

# Stem Cell Therapy for Amyotrophic Lateral Sclerosis (ALS)



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

# Overview of Amyotrophic Lateral Sclerosis (ALS)



Amyotrophic lateral sclerosis, known as ALS, is a fatal, adult onset progressive disease of the nervous system affecting nerve cells in the spinal cord and brain. Currently there is no cure for ALS, and all too often doctors do not know why the disease occurs.

The cause is not well understood. There are many theories about potential causes including mitochondrial dysfunction, free radical injury,

autoimmune mechanisms, viral infection and others.

Symptoms often include slurred speech, limb weakness and eventually difficulty with eating, speaking and breathing. Traditional treatments for ALS often help substantially with symptoms, but none have significantly slowed down progression.

## Stem Cell Therapy for ALS

While not a cure for ALS, stem cells are an exciting option as they can facilitate neuron replacement and regeneration. They can home in to sites of damage and stimulate tissue repair and regeneration.

Numerous peer reviewed studies have shown excellent benefits and safety of intrathecal umbilical cord stem cells for those with ALS. This includes significantly longer survival rate than with traditional

treatment and also much better functional scores with activities of daily living.

The amount of umbilical cord stem cells used for those with ALS ranges from 50 million to a Billion (depends on severity and patient weight), with the addition of exosomes amplifying the benefits.

## References

Annals of Neurology 2018  
Journal of Neurological Sciences 2007  
Stem Cell Reviews and Reports 2020



# 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



## 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

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.

# Safe, Effective Treatment with R3 Stem Cell International

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A 2020 study out of Poland looked at 67 ALS patients, with a control group being treated with traditional medications, and the other group receiving traditional medications plus each receiving three doses

intrathecally of 30 million umbilical cord stem cells two months apart. The results were incredible for the stem cell group, showing that treatment with MSCs substantially reduces the rate of progression and yields a twofold extension of survival in those who achieved a positive response to the first administration in comparison to the reference subject.

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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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