



Better diagnostic, better treatment

Osteokine

SAFE AND EASY - PLATELET RICH PLASMA (PRP)

OSTEOKINE® IS A MEDICAL DEVICE THAT THE VETERINARIAN USES TO PRODUCE A BODIES OWN PLATELET CONCENTRATE (PRP) FROM HIS PATIENTS BLOOD.

IMPROVED AND ACCELERATED
TISSUE REGENERATION FOR
TENDONS AND MUSCLES



The osteokin system

Safe preparation

Closed blood-bag system

Initial blood volume: 50 mL

High absolute platelet numbers

High platelet concentration

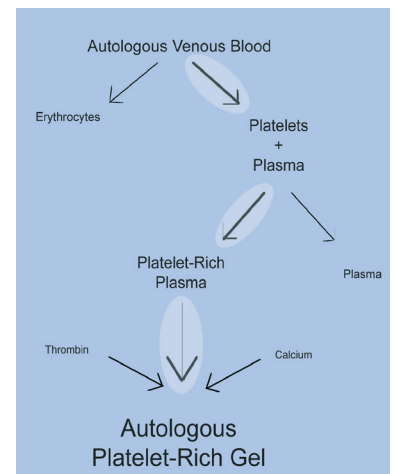
Average: 5.2 times baseline values

Manually adjustable PRP volume

Lower volume = higher concentration*

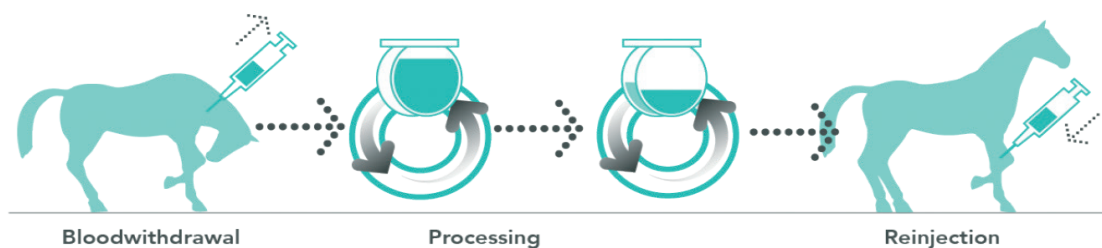
Highly selective platelet enrichment

Average: 0.3 WBC / platelet ratio



PRP PROCESSING

A blood sample is taken from the patient. During a special preparation method blood platelets (thrombocytes) are selected and highly concentrated. These thrombocytes contain growth proteins. Injecting the cells into an affected site the proteins can display their full potential.



AUTOLOGOUS THERAPY



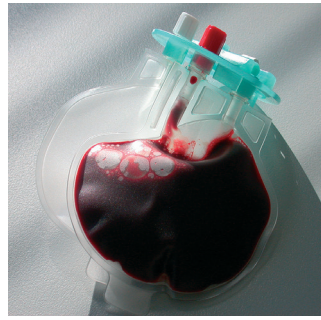
The Osteokine® is produced according to the laws for human medical devices. The blood of one patient stays protected from contamination at all times and thus enables a safe and prompt use of PRP as therapeutic agent.



The empty Osteokine Bag



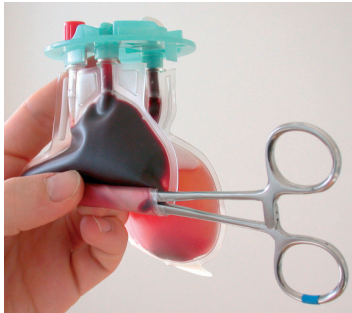
Whole blood is injected into the first compartment



The first compartment is full and must now be centrifuged.



After the first spin



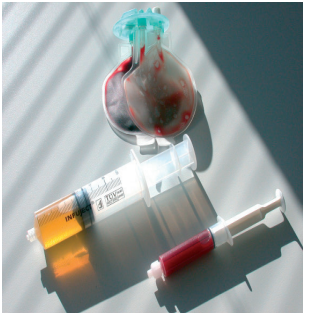
The supernatant is now transferred into the second compartment via the sterile lock and the bag is spun again.



After the second centrifugation the bag now contains platelet poor plasma as supernatant and a pellet of platelet rich plasma.



The platelet poor plasma is decanted off leaving the PRP plug which can now be re-suspended and extracted for use.



Syringes containing PPP and PRP.

Why Osteokine ?

- Platelets are a rich source of useful growth factors
- Osteokine is for autologous use, eliminating the risk of disease transmission
- Platelets are fresh and still functional, resulting in an optimum growth factor output
- Total operating time to get PRP is about 30 -50 min.
- The Osteokine-System is easy to operate.

Benefits of Osteokine

- Accelerated healing in tissues including skin, bone, tendon, ligament
- Produces growth factors (biological signalling agents)
- Accelerated vascularization
- Reduced time of new tissue maturation
- Improved bone density
- Reduced perioperative traumatic pain

Growth factors liberated by

PDGF (Platelet derived growth factor)

FGF (Fibroblast growth factor)

TGF- β (Transforming growth factor- β)

TGF- α (Transforming growth factor - α)

EGF - (Epithelial Growth Factor)