PRP Ultra

Next Generation Refrigerated Centrifuge

EU Designed

PRP Ultra

- Sterile Autologous Platelet Concentrate
- Maintains 22°C as per Platelet Separation SOP
- Pre-Validated Set Programs for Standardization
- Platelet Concentration up to 4-5 Times

REMI Healthcare

Specifications subject to change without notice

REMI Healthcare

PRP Ultra

REMI is a leading name in India for Blood Bank & Laboratory equipments. REMI is synonymous for centrifuge performance, since year 1960. Our expertise in blood component separation brings the best solution - PRP Ultra centrifuge for easy extraction of low volume autologous PRP.

PRP Ultra ensures platelet concentration up to 4-5 folds every time. Pre-validated dual spin programs in PRP ultra helps in maintaining standard platelet properties & yield. Microprocessor controls all 5 critical centrifuge parameters (*RPM/RCF, Acceleration, Deceleration, Time & Temperature*), for consistent results.

PRP Ultra
Automation with Ease of Operation

- **Consistent Performance:** Brush-less induction drive motor (practically maintenance free), prevents speed variations, Sophisticated anti vibration system for jerk free operations,
- **Safety Features:** Door interlock prevents accidental lid opening, Overload protection & Imbalance cut off for safety of operator & system.
- **Ease of Operation :** Interactive multicolor backlit LCD display, Feather touch Keypads, Emergency lid opening in case of power failure, LED window to see status of centrifugation from a distance, Comfortable height for an easy access
- **Supports Hygiene:** Easy to clean ABS rounded corner body & Stainless steel inner chamber

Autologous Platelets: Refrigerated centrifugation is the Key

- Vibration free centrifugation with right speed, time & temperature is important for intact biological properties
- Platelet's Processing & storing temperature at 22*C is important

**AABB Technical Manual 18th Edition*

- Cooling centrifuge saves platelets from the effect of heat generated during centrifugation

***Blood Vol 32,No.2 (August), 1998*

Keep blood at room temperature (20 to 24 C) before separating platelet-rich plasma from the red cells. This separation must take place within 8 hours of phlebotomy.

**** Method 6.13. Preparation of Platelets from Whole Blood**; AABB Technical Manual 18th Edition*

Heat induced loss of functional capacity is due to irreversible structural changes in platelets develop after warming PRP above 40^0C. Heat produced a distinct morphological transformation characterized by loss of discoid shape, irregular swelling, and movement of hyaloplasmic organelles.

***** Effect of heat on platelet structure and function**; Dr James G. White; Blood, Vol.32, No. 2 (August), 1998*

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REMI Healthcare

PRP Ultra
Excels Tissue Growth Naturally

Dermatology & Plastic Surgery

- *Alopecia (Baldness)*
- *Hair Transplant*
- *Skin Rejuvenation*
- *Vampire Facelift*
- *Wrinkle Improvement:*
- *Skin Graft Fixation*
- *Skin Pores & Elasticity*
- *Autologous Fat Transfer*
- *Fixation of Cartilage Bone*
- *Skin Pigmentation disorder*

- *Striae Distensae (Streatch Marks)*
- *Accoustic Neuroma*
- *Craniofacial Surgery*
- *Head & Neck Cancers*
- *Chapped skin*
- *Burn wound*
- *Tonsillectomy*
- *Parotidectomy*
- *Thyroidectomy*

- *Ocular Surface Disorders*
- *Ocular Epithelial Defects*
- *Symptomatic Dry Eye Disease*
- *Dormant Corneal Ulcers*
- *Refractory corneal ulcers*

Ocular Regeneration

- *PRP in Sexual Dysfunction*
- *Priapus Shot in Men*
- *O Shot in Women*
- *Non surgical Vaginal Cosmetic & Rejuvenation*
- *PRP in endometrium Health*
- *Stimulation of Ovary function*

Sexual Dysfunction & IVF

Specifications subject to change without notice

REMI Healthcare

Diabetic & Wound Management

- *Infected Wounds*
- *Wound Stitches Marks*
- *Venous Ulcer & Venostasis Ulcers*
- *Severe Burn & Cellulitis*
- *Non Healing Wound*
- *Diabetic Foot Ulcers & Diabetic Neuropathy*
- *Bed Sore Heels Pressure Ulcer*
- *Neuropathic Ulcer & Decubitus Ulcers*

Dental Procedures

PRP Ultra
Excels Tissue Growth Naturally

- *Tendon Ligament & Cartilage Injuries*
- *Plantar Fasciitis,*
- *Achilles Tendonitis*
- *Trigger Finger Tendon Injury*
- *Shoulder Adhesive Capsulitis (Frozen Sholder)*
- *Chronic Elbow Inflammation*
- *Damaged shoulder rotator cuff*
- *Chondromalacia patellae (Ligament injury of ankle)*
- *Cervical Laminectomy*
- *LeFort Fractures (Guerin's Fracture)*
- *Knee Degenerative Arthritis*
- *Elbow Bursitis (Chronic Elbow Inflamation)*
- *Chondromalacia (Inflamation of Patella & Softening of cartilage)*
- *Lumbar Fusion (Spinal fusion surgery)*
- *Axillary Dissection*
- *Wedge Tarsectomy*
- *Thumb Degenerative Arthritis*
- *Non-Union Bony Defects*

- *Supplementary to all GBR (Guided Bone Regeneration Technique)*
- *Bone grafting for dental implants.*
- *Ridge augmentation procedures,*
- *Closure of cleft, lip and palate defects*
- *Repair of Dental Bone Defects*
- *Improvement in stability of Dentition*
- *Repair of Fistulas between sinus cavity and mouth*

Orthopedic & Sport Injuries

Specifications subject to change without notice

REMI Healthcare

Advantages of PRP Therapy

PRP - Platelet Rich Plasma

The PRP therapy is gaining in popularity as single supportive treatment option for many indications. Autologous PRP contains different growth factors and other cytokines which may elicit gathering of stem cells around the damaged region stimulating cellular proliferation and tissue regeneration.

PRP contains growth factors that stimulate cellular growth and division.

- TGF-B (Transforming Growth Factor-beta)
- bGFG (Basic Fibroblast Growth Factor)
- PDGFa-b (Platelet Derived Growth Factor)
- EGF (Epidermal Growth Factor)
- VEGF (Vascular Endothelial Growth Factor)
- CTGF (Connective Tissue Growth Factor)

PRP Advantage

Safe	Convenient	Natural	Effective
Autologous blood means there is no risk of infection, allergic reaction, or any other side effect.	The treatment is quick and absolutely non-Invasive.	Patient feel no sense of violation by foreign bodies and the treatment effects are completely natural.	Treatment uses natural growth factors, its effects are proven & well documented

Autologous Platelet Rich Plasma (aPRP) is given as **Proliferation therapy** or **Regenerative injection therapy.**

Activated Platelets releases growth factors, proteins & cytokines that initiate and regulate natural wound healing. Fibrin, fibronectin, and vitronectin present in Plasma also contribute to repair matrix.

Optimum Platelet Concentration Level for PRP: -

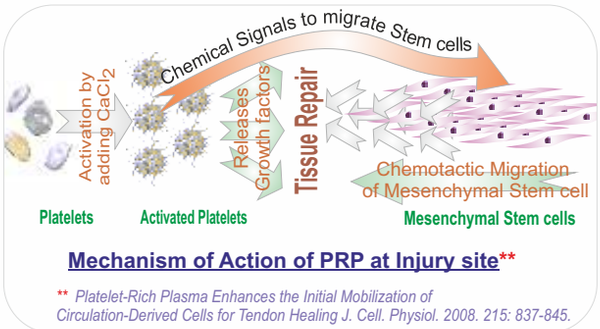
1m platelets/µL appears to be the "magic number" Or levels are in the 4-5x range, the influx of adult stem cells has been noted to increase by over 200%.

Activation of PRP: -

Growth Factors from PRP are released within 10 minutes of activation. PRP can also be artificially activated by mixing with 10% calcium chloride (W/V) and/or thrombin to make a gel-like graft. The activation is either done just prior to injection or through injecting the activator simultaneously via another syringe at the desired healing site.

PRP Mechanism of Action: -

PRP stimulates the chemotactic migration of human mesenchymal stem cells to the injury site in a dose-dependent manner - i.e., the more concentrated the platelets, the more stimulation.



Mechanism of Action of PRP at Injury site**

** *Platelet-Rich Plasma Enhances the Initial Mobilization of Circulation-Derived Cells for Tendon Healing J. Cell. Physiol. 2008. 215: 837-845.*

No PRP Added **PRP Added**

Illustration of the split-thickness skin graft donor site at 45 days.*

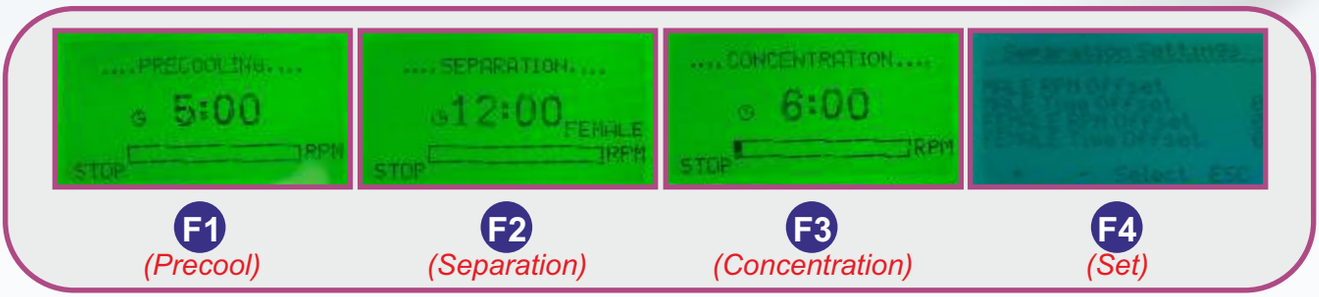
* *Dental and craniofascial applications of platelet-rich plasma. Quintessence Publishing Co. Inc. 2005*

REMI Healthcare

PRP Ultra

Next Generation Refrigerated Centrifuge

Multicolor Display with Pre-validated Set Programs



PRP Ultra Display

Dedicated Preset Function Keys:

- **F1** Pre-cool run before procedure
- **F2** 1st spin for platelet separation
- **F3** 2nd spin for platelet concentrate
- **F4** Speed & time adjustment for quality validation

(Programmed for pre-cooled / run at 22°C temp)

Technical Data	
	PRP Ultra
Dimensions WxDxH (mm)	440 x 560 x 335
Voltage Stabilizers	VS - 02
Supply: 220-240 Volts 50 Hz single Phase	

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