technology and treatments that only treat the surface symptoms instead of the source of the problem.

# 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

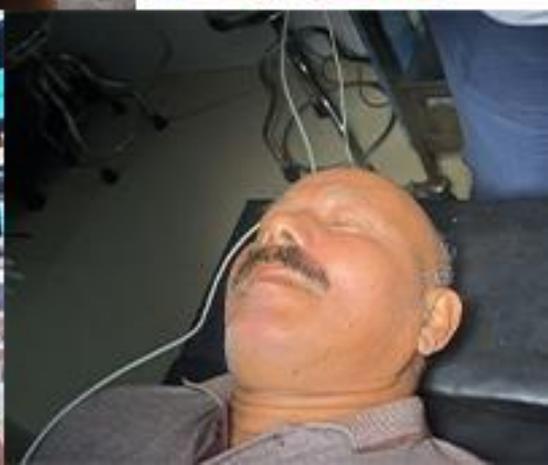
Physical therapy or physiotherapy (often truncated to PT) is a physical medicine and rehabilitation specialty that, by using mechanical force and actions, remediates damages and promotes flexibility, function and quality of life via examination, diagnosis, prognosis and physical intervention. We combine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



# Viezeec

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