

Riordan Clinic Health Hunters

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Riordan Clinic is a not-for-profit 501(c)(3), nutrition-based health facility in Wichita, Kansas cofounded in 1975 by Olive W. Garvey and Hugh D. Riordan. We have integrated lifestyle and nutrition to help you find the underlying causes of your illness. Since our inception in 1975, the mission has been clear and unwavering to "...stimulate an epidemic of health."

Stem Cell Therapy for Chronic Disease: An Interview with Dr. Neil Riordan (Part 2)



Neil Riordan, PhD is an accomplished scientist and one of the pioneers and leading experts in the use of non-

controversial stem cells. He began his research career at the Riordan Clinic, leading the research team studying the pro-oxidant effects of high dose intravenous vitamin C on cancer. He went on to develop and refine mesenchymal stem cell technologies that he utilizes at the Stem Cell Institute in Panama, where these technologies continue to be implemented in patients with autoimmune and degenerative diseases and injuries. He is also the co-founder and Chief Science Officer of the Riordan-McKenna Institute in Dallas, Texas. In the stem cell arena, he and his colleagues have published more than 20 articles on multiple sclerosis, spinal cord injury, heart failure, rheumatoid arthritis, Duchenne muscular dystrophy, autism, and Charcot-Marie-Tooth Syndrome. His new book, Stem Cell Therapy: A Rising Tide: How Stem Cells Are Disrupting Medicine and Transforming Lives, has recently been published.

Anne: In your research is there anything nutritional that you have found that closely connects to stem cell modulation or regeneration?

NR: Well, we did studies years ago on bone marrow, sourced from a cancer center. We tested what was most beneficial to nourishing the marrow for stem cell production. We first screened the literature for things that could reduce or reverse radiation damage, things that could potentially protect and enhance telomere regeneration, things associated with longevity. We tested only things that are Generally Regarded as Safe (GRAS), because we wanted a product that could actually help people.

We basically found seven different things that can help. The most potent was an extract of lactobacillus fermentum, the bacteria that makes sourdough bread sour, and we've been making a product with that for years called Imm-Kine[™], which is for the immune system. We didn't know it had a magnificent impact on these stem cells. Blueberries have a strong

Nutrient Store Specials



STEM-KINE Stem Cell Formula

Increases the amount of circulating stem cells for an extended period of time.



IMM-KINE Immune Formula

Boosts your immune system, increases athletic performance and aids post work-out healing. effect, also green tea extract, ellagic acid from pomegranate, and goji berries. We tested these and put them into a product, did a clinical trial at Riordan Clinic and measured the circulating stem cells. The result is the product Stem-Kine[™]. When you take this nourishment for your marrow, you wind up with more circulating stem cells – EPCs, the endothelial precursor cells. They're required for repair of your vascular system from the inside out, they survey and repair. As we age those cells go down and in certain disease conditions that number declines, most notably in diabetes. With well-controlled

"WHAT'S THE MOST IMPORTANT NUTRIENT?" PEOPLE WOULD SAY VITAMIN C, OR ZINC WAS THE POPULAR ONE BACK IN THE DAY, AND HE'D SAY, "NO, IT'S THE ONE YOU'RE OUT OF."

diabetes they're 70% of a non-diabetic, with moderately controlled, that goes down to about 50%, and poorly controlled those circulating EPCs can be in the single digits. That's why you see such high levels of cardiovascular disease, kidney disease, and retinopathy in diabetics. The more poorly controlled the diabetes, the more apt somebody is to have one of those conditions. You see the same ratio in erectile dysfunction and migraines. This was a targeted approach to what we could supplement to the masses that would bring improvement, a beneficial effect on those stem cell numbers.

The Riordan Clinic looks at what nutrients you're missing. My dad (Dr. Hugh Riordan) would ask, "What's the most important nutrient?" People would say vitamin C, or zinc was the popular one back in the day, and he'd say, "No, it's the one you're out of." That holds true for your stem cells. If you deplete one thing your cells won't grow.



Factors that can increase longevity and production of circulating stem cells (EPCs)¹:

- 1. Regular, Moderate Exercise
- 2. Smoking cessation
- 3. Living at a higher altitude

SUFFICIENT PROTEIN

- Pasture-raised meat /eggs
- Fish (especially that high in Omega 3s such as salmon, sardines, and herring)
- Organic beans
- Organic dairy (if tolerated)

MINIMIZING CARBOHYDRATES

(such as sugar, potatoes, and grains)

REGULATING BLOOD SUGAR

- 4. Hyperbaric oxygen therapy
- 5. Statin drugs (can have an antiinflammatory effect)
- 6. Diet See below for more detail

ANTI-INFLAMMATORY FOODS

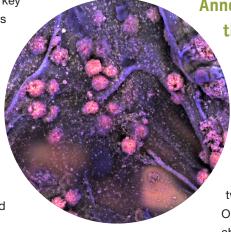
- Blueberries
- Goji berries
- Green tea extract
- Astragalus
- Carnosine
- Red wine (primarily resveratrol from the skin of red grapes)
- Folate
- Vitamin C

Anne: Tell us about the work you are doing in Panama, the conditions you are treating, and the success you've seen.

NR: We have seven clinical trials, of which we've completed two. One was the MS (Multiple Sclerosis) trial, which I can't tell you much about except there were no adverse events and some improvements. It's submitted for publication now. We finished our autism trial as well, and it's the same as the MS, no adverse events and some improvements. The safety of that is really important because it was the largest number of treatments, four injections each in four sessions on 33 individuals, 16 infusions of these cells, without a single serious adverse event. We just finished the one-year follow-up on everybody.

The vast majority of cases are people with autoimmune conditions because these cells are really good at resetting your immune system. There's a very large study on RA (rheumatoid arthritis) that showed benefit to every single participant. You see RA drugs advertised every day, it's a 14 billion dollar industry. The drugs to treat RA and other autoimmune conditions target one of two molecules: Interlukan-6 and TNF-alpha. Those are the generals of your immune system's army. The injections (of drugs) bind those up, and you get a temporary benefit of lower levels of those molecules. However, the underlying reason for it is dysfunctional MSCs. There's a very important cell called the T-regulatory cell, it's one of your T cells. If the MSCs are working properly they will stimulate enough juice to keep your T cells multiplying. The net result of injecting MSCs in an RA patient is their T-regulatory cells numbers will go up. Just a single treatment will result in shutting down those molecules, and persist for six months. Eight months later it's still significantly 50% lower. If you give them another shot, those key molecules are suppressed another 50%, which is 75% from the outset.

We see spinal cord injury patients, too. In my book I write about why the spine doesn't heal itself. The MSCs are found on every blood vessel in your body. The liver is incredibly vascular, so you can cut out 80% of the liver and it can fully regenerate. However, you can't even bruise the spinal cord without it having a hard time recovering. The gray matter of the cord is estimated to have 1/10th of the blood supply of the liver, and the white matter has 1/5th of the gray matter, which is 1/50th of the liver. From a clinical standpoint it's very easy to treat spinal cord injury; we give IVs and injections of stem cells into the spinal column. In a rat study I cite a lot, they severed the spinal cord, and put human cells in there in a glue to keep the ends together, and the cells actually stimulated regeneration. In looking at it later, they couldn't find any human



Scanning electron micrograph of mesenchymal stem cells cultured in an alginate

Luo Gu, James Weaver, and David J Mooney. School of Engineering and Applied Sciences, and the Wyss Institute for Biologically Inspired Engineering, Harvard University

cells, because those cells weren't becoming anything, they were secreting what was needed for regeneration.

We have a lot of autistic patients. Our autism trial is the most downloaded article on that database. The main mechanism for the MSC to be useful is because autism, like a lot of disorders of the brain, is associated with inflammation of the brain,



and these cells are potently anti-inflammatory. Many people with autism have inflamed nodules in their small intestines that resemble Crohn's disease and there are really good data showing MSCs are good for Crohn's disease. Regions of the brain have decreased blood flow with autism, and I believe that's secondary to inflammation, which also creates more white matter and compresses blood flow even further. MSCs are a good way to break that immune cycle.

In Panama most patients found us through <u>cellmedicine.com</u>, and it's been up since 2004, but 90% of our patients are now referrals from other patients. I get a lot of phone calls, and the reason I wrote this book is because I tend to answer all these questions over and over again, so it's helped my life because people can find all the answers they're looking for without having to ask me! People can apply on the website to see if they're a candidate for treatment.

Anne: The big question is, how soon with this be available in the US? How many doctors do you know of who are doing something similar?

NR: What we do in Panama, no one is doing in the US. We have a special license in Panama that lets us create these cells, and in the US we have two compassionate use trials going on for two people with Duchenne's muscular dystrophy. One in Wichita is named Ryan Benton, who I talk about a lot. His case has been published about quite a bit, the son of very close friends of mine growing up. Ryan's now 31, we started treating him here three years ago. The FDA has signed off on our methods for our cells from Panama in that case, and for another, a six-year-old. It is happening in the US on a very small scale. We plan on going after three orphan conditions in the US with full FDA

trials relatively soon. There's a trial on clinicaltrials.gov with six centers in the US for treating lupus with umbilical cord MSCs, and that says a lot about how far we've come. There was recently a bill passed in Texas called Charlie's Law, named after one of the representatives who passed away during the session, House Bill 810, which allows for the treatment of people utilizing adult stem cells in Texas regardless of the FDA, which is like one of those marijuana laws that's against federal law. Texas is very conservative, so this only applies to adult stem cells, no fetal or embryonic cells are allowed to be used, and they have to be in clinical trials with large institutions. One of the comments was that we don't want strip-mall stem cell clinics, and I completely agree with that. They put pretty high bars in there for where these treatments can take place. The only conditions that are treatable are terminal conditions, or severe chronic debilitating disease. That's the wild card on which conditions those are, those regulations haven't been written yet, which will take another six months to a year, so in about a year and a half is the soonest you could see it here, if everything goes smoothly.

The stem cells in our blood, also called circulating stem cells, are the tools our bodies use to repair damaged tissue and to keep us healthy. Aging, genetics, and poor lifestyle choices use up our supply of circulating stem cells. You can't stop aging, and you can't help genetics, but you can improve both areas by taking action with what you can change: your lifestyle choices. The harder you work to take care of the stem cells you have, and the less frequently you use them to repair damages you could have avoided with a healthy lifestyle, the more you are doing to protect what all the money in the world can't buy back once it's wasted: your own good health. (RIORDAN, 2017, P.221)

Reference

1. Riordan, N.H. (2017). Stem Cell Therapy: A Rising Tide: How Stem Cells Are Disrupting Medicine and Transforming Lives. United States of America: (n.p.).

FRIDAY, OCTOBER 6 AT 6:30PM STEM CELL THERAPY LECTURE AND BOOK SIGNING

with Guest Author and Speaker Dr. Neil Riordan



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NEIL H RIORDAN PA, PhD

STEM CELL THERAPY

RSVP AT RIORDANCLINIC.ORG/EVENTS

What does Real Health mean to you? Post a picture with your bracelet letting people know #ichooserealhealth!

> REAL HEALTH starts with a commitment to achieving better health in a more natural way. We believe Real Health is a journey, not a destination.

At the Riordan Clinic, we have over forty years of experience helping people find the root causes of illnesses by using comprehensive lab testing, nutrition and lifestyle changes. Let our experts help you on YOUR WAY TO WELL.

To learn more, visit RiordanClinic.org/real-health.

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IVC and the Riordan Approach to Adjunctive Cancer Care:

7 Key Questions

For more information, we advise you to go to www.youtube.com and search for "Riordan Clinic" to watch Dr. Ron Hunninghake's presentation: IVC and Cancer Care



1. What is IVC and how does it benefit cancer patients?

Intravenous vitamin C (IVC) is an adjunctive cancer therapy, widely used in naturopathic and integrative oncology settings. Two decades of grounding-breaking research on IVC therapy at the Riordan Clinic have resulted in the Riordan IVC Protocol for Adjunctive Cancer Care.

While the focus of this protocol is IVC, Dr. Hugh Riordan emphasized the importance of providing comprehensive wellness care for the cancer patient in conjunction with the IVC therapy.

2. What are the proven benefits of IVC therapy in the care of cancer patients?

During this intravenous treatment, high doses of buffered ascorbic acid enter your body through a small tube inserted into a vein in your arm or through a port. This results in blood levels of vitamin C that reach 300-400 times the levels achievable by oral intake alone. The cancer patient can benefit from IVC therapy in several ways:

- Because cancer patients are often depleted in vitamin C, the IVC provides a rapid means of restoring tissue reserves.
- IVC improves quality of life in cancer patients by a variety of metrics, as documented in four published studies.
- IVC reduces inflammation as measured by C-reactive protein levels.
- IVC reduces the production of pro-inflammatory cytokines, which down-regulates the "micro-inflammatory cellular environment" of cancer cells.
- IVC is preferentially toxic to tumor cells but not to normal cells.
- IVC inhibits the growth factor that promotes new blood vessels to grow towards the tumor.

3. Is IVC a vitamin or a drug?

IVC shifts ascorbate function from a simple anti-scurvy vitamin to a surprisingly beneficial pro-oxidant with powerful pharmaceutical actions. Pharmaceutical IVC doses have shown significant anticancer effects in animal models and tissue culture studies. This well studied effect has been described as the "selective cytotoxicity effect of high dose ascorbate on tumor cells." Numerous research institutions have replicated this effect over the last several decades. Only recently has research on sepsis brought this effect to the attention of conventional medicine.

4. Is IVC "a natural chemotherapy agent?"

Although the literature and clinical studies do suggest that IVC has a good safety profile and important anti-tumor activity, it is nevertheless not to be considered a "stand alone" chemotherapy agent. IVC is best utilized as one component of a multi-faceted, adjunctive care approach that would best include dietary, nutritional, and lifestyle changes that support

Contact the Editor

Please send any comments or suggestions to newseditor@riordanclinic.org. Thank you for reading,



Dr. Anne Zauderer Editor

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Health Hunters Newsletter

Join our mailing list to receive this monthly newsletter FREE.

To sign up, go to riordanclinic.org or email us at information@riordanclinic.org overall wellness in the cancer patient. When used in this wellness context, IVC acts as an ideal adjunctive therapy that can:

- reduce chemotherapy side effects
- improve survival time
- enhance quality of life for the cancer patients receiving it once or twice weekly as part of an overall lifestyle program of care

5. How is IVC used in conjunction with traditional oncology?

Published studies have shown that IVC therapy can be used in parallel with traditional cancer treatments, such as surgery and chemotherapy, without interfering with their effectiveness. Ideally, the cancer patient will enlist BOTH an oncology team that is providing optimal treatment for the cancer disease, and a wellness support team that is addressing the multifaceted challenges that every cancer patient must face. Best practice suggests that the medical implementation of IVC in the care of a cancer patient would lean heavily on baseline and periodic nutritional laboratory monitoring.

6. What are the "basics" of the Riordan IVC Protocol?

The Riordan IVC Protocol for Adjunctive Cancer Care is an integrative program that favors optimal treatment for both the cancer disease and the wellness care of the patient who has cancer diagnosis.

The decision to start IVC is made by Riordan medical providers after careful review of the patient's medical history, in conjunction with comprehensive lab testing. Treatment is to be continuous with infusions of IVC two times per week, on average. Regular treatments with IVC, without lapses in treatment, have been shown by our studies to increase the overall effectiveness of the IVC in suppression of tumor growth.

The Multi-C Oral Vitamin C Protocol is advised 2-3 times daily, especially on non-IVC days as an important but often neglected part of an effective implementation of the Riordan Protocol. The Multi-C Protocol includes oral liposomal C, sodium ascorbate, and ascorbyl palmitate to maintain high serum, extracellular, and intracellular levels of vitamin C between intravenous infusions.

Infusion time requirements and financial requirements need to be carefully assessed prior to beginning IVC treatment to determine whether the patient can sustain the benefits of the complete protocol.

IVC is typically continued until there is an improvement of patient conditions (stabilization of patient tumor or no detection of cancer for a 12 month period of time). At such a point, treatment frequency is gradually tapered while maintaining the Multi-C Oral Protocol.

The updated Riordan IVC Protocol for Adjunctive Cancer Care and our cancer research articles relating to IVC and cancer are helpful to read and share with your medical support team. These can be found on our website www.riordanclinic.org.

7. What are the "adjunctive" components of the Riordan IVC Protocol for Adjunctive Cancer Care?

Following Dr. Hugh Riordan's death in 2005, the Riordan approach to the care of cancer patients was formulated by way of 7 key verbs in 7 precepts:

1. CREATE CO-LEARNER RELATIONSHIPS

Cancer patients co-learn best in partnership with their Riordan doctors.

2. IDENTIFY THE CAUSES

The Real Health Discovery Laboratory panel is utilized to search for and address 17 common underlying causes that perpetuate conditions that have been shown to give rise to cancer. Correcting these factors can help the body's healing system slow and possibly eliminate cancer growth.

Upcoming Events

IVC: Nature's Remedy For Chronic Disease

Wednesday, October 4th 12:00pm – 1:00pm Drs. Ron Hunninghake & Thomas Levy Cost: FREE

Research studies have honed in on how high-dose vitamin C kills cancer cells (in vitro). The Riordan Clinic was among the pioneers of IVC research, specifically in the area of cancer care. Stem Cell Therapy Lecture & Book Signing Friday, October 6th 6:30pm – 8:00pm Cost: FREE

Neil Riordan, PhD is an accomplished scientist and one of the pioneers and leading experts in the use of non-controversial stem cells. He went on to develop and refine mesenchymal stem cell technologies implemented in patients with autoimmune and degenerative diseases and injuries.

For more information or to register for any of these events, please call 316-682-3100 or email: reservations@riordanclinic.org.

Food as Medicine

Wednesday Oct 11th & Nov 1st 11:30am – 1:30pm Cost: FREE

This in-depth course will connect the dots and address some fundamental questions behind how our diet impacts our health and well-being and how it contributes to the progression of chronic disease. **PLEASE NOTE:** This course is available in-person at the Wichita campus, and online. For more information please visit: riordanclinic.org/food-as-medicine

3. CHARACTERIZE BIOCHEMICAL INDIVIDUALITY

The Real Health Discovery Laboratory Panel includes vitamins, minerals, amino acids, fatty acids, hormones, food reactions, inflammation markers, and additional biochemical indicators which can serve as:

- A baseline of your current health status
- An inventory of correctable health factors
- A source of valuable clues
 that point to correctable
 carcinogenic factors

4. CARE FOR THE WHOLE PERSON

Cancer is a disease that occurs in the real life of a human being. The complex life histories, traumas, stressors, toxic exposures, dietary indiscretions, medication side effects, spiritual crises, poor lifestyle habits, sleep disorders, physical, emotional, psychological, financial, marital and many other health challenge – all of these may be playing into the grueling challenges of a cancer care plan.

The Riordan Approach is not a simple solution for this complex array of lifestyle issues. It is an acknowledgement that an adjunctive cancer care assessment is more than just infusing vitamin C into the vein of that human being.

5. CHOOSE FOOD AS MEDICINE

Although there is no single diet that is widely acknowledged as effective in cancer patient care, the importance of making healthy food choices is paramount for good cancer outcomes.

Food issues that need to be addressed include food wholeness, safety, quality, hidden inflammatory lectins, mold toxins, GMO issues, and effects of food on the gut biome, phytonutrient factors, glycemic issues, ketogenic programs, and the appropriateness of other controversial cancer diet plans.

6. CULTIVATE HEALTHY RESERVES

The Riordan Approach, like gardening, takes time, and is the result of continuous effort and on-going colearning. Healthy reserves include nutrients, habits, social network, spiritual resources, and a strong self-concept.

The Real Health Discovery Panel is a valuable key and starting point for identifying deficiency states that can be corrected as an integral part of building whole-life reserves.

7. DISCOVER THE HEALING POWER OF NATURE

An old Latin proverb says: "Medicus curat, natura sanat," which means the doctor cares {for the patient], nature heals [the patient]. The Riordan Approach integrates the ancient wisdom of natural healing techniques with modern medical science.

Pulsed Electromagnetic Therapy (PEMT)

Pulsed Electro-Magnetic Therapy or PEMT re-energizes damaged cells by inducing electrical changes within the cell that restore it to its normal healthy state.

INCREASES:

•

- Circulation
- Energy to Cells
- Cell Hydration
 - Bone Density
 - Lean Muscle Mass
- Flexibility
- Range of Motion
- Immune System
- Nerve and Muscle Response

DECREASES:Pain

- Stiffness
- Swelling
- Inflammation
- Edema
- Spasms
- Stress
- Bruises

*Price is per session. Must be a current Riordan Clinic Co-Learner to utilize this therapy.

Call 316.682.3100 to schedule an appointment

For more information or to register for any of these events, please call 316-682-3100 or email: reservations@riordanclinic.org.

The Health Benefits Of Drinking Tea Friday, October 21st 2:00pm -3:00pm Cost: \$10

Come cozy up with us and learn about the health benefits of drinking tea. This class will be taught by Abby, owner of Cozy Leaf Tea, a local, organic loose leaf tea company. She will discuss how to blend different teas to maximize flavor and the healing properties.

Genetically Modified Foods (GMOs) and How they Impact Your Health

Wednesday, November 8th 12:00pm – 1:00pm Dr Jennifer Jackson Cost: FREE

The landscape of American agriculture has been changing over the past 25 years. More than 1 billion pounds of pesticides are used in the United States alone each year. What effect is this having on our health and our environment? Join Dr. Jennifer Jackson, owner of Jackson Family farms, as she explores how science is changing food as we know it.

schedule an appointme

Upcoming Events

12 Months to a Healthier You

Month 10: The Power of Positive Thoughts

AUTHOR

Anne Zauderer, DC

Watch your thoughts, they become words; watch your words, they become actions; watch your actions, they become habits; watch your habits, they become character; watch your character, for it becomes your destiny. CHINESE PROVERB

This quote is one of my favorites. So much of who we are (whether we know it or not) is rooted in what we think about ourselves. Our thoughts have the power to dictate our mood, our perspective and our health.

Many people let others or the world choose what they think about themselves. Thoughts trickle into our minds from social media, magazines, articles and news stories. We are told we aren't good enough, aren't skinny enough, aren't working hard enough, don't have enough "things", don't have a big enough house, aren't a good enough mom/dad/wife/husband/friend...the list could go on and on. We believe the standard for happiness is dictated by an external source, leaving us always short of achieving that standard, which was unattainable from the beginning. True happiness begins when you let go of what the world tells you to be, and you look within to what you believe your true potential is. This process starts with the thoughts you put in your head.

I know a lot of people who spend time at the gym, take supplements, eat organic foods and yet have a stream of negative, toxic thoughts running through their heads. We don't think of this as poisoning our bodies, yet research shows negative thoughts can have a negative impact on your health. Stress associated with negative thinking has been connected with hormonal imbalances, dysregulation of neurotransmitters, cardiovascular disease, genetic health, GI disorders, headaches, and much more,! What is most concerning is that most people aren't aware of the thoughts they are having and how those thoughts are impacting them.

For the next 30 days, my challenge to you is to become aware of your thoughts and to replace negative ones with



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positive ones. When you find yourself disparaging yourself or others, stop, and switch that thought around to something positive. Even if you have to fake it until you make it, just give it a try. See how your perspective on the world changes. See how much better you can connect with those around you and connect with new ideas. Consider that maybe, just maybe, negative thinking is keeping you from being the best version of yourself.

Our deepest fear is not that we are inadequate. Our deepest fear is that we are powerful beyond measure. It is our light, not our darkness, that most frightens us. Your playing small does not serve the world. There is nothing enlightened about shrinking so that other people won't feel insecure around you. We are all meant to shine as children do. It's not just in some of us; it is in everyone. And as we let our own lights shine, we unconsciously give other people permission to do the same. As we are liberated from our own fear, our presence automatically liberates others. MARIANNE WILLIAMSON

Shrivastava R. www.cognitivehealing.com/personal-growth/ how-thoughts-affect-mind-and-body/

INFRARED BREAST THERMOGRAPHY

An FDA-approved, nonradiation, non-contact breast screening

- Completely safe (no radiation)
- Entirely non-contact and non-invasive (no painful compression of the breasts)
- Has a very high screening sensitivity for women of all ages
- May detect changes in breast tissue before it reaches the stage that is seen by X-Ray (up to 5-8 years earlier)
- FDA approved as a complementary functional test to mammography

Infrared Breast Thermography is open to the public. You do not need to be a Riordan Clinic co-learner to utilize this service.