

# Stem Cell Therapy for Diabetes



**R3 Stem Cell International R3Stem.com +1 (888) 988-0515**  
***Changing Lives Every Day!***

# Overview of Diabetes

Diabetes is a very common disease that affects over 450 million people around the world. Diabetes occurs as two types. Type 1 is an autoimmune condition where one's immune system attacks and destroys your insulin producing cells in the pancreas. Type 2, which is much more common, is an acquired variety often due to correctible lifestyle issues (overweight, high blood pressure or cholesterol).

Diabetes is a very popular condition unfortunately, with 27% of the US population over the age of 65 having either variety. Due to one's blood glucose levels being chronically abnormal, secondary complications may occur such as neuropathy, kidney failure, skin ulcers, cardiovascular disease and more.

Traditional management of diabetes may work very well, and

include a combination of lifestyle changes along with various medications. Unfortunately, none of the conventional medications actually work to stop the pancreas damage or regenerate tissue.

## Stem Cell Therapy for Diabetes

stem cell therapy for diabetes represents a new paradigm, where the treatment can actually facilitate repair and regeneration of the pancreas while preventing some of the secondary complications. While not a cure for diabetes, it can truly provide patients with better blood sugar control along with improvements in kidney and heart function, neuropathy pain relief and better skin healing.

A 2016 review of 22 studies on stem cell therapy for diabetes showed that infusion of umbilical cord stem cells for Type 1 diabetes worked exceptionally better than traditional



treatment alone. The authors noted that the stem cell treatments were very safe, and that earlier treatment produced better results.

A study performed that same year looked at umbilical cord stem cell infusions for over 50 patients with Type 2 diabetes. Postprandial glucose and HbA1c measurements were lower in the experimental group for up to 2 years. Insulin usage and fasting C-peptide were significantly improved in the stem cell treatment group. The conclusion was that transplant of umbilical cord MSCs is feasible and safe for Type 2 diabetes.

Several studies have evaluated just HOW mesenchymal stem cells provide the beneficial effects for those with both Type 1 or 2 diabetes. The following mechanisms have been elucidated:

- The immunomodulatory action of MSCs, and in particular their ability to reduce the immune system activation.
- Anti-inflammation -both types of diabetes produce chronic inflammation in one's body, and the MSC's are great at reducing it.

- Anti-apoptosis – One of the ways that MSC's work is by reducing cell death. This allows important cells to stay around longer and continue to benefit the patient.
- Angiogenesis – This includes the production of new blood vessels. For patients with diabetic ulcers or neuropathy, this new blood flow is instrumental in healing skin and promoting nerve regeneration.

R3 Stem Cell International offers umbilical cord stem cell therapy infusions for those with Type 1 or 2 diabetes, with the results being stellar. The stem cell procedures are exceptionally safe, with pure, potent MSC's being used in high numbers to produce the best possible outcomes.

The numbers of stem cells used for patients ranges from 20 million up to 200 million, depending on the type of diabetes, its severity and the weight of the patient. No clinics around the world are able to offer the combination of quality stem cell biologic, very high cell counts and cost effectiveness as R3 Stem Cell. Contact us today!

# Frequently Asked Questions

A group of five diverse elderly people, including men and women of various ethnicities, are smiling and laughing together outdoors. They are dressed in casual, colorful clothing. The background is a soft-focus natural setting.

## **Q What Kind of Stem Cells are used and how many?**

R3 does NOT use embryonic stem cells (ESCs) or induced pluripotent stem cells (iPSCs) for treatments, as they are not ready for clinical use due to potential risks. R3 International uses biologics that contain mesenchymal and hematopoietic stem cells. Not only are they safe for patients, they are also effective for many conditions.

## **Umbilical Cord Stem Cells –**

Umbilical cord (UC) tissue is an amazing source of active, potent mesenchymal stem cells along with many other regenerative elements. R3 International offers UC treatments from 5 million stem cells up to a BILLION stem cells! They come from donor tissue after a scheduled c-section with no harm to baby or mother, and



are processed at accredited labs that are cGMP compliant and ISO certified.

**Exosomes** – These are small extracellular vesicles that are by products of umbilical cord stem cells. Active in cell to cell communication, they facilitate repair and regeneration. R3 incorporates exosomes frequently into patient treatments.

**Autologous Adipose** – Some R3 International Centers offer stem cell therapy using a patient's own adipose (fat) tissue. Adipose tissue contains plentiful stem cells, exosomes, growth factors, secretomes and other regenerative elements. This is typically performed in conjunction with umbilical cord stem cell treatment.

## **Q Are there risks involved?**

Stem cell and exosome procedures at R3 International are very safe. To date, no patients have experienced a significant adverse event such as disease transmission, deep infection, or rejection reaction. The vast majority of side effects have been mild and temporary.

However, any regenerative procedure with donor material entails risks which may include infection, rejection, allergic reaction, nausea, dizziness, fever, bleeding and others.

## **Q What are the outcomes?**

After nine years and 16,000 stem cell procedures worldwide, R3 consistently achieves an 85% overall success rate. This includes patients with very difficult conditions.

Patients need to understand that stem cell therapy is not a cure for a condition, rather, typically very effective at modifying and/or mitigating disease. It may need to be repeated as well, as patients are different in their response

# Safe, Effective Treatment with R3 Stem Cell International

R3 Stem Cell International takes great pride in helping patients with safe, effective regenerative therapies that are nonsurgical and drug-free. Treatment protocols are customized to each patient's specific needs, with an unparalleled combination of excellent outcomes, safety and cost effectiveness.

Most stem cell clinics do not understand that high cell counts are critical to patient success. If they do, then the treatment pricing ends up being 2-3 times higher than R3 because of the biologic cost. They simply do not have the volume to produce quality biologics with high cell counts at affordable pricing. R3 has spent the last decade growing its patient base worldwide to develop the buying power so that the best biologics are offered with considerable savings. Our mission has always been to offer the most

effective stem cell and exosome therapies without having finances get in the way.

By offering high cell counts at extremely competitive pricing, R3 provides patients with the absolute best chance of improvements, while doing its best to make the treatments affordable. R3 leverages its global volume to make its first rate stem cell treatments the most cost effective anywhere in the world, while maintaining quality assurance second to none!

We use best practice protocols developed from our own clinical experience as well as the peer reviewed literature to stay on the cutting edge of regenerative therapies. Rest assured that when you receive treatment with R3 Stem Cell International, you and your loved ones will be in the best hands!



# Partial List of Conditions Treated at R3 Stem Cell International



- Alzheimer's Disease
- Amyotrophic Lateral Sclerosis (ALS)
- Ankylosing Spondylitis
- Anti Aging
- Arthritis & Joint Pain
- Autism
- Back Pain
- Cerebral Palsy
- Chronic Kidney Disease
- Cirrhosis
- COPD
- Crohn's Disease
- Degenerative Disc Disease
- Diabetes
- Erectile Dysfunction
- Failed Back Surgery
- Fibromyalgia
- Heart Failure
- Hepatitis
- Inflammatory Bowel Disease
- Kidney Failure
- Liver Failure
- Lung Disease
- Lupus
- Lyme Disease
- Neuropathy
- Multiple Sclerosis
- Muscular Dystrophy
- Osteoarthritis
- Parkinson's Disease
- Post Concussion Syndrome
- Post Covid
- Psoriasis
- Pulmonary Fibrosis
- Rheumatoid Arthritis
- Scleroderma
- Spinal Cord Injury
- Spinal Muscular Atrophy
- Stroke
- Traumatic Brain Injury
- Ulcerative Colitis

# Getting Started



Starting the process for treatment at R3 Stem Cell International is easy. You can visit **R3Stem.com** to see the various locations available and complete your consultation request, or also call us at

**+1 (888) 988-0515**

Each prospective patient undergoes a virtual consultation with one of our highly experienced stem cell doctors. Very convenient!

***Find out today if you or a loved one is a candidate for life changing stem cell therapy.***



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