

## BENEFITS OF PLATELET-RICH PLASMA

Platelet-Rich-Plasma (PRP) is used by drawing about an ounce of your blood and centrifuging it into a specialized machine that condenses and separates the blood into the rich platelet plasma where the T-cells and white blood cells are used at surgical sites to reduce inflammation, bruising and pain, and thereby enhancing healing capabilities.

**Faster hemostasis with less blood loss and need for transfusions following surgical procedures.**

**Reduction in the need for post-operative pain medication.**

Patients treated with platelet-rich plasma require fewer post-operative analgesics, which allows them to recover faster from their procedures.

**Faster healing of incision sites**

The growth factors in platelet-rich plasma accelerate the healing processes, have less pain and inflammation.. Because of this enhanced healing, wounds close more quickly, thereby reducing the risk of infections. In addition, patients treated with platelet-rich plasma are able to resume normal activities sooner.

**Reduced risk of infections**

In the process of concentrating the platelets to create platelet-rich plasma, leukocytes are also harvested in increased numbers. Therefore, when platelet-rich plasma is applied to the wound, a concentrated number of leukocytes are also deposited directly at the wound site, offering an immediate antimicrobial effect right where it is needed the most. In studies, platelet-rich plasma have proven to have a pronounced antimicrobial effect.

**Greater range of motion**

Pooled red blood cells associated with post-operative bleeding contain pro-inflammatory cytokines which cause pain and inflammation. Utilizing platelet-rich plasma, there is less capillary bleeding and a reduced risk of a hematoma (bruising) and a concomitant reduction in surgical site pain.

## SURGICAL WOUND THERAPY

**Improved Outcome**

Whenever a patient undergoes a surgical procedure, there is the risk for problems with the wound not healing properly and with potential infection, especially in the elderly, diabetic or immunologically compromised patient. Utilizing platelet-rich plasma, not only does the **surgical wound heal more rapidly**, but also with **less pain** and discomfort to the patient. Most importantly, the **risk of infection is reduced** because of the high concentration of leukocytes (white blood cells) present in the platelet rich plasma.

