



**PRP (Platelet-Rich-Plasma) by Zartaux**

**The Innovation of Tissue Regeneration**

ZARTAUX  
**dermaPRP** <sup>+</sup>

Made in Switzerland

## ZARTAUX dermaPRP<sup>+</sup>

**PRP** (platelet-rich plasma) is blood plasma that has been enriched with platelets. **PRP** is a concentrated source of autologous platelets containing ample growth factors and other cytokines that stimulate healing of bone and soft tissue. PRP consists a concentrated fluid full of healthy growth factors. **Plasma** is composed of about 90% water, 9% organic matter, and 1% mineral. It makes up about 55% of total blood volume.

**Platelets** release a multitude of growth factors that play a significant role in the repair and regeneration of connective tissues. Normal Platelet counts in blood is average about 200,000/ $\mu$ l. The scientific proof of bone and soft tissue healing enhancement has been shown using PRP with 1,000,000/ $\mu$ l is the working definition of PRP today. Lesser concentrations cannot be relied upon to enhance wound healing

**Buffy Coat** contains platelets and most of the white blood cells, making up less than 1% of the total volume of the whole blood. Millions of growth factors in PRP activate the skin regeneration and help destroyed and aging cells restored or newly created, stimulating collagen and elastin under the skin. As a result, it will naturally rejuvenate the skin and subcutaneous tissue.



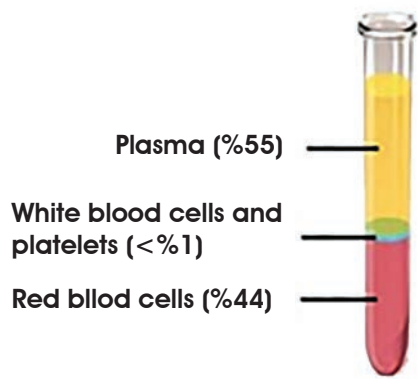
### <sup>+</sup> PRP advantages:

- No rejection, using autologous blood
- Quick and simple procedure
- No need to take an incision
- Strong and long elastic effects

**dermaPRP** is faster, safer and more simple than other Kits for separation of blood and high concentration of Buffy Coat and Plasma.

### <sup>+</sup> PRP advantages:

- Universal shape for all centrifuge models
- dermaPRP can extract MORE platelets with less blood
- It is easier to extract Buffy Coat than other kits
- No need of manual interventions from the user to isolate the Buffy Coat
- Physical principle: the light material floats and the heavier goes down
- Procedure time is minimized as it shortens the time which is needed for concentration of blood
- Chemical additives Free
- 100% aseptic circuit. No external contaminations.
- No side effects.



## + Indications:

- Dermatology
- Plastic and Reconstructive Surgery
- Hair Treatment
- Orthopedy and Sport Surgery
- Physiotherapy Rehabilitation
- Aesthetic medicine
- Orthopedics
- Cardiology
- Trichology
- Ophtamology



## Procedure

In order to treat injured tissues and to make them be their natural state, human body sends platelets which includes growing factors to the injured area.

In case of an injure of a tissue, blood collects platelets on the related area and starts the treatment. The purpose of PRP treatment is to collect much more platelet on the injured tissue. Therefore, the treatment will be much faster and much stronger.



**1st STEP**  
Take 8.5 cc blood from patient by butterfly vacutainer



**2st STEP**  
Shake the tubes slowly to mix blood and sodium citrate. Put the tubes inside the centrifuge device Centrifuge the tubes at 3200 rpm for 8 minutes.



**3st STEP**  
Take the PRP with sinal needle PRP plasma is 1.5-2 ml.



**4st STEP**  
Inject the PRP to damaged areas.

## + dermaPRP TUBES:

- 2 caps closed sterile vacuum filling system
- Centrifuge the blood once to get enough platelet plasma
- Fast preparation (5 min)
- One kit for PRP preparation
- Two cap closed system does not let air contamination.
- Anti-coagulant with sodium citrate.
- 8 ml blood volume, 300 M platelet cells in 2 ml plasma



## Growing Factors of PRP

Since platelets lose their connection with endotel tissue of vessels, they can easily injected their growing factors into the target tissue.

PRP injection to soft tissues makes the cells produce beneficial proteins. In this process, some root cells and their growing factors are completely activated. In order to make these root cells activate properly, PRP acts as inhibitor.

GROWING FACTOR	PURPOSE AND FUNCTION
PLATELET	Acting on formation and growinh of blood vessels.
TRANSFORMING FACTOR	A protein which controls the cell growing and cell transformation. It acts in treatment of Cancer, heart deseases, diabet and immunity system.
FIBROBLAST	Acting on aniogenes, injury treatment and embrionic growth.
VASCULAR ENDOTELIAL	Gives signal for angiogenes. In case of blood circulation problems, it acts as part of oxygen carrier to issues.
EPIDERMAL FACTOR	Responsible for cell propogation, differentiation and surviving of the cells.
INTELEUKIN 8	This citokin which was secretated by most of cells is the major mediator of inflammation response. It acts as Cemotractan and strong angilogenic factor.



(The source: Platelet-Rich Plasma (PRP): What is PRP and What Is Not PRP? – Robert E. Marx, DDS;2001).



Manufactured in Switzerland

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