

What is Platelet Rich Plasma?

Platelet Rich Plasma (PRP) is the only available natural material drawn from the subject animal's own body, that contains elevated levels of the animal's naturally occurring growth factors. These factors are maintained in precisely the same ratios found circulating in your body. Although synthetic products are available, these products are usually derivatives of a single growth factor or do not contain any growth factors at all. Many are virally inactivated derivatives of blood components drawn from other donors.

PRP is derived from the blood drawn from the patient animal's own body and processed within a few minutes to produce a platelet rich plasma that contains extremely high levels of the animals own naturally occurring growth factors.



How is PRP Produced?

Historically, the production of PRP at the time of surgery was complex, time consuming, expensive, and required large blood volumes. The process often involved outside personnel and a transfusion of blood products. The recent introduction of small automated, office based PRP systems makes the benefits of PRP practical in the office and outpatient setting. Now, a veterinary surgeon or nurse can prepare PRP in parallel with the surgical procedure.

The surgeon draws 50 to 100 cc of the animal's blood at the time of surgery. The blood is placed in a centrifuge that spins and automatically separates the red blood cells from the plasma. The plasma is then further centrifuged to concentrate the autologous platelets and hence the animal's own natural growth factors. The PRP is then available for the surgeon to use as needed. The entire process takes less than 15 minutes and adds no extra time to the surgical procedure.

What is the PRP kit?

Medivet is the exclusive global distributor of the Medivet Platelet Rich Plasma Veterinary Surgical Kit designed as a highly practical and cost effective procedure that can be performed in under an hour to enable veterinarians to produce in house, a Platelet Rich Plasma solution from blood extracted from an animal to be available to be applied topically to a wound site on that animal to control bleeding, seal wounds and accelerate soft tissue healing.

The kit contains all the necessary disposable materials and implements needed to extract the raw blood, to process it, contain and apply the PRP during the procedure.

Is PRP Safe?

Because PRP is derived from a small quantity of the animal's own blood, drawn at the time of surgery, there is absolutely no risk. The PRP is made point-of-care at the time of surgery and under surgeon's control. Also, since the PRP is made from the animal's own blood, it is insulated against the risk of disease transmission.

Why Use a PRP Kit??

The Medivet Platelet Rich Plasma Kit eliminates time consuming visits to the blood bank for pre donations. The remarkable benefits of enhanced and superior wound healing simply achieve a markedly improved surgical outcome.

The technology of centrifugal separation, available in most veterinary surgeries, makes this incredible service possible.

Who can use a PRP Kit?

The PRP kit can be used by any suitably qualified veterinary surgeon or a qualified veterinary nurse under supervision.

Benefits of using the PRP Kit?

Platelets play an important role in wound healing. They provide initial hemostasis and release mediators to help modulate the inflammatory response and many of the cellular functions involved in wound healing. Contained in

the alpha granules of platelets are multiple growth factors, which include PDGF, TGF, PDAF, PDEGF, EGF, TNF, LDGF, FGF, CTGF along with many others.

Growth factors are proteins that impart specific biochemical messages to specific target cells through specific membrane receptors. Growth factors possess properties which are stimulatory for mitogenic activities, cellular differentiation, protein transcription, chemotaxis, angiogenesis, and collagenase activities.

Tissue repair begins with a clot formation and platelet degranulation which release the growth factors necessary for wound repair. Angiogenesis, fibroplasia, and collagen synthesis, caused by growth factors, lead to rapid re-epithelization* and increased wound tensile strength. PDGF may also act as a source of growth factors to help stimulate the anabolic activity of bone cells.

* Epithelium is a tissue composed of cells that line the cavities and surfaces of structures throughout the animal's body. It lies on top of connective tissue.

In simple terms this means that PRP assists in the rapid, natural, safest and most effective treatment for the healing of wounds caused accidentally or in surgery.

Side Effects?

PRP, being made from the animal's own blood, retained and administered in a sterile environment and being completely drug and chemical free, is unable to produce any harmful side effects.

Is It Legal for Performance Animals?

PRP is an all natural substance taken from the animal's own blood. It is completely drug and chemical free. It is used only in the healing of surgical or accidental wounds and administered under veterinary supervision. It contains no illegal substances and leaves no residues. It does not swab.

Sizes & Availability?

The PRP kit, used in-house by qualified veterinary surgeons, is available as single units or in multiple packs of 5 or 10 for busy practicing veterinary surgeons or veterinary pathological services.

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