

STEM GENIX SOLUTIONS, LLC. PROJECT INFORMATIONAL

July 3, 2019

OVERVIEW

This information is provided to aid in the development of the website. Please message me with what ever information would assist you in the production. The pictures and documents attached are illustrative and are meant for the development of the "Products" Page.

1. Landing Page

Interactive scrolling picture with click option to desired location

Options on top menu:

About – Products – Resources – News – Distributors - Contact

Welcome:

Stem Genix Solutions is a provider of quality, innovative regenerative medicine and ortho-biologic devices coupled with best in class clinical training. We have diverse experience in regenerative solutions as well as exceptional clinical expertise. Our post-sales support teams are experts in the clinical use of these technologies and provide guidance through full hands on training and support to busy medical professionals including hospitals, surgical centers and office-based physicians nationwide. Our expertise in the clinical use of these technologies and our ability to give hands on training sets the gold standard in our industry. We are driven by a commitment to improve patient outcomes, reduce provider expenses with cost effective products, and reduce clinical time with more efficient and innovative products. We offer medical sales professionals all the guidance and support needed to effectively sell innovative and complex technologies to the demanding providers and surgeons.

2. About US

(Icon Who we are:

Pic)

Providers of Innovative Ortho Biologic devices staffed with clinical professionals who bring exciting new biologic options to busy practitioners, hospitals, and surgical centers.

(Icon)What we offer:

Gold standard client support with effective and efficient treatment solutions for physicians and their patients as well as on-site, personalized, hands-on training with our licensed clinical specialists.

(Icon)Our mission

To provide medical professionals with the training and tools they need to offer regenerative medical therapies that will become the gold standard of care for the treatment of multiple ortho degenerative diseases and ortho biologic conditions.

3. Products

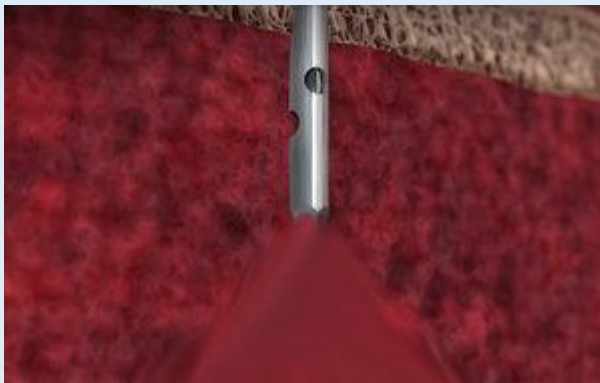
Marrow Cellution™

(See attached pictures for ideas and also <http://www.ranfac.com/marrowcellution> for additional pics)

Product Description:

MARROW CELLUTION™ maximizes stem & progenitor cell recovery while minimizing peripheral blood infiltration. Because fluid under force follow the path of least resistance, traditional trocar needles with side ports aspirate primarily through the distal end of the cannula. This leads to excessive blood collection, requiring additional manipulation (i.e. centrifugation or chemical separation in a laboratory).

MARROW CELLUTION™ accesses aspirate flow collected exclusively laterally as the tip of the aspiration cannula is closed, allowing marrow collection perpendicular to and around the channel created by the device. It incorporates technology to precisely reposition the harvesting cannula within the marrow space after each aspiration. These features achieve a clinicians' desire for a single entry point.



A traditional trocar needle aspirates primarily peripheral blood.



MARROW CELLUTION™ aspirates from multiple geographies while limiting peripheral blood collection.

Competitive Advantages:

Marrow Cellution™ Gives You More Cells

Marrow Stem cells heal tissue as an integral part of a patient's immune system and only marrow stem cells are powerful enough to reconstitute an entire immune system in an oncology setting.

The industry standard for measuring the number of stem cells from marrow for use in regenerative medicine is CFU-f (colony forming unit – fibroblast).

Key Benefits:

Reduce the Cost of Utilizing Biologics

The Marrow Cellution™ System delivers a better regenerative solution (more stem cells) at a reduced cost compared to the industry leading solutions.

Minimize Sterility Challenges

Centrifugation systems require passing the BMA off the sterile field for processing and back on for implantation. The Marrow Cellution™ System eliminates the additional steps where infection concerns must be managed.

Minimize O/R Time

Centrifugation systems typically required 20 minutes or more of spin time during the surgical procedure, not to mention the additional personnel (perfusion) and support time needed for preparation and cleanup of the equipment.

Minimize Sample Waste

Centrifugation systems typically discard 80% of the aspirate due to the high levels of peripheral blood. Worse, significant numbers of the desired cells (approx. 40%) are discarded because as these cells increase in density prior to division, they are

processed into the undesired red cell centrifuge component and thus discarded, substantially limiting the regenerative potential of the resulting sample.

Minimize Use of Anti-Coagulants

Centrifugation systems require at least 10% dilution by volume for the addition of anti-coagulant to allow the sample to separate, and also require another 10% dilution in the form of a neutralizing agent such as thrombin and calcium chloride in order for the marrow to clot in the graft. The Marrow Cellution™ System eliminates *these requirements*.

Eliminate the Need to Filter

Protocols require the marrow to be filtered prior to centrifugation. Cells bound within a cell aggregate can be delivered to the patient when mixed with graft material or injected. This is not the case when aggregates are filtered out prior to centrifugation. Filtering takes additional time, but more importantly, filtering reduces regenerative potential.

The Marrow Cellution™ aspiration system that incorporates a Single puncture promoting only Lateral flow from Multiple sites (SSLM Method) produced concentrations of CFU-fs, CD34+ cells and CD117+ cells that were comparable or greater compared directly to centrifuged bone marrow concentrates (BMAC) from the same patient.

Dr. Dan Kuebler Professor of Biology, Chair of the Biology Department; Franciscan University

A larger-volume of aspirate (more than 2mL) from a given site is contraindicated with the additional volume contributing little to the overall number of bone-marrow cells and results principally in unnecessary blood loss.

MUSCHLER G, et al “Aspiration to Obtain Osteoblast Progenitor Cells from Human Bone Marrow: The Influence of Aspiration Volume” The Journal of Bone and Joint Surgery; VOL. 79-A, NO. 11 Cleveland Clinic

4. Resources

<http://www.ranfac.com/products/#orthobiologics>

<https://regenacelltherapy.com/wp-content/uploads/2018/06/Latex-free.pdf>

Procedural Resources

<http://www.ranfac.com/mcaspirate>

<https://www.youtube.com/watch?v=81cyd63VCPU>

White Papers and Presentations:

https://static1.squarespace.com/static/58f843f0c534a5c250c4d802/t/595eda2a9de4bb6895d86ea2/1499388458853/Marrow_Cellution_Scarpone_White_Paper.pdf

https://static1.squarespace.com/static/58f843f0c534a5c250c4d802/t/595edbd186e6c0a4f8c0fca3/1499388883264/Marrow_Cellution_Presentation.pdf

<https://translational-medicine.biomedcentral.com/articles/10.1186/s12967-018-1750-x>

https://static1.squarespace.com/static/58f843f0c534a5c250c4d802/t/595edbaa6b8f5b29ad7ce698/1499388843054/Purita_Paper_2016_Update.pdf

<https://vimeo.com/162431130>

<https://vimeo.com/showcase/5486897> <https://vimeo.com/299081647>

FAQ

<http://www.ranfac.com/procedureresources>

Competitive analysis:

https://static1.squarespace.com/static/58f843f0c534a5c250c4d802/t/595eb131bf629a706a0cc586/1499377969968/MC_BMAC_Comparison.pdf

https://static1.squarespace.com/static/58f843f0c534a5c250c4d802/t/595eb19515d5db69fe967b71/1499378069669/MC_EMCYTE_Comparison.pdf

Testimonials:

<https://vimeo.com/289334837>

Dr. Kelly Scollon-Grieve

Premier Orthopedics

"Marrow Cellutions is by far the easiest and most effective system to use for bone marrow aspiration and also very well tolerated by patients."

Premier Orthopedics.

Anne Truong

Rehabilitation Med Physicians

“My patients outcomes have improved greatly and quicker since I started using the Marrow Cellution bone marrow needle.”

www.truongrehab.com

5. News

https://aspire-medical.eu/wp-content/uploads/2018/04/MarrowCellutionIntactMatrix_sApr18.pdf

6. Distributors

i Needs to have a login and password and a place to upload documents

Sfax

Info@stemgenixsolutions.com

Order form download and online fill in (see attached)

7. Contact

i Information form to: Info@stemgenixsolutions.com

Our information

Stem Genix Solutions, LLC

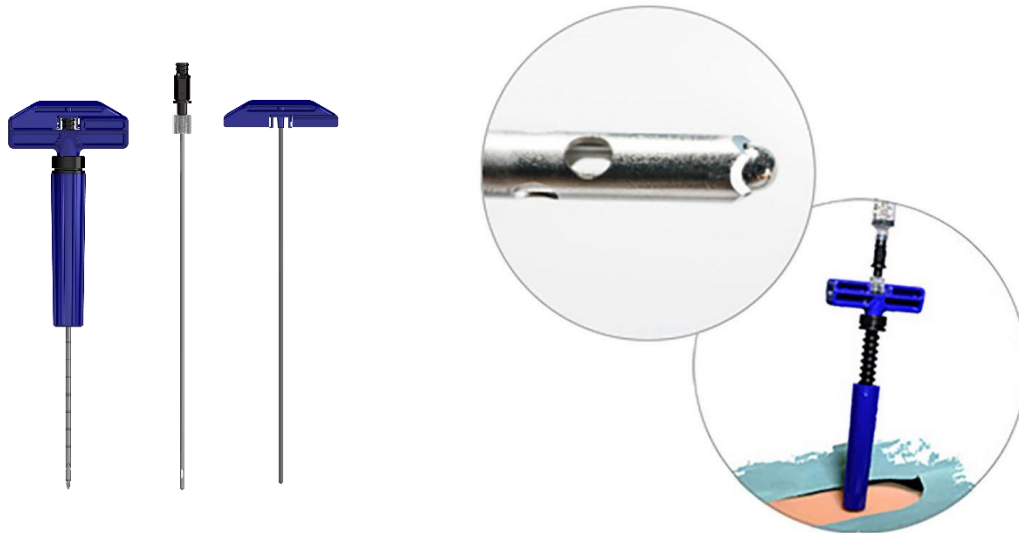
PO Box 544

Center Valley, PA 18034

Fax# 888-679-0000

Phone #(570)555-1111

Pictures from Ranfac website




Marrow Cellution Foot and Ankle






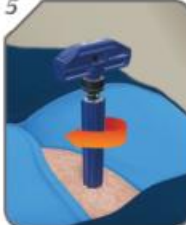
Kit Pictures







Procedure


- 

Heparin Flush: rinse all kit components with heparin (2,000 Units/ml)
- 

Insert Introducer Needle with Sharp Stylet just past cortex into medullary space
Ensure longitudinal orientation
- 
 - Remove Sharp Stylet
 - Attach Syringe
 - Aspirate 1ml marrow to ensure proper positioning of needle tip
- 
 - Remove Syringe
 - Insert & lock Blunt Stylet
 - Continue to advance Introducer Needle to desired depth
- 

Rotate Guide Grip to skin level
- 
 - Remove Blunt Stylet
 - Insert and secure Aspiration Cannula
- 
 - Attach Syringe
 - Aspirate 1ml marrow
- 

Hold Guide Grip and rotate Handle 360° counter-clockwise
- 

Aspirate 1ml marrow
- 
 - Repeat steps 8 & 9 as needed
 - Reassemble for additional puncture (if required)

COMPETITIVE PERFORMANCE

Marrow Cellution™ vs. Centrifuge Systems & Traditional Needle

