



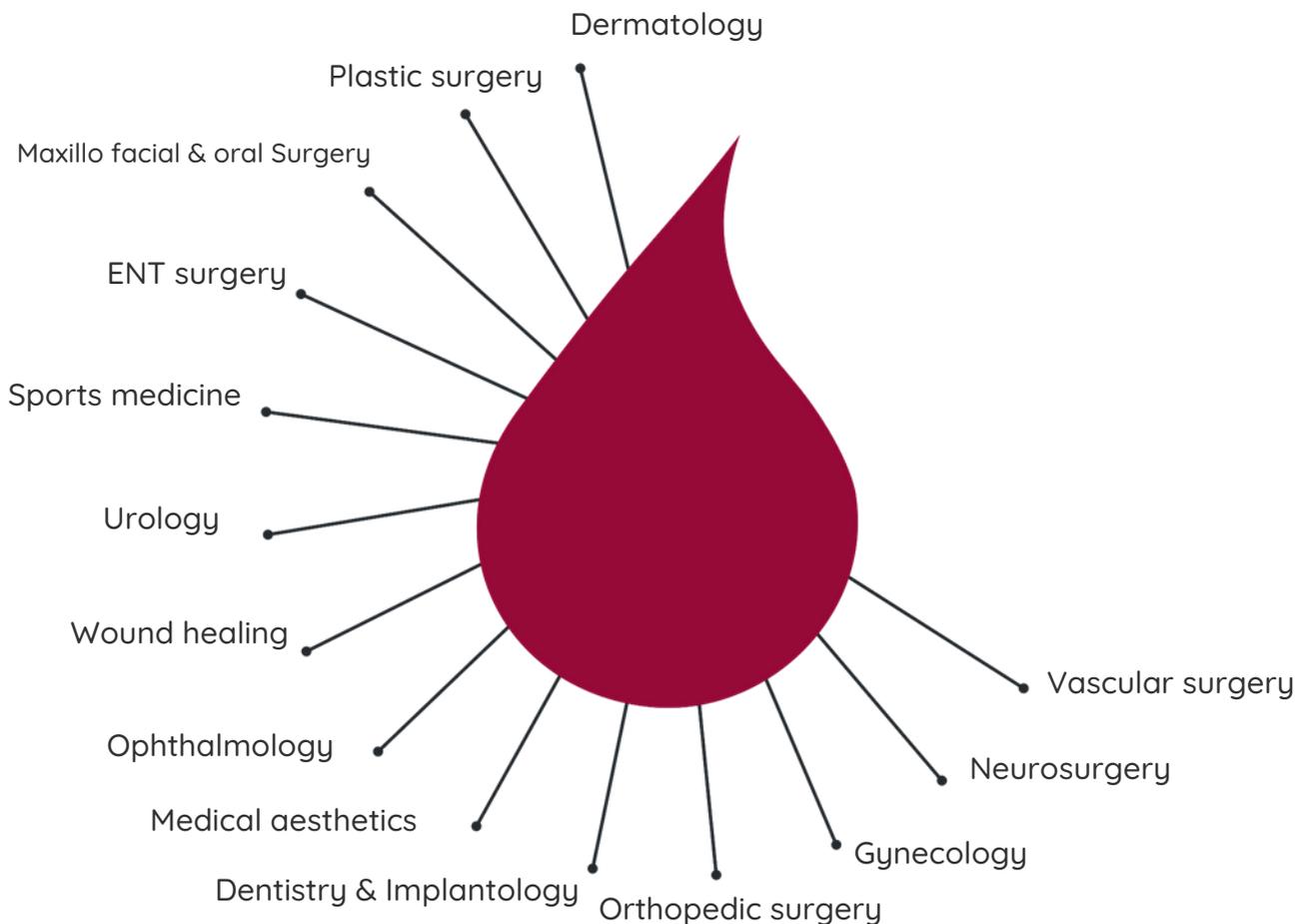
# CONCENTRATED GROWTH FACTORS



# CGF - CONCENTRATED GROWTH FACTORS



Concentrated Growth Factors (CGF) represent an advanced medical technique for extracting and utilizing growth factors from blood samples. This innovative technology allows for the extraction of CGF, which is rich in autologous platelet osteoinductive growth factors and an osteoconductive fibrin matrix. Key components present in CGF include transforming growth factor beta 1 (TGF- $\beta$ 1), vascular endothelial growth factor (VEGF), and CD34+ cells. These elements contribute to the high concentration of autologous platelets, growth factors, and stem cells in CGF, making it a superior option in regenerative medicine. The process of isolating CGF involves collecting blood samples in Silfradent blood tubes and using a specialized separation protocol executed by the Silfradent Medifuge centrifuge. This method does not require the addition of exogenous substances, ensuring that the growth factors and cells remain entirely autologous. CGF and its liquid phase variant can be considered an upgraded version of traditional platelet-rich fibrin (L-PRF) and platelet-rich plasma (PRP) techniques, offering enhanced benefits for medical and dental applications due to the higher concentration and efficacy of the growth factors and cells involved.



Applications of CGF/LPCGF/PRP are very broad and constantly expanding..

For more detailed information please send a request to [order@allmedics.eu](mailto:order@allmedics.eu).

\* Leukocyte Platelet Rich Fibrin

\*\* Platelet Rich Plasma



# MEDIFUGE MEDICAL BLOOD PLASMA SEPARATOR CENTRIFUGE

## For the preparation of CGF - PRP - LPCGF - L-PRF

The Silfradent Medifuge MF200 is a medical centrifuge for blood plasma. By using specific dedicated blood tubes, the MF200 program obtains a separation in the blood: **Serum, PPP, Concentrated Growth Factors, red blood cells and fragments.**



It is designed to prepare autologous highly concentrated growth factors (CGF) and CD 34+ cells from the patient's own blood, which is the ideal autologous source.

It allows in one cycle the use of up to 8 test tubes to produce CGF - LPCGF - PRP - L-PRF.

The Medifuge centrifuge has a unique automatically differentiated acceleration program cycle. This prevents the blood from degranulation of platelets and achieves optimal separation of the blood components to obtain cell lysis, aggregation and homogenization of the blood.

The exceptional rotor system with self-ventilation protects the blood sample from exposure to heat.

The centrifuge is also equipped with a decontamination cycle with UVC reflected light, which can be initiated before or after the centrifugation cycle.

The test tube holders and rotor are made of thermal, antistatic material, easy to clean, extract and sterilise in an autoclave at 135°.

- Class IIa medical device.
- Differentiated a cceleration preventing degranulation of the platelets.
- Optimal separation of the different blood/plasma components.
- Equipped with a decontamination cycle with UVC light.
- For the preparation of various blood derivates CGF - PurePRF - LP CGF - L-PRF - PRP, ...



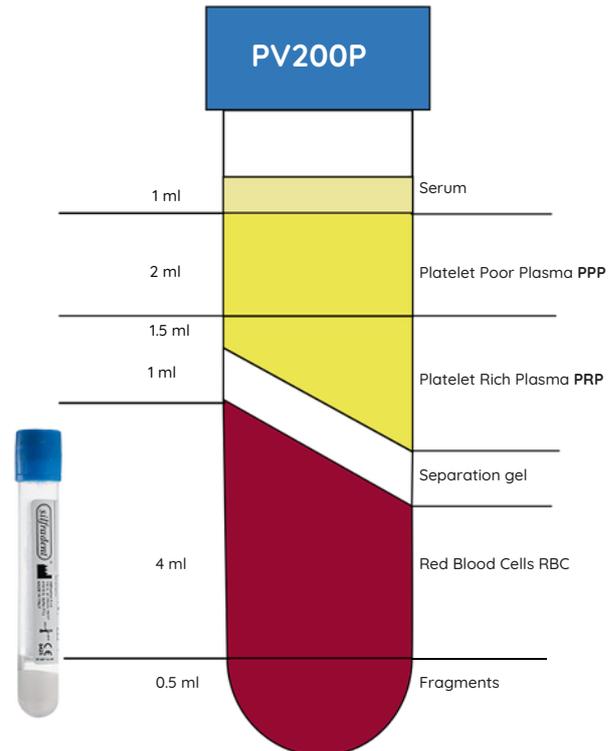
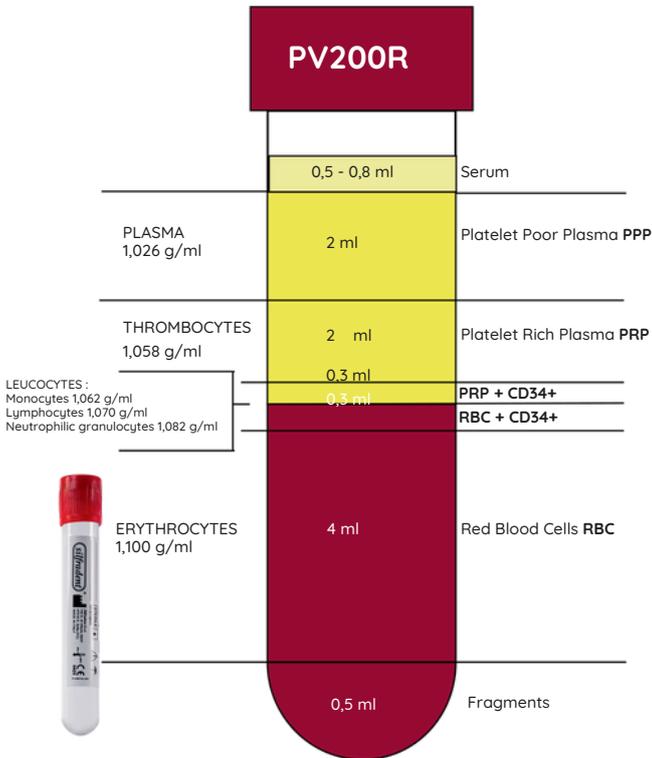
# CGF - CONCENTRATED GROWTH FACTORS

Centrifugation blood will separate it in its different components. In which layer the cells sediment depends on their individual density. Cells with the highest density are erythrocytes. They are located in the lowest part of the tube. On top of the erythrocytes there is a thin layer of leucocytes - to be seen as a white layer.

This very thin layer of white blood cells can be classified into neutrophil granulocytes, lymphocytes, and monocytes. The following layer is the plasma, which can - depending on the cell density - either be PRP (platelet rich plasma) or PPP (platelet poor plasma).

They are optically hardly distinguishable from each other. The thrombocyte is the smallest blood cell and is barely recognizable as a light shadow in the plasma.

The cell-richest fraction floats in the bottom part of the plasma. Among others, hematopoietic stem cells (CD34+ cells) can be found here. The following is cell-poor plasma, which is therapeutically still useful. The supernatant (serum) barely contains any cells and micro-nutrients. The combination of leucocytes and thrombocytes are, in the PRP therapy, often called buffy coat.



Arrangement of the blood components according to their density (g/ml)

## SILFRADENT PV200R - CGF BLOOD TUBE



Blood tube for the preparation of CGF fibrine clot & LP CGF (Liquid Phase Concentrated Growth Factors)

Code: **PV200R**

- Plain Vacuum Tube R (red cap)
- Disposable - 10 ml Medical glass tube, vacuum-sealed
- Individually double sterile wrapped
- CE Medical Device Class IIa - CE0425
- Field of use: dentistry, cosmetic and general surgery



CGF/L-PRF PFibrine Clot



CGF/L-PRF Fibrine Membrane after compression



LP CGF Liquid Phase Concentrated Growth Factors  
Protocol available on demand

## SILFRADENT PV200P - PRP BLOOD TUBE



Blood tube for the preparation of Platelet Rich Plasma (liquid plasma)

Code: **PV200P**

- Plain Vacuum Tube P (blue cap)
- Disposable - 10 ml Medical glass tube, vacuum-sealed
- Contains an inert polymer secretion gel and an ACD-A based anticoagulant
- Individually double sterile wrapped
- CE Medical Device Class IIa - CE0425
- Field of use: dentistry, cosmetic and general surgery



PRP Platelet Rich Plasma



ALLMEDICS - REGENERATIVE MEDICINE

# PURE PRF

**100% AUTOLOGOUS**

Second generation PRP



GPX1010M XENODERM

For the production of 100% autologous platelet rich plasma PURE PRF without additives.

MOQ 5 boxes of 10 pcs  
Individually double sterile packed MED.IIA - CE0425



## PRODUCT FEATURES



**No additive  
100%  
autologous**



**Higher % CGF -  
slower release  
CGF**



**Leucocytes  
&  
Fibrine**



**Enhanced  
wound healing  
and tissue  
regeneration**

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# WHY CONCENTRATED GROWTH FACTORS WORK



## **PDGF - Platelet-derived growth factor**

- Major mitogen for connective tissue cells and certain other cell types.
- Promotes the synthesis of collagen and structural proteins.
- Cell proliferation, migration, angiogenesis, collagen production.
- Promotes division and chemotaxis of fibroblasts.
- Stimulates cell division of mesenchymal stem cells and endothelial cells.

## **PDAF - Platelet-derived angiogenesis factor**

- Stimulates vascular endothelial cell proliferation and angiogenesis.

## **PD-ECGF - Platelet-derived endothelial cell growth factor**

- Stimulates wound healing through the proliferation of fibroblasts and keratinocytes.

## **PF-4 - Platelet factor 4**

- Stimulates vascular endothelial cell proliferation and angiogenesis.

## **PDEGF - Platelet-derived endothelial growth factor**

- Stimulates wound healing via fibroblasts.

## **VEGF - Vascular endothelial growth factor**

- Regulation of angiogenesis.
- Stimulation of blood vessel formation and endothelial cell division.

## **TGF- $\beta$ 1/ $\beta$ 2 - Transforming growth factor $\beta$ 1/ $\beta$ 2**

- Cell proliferation, differentiation, collagen production, fibronectin production.
- Promotes cell division of fibroblasts.
- Increases collagen production.
- Formation of antibacterial peptides.

## **IGF - Insulin-like growth factor-1**

- Key regulator of cell metabolism and growth.
- Stimulates proliferation and differentiation function in osteoblasts.
- Stimulation of fibroblasts and myoblasts, muscle growth and regeneration.

## **FGF - Fibroblast growth factor**

- Mediates tissue organisation and regeneration.
- Fibroblast and myoblast stimulation, angiogenesis.
- Stimulates chemotaxis of fibroblasts and deposition of collagen fibres.

## **HGF - Hepatocyte growth factor**

- Mediates regeneration - angiogenesis, cell migration, antifibrotic effects

## **EGF - Epidermal growth factor**

- Regulation of cell proliferation, differentiation and survival.
- Cell proliferation (mesenchymal and epithelial cells).
- Formation of granulation tissue and blood vessels.
- Complex interaction with other growth factors.



# CRYSTAL MULTI INJECTOR MESOGUN

## MESOTHERAPY GUN

The CrystalMESO Injector is a handy, high-quality mesogun - or mesotherapy device - with a class 2b medical classification, with which active ingredients are injected fully automatically and directly into the skin using sterile needles. The device is characterised not only by its relatively low purchase price, but primarily by its perfect handling and maximum flexibility.

- Perfect handling: Cordless, clear and light
- Flexible: All syringe sizes, all body areas
- Precise: Needle lengths from 0 to 3 mm
- Low pain: Suction function reduces the sensation of pain
- Economical: Effective, low acquisition costs, low follow-up costs
- Safe: Anti-backflow system, sterile multi-needles
- Legally compliant: Medical classification



CrystalMESO Injector Multi Needle Attachment 9 Pin - 2 types available

- Adjustable needle length from 0 to 3 mm - 32G (20 pieces)
- Non Adjustable needle length 1,2mm - 32G (20 pieces)



# PERSONALISED PRP REGENERATIVE CREAM



This cream has been designed to reinforce and prolong the effects of the PRP (Platelet Rich Plasma) injection treatment.



**Transform your patients' skin with this exclusive serum that combines the cream's powerful beauty ingredients with your platelet-rich plasma for visibly younger, radiant results.**

Digluconate is used to release calcium ions and enhance the lifting effect, while peptides and nano-peptides address wrinkles and irregularities for smoother, radiant skin.

The cream is also indicated for skin repair after aggressive cosmetic treatments.

Its use accelerates the healing process, promotes microcirculation and skin respiration.

## The benefits of the cream

**The cream promotes the release of growth factors in the deep dermis, forms a protective barrier and accelerates healing after PRP treatment, improves epidermal hydration and helps maintain treatment results.**

It provides a healthier complexion, deep skin hydration and increased elasticity.

It can be used in combination with our soothing cream or alone.

We strongly recommend using the restorative cream to maximise PRP treatment results. your skin with our exclusive serum that combines the cream's powerful beauty ingredients with your platelet-rich plasma for visibly younger, radiant results.

## How to prepare:

Mix the cream before use with 1-2 ml of already prepared PRP.

Shake the mixture before use. It is ready to use

## How to use:

Apply twice a day for one week.

It is important to keep the cream refrigerated and use it immediately after

mixing.

Be sure to discard the cream no later than 7-8 days after use.



## Composition

Water, Caprylic/Capric Triglyceride, Glycerin, Liquid Paraffin, Cetearyl Alcohol, Ceteareth-6, Dimehticon, Bisabolol, Arnica Extract, Jojoba Oil, Sodium Hyaluronate, Acetyl Hexapeptide-8, C10-30 Alkyl Acrylate Crossroads, Calcium Gloconate, Phenoxxyethanol



# BIOFILLER - 100% NATURAL

## APAG PRP THERMOSTAT - PLASMA GEL DEVICE

### ACTIVATED PLASMA ALBUMIN GEL

APAG is an innovative tool for the preparation of a therapeutic and aesthetic filling material.



High-quality plasma gel device / PRP thermostat with preset programmes.

The only filler that is 100% autologous and therefore well tolerated by the body.

### Natural skin augmentation

It uses the patient's own blood to produce a 100% autologous and well-tolerated gel.



Plasma Gel Unit is the latest filler for natural skin augmentation

The viscosity of APAG can be adjusted to enable more precise treatment.

Thanks to the integrated thermostat system, the blood is carefully controlled during treatment for safe application.

The APAG device allows you to prepare latest dermal filler, ideal for real natural augmentations and meets all the requirements of modern injections.

