Discover
New Possibilities
With Stem Cell Therapy

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BY

CRML

The Center For Regenerative
Medicine Laboratories, Inc

This information is intended for educational purposes only. It is provided to give you access to research that can help guide you and connect you with highly trained professionals committed to your health and well-being!

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Welcome **Message**

Congratulations on learning more about how Biologics represent a cutting-edge approach to treatment, offering targeted therapies that can significantly improve outcomes for various conditions. By focusing on specific components of the immune system, these advanced therapies can provide relief and promote healing in ways traditional therapies may not. We hope you find the information and resources available both enlightening and empowering as you explore the potential of biologics to transform your health and well-being. Remember, taking proactive steps towards understanding your therapy options is a powerful tool moving towards achieving a healthier future.

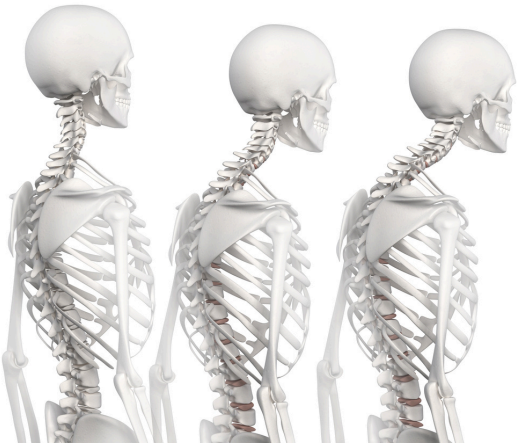
DEGENERATION

What does that mean to you?

At the core of all ailments, diseases, illnesses, and the aging process is degeneration. While it's well-known that inflammation is a key factor, this understanding is somewhat lacking. The primary issue at the heart of all inflammation is degeneration, which can be simply described as:

- The decline of physical or mental health
- A disintegration or deterioration
- A state of disrepair or becoming less than one's previous condition

This definition closely aligns with concepts such as sickness, illness, infirmity, chronic disease, injury, and aging. Now that we've clearly identified the issue.



REGENERATION

What does that mean to you?

Let’s explore the solution: **regeneration.** The good news is that your body has been a master of this process since the moment you were born, and perhaps even while you were in your mother’s womb. You might know that every cell in your body is replaced with a new one approximately every seven years. Your skin rejuvenates every few weeks, while the cells in your stomach and digestive tract regenerate in just a few days, and your hair and nails are constantly growing. So, if your body is designed to regenerate, what’s the challenge? The answer is simple: disease, illness, and aging occur when degeneration outpaces regeneration.

Regeneration is defined as the ability to build, grow, repair, or create new tissue. This is where stem cells come into play—they regenerate new tissue and serve as your body's internal repair system. However, the challenge arises as these stem cells significantly decrease with age.

Stem Cells Decline with Age, Resulting in:

- Longer repair and recovery times
- Increased susceptibility to injury and disease

In our younger years, we have a substantial number of Mesenchymal Stem Cells (MSCs), which are responsible for repairing muscle, bone, cartilage, and tendons. Unfortunately, MSCs diminish as we age, leading to extended repair and recovery times, making us more vulnerable to the effects of aging and disease.

The Key to a Healthy Life is Healthy Regeneration!

Understanding **Stem Cells**

Their Nature and Purpose

Stem cells are unique cells that can develop into various types, acting as an internal repair system. They are categorized into:

- **Embryonic Stem Cells:** Pluripotent cells from early-stage embryos that can become any cell type, valuable for research and therapies.
- **Adult Stem Cells:** Multipotent cells from specific tissues, like bone marrow, capable of developing into a limited range of cell types, crucial for tissue maintenance and repair.

Their primary purpose includes:

- **Regenerative Therapy:** Potential therapies for conditions like heart disease and spinal cord injuries.
- **Research:** Understanding disease mechanisms and testing drugs.
- **Transplantation:** Used in procedures like bone marrow transplants for blood disorders.

In summary, stem cells play a vital role in healing and innovative medical therapies, making them central to scientific research and clinical applications.

Exosomes
Stem Cell Variants

What Are Stem Cell Variants/Exosomes?
Stem cell variants are tiny particles that help cells communicate and repair tissues. They play a crucial role in regenerative therapy by promoting healing and reducing inflammation. These particles are derived from stem cells and contain various growth factors and proteins that support tissue regeneration and repair.

What Are the Benefits of Stem Cell Variant Therapy?

- **Regenerative Potency:** Utilizes the body's healing abilities via exosomes, aiding in tissue repair and recovery for injuries and surgeries.
- **Minimal Invasiveness:** Less invasive than traditional surgeries, reducing complications and recovery time.
- **Versatile Application:** Treats various conditions including orthopedic injuries, neurological disorders, autoimmune diseases, and skin rejuvenation.
- **Inflammation Mitigation:** Contains anti-inflammatory properties to address chronic inflammation, arthritis, and related diseases, aiding in pain relief.
- **Accelerated Healing:** Enhances natural healing, leading to faster recovery and reduced complications from immobility.
- **Enhanced Cognitive Function:** May improve cognitive function by promoting neural cell repair, offering potential treatments for neurological diseases.

Stem Cell **Applications**

Applications of Stem Cell Therapy with Exosomes:

- **Osteoarthritis and Joint Regeneration:** Stem cell therapy with exosomes shows promise in treating osteoarthritis by regenerating cartilage and reducing inflammation. Exosomes from mesenchymal stem cells (MSCs) aid in cartilage repair, alleviate pain, and enhance mobility, offering a non-invasive alternative to joint replacement.

- **Neurological Disorders:** Stem cell therapy using exosomes is being explored for conditions like Alzheimer's and Parkinson's. These exosomes promote neurogenesis, reduce inflammation, and aid in recovering damaged neural tissue, presenting a potential advancement in treating neurological issues.

- **Knee injuries like meniscus, ACL, and MCL tears:** Exosomes have proven results by accelerating healing and improving recovery outcomes. By delivering growth factors and bioactive molecules, exosomes help promote tissue regeneration, reduce inflammation, and enhance collagen production, which is vital for repairing damaged ligaments and cartilage. This therapy can reduce pain, improve joint mobility, and potentially shorten recovery times compared to traditional therapies. Additionally, exosome therapy may help prevent further damage and reduce the need for invasive surgeries, making it a promising option for knee injury rehabilitation.

Stem Cell **Applications**

- **Cardiovascular Diseases:** Conditions like heart disease, heart attacks, and chronic heart failure often cause irreversible heart muscle damage. While traditional treatments focus on symptoms, regenerative therapies such as stem cell therapy offer potential for heart tissue repair. Exosomes from stem cells, especially those from the heart or bone marrow, show promise in regenerating cardiomyocytes and reducing inflammation. Clinical trials have shown that exosome therapy after heart attacks can improve heart function, reduce scar tissue, and enhance tissue repair.

- **Chronic Wounds and Skin Regeneration:** Chronic wounds, like diabetic ulcers and pressure sores, often struggle to heal due to poor circulation or immune issues. Stem cell-based therapies with exosomes have proven effective in promoting healing by boosting collagen production, regenerating skin cells, and encouraging blood vessel formation. Research has also shown positive outcomes in treating conditions like herniated discs, tendinitis, and shoulder injuries**.**

- **Hip labral tears:** Exosome therapy is showing significant promise by promoting tissue repair and reducing inflammation. Derived from stem cells, exosomes deliver key growth factors and proteins that stimulate the regeneration of damaged cartilage and improve the healing process. This non-invasive treatment has been found to enhance joint mobility, reduce pain, and support the restoration of the labral tissue, potentially reducing the need for surgery. As a result, exosome therapy offers an effective alternative for individuals recovering from hip labral tears, accelerating recovery and improving long-term outcomes.

Success **Stories**

Several patients have experienced life-changing results from exosome therapy, particularly in cases where conventional treatments were unsuccessful.

Case 1: A 60-year-old woman suffering from knee osteoarthritis and chronic pain for several years received exosome therapy derived from MSCs. Within weeks of treatment, she reported significant pain relief, improved mobility, and better quality of life. Follow-up MRI scans showed signs of cartilage regeneration, confirming the therapy's effectiveness.

Case 2: A 45-year-old man with a spinal cord injury sustained in an accident underwent exosome therapy derived from stem cells. After therapy, the patient showed improvements in motor function and regained some sensation below the injury site. Although complete recovery was not achieved, the patient was able to regain greater independence and mobility, which had previously seemed impossible.

Case 3: A patient with heart failure resulting from a previous heart attack received exosome therapy derived from stem cells harvested from bone marrow. After the therapy, the patient experienced improved heart function, increased exercise tolerance, and better overall health, providing a new lease on life after years of declining health.

Frequently Asked **Questions**

How are stem cell variants administered?
The therapy is usually given through injections or infusions, depending on the condition being treated.

How many exosomes are in your infusion?
Our stem cell variants are retrieved from umbilical cord blood of mothers that were tested and cleared of any illnesses, genetic mutations, and vaccines. Each infusion treatment contains 4 trillion stem cell variants (Exosomes), up to 100 million stem cells, and 175 growth factors.

Is stem cell variant therapy safe?
Yes, when administered by trained healthcare professionals, it is considered safe and has a low risk of complications. There is potential for irritation at IV or injection site, though rare.

How long does it take to see results?
Results can vary, but many patients start to see improvements within a few weeks after the therapy.

Can stem cell variant therapy be combined with other treatments?
Yes, it can be used alongside other treatments to enhance overall effectiveness and improve outcomes. Specifically Upper Cervical Chiropractic care to take care of the root causes which led to the degeneration in the first place.

Is stem cell variant therapy covered by insurance?
As an experimental therapy, insurance does not provide coverage or reimbursement for exosomes.

Stem cell variant therapy is a groundbreaking innovation in regenerative therapy. Its ability to treat a wide range of conditions, minimal invasiveness, and focus on personalized care make it an attractive option for those seeking effective and holistic therapy. As research continues, the potential for stem cell variant therapy in healthcare grows, offering hope and healing to many.

Meet Our
Biologics Provider

CRML

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White Paper

Concentration, size, and marker protein expression of exosomes isolated from amniotic fluid and umbilical cord blood

John W. Ludlow, Ph.D.

Executive Summary:

A single lot of exosomes isolated from amniotic fluid and umbilical cord blood, provided by the Center for Regenerative Medicine Laboratories, located at 1001 North east 125th street, Miami, FL. 33161, was analyzed in triplicate. The mean and mode sizes of the particles showed consistency within each the lot for the triplicate samples. Particle size for all samples is the size expected for exosomes. Similarly, particle concentration within each lot is consistent. To confirm that these particles are indeed exosomes, surface protein analysis for CD9, CD63, and CD81 was performed. The relative amounts of CD9, CD63, and CD81 showed consistency within each lot for the triplicate samples. The conclusion here is that the manufacturing process is robust and large quantities (trillions) of exosome particles are obtained per dosage unit of 1mL.

or RNA extracted prior to taking these measurements. Particle diameter and concentration was measured by Nanoparticle Tracking Analysis (NTA) using a Particle Metrix ZetaView®.

Particle surface protein analysis was carried out using Milteny's MACSPlex Exosome Kit, human (Cat# 130-108-813). Particles are incubated with the antibody-coated MACSPlex Exosome Capture Beads, which bind to CD9, CD63, and CD81, which are proteins currently accepted in the exosome biology field to identify exosomes.

Results:

As shown in **Figure 1**., particles isolated from a single lot of umbilical cord blood (ALOCYTE) and a single lot of amniotic fluid (MATRIX) were each analyzed in triplicate (Vial 1, Vial 2, Vial 3). While the mean and mode sizes of the particles between the two lots show variation, there is consistency within each lot for the triplicate samples. In addition, particle size for all samples is in the size range (40-150nM) expected for exosomes. Similarly, particle concentration within each lot is consistent.

Figure 1.

Center for Regenerative Medicine Laboratories ZetaView Analysis

	Particle Diameter (nm)		Concentration
Sample	**Mean**	**Mode**	**(particles/mL)**
ALOCYTE_Vial1_ab2040756_062520B	112.8	72.5	6.30E+12
ALOCYTE_Vial2_ab2040756_062520B	104.2	77.5	5.40E+12
ALOCYTE_Vial3_ab2040756_062520B	112.9	87.5	4.40E+12
MATRIX_Vial1_ab2040983_06302020	134.2	92.5	6.30E+12
MATRIX_Vial2_ab2040983_06302020	133.9	92.5	6.10E+12
MATRIX_Vial3_ab2040983_06302020	137.1	87.5	7.00E+12

As shown in **Figure 2**., a single lot of particles isolated from umbilical cord blood (ALOCYTE) and a single lot of amniotic fluid (MATRIX) were each analyzed for surface proteins CD9, CD63, and CD81, in triplicate (Vial 1, Vial 2, Vial 3). While the relative amounts of CD9, CD63, and CD81 between the two lots show variation, there is consistency within each lot for the triplicate samples.

Introduction:

The term exosome is generally understood to reference a specific class of lipid-membrane bound extracellular vesicle (EV) characterized by a diameter of 40–150 nm and a density of 1.09–1.18 g/ml. Exosomes participate in a variety of cellular activities and have been shown to be isolatable from multiple body fluids including saliva, urine, plasma, serum, breast milk and amniotic fluid, as well as from the conditioned media of cultured cells (1, 2). In fact, exosomes can be isolated from any cell type which can be cultured. Purified exosomes have been demonstrated to have clinically relevant therapeutic bioactivity across multiple *in vitro* and *in vivo* models (3).

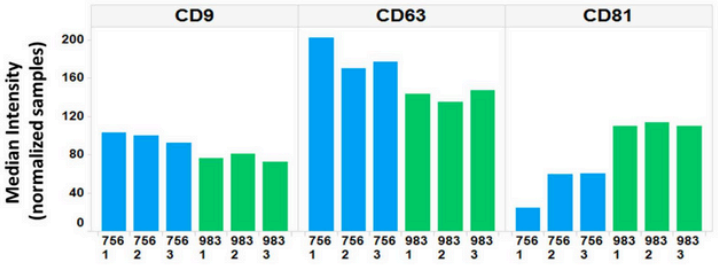
In this white paper, a single lot of exosomes isolated from amniotic fluid and a single lot isolated from umbilical cord blood, provided by the Center for Regenerative Medicine Laboratories, located at 1001 North east 125th street, Miami, FL. 33161, was each analyzed in triplicate. The purpose for this analysis was to determine the quantity of particles which may be isolated from a given dosage sample when processed by standard methods previously shown to isolate exosomes. Analysis of particle size and surface protein expression of these isolated particles was also undertaken to confirm that the particles were indeed exosomes.

Methods:

A 1mL sample of frozen amniotic fluid or umbilical cord blood was thawed and diluted to 12mL with sterile Dulbecco's phosphate buffered saline (DPBS) prior to centrifugation at 3000xg for 20min to pellet large microsomes and cellular debris. This clarified supernate was then centrifuged at 100,000xg for 2hr to pellet the exosome particles. The supernate was aspirated and discarded, and the resulting pellet resuspended in 1mL of sterile DPBS.

Particle quality was assessed using a Thermo NanoDrop spectrophotometer for protein determination and approximate RNA concentration by direct absorbance; exosome particles were not lysed, stained,

Figure 2.



Conclusion:

The manufacturing process followed by the Center for Regenerative Medicine Laboratories is robust, resulting in large quantities (trillions) of exosome particles contained in a 1ml dose.

References:

Thery C, Clayton A, Amigorena S, et al. Isolation and characterization of exosomes from cell culture supernatants and biological fiuids. Curr Prat Cell Biol. 2006;3.22.1- 3.22.29. DOI: 10.1002/0471143030.cb0322s30.

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Basu J, Ludlow JW. Exosomes for repair, regeneration and rejuvenation. Expert Opin Biol Ther. 2016;16(4):489-506. doi: 10.1517/14712598.2016.1131976. Review. PMID: 26817494.s 35 (16): 34, 2015.

Matrix

Amniotic fluid is obtained from full term planned cesarean sections. At this stage of fetal development, amniotic fluid consists of water (98-99%), salts to maintain proper osmolarity, proteins and enzymes to aid in fetal growth. To address the protein composition of our product, we performed arrayscan analysis using a commercially available Human Cytokine Array (RayBiotechAAH-CYT-5-8) which detects 80 different cytokines. Table 1 lists the cytokines in greatest abundance, defined as having a value greater than 1 (baseline) on an arbitrary scale defined by the kit manufacturer. The listed cytokines all have functions relating to tissue repair and remodeling:
Our product is unadulterated; following procurement, the amniotic fluid is not mixed or diluted with any additional components. We have evaluated the composition and characteristics of the final product in reference to original unprocessed amniotic fluid using both proteomics (Mass Spec) and the same human cytokine array kit used to generate the data shown in Table 1. (1 trillion exosomes), small particles between 50-100 microns, 234 growth factors.

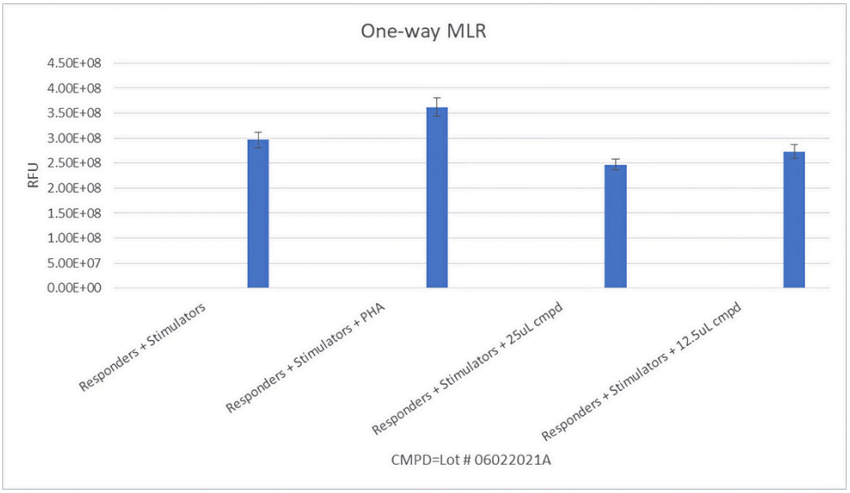
Cytokine	Function
Angiogenin	Induces blood vessel formation
IL-8	Polymorphonuclear leukocyte (PMN) attractant interleukin-8 (IL-8) enhances epidermal wound healing.
MCP-1	Monocyte chemoattractant protein-1 (MCP-1/CCL2) is one of the key chemokines that regulate migration and infiltration of monocytes/macrophages.
TIMP-1	The glycoprotein is a natural inhibitor of the matrix metalloproteinases (MMPs), a group of peptidases involved in degradation of the extracellular matrix. In addition to its inhibitory role against most of the known MMPs, the encoded protein is able to promote cell proliferation in a wide range of cell types, and may also have an anti-apoptotic function.
TIMP-2	same as TIMP-1
Angiostatin	Angiostatin, a circulating inhibitor of angiogenesis. In vitro, angiostatin inhibits endothelial cell migration, proliferation, and tube formation, and induces apoptosis in a cell type-specific manner.
uPAR	urokinase plasminogen activator (uPA) and its receptor (uPAR) promotes matrix remodeling and wound healing
EGF	Epidermal growth factor (EGF) is a protein that stimulates cell growth and differentiation by binding to its receptor, EGFR
IGFBP-1	a member of the insulin-like growth factor binding protein (IGFBP) family, IGF-binding proteins prolong the half-life of the IGFs and have been shown to either inhibit or stimulate the growth promoting effects of the IGFs. This protein is important in cell migration and metabolism.
IGFBP-2	same as above
IGFBP-4	same as above
IL-9	Acts as a regulator of a variety of hematopoietic cells. This cytokine stimulates cell proliferation and prevents apoptosis.
Osteopontin	OPN interacts with multiple cell surface receptors that are ubiquitously expressed thereby making it an active player in many physiological and pathological processes including wound healing, bone turnover, inflammation, ischemia, and immune responses.

Anti-Inflammatory Response

Given that these cytokines are involved in inflammation, our observation that Matrix therapy decreased secretion of these inflammatory cytokines lends support to our hypothesis that the mechanism of action by which the growth factors and exosome in our product promote cell and tissue repair and regeneration involves, at least in part, downregulation of inflammatory cytokines.

To further address this point, we have performed a one-way mixed lymphocyte reaction(MLR) to test the ability of Matrix to affect T-cell proliferation. In this assay, both cell types +/- effector (PHA-phytohemagglutinin, a known stimulator of T-cell proliferation; Matrix as the test article) were incubated for 72hr before a 30 min incubation with Cell Titer-Glo reagent and then assayed in white plates on a luminescence plate reader. Increase in fluorescence units (RFU) indicates cell proliferation, whereas a decrease in RFU indicates an inhibition of proliferation. As shown below in Figure 3, responders and stimulators combined sets the baseline at 3 x 10E8, and the + effector (PHA) increased the fluorescence, as expected, to 3.5 x 10E8. In contrast, 2 different volumes of Matrix, 25uL and 12.5 uL, decreased the RFU to 2.5 and 2.75 x 10E8, respectively, further supporting our hypothesis that the mode of action for Matrix is, at least in part, due to a downregulation of inflammation.

Mixed Lymphocyte Reaction



Alocyte

(Stem cells)(Umbilical Cord Blood), (4 trillions of exosomes), up to 100 millions stem cells, 175 growth factors.

Allogenic Umbilical Cord Blood Plasma combined with Mononuclear Cells (UCB-PM) Description: UCB-PM is an allogeneic, minimally manipulated product derived from allogenic umbilical cord blood collected from normal healthy planned cesarean section donor. We have completed extensive characterization of the final UCB-PM product to elucidate the regenerative compartments mediating our observed therapeutic effect.

Alocyte's manufacturing methodology is designed to preserve the naturally-occurring soluble proteins and nanoparticles including exosomes present in full-term cord blood UCB-PM. Therefore, we have characterized these two distinct and therapeutically important components. There is no addition or combination of any other substance or diluent to the Alocyte product during production besides the cryopreservation solution - dimethyl sulfoxide (DSMO).

Sterility and Endotoxin Testing

Safety assessment is completed by performing endotoxin and 14-day sterility testing for the detection of bacteria, fungus, and yeast contamination. Endotoxin tests are completed in accordance to USP<85> guidelines and sterility tests are performed by VRL Eurofins, a qualified CLIA certified laboratory, in accordance to USP<71> guidelines. One vial is selected for endotoxin testing and 10% of the total lot volume is randomly selected for 14-day sterility testing at the completion of the manufacturing procedure. The vial sample size selected for 14-day testing is determined by the USP<71> guidelines for the minimum volume and containers required based on total lot production size. Furthermore, in-process samples (2mL total volume) are collected for 14-day sterile analysis at the beginning of cord blood handling (Raw product sample) and prior to add DMSO (pre-cryopreservation sample). Our release criteria for safety assessment states that endotoxin levels must be below 5 EU/ml and all samples must be negative for sterility.

DONOR SCREENING

Donor Qualification - All donors of cord blood are consented and screened. The following communicable infectious diseases will be tested: followingFDAguidelinesfordonorqualification21CFR 1271.

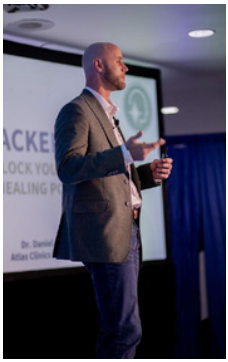
All contract tissue recovery organizations working with CRML hold their approved IRB protocol. Human prenatal tissue is obtained solely through voluntary donation using an IRB approved informed consent form (Appendix I, Informed Consent Form). Recruitment is performed only by the trained staff. Donor population is recruited indiscriminately of ethnic group; however, the donor eligibility is limited to the age range of 18-45 years old due to the aging related quality of human prenatal tissue. The donor must be tested negative for communicable diseases (listed below) and pass the screening on the social and health history questionnaire and be determined not to be in the high-risk category. Donors for whom donor eligibility has not been completed in accordance with the 21 CFR 1271 regulations (specifically donor screening) will not be eligible and material will be disposed per SOP# CFRM-DOC-037. This process is performed to prevent transmission of communicable disease as dictated by 21 CFR,1271 subpart C—Donor Eligibility.
Donor will undergo the following procedures and tests after the, Laboratory Testing Report of Infectious Disease:
All staff members are trained on HIPAA guidelines.

1. Hepatitis B surface antigen(HBsAg)
2. Chagas disease (through a T. cruzi ELISA test)
3. Anti-Hepatitis C virus antibody(HCVAb)
4. Anti-Human Immuno deficiency Virus (HIV) antibody(HIV 1/2)
5. Cytomegalovirus antibody (CMV) HIV/HCV
6. Nucleic Acid test (HIV1/HCV/HBV NAT)
7. West Nile Virus Nucleic Acid test (WNVNAT)
8. Syphilis Screening Nontreponemal
9. Human T-lymphotropic Virus I/II (HTLV I/II)
10. Zika Virus (NAT) if applicable*
11. SARS-CoV-2: if applicable after known or suspected exposure*

**Questions to identify persons at risks of infectious disease transmission, including Zika virus and SAR CoV-2*

The blood specimens for testing are collected within 7 days of recovery of cord blood from the donor. All infectious disease testing is performed by a laboratory certified to perform such testing on human specimens under the CLIA or that has met equivalent requirements as determined by, Testing Laboratory CLIA Certification). All kits used by testing lab are FDA
approved. All donors are screened by reviewing relevant medical records for risk factors for, and clinical evidence of, relevant communicable disease agents and diseases.

Meet Our **Doctors**



Dr. Daniel Hulsey is a dedicated healthcare professional and co-founder of Atlas Clinics in Pompano Beach, specializing in Upper Cervical care with a focus on foundational healing. With a strong background in advanced soundwave technology and a commitment to innovating care, Dr. Hulsey utilizes cutting-edge treatments to promote true wellness, helping patients heal from the source. His clinic is at the forefront of offering innovative stem cell therapies, empowering individuals to experience holistic healing and revitalization. Driven by his military background as part of a recon sniper platoon in Afghanistan, where precision and high standards were paramount. Dr. Hulsey applies the same attention to detail and dedication to providing life-changing care to his community. Dr. Hulsey understands the significance of resilience, discipline, and personalized care. These values inspired his partnership with CRML, a leader in advanced regenerative therapies, to recommend Regenerative Medicine stem cell treatments to his community. His commitment to offering the highest quality of regenerative healing solutions reflects his unwavering belief in addressing the root cause of health issues and restoring the body's natural ability to heal itself, giving patients a chance to reclaim their vitality and well-being.

Atlas Clinics - Modern Pain Relief & Wellness

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Meet Our **Doctors**

Dr. Samantha Carney is a passionate healthcare professional and co-founder of Atlas Clinics in Pompano Beach, specializing in chiropractic care, brain health, and cutting-edge regenerative therapies. With a commitment to transforming the healthcare landscape, Dr. Carney integrates advanced soundwave technology and stem cell treatments to provide holistic, personalized care that addresses the root cause of her patients' health challenges.

Driven by her personal journey overcoming chronic daily headaches and migraines, Dr. Carney's passion for healing led her to pursue a career in chiropractic care. Her experience with chiropractic care and the EPIC soundwave technique inspired her to become a board-eligible Chiropractic Neurologist, specializing in neurology and brain health.

At Atlas Clinics, Dr. Carney and her team are at the forefront of offering innovative stem cell therapies alongside chiropractic and soundwave treatments, revolutionizing the way patients heal. She collaborates with CRML, a leader in regenerative medicine, to bring advanced stem cell treatments to South Florida, helping patients experience true healing and vitality.

Dr. Carney's vision is clear: to provide life-changing solutions that promote long-term wellness and empower individuals to reclaim their health and well-being. Her dedication to excellence and innovation ensures that every patient receives the highest level of care, improving lives one treatment at a time.

Atlas Clinics - Modern Pain Relief & Wellness

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Meet Our **Administers**

Ketamine & Wellness Clinic of South Florida is dedicated to providing a solution for each individual. They have integrated innovative therapies to provide comprehensive treatments that cater to the needs of each of their clients.

They are located down the hall from Atlas Clinics, located at 41 N. Federal Hwy Ste A, Pompano Beach, FL 33062.

The Ketamine Clinic will contact you to schedule your therapy day, send your intake forms and consents, collect deposit, and provide you with outstanding care!

Khali Reed, CRNA, APRN

Sonia Cotto, CRNA, APRN

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Ketamine & Wellness Clinic
OF SOUTH FLORIDA

Therapy **Day**

Arrival and Preparation:

- Check-in process and review of your therapy plan.
- Meet with the medical team for a final consultation.

During the Procedure:

- Quick and minimally invasive therapy session.
- Comfort measures provided throughout the process.

Aftercare and Follow-Up:

- Immediate recovery guidance.
- Scheduled follow-up visits to monitor progress.

Aftercare & Follow-up Details:

Date: _____ Time: _____ Location:_____

Post-Therapy Instructions:

- No anti-inflammatory medications for a minimum (preferred) 6 weeks.
- Rest for the first 24–48 hours, but do not lie sedentary.
- Start Physical Therapy or resume Chiropractic treatment within a week.

Final **Thoughts**

Conclusion:
Stem cell therapy enhanced by exosomes represents a cutting-edge advancement in regenerative medicine, offering promising solutions for a wide range of conditions. The ability of exosomes to facilitate tissue repair, modulate immune responses, and promote regeneration without the need for direct stem cell transplantation opens up new possibilities for patients with osteoarthritis, neurological disorders, cardiovascular diseases, and chronic wounds. The success stories of patients who have experienced tangible improvements in their conditions are a testament to the potential of exosome therapy to transform the landscape of medical treatment. As research continues and clinical applications expand, exosomes are likely to become a cornerstone in the future of regenerative medicine, providing safe, effective, and innovative treatments for patients worldwide.

Stem Cell Therapy has the full attention of the medical community. Over 5000 studies are currently being conducted on the effects of stem cells on degenerative illnesses from autism to Parkinson's. If you want to learn more about these clinical trials, you can
visit: www.clinicaltrials.gov and www.pubmed.com

If you want additional information, please email us at Discover@theSourceRx.com and we can schedule a complimentary consultation with one of our doctors who can assist you further.

Let the Power that creates the body, Heal the body!

Notes

Acknowledgments

Assembling this information would not be possible if it wasn't for the numerous people and organizations that contributed to this effort.

Dr. Daniel Hulsey D.C., who is always searching for ways to help people improve their lives and live pain free. His vision of offering patients a therapy that has proven results and helps people, is the spark that led to this informational booklet.

Ketamine Clinic of South Florida for helping us source the biologics and administer the therapy. Their attention to detail and commitment to patient experience is stellar.

CRML
The Center For Regenerative Medicine Laboratories, Inc
their amazing team and facility is stellar in providing only the highest quality specimens for therapy.

Contact Us:

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