

Platelet Rich Plasma (PRP)



The Magellan Autologous Platelet Separator facilitates rapid preparation of PRP from 30-60 mL of the patient's blood or bone marrow.

Platelet Rich Plasma (PRP) is a concentrate of platelets, white blood cells, and/ or platelet poor plasma containing matrix proteins associated growth factors. PRP is generated through processing 30-60 mL of the patient's blood. Prior to use, it is activated by the addition of thrombin and/or calcium chloride. Activated platelets release growth factors up to 14X the baseline concentration, such as TGF- β 1, PDGF, VEGF, bFGF, IGF-1, EGF, and HGF—thought to contribute to the potential benefits of PRP. This process only takes about 20 minutes. The product can be used at any time in the operating room or clinical procedure area.

Benefits

The increased concentration of growth factors released by PRP is thought to accelerate repair and regeneration of multiple tissue types. Possible mechanisms include:

- Increasing angiogenesis
- Stimulating proliferation of osteoblasts, fibroblasts, tenocytes, fibroblasts, myoblasts, epithelial cells, and mesenchymal cells
- Enhancing extracellular matrix synthesis
- Inhibition of pro-inflammatory cytokines detrimental to early healing

Indications

Currently, PRP is used in:

- Sports medicine injuries
- Dermatologic interventions: wound repair, diabetic foot ulcers, and burns
- Surgeries: orthopedic, plastic, maxillofacial, trauma, vascular, and neurosurgical
- Can be mixed with autograft and/or allograft bone prior to application to an orthopedic site

Ordering

For more information or to schedule this service, call us anytime 24/7 at 800.CELLSAV (800.235.5728) or [visit our Clinical Force Online Community](#).