



# GENIUS PRP

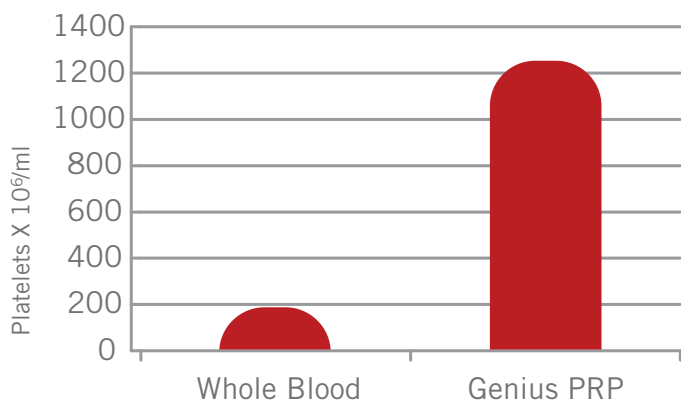


Most PRP systems are based upon a Ficoll density centrifuge system for concentrating platelets and associated growth factors found in whole blood. Years of evolutionary improvements in designs have led to systems with significant differences in process and output.<sup>(1,2,3)</sup> Manufacturers of commercially available systems have made modifications to their devices and procedures, and some have added a 'two-spin' capability in order to achieve incremental gains in their output results. These changes often created a more complex procedure that may affect the consistency of the output.<sup>(2)</sup> Designing the Genius Concentration System required taking a 'step back' in order to leap forward.

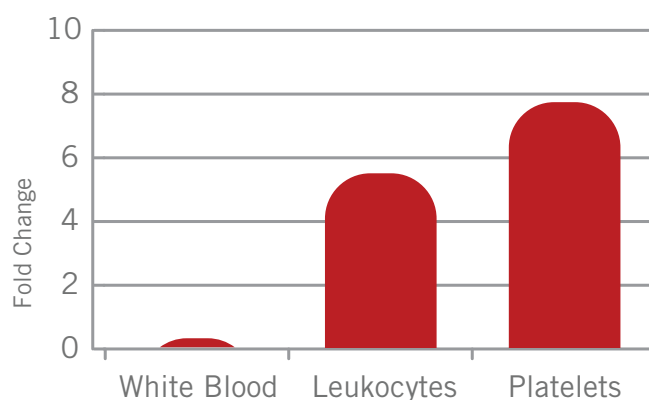
## A Revolutionary Design For Quick and Consistent Results

- **3.2% Coefficient Of Variance<sup>(4)</sup>**
  - *Consistent Output For Consistent Results*
- **7.8x Increase Over Baseline Platelet Count<sup>(4)</sup>**
- **90-Second Total Spin Time, 2 minutes to complete simple 'two-spin' procedure**
  - *Treat more patients in less time*

## Blood Cell Counts of 60 Donors<sup>(4)</sup>



**Platelet Count**



**Concentration**



# GENIUS

CONCENTRATION SYSTEM

## Consistent High Platelet Output With A Quick, Reproducible Process

System	Processing Time (Minutes)	Office Time Per PRP Patient (Minutes) <sup>(9)</sup>
Reinvent Genius PRP <sup>(4)</sup>	1.5	17.0
HarvestSmartPrep™ <sup>(5)</sup>	14.0	29.5
BiometGPS™ <sup>(6)</sup>	15.0	30.5
Magellan™ <sup>(7)</sup>	17.0	32.5
Arthrex Ange ™ <sup>(8)</sup>	15.0	30.5

## Using the same technology and expecting different results? ***STOP THE INSANITY!***

Indications for use: The Genius PRP System is designed to be used for the safe and rapid preparation of autologous platelet-rich plasma (PRP) from a small sample of blood at the patient's point of care. The PRP is mixed with autograft and/or allograft bone prior to application to a bony defect for improving handling characteristics.

- 1) Hessel et al, The comparison between different systems to prepare platelet rich plasma using equine blood, Faculty of Veterinary Medicine, University of Utrecht, The Netherlands (2013)
- 2) Dhurat et al, Principles and Methods of Preparation of Platelet-Rich Plasma: A review and author's perspective, Journal of Cutaneous and Aesthetic Surgery, 2014 Oct-Dec; 189-197
- 3) Castillo et al, Comparison of Growth Factor and Platelet Concentration, The American Journal of Sports Medicine, Vol 39, No 2, 2011
- 4) Data on File
- 5) [www.harvesttech.com](http://www.harvesttech.com) product description and instructions for use
- 6) GPS III Gravitational Platelet Separation System instructions for use
- 7) [www.arteriocyte.com](http://www.arteriocyte.com) product video and instructions for use
- 8) [www.arthrex.com](http://www.arthrex.com)
- 9) Process times of 15.5 min per pass presented Sept 24, 2005, California State Perfusion Society Meeting, Lake Tahoe, NV

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