

# Stem Cell Therapy for Autism Spectrum Disorder (ASD)



**STEM CELL™**  
INTERNATIONAL

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

# Overview of Autism Spectrum Disorder (ASD)



Autism Spectrum Disorder includes several conditions that used to be diagnosed separately and involves difficulty with communication and social interaction. ASD occurs in all racial, ethnic and socioeconomic groups around the world.

Traditional treatments for ASD often help substantially, but do not focus on addressing the underlying causes such as neuroinflammation and immune dysregulation.

### **Stem Cell Therapy for ASD**

Numerous peer reviewed studies have shown incredible benefits of intravenous umbilical cord stem cells for children with ASD. This includes significant improvements in behavior, socialization and cognitive ability along with an extremely safe treatment profile.

The amount of umbilical cord stem cells used for children with ASD ranges from 50 million to 200 million, with the addition of exosomes amplifying the benefits. To date, no significant

adverse events have been seen, with children tolerating stem cell therapy extremely well.

Stem cell therapy is not a cure for ASD. Most children respond with exceptional improvements, and families opt for multiple treatment sessions.

A 2013 study in 37 children, ages 3 to 12, showed that umbilical cord stem cells were not only very safe, but also very effective for improving patient's speech, irritability, hyperactivity, and behavior as well. The children received 3 million stem cells/kg per treatment for a total of four IV and Intrathecal treatments.

The authors theorized that the mechanisms involved in improving the autistic symptoms might be through increased perfusion in brain areas and/or the regulation of immune dysfunction.

### **References**

World Journal of Stem Cells 2014 and 2019  
Stem Cells & Translational Medicine 2017  
Journal of Translational Medicine 2013

# Frequently Asked Questions

A group of diverse children, including a young girl with curly hair, a boy with a wide smile, and a girl with a grey beanie, are looking up at the camera with joyful expressions. The background is bright and out of focus.

## **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.

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!

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# 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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