



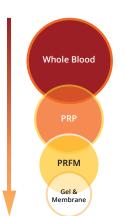
The Next Generation of PRP Therapy

PLATELET-RICH FIBRIN MATRIX (PRFM)

The Liberty MTX™ System is designed for the safe and rapid preparation of Platelet-Rich Fibrin Matrix (PRFM) from a small sample of blood at the patient point of care. Many PRP systems require operator skill, have varying results and have extensive contamination with red blood cells and white blood cells. Liberty MTXTM removes virtually all contaminating cells and is independent of operator technique. PRP is converted to PRFM through a controlled process, creating a scaffold that serves to protect and preserve platelets. Think of Liberty MTX™ PRFM as the next generation PRP.

What is Platelet-Rich Plasma (PRP)?

- PRP is a solution of plasma and platelets where the platelet concentration is higher than whole blood.
- Optimal platelet concentration is 2-3 times greater than whole blood.
- Definition of PRP does NOT include red blood cells (RBC) or white blood cells (WBC).
- RBC and WBC should be removed as much as possible from PRP preparation.
- PRP kits that tout high platelet concentrations often have contaminating RBCs or WBCs which have inflammatory and catabolic effects causing opposite effect of desired outcome.
- Pink or red PRP has RBC contamination.
- The ideal PRP solution will be a golden, straw-like color.



Blood performs numerous functions exquisitely

Competitors - RBC & WBC contamination

Catalyst - removes almost all RBC & WBC plus Fibrin Matrix

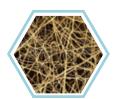
CAREstream Product Enhancements

How is PRFM different?



SYSTEM FEATURES:

- "Golden" Visual Guide to Quality
- Purest PRP/PRFM
- Closed-System
- Secondary Proprietary Step
- Converts PRP to PRFM



FIBRIN MATRIX SCAFFOLD IS KEY!

- Calcium chloride allows for controlled fibrin polymerization
- Scaffold is a biologic connector
- Platelets are localized and viable
- Sustained growth factor release



THE POWER OF BLOOD



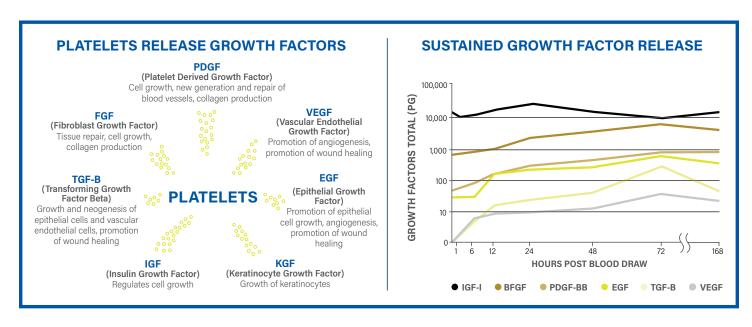


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SYSTEM FOR THE PREPARATION OF AUTOLOGOUS PRFM™



THE CARESTREAM PROCESS

Blood Draw

Centrifugation

Transfer

Application

Optimal Platelet Concentration

In Vitro, Animal and Human Studies Physiologic Range is Better Than Pharmacologic Range [Wound Healing, Bone, Spinal Cord Injury]

"Those methods with lower concentrations of platelets – 1 to 3 times baseline - showed more robust healing rates than those with higher concentrations 3 to 8 times baseline."

Rappl LM et al., Int Wound J 2011; 8:187-195

"the use of highly concentrated platelet preparations appeared to have an inhibitory influence...reasons could be unwanted inhibitory and cytotoxic effects of growth factors at such high concentrations."

Weibrich G et al., Bone 2004; 34:665-671

"PRP might exert positive effects...in a dose-dependent manner up to a certain level, but adverse effects occur when it is highly concentrated."

Yamaguchi R et al., J Surg Res 2012; 173(2): 258-266

"Optimal results were observed at a platelet concentration of 2.5 X... increased concentrations resulted in a reduction in proliferation and a suboptimal effect on osteoblast function."

Graziani F et al., Clin Oral Impl Res 2006; 17: 212-219

The CAREstream Kit







