

# INTRODUCTORY SLIDE

- ▶ 2019 Spring Meeting
    - ▶ April 25-28, 2019
  - ▶ Neurological, Optical, and Orthopedic Treatments with Stem Cells and Exosomes
  - ▶ **A.J Farshchian, M.D.**
- 

# DISCLOSURE SLIDE WITH FINANCIAL RELATIONSHIPS

- ▶ Under AAEM Educational Committee guideline disclosure must be made regarding relevant financial relationships with commercial interests within the last 12 months.

A.J. Farshchian, MD

Has a relevant relationship with The Center for Regenerative Medicine Laboratories

Level of Evidence for Patient Care Recommendations

Level C: Consensus/expert opinion

The information, comments, and opinions expressed in this presentation are those of the speaker based on her training, clinical experience and interpretation of the literature and for educational purposes only.

Practitioners should evaluate the information, comments, and opinions using their own expertise coupled with an assessment for each patient.



# Optic Regeneration using iFarshchian Drops™ (patent pending)

Macular Degeneration

Diabetic Retinopathy

Retinitis Pigmentosa

Weaker Eyes

[Learn about Optical Regeneration](#)

## OPTIC REGENESIS





Symptoms include  
decreased vision in low  
light and tunnel vision



**THE CENTER FOR  
REGENERATIVE MEDICINE**

Patient Testimonial





Heal the Earth through the Arts



NEUROREGENESIS



## **Nasal administration of stem cells: a promising novel route to treat neonatal ischemic brain damage.**

van Velthoven CT, et al. *Pediatr Res.* 2010.

[Show full citation](#)

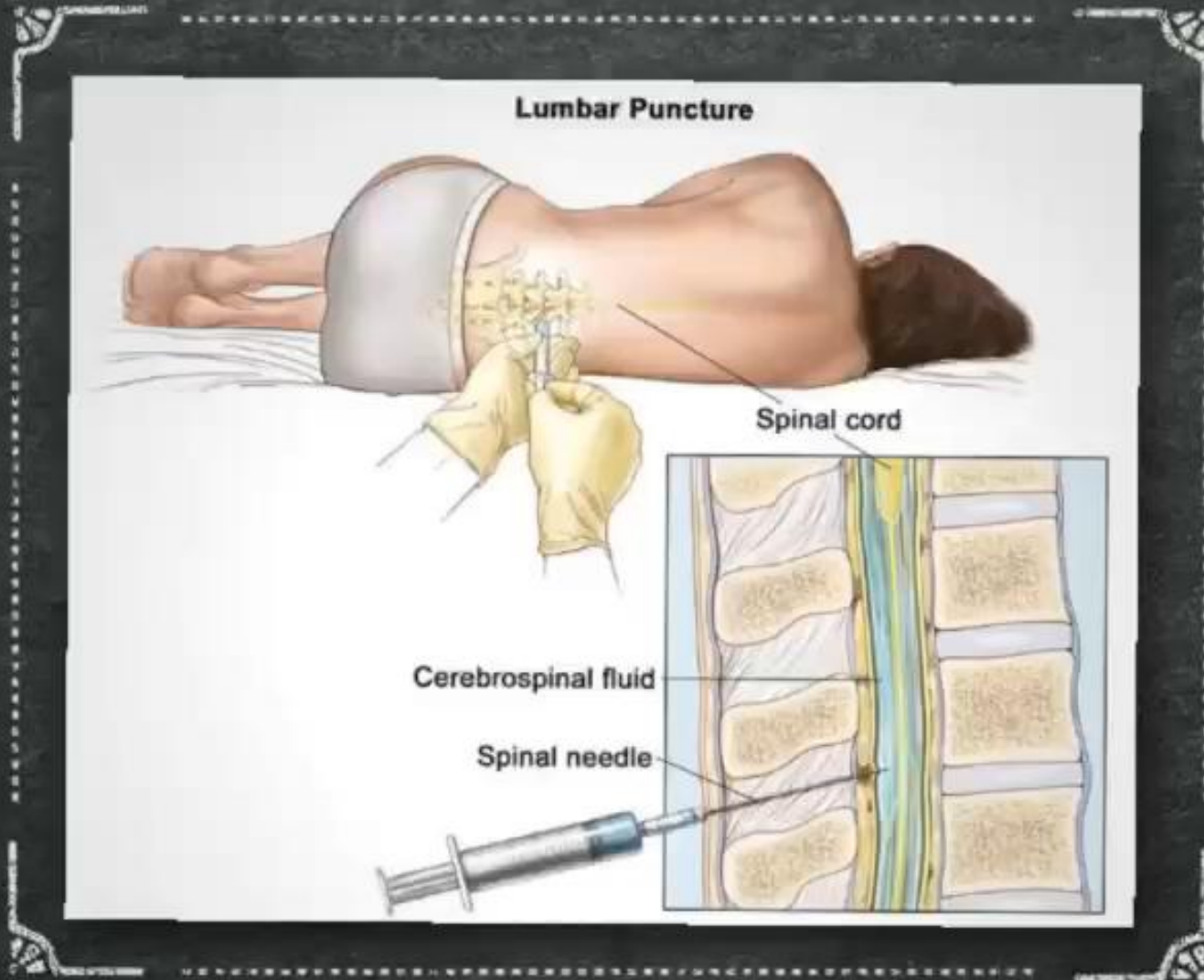
### **Abstract**

Mesenchymal stem cell (MSC) transplantation is a promising therapy to regenerate the brain after an ischemic event. We investigated the possibility to use the nasal route as a noninvasive method to repair the neonatal damaged brain. Nine-day-old mice underwent cerebral hypoxia-ischemia (HI), and MSCs were transplanted intranasally 10 d after HI. At 28 d after HI, MSCs were still present in the affected hemisphere but had not differentiated into cerebral cell types. Intranasal MSC treatment significantly improved sensorimotor function in the cylinder rearing test at 21 and 28 d after HI. Furthermore, intranasal MSC treatment decreased gray and white matter area loss when determined 28 d after HI by 34



Outpatient  
procedure





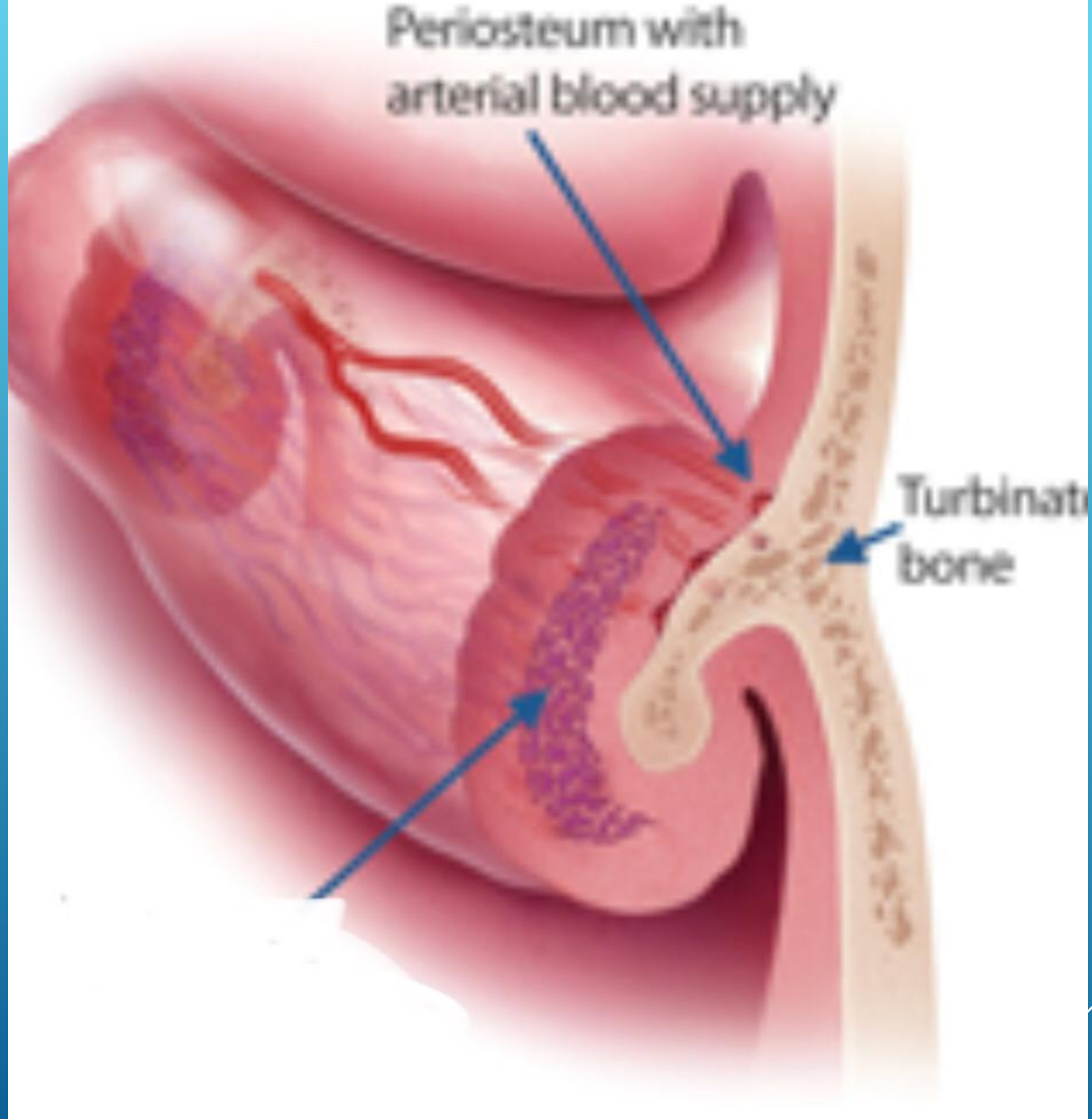
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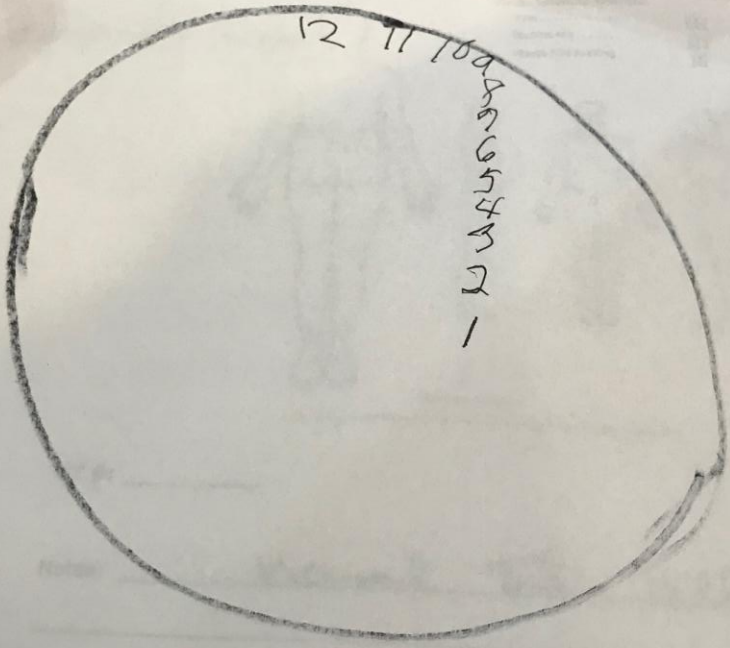










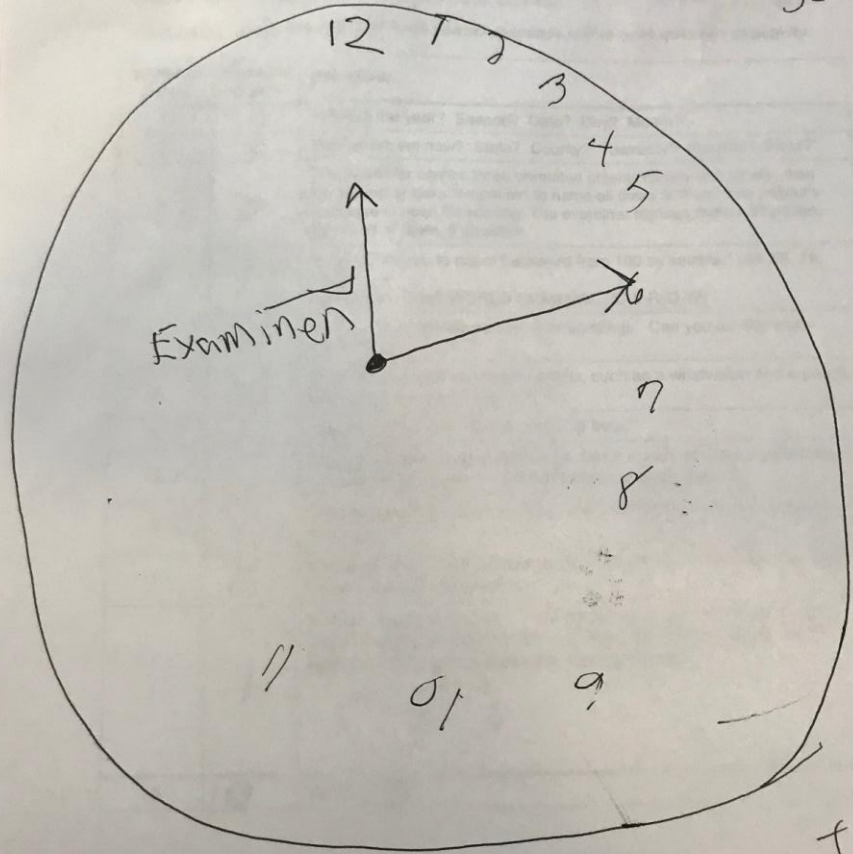


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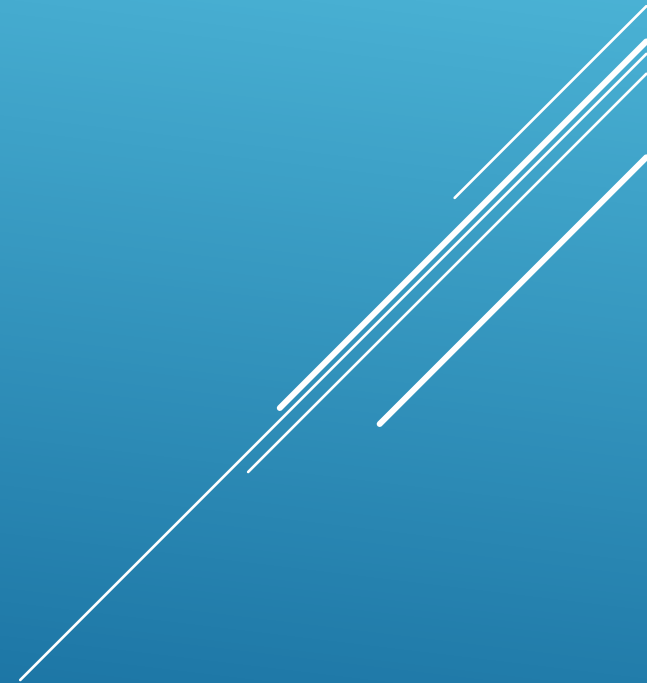
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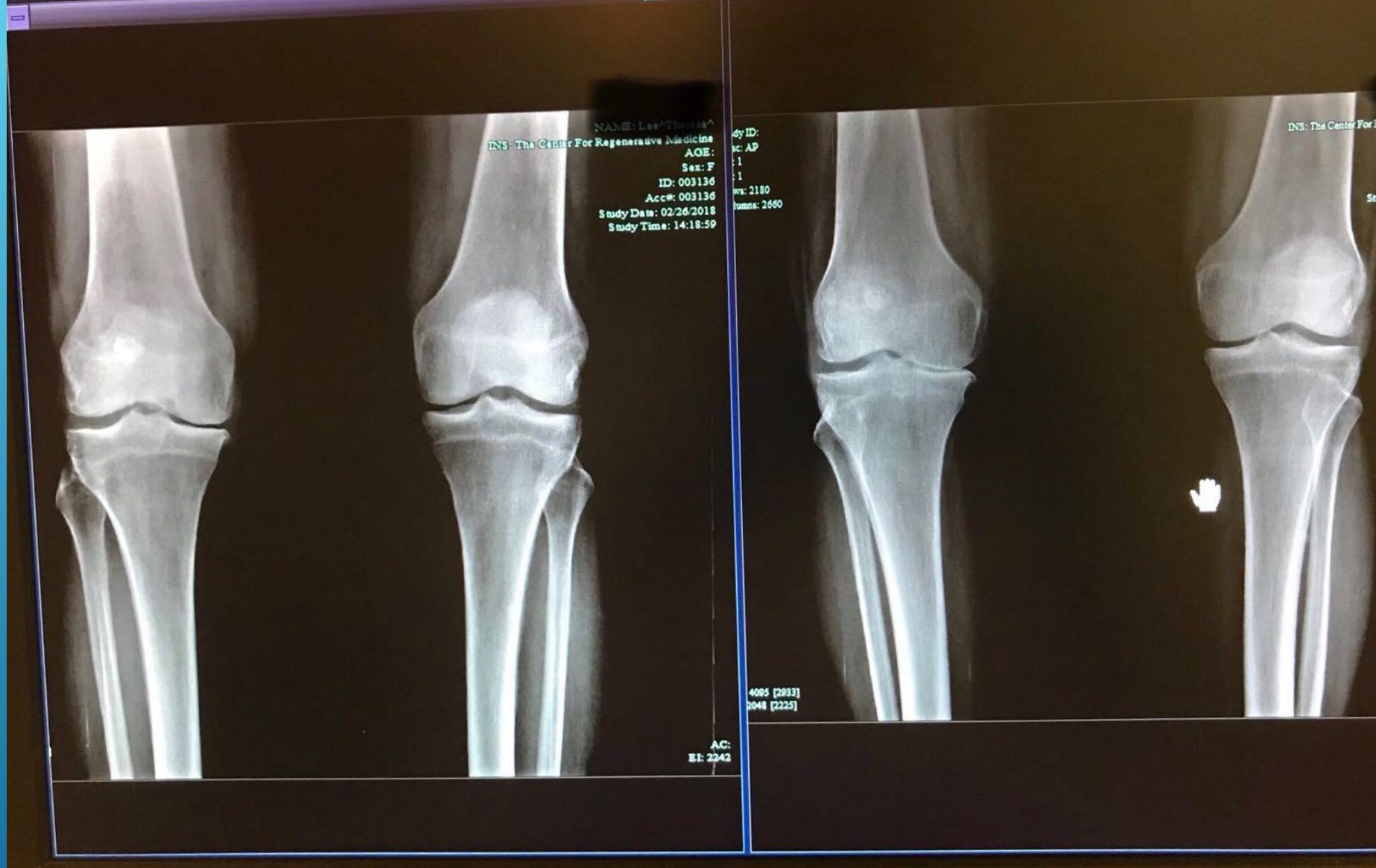




# Hippocrates

Genius of his time and  
the father of  
Regenerative Medicine



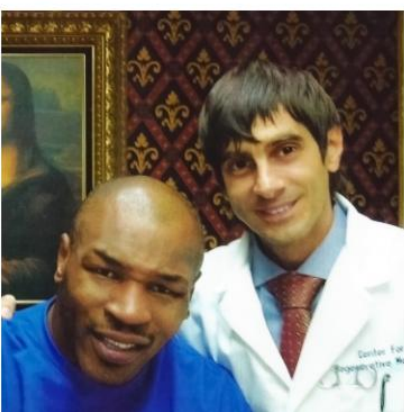
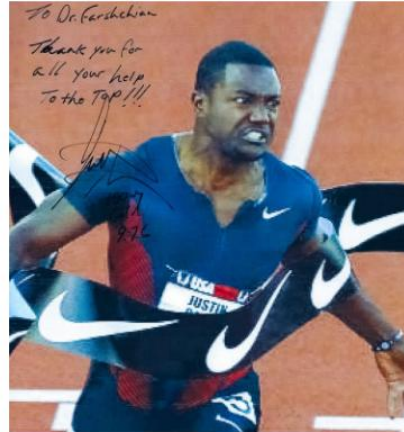
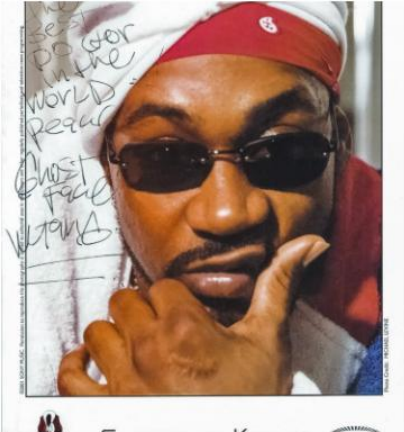
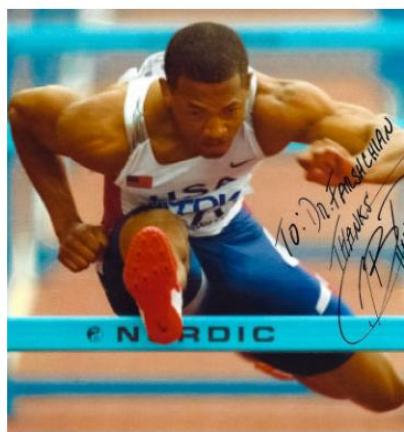


AFTER & BEFORE









# HALL OF FAME...





# READ SHIRLEY'S EXPERIENCE WITH STEM CELLS

[Read More](#)

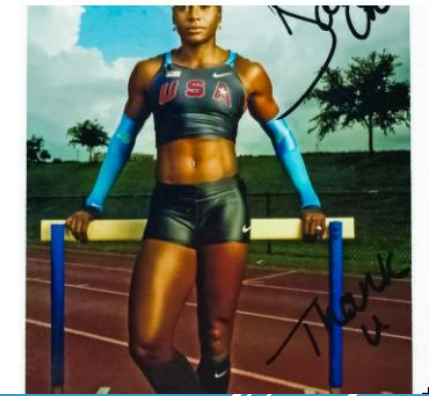
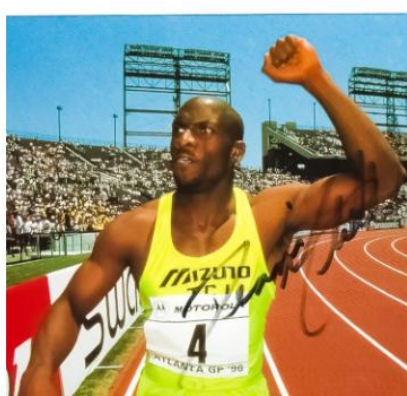
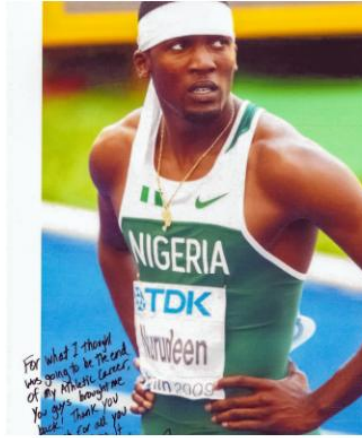
SHIRLEY MACLAINE TESTIMONIAL

## The following is an excerpt from Shirley MacLaine's new book "Above Line"

I waited for the stem cells to take effect. I did my boring ultra-scheduled water therapy every day, regulating my life and activity around the pain, which continued without any hint of letting up. Bathing suit, slippers. Warm water, driving and eating in the car, up at 8:27 with the dogs, lying down and writing. Bathing suit, slippers. Warm water . . . repeat and then repeat again. Then on the tenth day after the injections, I realized I was pain-free . My world changed. In fact, I didn't know what to do with myself. As the days passed, the pain didn't return. I didn't have to lie down four hours a day just to bear being alive. Then I noticed that I needed to seriously adjust to being peaceful and physically happy, not easy for an overachiever who wants to learn everything.

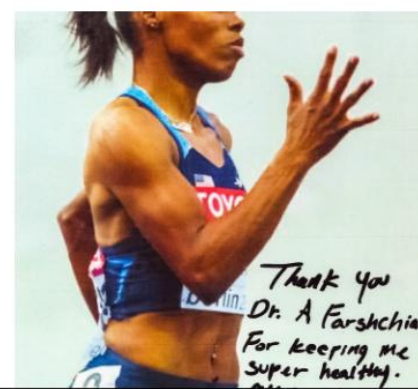
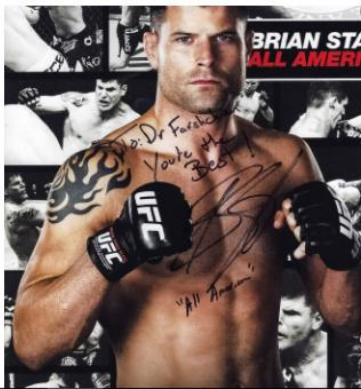
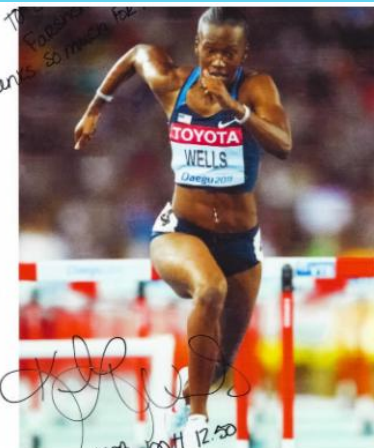
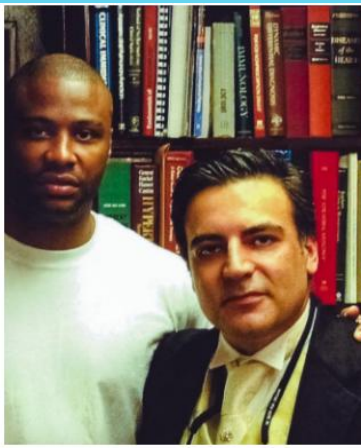






HALL OF FAME..





# HALL OF FAME.



# HALL OF FAME





# Sources of Stem Cells



The embryos of  
aborted fetuses



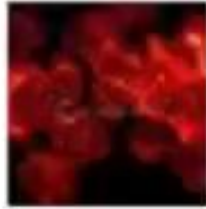
Umbilical cord  
and cord blood of a  
new born baby



Bone Marrow



Peripheral  
Bloodstream



Adult Tissues



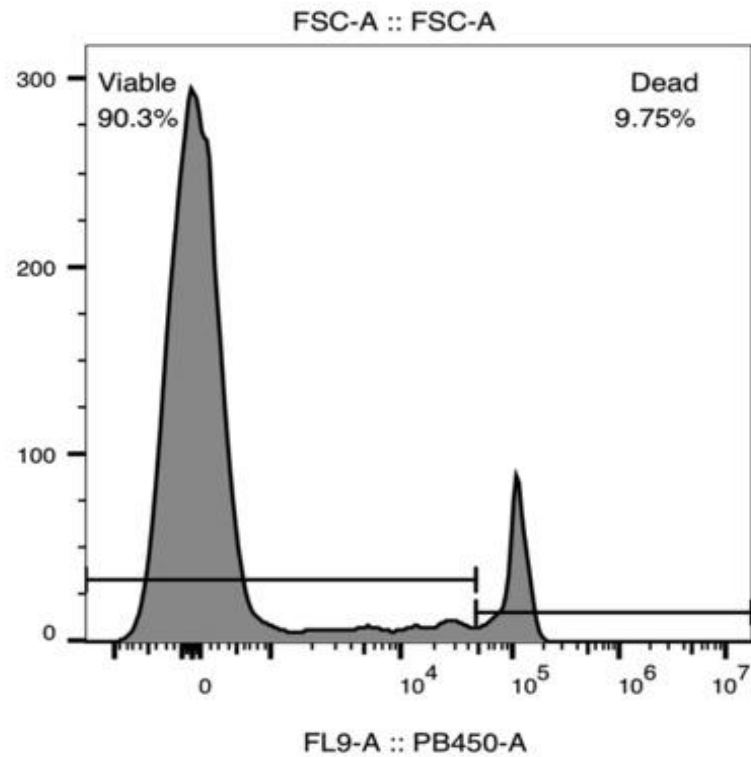
Amniotic Fluid

- Two main sources:
1. The patient (autologous).
  2. Pregnancy's byproducts (allograft).

	12 -36 MONTHS
HEPA	HEPA Main Filter
ULPA	ULPA Main Filter
<b>OTHER IMPORTANT SUPPLIES</b>	
UV	UV germicidal lamps replace every 1000 hours or every 12 months, Box of 4 bulbs
IV-BAR	Stainless steel IV bar with 'S' Hooks
SF	Service Fixture, side wall mount
CART	Heavy duty steel cart (specify leveling feet or locking casters)
12-204	Ready-to-use, Intermediate-level disinfectant which is effective against TB, HBV, HCV, viruses (hydrophilic and lipophilic), bacteria (including MRSA and VRE) and fungi, Case of 12-24oz. Spray Bottles
www.air-science.com / Tel: (239) 489-0024	
Order online at www.Filterco.com	



# Flow Cytometry of Alocyte measured at University of Miami. 4.12.2018



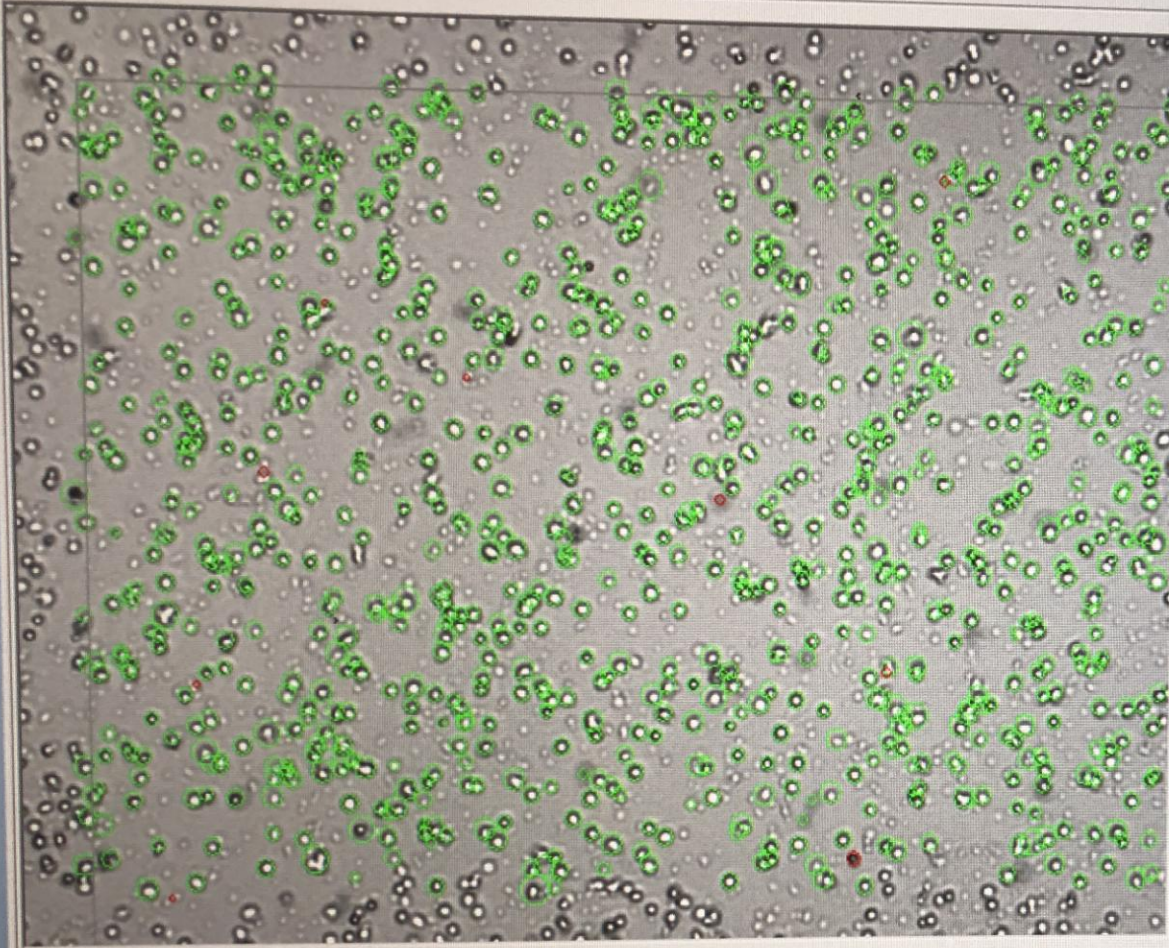


Date Received: **04/25/2018**

<b><u>Assay</u></b>	<b><u>Result</u></b>	<b><u>Reference</u></b>	<b><u>Date Tested</u></b>	<b><u>Comment</u></b>	<b><u>Lab</u></b>
CMV (total)	Negative	Negative	04/26/2018		CTS
HBcAb (total)	Non-Reactive	Non-Reactive	04/26/2018		CTS
HBsAg	Non-Reactive	Non-Reactive	04/26/2018		CTS
HCV Ab	Non-Reactive	Non-Reactive	04/26/2018		CTS
HIV 1/2 Plus O	Non-Reactive	Non-Reactive	04/26/2018		CTS
HTLV-I/II Ab	Non-Reactive	Non-Reactive	04/26/2018		CTS
HBV NAT	Non-Reactive	Non-Reactive	04/26/2018		CTS
HCV NAT	Non-Reactive	Non-Reactive	04/26/2018		CTS
HIV-1 NAT	Non-Reactive	Non-Reactive	04/26/2018		CTS
WNV NAT	Non-Reactive	Non-Reactive	04/26/2018		CTS
Syphilis	Non-Reactive	Non-Reactive	04/26/2018		CTS
T. cruzi	Non-Reactive	Non-Reactive	04/26/2018		CTS



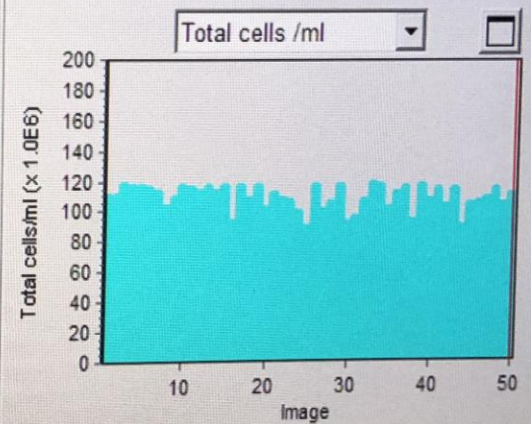
Camera Image 50 of 50



Current Run Results

Sample ID 120018  
 Cell type STEMCELL  
 Dilution factor 2.0

	Image 50	Total
Cell count	918	45171
Viable cells	909	44731
Viability	99.0 %	99.0 %
Total cells / ml	110.61 x 10 <sup>6</sup>	108.86 x 10 <sup>6</sup>
Viable cells / ml	109.53 x 10 <sup>6</sup>	107.80 x 10 <sup>6</sup>
Avg. diam. (microns)	9.57	10.15
Avg. circularity	0.84	0.83
Avg. background intensity	201	205
Images		50



Instrument Status and Control

Status Rinsing cell with cleaning agent  
 Position 2  
 Sample ID 120018  
 Cell type STEMCELL  
 Operator

Reagents

F

Runs left  
0

E

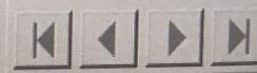
Log in sample

Stop queue

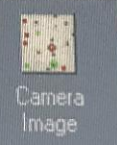
Pause run

Print run

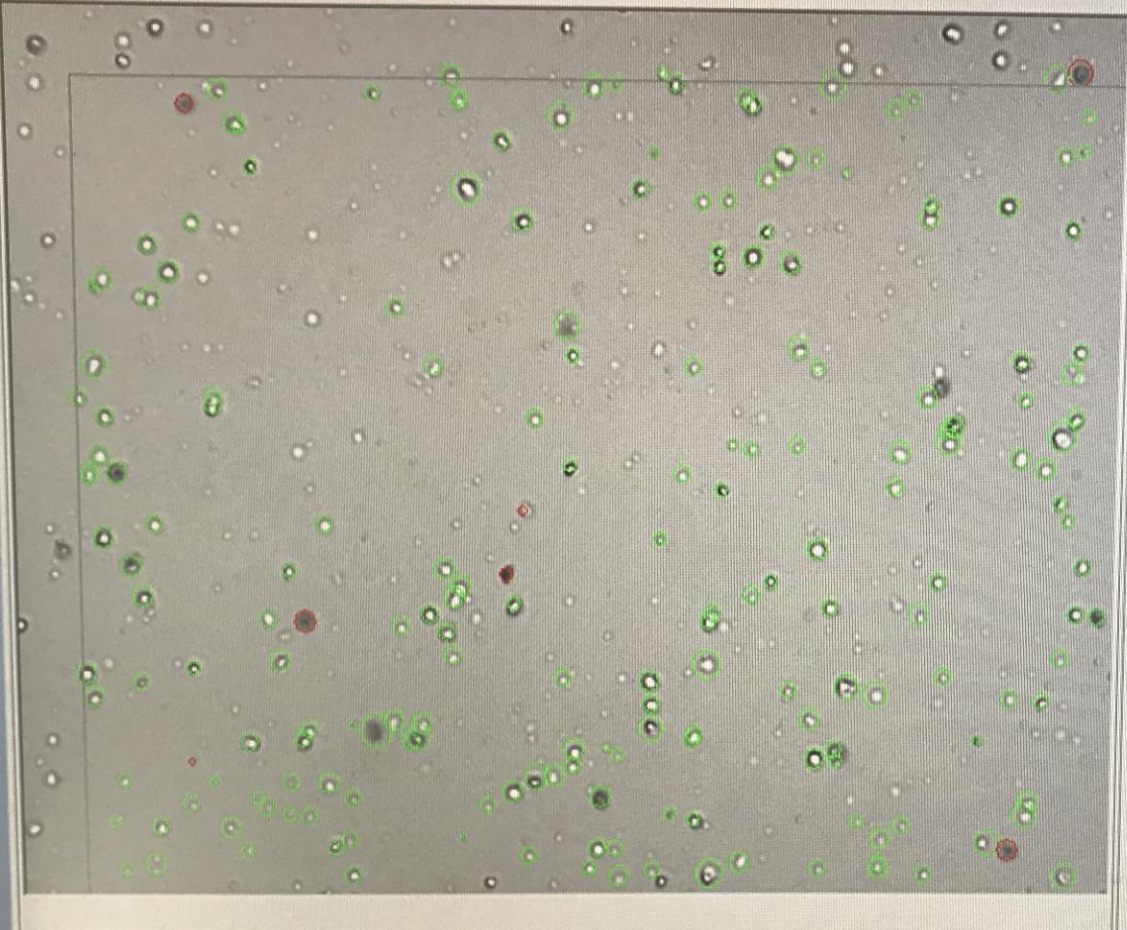
Image review:







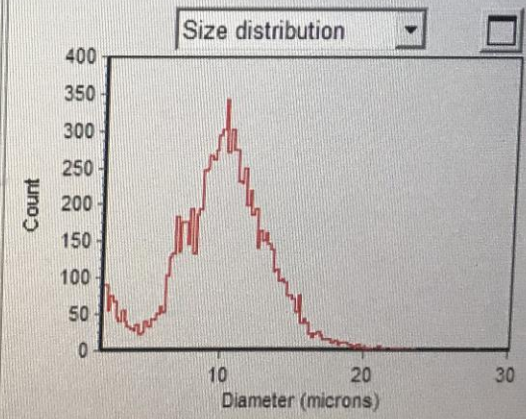
Camera image 47 of 50



Previous Run Results

Sample ID 9112025  
Cell type STEMcell\_Max  
Dilution factor 10.0

	Image 47	Total
Cell count	205	9878
Viable cells	198	9531
Viability	96.6 %	96.5 %
Total cells / ml	123.51 x 10 <sup>6</sup>	119.02 x 10 <sup>6</sup>
Viable cells / ml	119.29 x 10 <sup>6</sup>	114.84 x 10 <sup>6</sup>
Avg. diam. (microns)	10.60	10.09
Avg. circularity	0.72	0.74
Avg. background intensity	207	205
Images		50



Instrument Status and Control

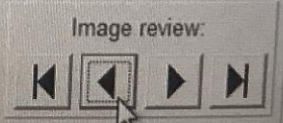
Status Idle  
Position 12  
Sample ID  
Cell type  
Operator

Reagents  
F  
Runs left 0  
E

Log in sample

Start queue

Print run





White Labeling

**THE CENTER FOR  
REGENERATIVE  
MEDICINE  
LABORATORIES**

**CSO: A.J. Farshchian MD**





The Center for  
Regenerative Medicine

# Platelet Rich Plasma



The Center for  
Regenerative Medicine

MSC from  
Bone  
marrow.

## Approved Uses

Cord blood is approved only for use in “hematopoietic stem cell transplantation” procedures, which are done in patients with disorders affecting the hematopoietic (blood forming) system. Cord blood contains blood-forming stem cells that can be used in the treatment of patients with blood cancers such as leukemias and lymphomas, as well as certain disorders of the blood and immune systems, such as [sickle cell disease](#) and [Wiskott-Aldrich syndrome](#).

“Cord blood is useful because it is a source of stem cells that form into blood cells. Cord blood can be used for transplantation in people who need regeneration, that is, ‘regrowth,’ of these blood-forming cells,” Wonnacott says.

For instance, in many cancer patients, the disease is found in the blood cells. Chemotherapy treatment of these patients kills both cancer cells and the healthy blood-forming stem cells. Transplanted stem cells from cord blood can help regrow the healthy blood cells after the chemotherapy.





**CORD BLOOD**



AN AMNIOTIC MATRIX IS  
AN ALLOGRAFT COMPRISED  
OF HUMAN AMNIOTIC  
MEMBRANE (HAM)

---







A close-up photograph of a file folder tab. The tab is made of light brown cardboard and has a white rectangular label with the word "Requirements" printed in a black, serif font. The tab is part of a larger file folder, with other tabs visible in the background, some of which are out of focus. One tab in the background is labeled "Clients", and another in the foreground is labeled "Su". A metal ring is visible on the left side of the folder, and a watermark "depositphotos" is overlaid diagonally across the image.

Requirements

DEA # \_\_\_\_\_

NPI # \_\_\_\_\_

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FL Lic # ME77664

1001 N.E. 125TH STREET

MIAMI, FL 33161

305-866-8381

WWW.ARTHRITISUSA.NET



NAME

Joe SMITH

DOB

ADDRESS

DATE

Rx (PLEASE PRINT)

Drink 2 glasses  
of water  
q 3h

LABEL

REFILL

PRE

NR

TO INSURE PROPER DISPENSING, PRESCRIBER MUST WRITE 'MEDICALLY NECESSARY'  
ON THE PRESCRIPTION.

M.D.

11-17-11



TRI1111171000932851080591

UNIFORM BLUE BACKGROUND WITH WHITE Rx SYMBOL VISIBLE • VOID APPEARS WHEN COPIED • WATERMARK ON REVERSE SIDE

FULL DESCRIPTION OF SECURITY FEATURES ON REVERSE SIDE



DEA # \_\_\_\_\_

NPI # \_\_\_\_\_

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MIAMI, FL 33161  
305-866-8384  
WWW.ARTHRITISUSA.NET



NAME

JOE SMITH

DOB

ADDRESS

DATE

R (PLEASE PRINT)

NO SUGAR  
NO MEAT.  
1 MEAL BID

*Triple*

LABEL

REFILL

TIMES

PER

TO INSURE ACCURATE DISPENSING, PRESCRIBER MUST WRITE 'MEDICALLY NECESSARY'  
ON THE PRESCRIPTION.

M.D.

11-17-11



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UNIFORM BLUE BACKGROUND WITH WHITE Rx SYMBOL VISIBLE • VOID APPEARS WHEN COPIED • WATERMARK ON REVERSE SIDE

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WWW.ARTHRITISUSA.NET



NAME

*Joe SMITH*

DOB

ADDRESS

DATE

Rx (PLEASE PRINT)

*Sleep PR 8 hrs  
- 10 hrs  
plus*

*AT*

REFILL \_\_\_\_\_ TIMES PER \_\_\_\_\_ NR

TO INSURE BRAND NAME DISPENSING, PRESCRIBER MUST WRITE 'MEDICALLY NECESSARY' ON THE PRESCRIPTION. \_\_\_\_\_ M.D.

11-17-11

TRI1111171000932851080591

UNIFORM BLUE BACKGROUND WITH WHITE Rx SYMBOL VISIBLE • VOID APPEARS WHEN COPIED • WATERMARK ON REVERSE SIDE

FULL DESCRIPTION OF SECURITY FEATURES ON REVERSE SIDE

DEA # \_\_\_\_\_

NPI # \_\_\_\_\_

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UNIFORM BLUE BACKGROUND WITH WHITE RX SYMBOL VISIBLE • VOID APPEARS WHEN COPIED • WATERMARK ON REVERSE SIDE

NAME **Joe Smith** DOB \_\_\_\_\_

ADDRESS \_\_\_\_\_ DATE \_\_\_\_\_

**Rx** (PLEASE PRINT)

**Exercise 30 Mins**



**g-d**

*Triple*

LAM

REFILL \_\_\_\_\_ TIMES \_\_\_\_\_ PRN \_\_\_\_\_ NR \_\_\_\_\_

\_\_\_\_\_  
M.D.

TO INSURE BRAND NAME DISPENSING, SUBSCRIBER MUST WRITE 'MEDICALLY NECESSARY' ON THE PRESCRIPTION.

11-17-11



TRH111171000932851080591

FULL DESCRIPTION OF SEVERAL FEATURES ON REVERSE SIDE



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NPI # \_\_\_\_\_

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MIAMI, FL 33161  
305-866-8384  
WWW.ARTHRITISUSA.NE



UNIFORM BLUE BACKGROUND WITH WHITE RX SYMBOL VISIBLE • VOID APPEARS WHEN COPIED • WATERMARK ON REVERSE SIDE

NAME

JOE SMITH

DOB

ADDRESS

DATE

Rx (PLEASE PRINT)

Sing for 15 Min

Rx

TID

Triple

LABEL

REFILL

TIMES

NR

TO INSURE BRAND NAME DISPENSING, PRESCRIBER MUST WRITE 'MEDICALLY NECESSARY' ON THE PRESCRIPTION. M.D.

11-17-11



TR11111171000932851080591

FULL DESCRIPTION OF SECURITY FEATURES ON REVERSE SIDE



TRAINING PROGRAM



The Center for  
Regenerative Medicine

# STEM CELL TRAINING PROGRAM



