CORTEXIL PRP
cell regeneration technology

INNOVATIVE MEDICAL TECHNOLOGY



CORTEXIL PRP

is a unique cell regeneration technology, the main active component of which is the platelet-derived growth factor, which boosts regeneration of all tissue structures and optimizes skin cells functions.

Cortexil PRP generates plasma with a vital platelet concentration of 1,000,000 in 1 µL. The concentration of 1,000,000 in 1 µL generates the maximum possible regenerative effect.

Unlike most PRP manufacturers, we care not only about the concentration but also about preserving platelet viability before entering the tissues, which is a critical factor in obtaining therapeutic effect of PRP.

Cortexil PRP – is an innovative technology designed to create top-quality PRP.

WHAT IS THE DIFFERENCE BETWEEN CORTEXIL PRP AND CONVENTIONAL PLASMA THERAPY?

Cortexil PRP is the latest development that starts regeneration processes using your body's own resources. Conventional plasma therapy is designed to improve the vital activity of tissues, but bears no relation to regeneration.

CORTEXIL MAKES INNOVATION ACCESSIBLE!

WHAT DETERMINES THE EFFECTIVENESS OF PRP?

It is determined by three conditions:

1. **the optimal concentration of platelets,** which is 1,000,000 in 1 µL
2. **optimal platelet activation –** platelets should only be activated after entering tissues.
3. **optimal centrifugtion**



YURY BASHKATOV

The Author of the Cortexil PRP Technology

Abdominal, Emergency, and Hepatic Surgery Expert. For the past 15 years, he has been engaged in trichology and cosmetology. He is the founder and CEO of Bionet Plus medical centers and the hair transplant clinic of the same name. Since 2012, he has been actively involved in the research and development of regeneration technologies.



When creating the Cortexil PRP technology, we considered all the most stringent criteria and requirements for obtaining a therapeutically effective form of PRP, which allows the realization of the most powerful regenerative potential using the human body's own resources. Conventional plasma therapy is becoming history now.

Today, we can offer our patients the most effective tool at a reasonable cost.

From our Dubai office, we supply clinics in the UAE, Saudi Arabia, Bahrain, and Qatar.



ROBERT MARX

Director, Department of Medicine, the University of Miami, USA

Growth factors in general and PRP in particular are part of the new biotechnology, the effectiveness of which has already been proven and its optimistic future is beyond all question. An exact understanding of this technology and its correct use (!) for the benefit of patients is the task of the practicing physician.



The Cortexil PRP key technology is

THE TUBE-SYRINGE

The design of the tube-syringe allows to fill it with blood without using needles and adapters, perform PPP layer sampling in a straightforward manner and perform sampling of the Buffy Coat layer precisely and as fast as possible, and to obtain PRP with a desirable concentration.

Sodium citrate with glucose is used as an anticoagulant which helps to prevent premature platelet activation.

A soft controlled blood sampling mechanism is used, which is one of the most important conditions to maintain platelet vitality.

Cortexil PRP tube-syringe tube is protected by several patents and is registered for in vivo application.

Tube-syringe is available in two versions: 10 ml (which allows to obtain 2 ml PRP and 3 ml PPP) and 20 ml (which allows to obtain 4 ml PRP and 6 ml PPP).

The second key element is

THE CENTRIFUGE

- The centrifuge has a well-balanced floating rotor
- The centrifuge has gentle acceleration and deceleration. The spin speed/time ratio is carefully calibrated, which is highly important in PRP production
- There is a separate “Cortexil” button on the front panel of the centrifuge which automatically brings the centrifuge to the calibrated operating mode
- This centrifuge is specially designed for Cortexil PRP, following all the requirements for producing a therapeutically effective PRP

The Cortexil centrifuge is more than just a bucket-rotor centrifuge. It is a centrifuge specially designed for production of top-quality PRP.





PLASMA THERAPY OR PRP?

WHAT'S THE DIFFERENCE?

Some still believe that plasma therapy = PRP, courtesy of certain scientists.

THAT'S NOT TRUE AT ALL!

PRP is not easy to get, and regular laboratory tubes are just not suitable!

Using laboratory vacuum tubes with a separating gel (widely used in plasma therapy), we can only obtain plasma free of blood corpuscles, including platelets. The separating gel is specifically designed for plasma purification.

And if heparin is used as an anticoagulant in vitro, then the residual platelets will be activated before entering the tissues, and in this case regeneration is out of the question!

PRP is plasma with a concentration of 1,000,000 VITAL platelets in 1 microliter.

HOW COME THE USUAL PLATELET-POOR PLASMA (PPP) GIVES A VISIBLE EFFECT?

Plasma itself is a good medium for tissues. It contains nutrients (particularly glucose and lipids), hormones, vitamins, enzymes, etc., which makes it a suitable tool for improving the vital activity of tissues. In other words, it is a kind of autologous meso-cocktail.

PRP-therapy uses regeneration technology by engaging human's own stem cells to the injection point.

Viable (not early activated) platelets at a concentration of 1,000,000 in 1 μL, getting into the tissues, are activated and release growth promoting factors from a-granules, thereby increasing the number of stem cells at the injection point by 2.5 times. They are responsible for regeneration.

Using a Cortexil syringe-tube, two fractions can be isolated – PRP (1,000,000 platelets in 1 μL) and PPP (200,000 platelets in 1 μL). Thus, the patient receives two procedures using one syringe-tube.

Is there any need to compromise?



PRP-TECHNOLOGY ON THE MARKET

Unfortunately, most modern PRP technologies fail to meet the criteria for obtaining therapeutically effective PRP. The concentrating ability stated by the authors in most of the applied technologies is significantly overestimated.

COMMON ERRORS

- ✖ **The use of laboratory centrifuges with fixed-angle rotor unsuitable for PRP production**
- ✖ **The use of platelet-destructive centrifugal mode, significantly exceeding the permissible maximum of 700g**
- ✖ **Some technologies use an anticoagulant, unable to block premature platelet activation.**
- ✖ **Most technologies use needles for plasma sampling, which prevents the PRP layer to be collected in full.**

All this leads to destruction, premature platelet activation, and death of growth promoting factors.

ADVANTAGES OF CORTEXIL PRP

- ✚ *High concentration effect.* Preservation of platelet viability before entering the tissues
- ✚ Convenient and effective *needle-free plasma collection* technology
- ✚ *Gentle centrifugal mode,* within 700g
- ✚ *Layer-by-layer plasma sampling* with a controlled level of platelet concentration
- ✚ *Calibrated swinging-bucket centrifuge* and gentle centrifugal mode
- ✚ Anticoagulant based on *sodium citrate with glucose*
- ✚ *Low cost*



There are several widely available PRP technologies with proven therapeutic efficacy, with confirmed vital platelet concentration of 1,000,000/μL. Their cost for doctors is at least $100.

The cost of **Cortexil PRP** technology is completely affordable. We have a unique opportunity to offer our patients a high-performance cell regeneration technology at an **absolutely affordable price.**

WHY CORTEXIL PRP IT'S NOT ONLY EFFECTIVE, BUT ALSO PROFITABLE?

- The first and most obvious point is **the affordable cost** of Cortexil tube-syringe.
- The effective dose of Cortexil PRP at the injection point is 1 μL, which corresponds to 1 mm^3. This means that **2 ml of PRP is sufficient to cover 2-3 areas** (e.g. face, neck, decollete). Thus, Cortexil PRP becomes even more profitable that other much less effective technologies for native plasma treatment that are not related to regeneration.
- In addition, **the micropapule injection technique minimizes hydrotrauma of tissues,** prevents ischemia and significantly shortens the rehabilitation period.
- Cortexil PRP technology comprises **two procedures in one tube-syringe.** After centrifugation of blood you get 2 ml of PRP and 3 ml of PPP.

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