Stem Cell Care India

A GUIDE FOR PATIENTS

## Frequently Asked Questions About

# STEM CELL THERAPY

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The FAQ page

# Stem Cells

## 1. What are mesenchymal stem cells (MSCs)?

Stem cells are the body's raw materials, from which all other cells with specialized functions are created. Mesenchymal stem cells are adult stem cells that have self-renewal, immunomodulatory, anti-inflammatory, signaling, and differentiation properties. Mesenchymal stem cells (MSCs), self-renewal capacity is characterized by their ability to divide and develop into multiple specialized cell types in a specific tissue or organ. Mesenchymal stem cells (MSCs) can be sourced from various tissues including adipose tissue (fat), bone marrow, umbilical cord tissue, blood, liver, dental pulp, and skin.

## 2. What makes mesenchymal stem cells (MSCs) useful in a clinical setting?

Mesenchymal stem cells (MSCs) are widely used in the treatment of various diseases due to their self-renewable, differentiation, anti-inflammatory, and immunomodulatory properties. In-vitro (performed in a laboratory setting) and in-vivo (taking place in a living organism) studies have supported the understanding of mechanisms, safety, and efficacy of MSC therapy in clinical applications.
There is a plethora of research surrounding the mechanisms of mesenchymal stem cells (MSCs). Many studies have outlined their diversified capabilities. These characteristics enable MSCs to be used in a variety of clinical settings for multiple degenerative conditions.

Research is starting to suggest that umbilical cord tissue-derived MSCs (UC-MSCs) may be more potent than other sources of mesenchymal stem cells thus potentially increasing their clinical efficacy.

Differentiation: refers to the normal process by which a stem cell undergoes maturation to become more distinct in form and function. For example, a single mesenchymal stem cell has the potential to develop into various types of cells

Immunomodulatory: Mesenchymal stem cells (MSCs) can regulate the immune system by promoting an inflammatory response when the immune system is under-activated and reducing inflammation when the immune system is over activated. MSCs can play a key role in preventing the immune system from attacking itself similar to what one may see in many autoimmune disorders.

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Anti-inflammatory: The reduction of harmful inflammation within the body. Inflammation is a response from the immune system that is aimed at protecting the body from harmful external stimuli as well as aid and repair the body. However, when over-activated, inflammation can have a detrimental effect on the body.

## 3. Are mesenchymal stem cells (MSCs) safe?

Multiple peer-reviewed studies have found Mesenchymal Stem Cells to be a safe procedure. Additionally, over the course of our study, there have been no reports of any long-term negative side effects.

## 4. Is there any chance my body rejects mesenchymal stem cells (MSCs)?

MSCs have a degree of immuno-suppressive activity and thus are not usually subject to the same immune response as other foreign cells. Mesenchymal stem cells derived from umbilical cord tissue are universally accepted and have no chance of rejection. Cord tissue-derived MSCs are essentially “brand new” and immuno-privileged, unclaimed by the body.

Additionally, unlike other forms of treatment such as an organ transplant, there are no blood products used, and there is no HLA matching required. Umbilical cord tissue-derived mesenchymal stem cells (MSCs) face no chance of rejection when administered.

## 5. Do stem cells get trapped in the lungs? (Pulmonary first pass effect)

Mesenchymal stem cells (MSCs), especially those derived from umbilical cord tissue, have shown a remarkable ability to avoid entrapment in the lungs due to their optimal size (17-19 µm) and efficient navigation of the pulmonary circulation. Although MSCs may come across the pulmonary first pass effect upon intravenous administration, their extraordinary homing capabilities enable them to precisely target areas of inflammation and injury in the body, significantly enhancing their overall therapeutic efficacy. The temporary presence of MSCs in the lungs does not diminish their potential benefits; in fact, they actively exert paracrine effects by releasing trophic factors and modulating the immune response. Continuous advancements in research and optimization of MSC administration techniques unequivocally support the highly effective delivery of these invaluable cells in regenerative medicine and tissue engineering.

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## 6. How can I determine if stem cells can help me?

The stated primary goal of our protocol is the marked reduction in the levels of chronic low-grade inflammation for an extended period. Stem cells have a unique, intrinsic property that attracts them to inflammation in the body. Studies have shown that stem cells can regenerate damaged or diseased tissues, reduce inflammation, and modulate the immune system promoting better health and quality of life.

## 7. Can stem cells help prevent aging?

With our current knowledge of stem cells, it is technically feasible to delay aging and improve both health and lifespan. Stem cells can play a crucial role in delaying the aging process. Stem cells, in combination with anti-aging genes, can create a sophisticated shield, which can prevent the effects of aging.

Stem cells, play a crucial role in delaying the aging process. Stem cells make a complex and protective shield, which stands against the eroding effects of aging. The shield of stem cells is a primary target for absorbing the shock of aging. If this shield neutralizes the shocks, it could lead to a youthful state.

Studies suggest that stem cell interventions that increase rejuvenation and keep in balance the expression of anti-aging genes could delay aging and result in a prolonged lifespan.

## 8. Can You Treat More Than One Area At A Time?

Yes, it is possible here! By knowing your unique case, the doctor will advise you whether treating more than one area is possible or not. Our great procedure will unlock the choice of treatment protocols that would be suitable for the patients because the result is better. Our experienced doctors will consider tons of factors for this like age, current condition going on, comorbidities, etc.

## 9. What Are the Next Steps If I'm Interested?

Schedule an appointment with us by calling:

**International Patient: +91 8743024344**

**Indian Patient: +91 7838223336**

You can even drop an email at “info@stemcellcareindia.com” by sharing the entire details of your condition.

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# Protocol

## 1. What conditions can stem cells help?

Mesenchymal stem cells may be able to help a variety of different conditions. The stated primary goal of our protocol is the marked reduction in the levels of systemic inflammation for an extended period. Stem cells have a unique, intrinsic property that attracts them to inflammation in the body. Studies have shown that stem cells can regenerate damaged or diseased tissues, reduce inflammation, and modulate the immune system promoting better health and quality of life.

## 2. What is the main goal of your protocol?

The stated primary goal of our protocol is the marked reduction in the levels of systemic inflammation for an extended period of time.

Stem cells have a unique, intrinsic property that attracts them to inflammation in the body. Studies have shown that stem cells can regenerate damaged or diseased tissues, reduce inflammation and modulate the immune system promoting better health and quality of life.

Depending on the primary ailment or initial condition of the patient, the effects of our study can lead to a reduction in harmful symptoms, stabilization of condition and a significant quality of life improvement an extended period of time.

## 3. Will I need more than one infusion?

The primary goal of our protocol is to promote long-term condition stabilization and we do not require follow-up infusions. Some do choose to return voluntarily, most commonly to achieve further improvements. We generally do not recommend more than one treatment per year for most degenerative conditions.

## 4. How long does it take to see results?

Study participants have reported measurable results within 3-6 months following treatment. This is indicated by a marked reduction in levels of systemic inflammation and changes in general vitality as measured by our follow-up questionnaire. However, it is common for patients to report improvements in their quality of life and a lessening of their symptoms within the first few weeks following their infusion. However, every patient is unique and may respond to the study differently.

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## 5. How long do the effects of stem cells last?

Patient response is dependent on a large variety of biological factors, however is also subject to the behavior and lifestyle of the patient. Patients who adhere to an active lifestyle, and anti-inflammatory diet, and restrict the consumption of alcohol, tobacco, and caffeine can see sustained results for 2+ years, depending on condition. On average, patients have reported little signs of regression up to 24 months following their infusion and patients rarely return to their original state.


## 6. Are there any side effects?

Multiple peer-reviewed studies have found mesenchymal stem cells to be a safe cell product. At DVC Stem, we have never had any patients report harmful effects from their infusion or a worsening of their condition.

Common short-term side effects immediately following the cell infusion have been fatigue, headache, and nausea. The patient will be under direct medical supervision for the duration of the treatment and recovery period of 1-2 hours. We have not had any reports of short-term side effects lasting for longer than 2-3 hours.

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# Onboarding

## 1. What information do you require before scheduling a treatment date?

To ensure patient safety and efficacy we require all patients to complete a panel of labs, medical exams, and imaging before final clearance. The information provided will allow our medical team to establish a baseline of your pre-infusion status and ensure study eligibility.

The specific requirements will be provided in detail via email after the initial screening application has been completed. Additionally, we have a patient management team that is available to help answer any questions related to the onboarding process.

## 2. How long does the onboarding process take?

The Onboarding process depends on the patients and how much time or days they will take to submit the important pre-treatment documentation. Patients hardly take 1 week to submit everything. After receiving every document, this stem cell therapy hospital in India will review all those files within 24 hours. We will book the treatment date after review.

## 3. Where is the Centre located?

Stem Cell Care India is located in Delhi NCR, the capital of India. Here, we provide stem cell treatment for MD, MS, ALS, Parkinson's, and many other diseases.

## 4. How long do I need to stay at the clinic?

The duration of the stay at the clinic can vary, depending on the treatment goals, the number of procedures necessary, and the patient's condition. Patients typically stay for three days for the treatment. We strive to create a comfortable and welcoming environment.

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