**GPS III® Platelet Concentration System**

Whole blood contains several components that can be concentrated during centrifugation to form a buffy coat layer or leukocyte-rich platelet-rich plasma (L-PRP).* By utilizing the GPS III® Platelet Concentration System, the patient’s own platelets can be separated into a highly concentrated formula.

**PRP Output* Concentrations**

- 90% recovery of available platelets²
- 9.3x platelet increase over baseline²
- 5x white blood cell increase over baseline²
- 6 ml of autologous PRP output²
- 15 minutes centrifuge process²

The proprietary, finely tuned buoy mechanism captures up to 90% of the available platelets.

The blood components are separated into compartments for easy retrieval through the designated ports.

**Note:** It’s important to properly citrate the blood draw: 6 ml of ACD-A for 54 ml blood draw, 3 ml of ACD-A for 27 ml blood draw.
The role of whole blood in bone remodeling

Whole blood contains components which play a key role in bone formation. Growth factors and signaling proteins from platelets stimulate the proliferation of osteoprogenitor cells as part of the bone remodeling process.

Images adapted from reference 5.
The PRP output* from the GPS III® Platelet Concentration System can be mixed with autograft and/or allograft bone prior to application to an orthopedic site.

Examples of Autograft/Allograft Bone Grafting Applications

- Proximal humerus fractures
- Shoulder reconstruction
- Distal ulna/radial fractures
- Osteotomies
- Bone cysts
- Proximal femur fractures
- Hip reconstruction
- Avascular necrosis
- Distal femur fractures
- Proximal tibia fractures
- Knee reconstruction
- Open wedge Osteotomies
- ACL bone block reconstruction
- Bone recession
- Restorative surgery
- Implant surgery
- Thoracic closure
- Spine fusion
- Supplement cages
- Distal tibia/fibula fractures
- Foot and ankle fusions
- Evans/Cotton Osteotomy
- Bone cysts
- Charcot
- Supplement allograft wedges
- Proximal femur fractures
- Distal ulna/radial fractures
- Osteotomies
- Bone cysts
- Proximal humerus fractures
- Shoulder reconstruction
- Distal femur fractures
- Proximal tibia fractures
- Knee reconstruction
- Open wedge Osteotomies
- ACL bone block reconstruction

*The platelet-rich plasma (PRP) prepared by this device has not been evaluated for any clinical indications. The safety and effectiveness of this device for in vivo indications for use, such as bone healing and hemostasis, have not been established.

References
2. Data on file at Biomet Biologics, LLC.

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