



## CHOUKROUN PRF™ SYSTEM

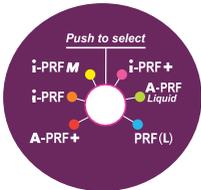


**PROCESS FOR PRF™**  
CHOUKROUN

# New DUO Centrifuge



*Customizable centrifuge !*



push button



color code

4 colors panels are included with your DUO



BOX



Bowl



Mini tray



Blood Collector



Scissors

# THE CONCEPT

The concept of **CHOUKROUN PRF™** (Platelet Rich Fibrin) is based on the centrifugation of whole blood without anticoagulants.



## NEW - 6 protocols



Advanced - PRF: Choukroun **A-PRF™** >> **FIBRIN CLOTS**  
After the spin, formation of fibrin clots. With the BoX, you can make fibrin membranes.



Injectable - PRF: Choukroun **i-PRF™** >> **INJECTABLE**  
Liquid containing the majority of the platelets, white cells & numerous stem cells.



Injectable - PRF M: Choukroun **i-PRF M™** >> **FOR MALE**  
Spin time is increased because Male have more RBC



Injectable - PRF+: Choukroun **i-PRF+™** >> **FOR AESTHETICS & ORTHOPEDICS**  
i-PRF+ protocol uses new tubes.



Advanced - PRF Liquid: Choukroun **A-PRF Liquid™** >> **LIQUID**  
Liquid used to make quickly and simply the sticky bone



L-PRF: Choukroun **L-PRF™**  
PRF (L) : is the old PRF protocol.



Giraffe



Forceps



Pad



Compactors



Double Spoon

# The LSCC: Low Speed Centrifugation Concept

*Reducing the RPM & time allows you to produce a better quality of fibrin clots.*

**Advanced-PRF™** : the potential of fibrin, platelets & white cells

## THE GOAL

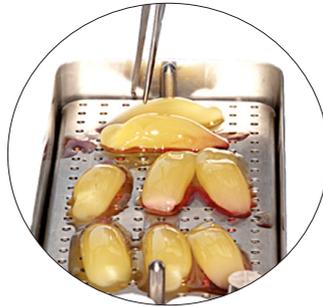
Accelerate the soft tissue and bone regeneration:

- by the action of fibrin as a provisional extra cellular matrix
- by the stimulation of growth factors released into the site  
(VEGF, PDGF, TGF, Beta, Thrombospondin)

**A-PRF+**



**BOX**



A-PRF™ clots in the BoX



Membrane

### Indications

- ▶ oral surgery
  - implantology
  - bone grafts
  - sinus lifts
  - soft tissue surgery
  - socket preservation
- ▶ orthopedics
- ▶ regenerative medicine
- ▶ dermatology
- ▶ aesthetics

## A-PRF™ TECHNIQUE





a “smart” blood concentrate

Many studies show the potential of white cells in the inflammatory cascade. It was therefore natural to try to capture the whole amount of white cells in the **PRF™** to make it more active in stimulating bone grafts and at the same time to turn to a more rapid transformation of monocytes into macrophages in order to increase bone stimulation. After intense scientific research, a specific tube was developed : **A-PRF™+**

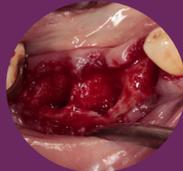
## THE OUTCOME

The in vivo tests of **A-PRF™** show a faster vascularization after 2 weeks than with classic **PRF™** (L-PRF) the clinical results show more efficiency in soft and hard tissue healing.

### CLINICAL CASES *(more pictures & videos on [www.a-prf.com](http://www.a-prf.com))*



A-PRF™ & Soft tissue



A-PRF™ & Extraction

# i-PRF™ : The Ultimate Result

of the LSCC : very low RPM & shorter time

**injectable-PRF:** the potential of fibrinogen, platelets, white cells & mesenchymal stem cells

## THE GOAL

Improvement of the blood concentrate for tissue engineering

- by the action of fibrinogen as a provisional extra cellular matrix
- by the stimulation of growth factors released into the site  
(VEGF, PDGF, TGF, Beta, Thrombospondin, BMP)
- by the presence of mesenchymal stem cells.

**i-PRF™**

### Indications

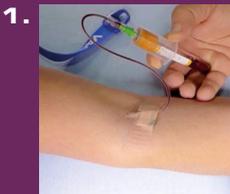
- ▶ oral surgery
  - implantology
  - bone grafts
  - sinus lifts
  - soft tissue surgery
  - socket preservation
- ▶ orthopedics
- ▶ regenerative medicine
- ▶ dermatology
- ▶ aesthetics



Suction with a needle

liquid

## i-PRF™ TECHNIQUE





a “smart” blood concentrate

The use of platelet concentrates in liquid remains an important indication in various applications. Therefore we focused our research to a blood concentrate enriched with white cells to increase the healing properties while retaining the principle of centrifugation without anticoagulants and additives.

## THE RESULT

The new protocol **i-PRF™**. This “**SUPER PRP™**” can be applied in two ways:

- injected into the tissue, it increases vascularity and participates to formation of new collagen.
- injected into the particles (biomaterials): the bone graft becomes solid in 1 minute.

### CLINICAL CASES *(more pictures & videos on [www.a-prf.com](http://www.a-prf.com))*



injection of the i-PRF™



Clotting of the steak



maxilla and mandible after 1 week

# i-PRF™

## ORTHOPEDICS, REGENERATIVE MEDICINE & AESTHETICS

Injections of growth factors in the joints, tendons and skin are used to treat successfully acute and chronic injuries and rejuvenation.

### SPECIFICITIES OF THE I-PRF

- No additive, no anticoagulant, no gel.
- High concentration of white cells than PRP (around 20x)
- High concentration of plasma protein and fibrinogen
- The low speed spin save numerous mesenchymal stem cells
- Clots spontaneously after injection. (no need adjunction of calcium chloride or thrombin)

### THE RESULT

It accelerates the natural healing response of the organism. Also, it regulates the proliferation and cell differentiation while stimulating the formation of new cells: skin, tendon, muscle, vascular or synovial. The combination of high concentration of white cells and stem cells is the best way to achieve the faster tissue regeneration.

### INDICATIONS

- Tendonitis, osteoarthritis, tears and sprains of ligaments, bone grafts, tissue and bone regeneration
- Regenerative medicine, reconstructive and aesthetic surgery, hair loss and alopecia, fat grafts, scars (in combination with A-PRF)



ALOPECIA



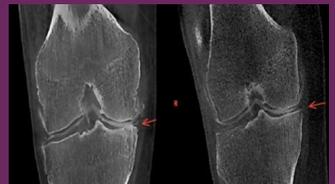
KNEES



REJUVENATION



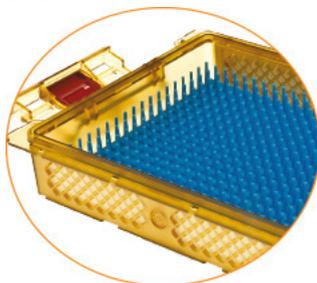
ACNE



OSTEOARTHRITIS

# POLYSTERIBOX®

The Polyesteribox® makes easier the sterilization of your PRF Tool kit



Silicone positioning mat



- ✓ Sterilization
- ✓ Transport
- ✓ Storage



Safety seals



Strainer (optional)



Sterilization seals



The polyesteribox® is a sterilization reusable container, transport and storage of your instruments. This box is made of «DURADEX» (PPSU), This material allows higher stability, durability and resistance. (up to 150°C).

**The polyesteribox L can contain the entire PRF tool kit.**