

# Stem Cell Therapy for Stroke



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

# Overview of Stroke

Stroke is a major cause of death and disability worldwide, with a 1 in 6 lifetime risk. That risk actually doubles for each decade after the age of 55.

Ischemic stroke accounts for 87% of cases, which is when a blood vessel supplying the brain becomes obstructed. Hemorrhagic stroke occurs when a weakened blood vessel ruptures, such as with an aneurysm or an AVM.

A transient ischemic attack (TIA) is called a “warning stroke”, as it involves reversible symptoms of a true stroke. 12% of ischemic strokes are preceded by a TIA. Risk factors for stroke include high blood pressure, smoking, oral contraceptives, illegal drugs or alcohol use.

Symptoms of a stroke may include weakness, vision issues, facial drooping and speech abnormalities. Usually a CT or MRI scan will display the extent of the damage.

Immediate treatments for an ischemic stroke may include clot busting drugs, thrombectomy

and eventually anticoagulants and possibly a carotid endarterectomy +/- a stent. For a hemorrhagic stroke, a metal clip may be indicated.

Traditional treatments for stroke recovery include intensive rehab for months, but after the six month time frame progression truly slows to a crawl.

## Stem Cell Therapy for Stroke

Prior to stem cell therapy, no effective biologic has existed to help with actual repair of damaged brain tissue. There are several mechanisms of action of stem cells, which include:

- Neuroprotection – keeps neurons from getting injured.
- Neuroregeneration
- Anti-inflammation – helps with repair.
- Immune Modulation – promotes nerve regeneration.
- Anti-Apoptosis – prevents cell death.
- Angiogenesis – formation of new blood vessels.

A 2019 Review in Brain Research



evaluated 24 patients receiving stem cells through an intrathecal approach up to 11 years out from the stroke. The results were amazing, displaying improved ambulation, hand control and balance.

Another study in 2019 evaluated 36 patients receiving 1.5 million stem cells per kg up to 8 years after a stroke. The results were tremendous, with the vast majority of patients seeing significant functional and behavioral benefits. There were no significant adverse events.

R3 Stem Cell International offers safe and effective stem cell therapy for stroke patients, whether the stroke was recent or years prior. We have seen excellent outcomes using a combination of intravenous and

intrathecal application, with each patient being evaluated individually to see if he or she is a candidate.

Stem cell dosing depends on patient weight, ranging from 50 million up to 200 million stem cells R3 also adds in exosome therapy for additional benefits.

Over the past decade, R3 Stem Cell's Centers have performed 16,000 stem cell procedures globally. 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. In addition to stroke, R3 effectively treats over 70 conditions such as orthopedic, autoimmune, neurologic, autism, organ failure and more. Contact us today!



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# Frequently Asked Questions



## **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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