

Discover

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TruPRP™

**MAGELLAN®**  
PRP the way you want it.

# Discover

## TruPRP™

Discover the quality of Magellan® TruPRP™.

The Magellan® technology provides an automated dual spin processing system that can deliver (PRP) Platelet Rich Plasma as well as (PPP) Platelet Poor Plasma.

### Magellan® PRP Growth Factor Assays (ELISA\*)

60mL of initial blood was concentrated to 6mL of PRP (7.2X baseline platelet count).

Mean ± S.D. n = 9 (†n=4)	Initial Blood (60 mL)	PRP (6 mL)
PDGF AB (ng/mL)	10.2 ± 1.4	88.4 ± 28.8
PDGF AA (ng/mL)	2.7 ± 0.5	22.2 ± 4.2
PDGF BB (ng/mL)	5.8 ± 1.4	57.8 ± 36.6
TGF b1 (ng/mL)	41.8 ± 9.5	231.6 ± 49.1
VEGF (pg/mL)	83.1 ± 65.5	597.4 ± 431.4
bFGF† (pg/mL)	10.7 ± 2.9	48.4 ± 25.0
EGF (pg/mL)	12.9 ± 6.2	163.3 ± 49.4

Source: Arteriocyte Medical Systems TS-0078-130; TS-0078-182 (data on file)  
\*ELISA = Enzyme-Linked ImmunoSorbent Assay

### Platelets release various growth factors:

#### PDGF - Platelet Derived Growth Factor

Cell growth, new generation and repair of blood vessels, collagen production

#### TGF-B

Growth and neogenesis of epithelial cells and vascular endothelial cells, promotion of wound healing

#### VEGF

Growth and new generation of vascular endothelial cells

#### FGF - Fibroblast Growth Factor

Tissue repair, cell growth, collagen production, hyaluronic acid production

#### EGF - Epithelial Growth Factor

Promotion of epithelial cell growth, angiogenesis, promotion of wound healing

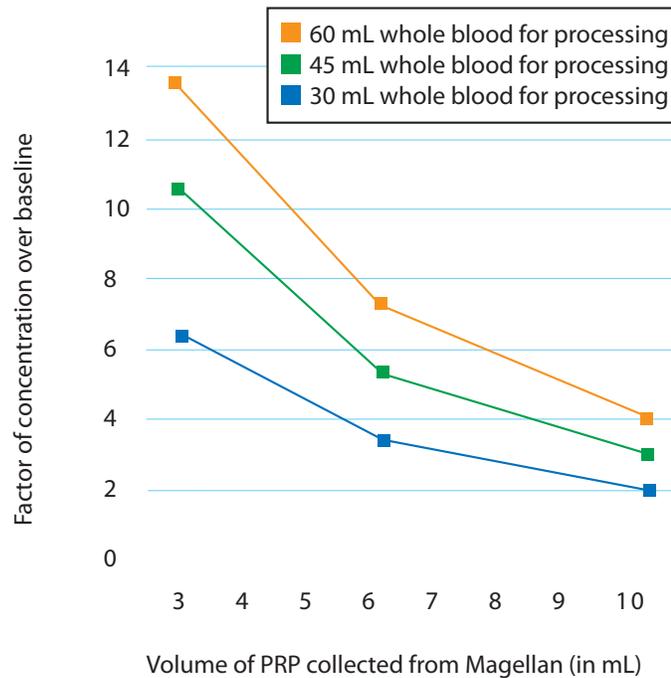


# Customized

## Each Patient is Unique

Meet each patient's specific needs with fully customizable product volumes and platelet concentrations.

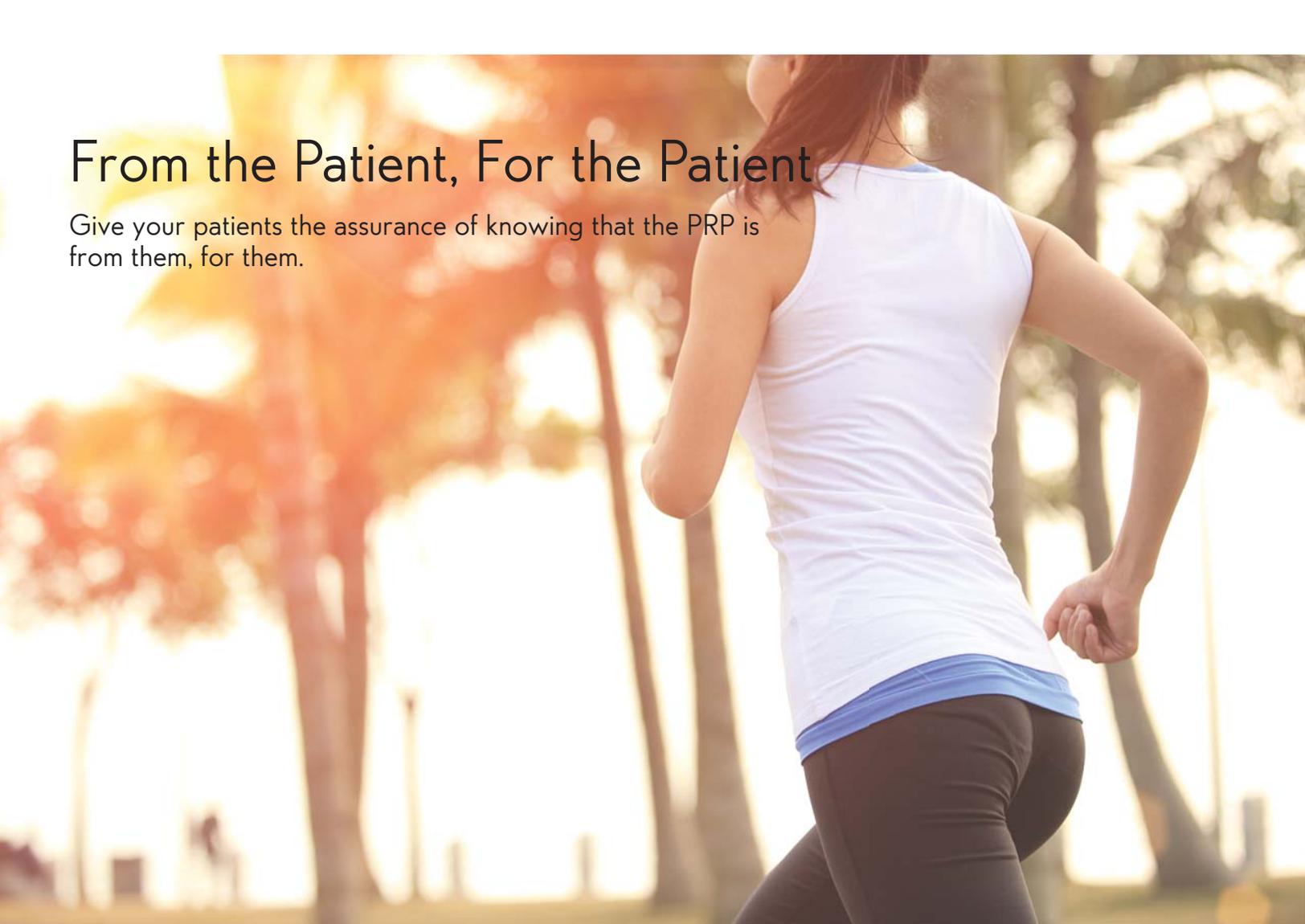
The Magellan® Platelet Separator is unique in its ability to customize the PRP product. The system can be programmed to deliver a volume of 3 - 10 mL from each processing cycle. This allows you to customize the platelet concentration per mL within the PRP. The Magellan® is approved for three cycles per disposable, allowing for a maximum of 30 mL of product.



## Customize TruPRP™ for Each Patient

With a simple push of a button you can customize PRP

60 mL of blood processed to 6 mL delivers a platelet concentration of 7.2 times baseline (see customization graph above). It is important to determine the volume needed for each application and process the appropriate volume of blood to keep platelet concentration at therapeutic levels.



# From the Patient, For the Patient

Give your patients the assurance of knowing that the PRP is from them, for them.

# Autologous

Why not give your patients what they are looking for? A non surgical, biologic approach for tissue healing and regeneration using their own platelet derived growth factors and/or progenitor cells.<sup>3</sup>

According to several studies, Platelet Rich Plasma must contain platelet counts at least 4 - 6 times baseline in order to be therapeutic.<sup>1,2</sup> PRP is rich in platelet growth factors as well as a fibrin matrix - the essentials for tissue healing and regeneration.<sup>3</sup>

Known applications for PRP include, but are not limited to:

- Intra Articular for Degenerative Joint Disease and Osteoarthritis<sup>4,5</sup>
- Neuropathic Pain<sup>6</sup>
- Intervertebral Disc Degeneration<sup>7</sup>
- Epicondylitis<sup>8</sup>
- Plantar Fasciitis<sup>9</sup>
- Tendon and Muscle Injury<sup>10</sup>

# Most Elegant Machine on the Market

The Magellan® Platelet Separator is not your everyday centrifuge. Unlike the lab centrifuges that have been repurposed, the Magellan® was specifically designed to concentrate peripheral blood or a mixture of blood and bone marrow aspirated at bedside.

This fully automated system processes the blood without the need for manual manipulation. At the end of its cycle the PRP is delivered into a collection syringe and is ready for immediate application.

## Key Features:

- Fully Contained - Automated System
- Self Balancing Disposable Canister Eliminates Counterweights
- Electronic Sensor Facilitates Separation Phases
- Lightweight - Space Saving Design



# Elegant Design

# Ordering Information

Contact Customer Service or your Local Representative to learn more, and to place an order for the Magellan® Autologous Platelet Separator and the appropriate Disposables.

## References:

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2. Hom et al. The Healing Effects of Autologous Platelet Gel on Acute Human Skin Wounds. *Arch Facial Plastic Surg.* 2007; 9:174-183
3. David Crane, et al; Platelet-Rich Fibrin Matrix Grafts, *Practical Pain Management*, vol. 8 issue 1. Jan/Feb 2008
4. Kon et al, Platelet-rich plasma: intra-articular knee injections produced favorable results on degenerative cartilage lesions; *Knee Surg Sports Traumatol Arthrosc* DOI 10.1007/s00167-009-0940-8, April 2009
5. Filardo/Kon et al: Platelet-rich plasma intra-articular knee injections for the treatment of degenerative cartilage lesions and osteoarthritis, Feb. 2010
6. Kuffler, Damien; Platelet-Rich Plasma and the Elimination of Neuropathic Pain, *Mol Neurobiol* (2013) 48:315-332
7. Yang et al. Mesenchymal Stem Cells Arrest Intervertebral Disc Degeneration Through Chondrocytic Differentiation and Stimulation of Endogenous Cells; *The American Society of Gene & Cell Therapy*
8. Peerbooms et al. Positive Effect of an Autologous Platelet Concentrate in Lateral Epicondylitis in a Double-Blind Randomized Controlled Trial; *AJSM* 2010, 38:255
9. Ehab Mohamed Selem Ragab • Ahmed Mohamed Ahmed Othman, Platelets rich plasma for treatment of chronic plantar fasciitis; *Arch Orthop Trauma Surg*, Dec. 2011
10. Mishra, Treatment of Tendon and Muscle using Platelet-Rich Plasma; 2009

## Indication For Use:

The Magellan® Autologous Platelet Separator system is designed to be used in the clinical laboratory or intraoperatively at point of care for the safe and rapid preparation of platelet poor plasma and platelet concentrate (platelet rich plasma) from a small sample of blood or a small mixture of blood and bone marrow. The plasma and concentrated platelets produced can be used for diagnostic tests. Additionally, the platelet rich plasma can be mixed with autograft and/or allograft bone prior to application to an orthopedic site as deemed necessary by the clinical use requirements.

## Disclaimer:

The platelet rich plasma prepared by this device has not been evaluated for any clinical indications. Platelet rich plasma prepared from a mixture of whole blood and bone marrow may contain higher levels of plasma free hemoglobin than platelet rich plasma prepared from whole blood.

**ARTERIOCYTE**  
Helping Patients Heal Faster™

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