

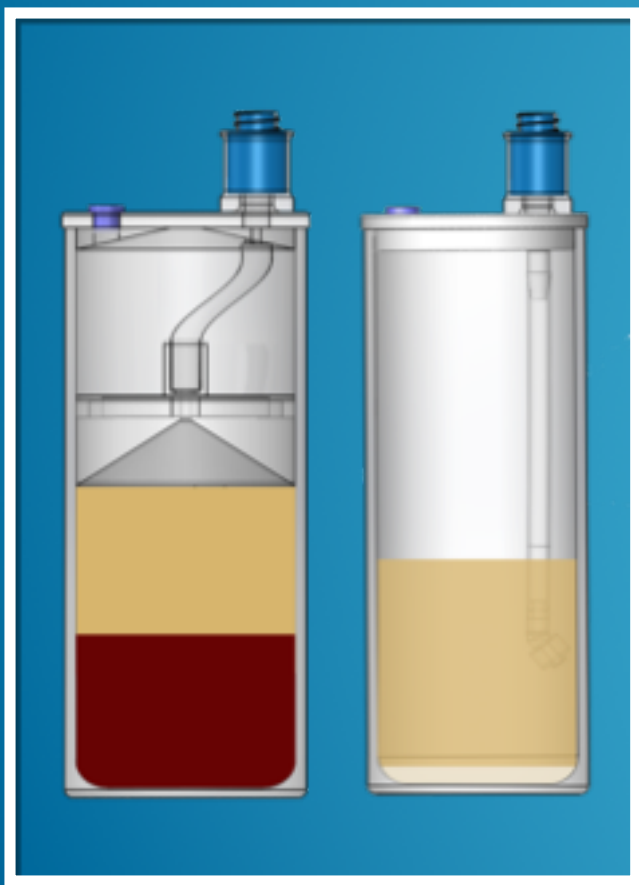
**WHAT SETS EMCYTE APART**  
EMCYTE'S PURE PRP® Difference



# HIGH PLATELET CONCENTRATION



**Ability to adjust concentration levels for specific protocols**



# MINIMUM PLATELETS CONCENTRATION

Minimum of 4-6 (x) times  
the Whole Blood  
Baseline/ $\mu\text{L}$



EmCyte > 7 times over  
baseline  
can be adjusted for prior  
to injection

# THERAPEUTIC DOSE OF PLATELETS

**Minimum  
of 1,000,000 platelets/ $\mu$ l in  
a 5 ml treatment sample**



**EmCyte  
7.5 and 9.5 billion viable  
platelets in a 7 ml  
treatment sample**



## EMCYTE'S PURE PRP®

Consistent platelet recoveries close to 90%

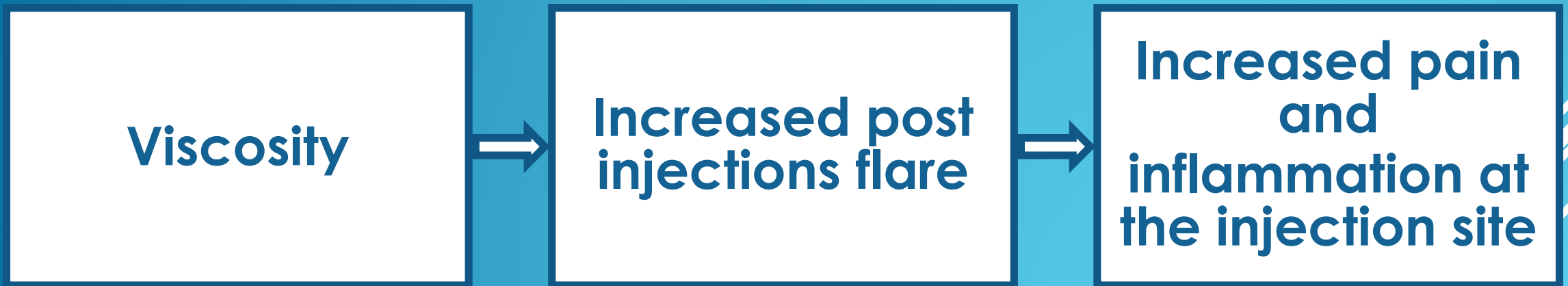


Use of Sodium Citrate  
for preserving platelet  
viability



**DELIVERABLE PLATELETS**

# THE IMPORTANCE OF RBC REMOVAL IN A PRP TREATMENT FINAL INJECTABLE



# CONTROL OF LEUKOCYTE CONTENT IN A PRP TREATMENT FINAL INJECTABLE

1

Customize  
processing



2

High  
**monocytes**  
concentration  
**X7 baseline**

3

Removal of  
98%  
inflammatory  
**neutrophils**

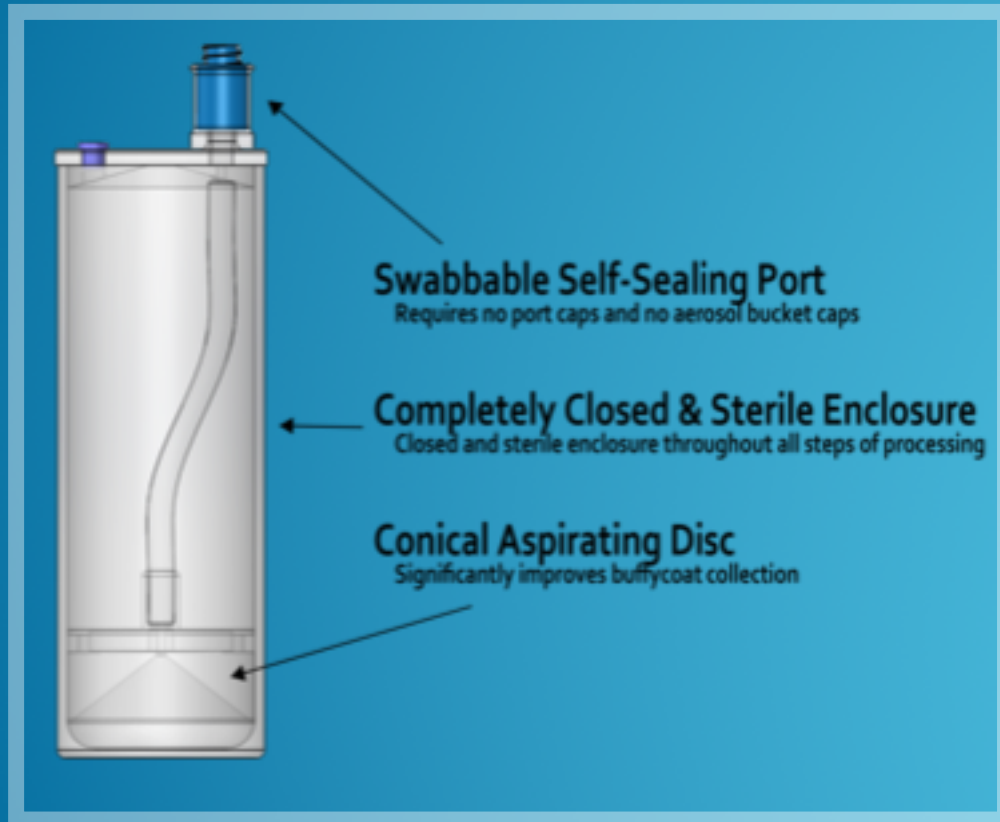
4

WBC Poor  
**PROTOCOL A**

5

WBC Rich  
**PROTOCOL B**

# COMPLETELY CLOSED SYSTEM



**Meets the highest sterility  
protocol standards**



**Never exposed to outside air**



# PurePRP® 6.5 minutes spin time

The shortest of all viable tabletop systems



# PRP COMPARISON

## **Professional Systems – high concentration platelets**

EmCype Pure PRP – no Neutrophils and no RBC

Harvest – RBC and Inflammatory WBC

Magellan – RBC and Inflammatory WBC

## **Common Systems – poor quality and not validated**

DrPRP and YesPRP – neither are validated, inconsistent platelet yield (YesPRP NOT FDA Cleared)

## **Single Spin – low platelet concentration** (< 2x)

RegenLab – single spin tube – low platelets

Eclipse – single spin tube – low platelets (not validated)

# Not ALL PRP is The Same

Comparison Data  
Pure PRP® vs. SmartPrep® vs Angel  
**Study Date 5/5/2015**  
8 Patient Comparison Study

	PurePRP®	SmartPrep®	Angel
Platelet Concentration	6.6x	5.66x	3.94x
Platelet Yield	80%	61%	45%
Deliverable Platelets	8,555,880,000	7,193,280,000	5,084,920,000
Granulocytes	2%	1%	3%
Monocytes	77%	27%	35%
Average PRP Volume	7.3	7.1	7.2

# Not ALL PRP is The Same

Comparison of  
EmCyte GS30-PurePRP® II,  
EmCyte GS60-PurePRP® II,  
Arteriocyte MAGELLAN,  
Stryker REGENKIT®THT,  
and ECLIPSE PRP

**Table 5.11. Platelet Concentration (times baseline)**

Sample Number	GS-60 PURE-PRP II	GS-30 PURE-PRP II	MAGELLAN	REGEN	ECLIPSE
501	7.0	6.0	4.5	0.1	0.2
502	6.2	6.4	5.8	1.2	0.3
504	5.7	4.1	4.9	0.4	0.6
505	7.8	9.7	7.7	0.9	0.8
<b>MEAN</b>	<b>6.7</b>	<b>6.6</b>	<b>5.7</b>	<b>0.7</b>	<b>0.5</b>
<b>STDEV</b>	<b>0.9</b>	<b>2.3</b>	<b>1.4</b>	<b>0.5</b>	<b>0.3</b>



## References:

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2. Mandle, R. Bioscience Research Associates. (2016). Report 515, Research Study: Comparison of EmCyte GS30-PurePRP® II, EmCyte GS60-PurePRP® II, Arteriocyte MAGELLAN, Syner REGENKIT®THT, and ECLIPSE PRP. Cambridge, MA: US.
3. Marx, Robert E. "Platelet-Rich Plasma (PRP): What Is PRP and What Is Not PRP?" *Implant Dentistry* 10.4 (2001): 225-28. Web.
4. Marx, R. E. (2004). Platelet-rich plasma: evidence to support its use. *Journal of Oral and Maxillofacial Surgery*, 62(4), 489-496. doi:10.1016/j.joms.2003.12.003

Thank you

