



STEM CELL INSTITUTE

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Stem Cell Therapy for Autism

What is Autism?

Autism is a spectrum of disorders characterized by marked abnormalities in communication and social interactions. Two common consistent findings are associated in children with this disorder are diminished oxygenation in specific areas of the brain and a chronic immunologically mediated inflammatory condition in the gut.

What is the scientific rationale behind using stem cells to treat autism?

Current investigative therapies for autism attempt to reverse these abnormalities through administration of antibiotics, anti-inflammatory agents, and hyperbaric oxygen. Unfortunately, none of these approaches address the root causes of oxygen deprivation and intestinal inflammation.

The rationale behind treating autism with umbilical cord tissue-derived mesenchymal stem cells is that autism, and its degree of severity, has been significantly correlated inflammatory and neuro-inflammatory cytokines including macrophage-derived chemokine (MDC) and thymus and activation-regulated chemokine (TARC). Intravenous administration of umbilical cord MSCs has been shown in multiple clinical trials to decrease inflammation. Decreasing inflammation in the autistic patient may alleviate symptoms of autism.

Through administration of mesenchymal stem cells, we have observed [improvement in patients treated at our facilities](#).

Related Scientific Publications:

[Elevated serum levels of macrophage-derived chemokine and thymus and activation-regulated chemokine in autistic children – Journal of Neuroinflammation](#)

Stem Cell Therapy for Autism – In a parent's own words:

Stem Cell Treatments for Autism - Danny Briones



Which types of stem cells are used to treat autism and how are they obtained?

The adult stem cells used to treat autism at the Stem Cell Institute come from human umbilical cord tissue (allogeneic mesenchymal). Umbilical cords are donated by mothers after normal, healthy births. Before they are approved for treatment all umbilical cord-derived stem cells are screened for viruses and bacteria to International Blood Bank Standards.

Umbilical cord-derived stem cells are ideal for the treatment of autism because they allow our physicians to administer uniform doses and they do not require any stem cell collection from the patient, which for autistic children and their parents, can be an arduous process. Because they are collected right after (normal) birth, umbilical cord-derived cells are much more potent than their “older” counterparts like bone marrow-derived cells for instance. Cord tissue-derived mesenchymal stem cells pose no rejection risk because the body does not recognize them as foreign.

Dr. Riordan on the Umbilical Cord Selection Process at Stem Cell Institute

“Through retrospective analysis of our cases, we’ve identified proteins and genes that allow us to screen several hundred umbilical cord donations to find the ones that we know are most effective. We only use these cells and we call them ‘golden cells.’

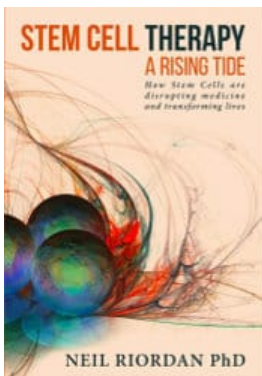
We go through a very high throughput screening process to find cells that we know have the best anti-inflammatory activity, the best immune modulating capacity, and the best ability to stimulate regeneration.”

What are the advantages of treating autism with allogeneic umbilical cord tissue-derived stem cells?

- ✓ Since HUCT mesenchymal stem cells are immune system privileged, cell rejection is not an issue and Human Leukocyte Antigen (HLA) matching is not necessary.
- ✓ The stem cells with the best anti-inflammatory activity, immune modulating capacity, and ability to stimulate regeneration can be screened and selected.
- ✓ Allogeneic stem cells can be administered multiple times over the course of days in uniform dosages that contain high cell counts.

- ✓ Umbilical cord tissue provides an abundant supply of mesenchymal stem cells.
- ✓ No need to collect stem cells from the patient's hip bone or fat under anesthesia, which especially for small children and their parents, can be an unpleasant ordeal.
- ✓ There is a growing body of evidence showing that umbilical cord-derived mesenchymal stem cells are more robust than mesenchymal stem cells from other sources.
- ✓ No need to administer chemotherapy drugs like granulocyte-colony stimulating factor (G-CSF or GCSF) to stimulate the bone marrow to produce granulocytes and stem cells and release them into the bloodstream.

Read the entire chapter on stem cell therapy for autism from Dr. Riordan's book



For more detailed information about our autism treatments, we welcome you to read/download the entire chapter on stem cell therapy for autism from Dr. Riordan's new book, *Stem Cell Therapy: A Rising Tide – How Stem Cells are Disrupting Medicine and Transforming Lives*. [CLICK HERE \(FREE PDF\)](#)

“Neil takes readers on a riveting journey through the past, present and future of stem cell therapy. His well-researched, educational and entertaining book could change your life. I highly recommend it.” – Tony Robbins, NY Times #1 Bestselling Author

“100 years old will soon become the new 60. Stem cells are a key therapeutic to enable this future. Dr. Riordan's book is your guide to why this is true and how you will benefit. A must read for anyone who cares about extending their healthy lifespan.” – Peter H. Diamandis, MD; Founder, XPRIZE & Singularity University; Co-Founder, Human Longevity, Inc.; Author of NY Times Best Sellers *Abundance* and *Bold*

Our mesenchymal stem cells and the US FDA: Are they approved?

No stem cell product from any source, including the patient's own, is approved by the US FDA to treat autism or any other common condition or disease. From the FDA's website, "FDA has approved only one stem cell product, Hemacord, a cord blood-derived product manufactured by the New York Blood Center and used for specified indications in patients with disorders affecting the body's blood-forming system." ([FDA reference](#))

However, human umbilical cord tissue-derived mesenchymal stem cells (MSCs) that were isolated and grown in our laboratory in Panama to create master cell banks are currently being used in the United States under US FDA regulation.

These cells serve as the starting material for cellular products used in MSC clinical trials for two Duchenne's muscular dystrophy patients under US FDA's designation of Investigational New Drug (IND) for single patient compassionate use. (IND 16026 DMD Single Patient).

Will the patient reject this type of stem cell?

The body's immune system is unable to recognize umbilical cord-derived mesenchymal stem cells as foreign and therefore they are not rejected. HUCT stem cells have been administered thousands of times at the Stem Cell Institute and there has never been a single instance rejection (graft vs. host disease). As a matter of fact, allogeneic (not the patient's own) mesenchymal stem cells are approved to treat graft vs. host disease in Canada and New Zealand.

Umbilical cord-derived mesenchymal stem cells also proliferate/differentiate more efficiently than "older" cells, such as those found in the fat and therefore, they are considered to be more "potent".

In the words of an expert:

In this next video (just past the 1 minute mark), Arnold Caplan, PhD explains the mechanism by which donor mesenchymal stem cells shield themselves from the recipient's immune

system. Dr. Caplan is the scientist who discovered the mesenchymal stem cell. He is commonly referred to as “the father of the mesenchymal stem cell”.

The Science of Mesenchymal Stem Cells and Regenerative Medicine - Arn...



How are the stem cells administered for autism treatment?

The umbilical cord-derived stem cells are administered intravenously by a licensed physician.

Stem Cell Treatment: Autism *Protocols

Treatment protocol will be assigned by staff physicians after the patient has submitted all requested medical information and received approval. A patient’s recommended protocol may differ from the example given below.

- ✓ Treatment length (Monday – Friday): 5 Days
- ✓ Physical examination and blood testing: Monday

- ✓ 4 intravenous infusions of human umbilical cord tissue-derived allogeneic mesenchymal stem cells: Tuesday – Friday

*Includes Hilton hotel room with breakfast, WIFI, transportation from and to the airport with VIP airport gate service and expedited customs clearance upon arrival, and transportation between the Hilton and Stem Cell Institute.

What about follow-up after we return home from Panama?

Proper follow-up is an essential part stem cell therapy for autism. Our primary goal is to ensure that your child is progressing safely. Regular follow-up also enables us to evaluate efficacy and improve our autism treatment protocols based on observed outcomes.

Therefore, our medical staff will be contacting you after 1 month, 3 months, 6 months, and 1 year to monitor your child's progress.

How do I request more information about stem cell therapy for autism?

You may contact us by telephone 1 (800) 980-STEM (toll-free in US) and 1 (954) 358-3382.

Apply for treatment today

To apply for stem cell treatment, please complete this [Patient Application Form](#).

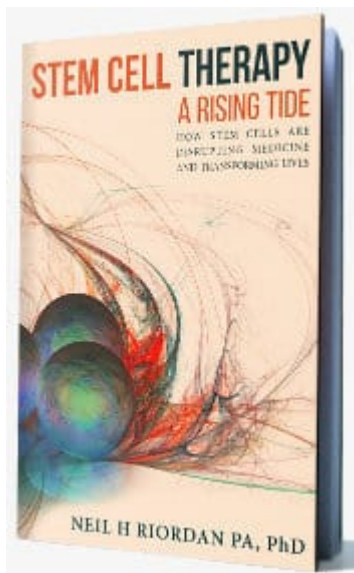
Apply Now!

APPLY NOW!

If you would like our doctors to evaluate your child and give you a recommendation, the first step is to complete our online medical history/application. Once we receive it, our staff will contact you to answer general questions and to guide you through the rest of the evaluation process. This evaluation is free of charge.

Your Content Goes Here

Read Dr. Riordan's new book about stem cell therapy today



Stem cells are the repair cells of your body. When there aren't enough of them, or they aren't working properly, chronic diseases can manifest and persist.

Neil H Riordan PA, PhD, author of *MSC: Clinical Evidence Leading Medicine's Next Frontier*, the definitive textbook on clinical stem cell therapy, brings you an easy-to-read book about how and why stem cells work, and why they're the wave of the future.

From industry leaders, sport stars, and Hollywood icons to thousands of everyday, ordinary people, stem cell therapy has helped when standard medicine failed. Many of them had lost hope. These are their stories.

"Neil takes readers on a riveting journey through the past, present and future of stem cell therapy. His well-researched, educational and entertaining book could change your life. I highly recommend it." – **Tony Robbins, NY Times #1 Bestselling Author**

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Scientific Articles

[Stem Cell Therapy for Autism](#)

Ichim T, Solano F, Glenn E, Morales F, Smith L, Zabrecky G, [Riordan Neil](#).

– *Journal of Translational Medicine* 2007, 5:30

CONTACT INFO

BISCA Tower 63rd
Floor
Panama City,
Panama
Phone: +1 (800)
980-STEM (7836)
Web:
www.cellmedicine.com

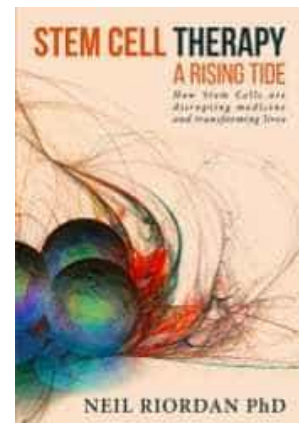
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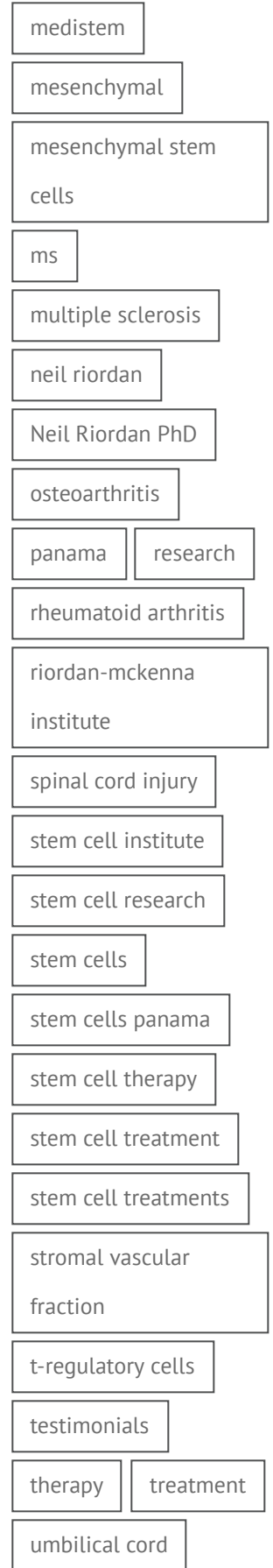


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umbilical cord stem
cells

video

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