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# MAXX™ CONCENTRATION SYSTEM



The Next Generation in Regenerative Cellular Technology

• Maxx PRP

• Maxx BMC



# The Next Generation in Regenerative Medicine Technology.

**Customizable PRP at Your Fingertips to treat a variety of conditions.**



Maxx-PRP provides a 4-6x level over baseline concentration of platelets, promoting the following growth factors:

**VEGF** - Vascular Endothelial Growth Factors

**PDGF** - Platelet Derived Growth Factors

**TGF** - Transforming Growth Factors

## Maxx™ PRP & Maxx™ BMC

### Features

- Dual spin capability in one device
- Allows clinicians to adjust hematocrit levels
- 8 minute processing time within a closed, sterile system
- Faster cell collection with less clotting
- Access "Buffy Coat" layer in seconds
- Delivers LP - PRP and LR - PRP
- Ability to process up to 240cc of PRP or BMC in one spin cycle







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CLINICAL USE - Sports Medicine with Maxx PRP



## Sports Medicine with Maxx PRP™

PRP or (Platelet Rich Plasma) is used to treat soft tissue repair in sports medicine injuries such as osteoarthritis and tendinosis. This is a result from the overuse or damage to collagen fibers that make up your bodies tendons. Common injuries are seen in “sprains, strains, pulls and tears” of the body’s foot, ankle, knee and elbow. This damaged tissue does not heal properly by itself due to poor blood supply.

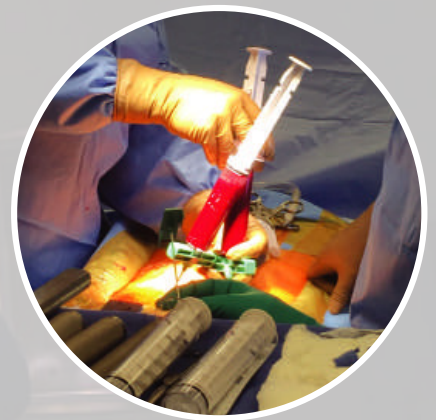
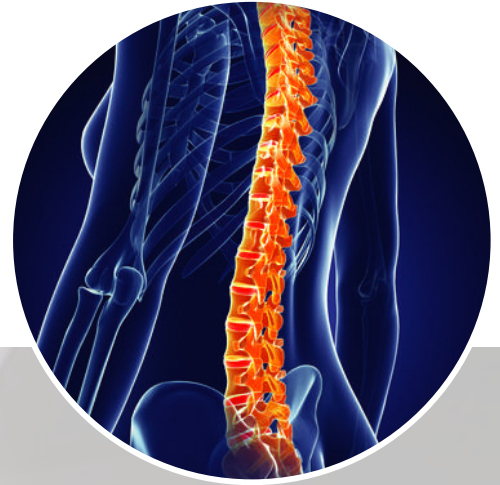
The concentrated platelets found in PRP contain bioactive proteins that help repair, heal and regenerate damaged tissue. PRP helps promote growth and repair by stimulating the development of new blood cells. By providing concentrated platelets and new blood flow to damaged areas, the body develops new collagen fibers. These collagen fibers have potential to heal and repair the damaged tissue.



With MAXX PRP™, clinician’s can provide the optimal concentrated PRP to help heal their patients specific conditions. Maxx PRP™’s lead screw technology allows the clinician to treat with either Leukocyte Rich or Leukocyte Poor PRP. Maxx PRP™ has the ability to deliver a 4-6X concentrated product over baseline within 8 minutes, in 2 concentrated cycles. Maxx PRP™ allows the user to concentrate 25-240cc of peripheral blood. Average final product volume yield is 7-10%.

# ORTHOPEDICS with Maxx™ BMC

Bone marrow concentrate (BMC) is widely used and recognized now in orthopedics as a complement to help facilitate mature bone growth. Bone-marrow aspirate is a rich source of cells, cytokines, and growth factors. Concentrating bone marrow accelerates the ability to harness these viable growth factors that are needed for bone formation.



Maxx BMC allows clinicians to provide a concentrated final product within 8 minutes. Maxx's [Lead Screw Technology] allows clinicians to maximize their opportunity to grab essential growth factors from the "Buffy Coat" layer on 2 spin cycle attempts. Harnessing these viable cells in 2 spin cycles after concentration provides a more optimal product to compliment bone formation. Maxx BMC allows the user to concentrate 25-240cc of autologous bone marrow aspirate, in one centrifugation. Average final product volume yield is 7-10%.



## What is Lead Screw Technology?

Maxx's Lead Screw technology allows clinicians to pinpoint precise and accurate areas of the buffy coat (growth factor layer) of PRP or BMC concentrate in a matter of seconds. Up to two concentrated cycles can be conducted in 8 minutes, yielding 4-6X platelet concentrations over baseline. This gives the clinician the advantage to customize the final product based on procedure specific needs.

## Sterile Closed System – Dual Concentrations, One Device

Sterility is key in all clinical settings. Unlike other systems, Maxx's Lead Screw Technology allows clinicians to concentrate up to 2 cycles with one device. This eliminates the need to transfer concentrated cells to a 2nd device and prevents further contamination with unsterile breaks and transfers.

## The Next Step in Regenerative Cellular Technology

The Maxx Concentration Systems gives clinicians the ability to deliver a safe, effective product in a matter of minutes in any clinical setting. With Lead Screw Technology, Maxx PRP and Maxx BMC provide clinicians a new option to treat a variety of conditions with a safer, faster and more efficient approach







# Who We Are

Royal Biologics is an Orthobiologics company specializing in the research and advancement of Regenerative Cellular Therapy. Our primary focus is using autologous bioactive cells to help promote healing in a wide range of clinical settings. We believe in harnessing the power of cellular therapy to maximize our bodies potential.

## Product Information

- MXPRP -1 Maxx PRP concentration system
- MXBMC60 - Maxx BMC Concentration System 60ml
- MXBMC120 - Maxx BMC Concentration System 120ml



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