

## The Bauman PRP Process Utilizing Emcyte PurePRP Kit

- **Step 1:** Draw 8mL of Sodium Citrate Anticoagulant into the 60 mL syringe for blood draw and 2mL of Sodium Citrate Anticoagulant into the 3mL syringe (this will be used for purging the line in step 3).
- **Step 2:** With the 60mL syringe containing Anticoagulant draw 50mL whole blood from the patient.
- **Step 3:** Attach the 60 ml syringe containing the anti-coagulated whole blood to the **Concentrating Device (note: this is the device with the RED CAP)** and push the entire content of this syringe into it. To clear the residual blood, purge the transfer line of the concentrating device with the 3 mL syringe containing 2mL of anticoagulant that was drawn up in Step 1.
- **Step 4:** To create a counterbalance that will be placed in the centrifuge with the Concentrating Device, use the scale provided. To do so weigh the Concentrating Device containing whole blood by placing it on the scale, press the button on the scale labeled 'TARE' and remove the concentrating device. Now place the H2O counterbalance on the scale and adjust the amount of H2O in it until it is equal to the weight of the whole blood. The scale will read zero (0).
- **Step 5:** Place the Concentrating Device and Counter Balance into the centrifuge (Executive Series Centrifuge), adjust the knob on the left to spin for 1.5 minutes and the knob on the right to be set at 3800 RPM's (it will read 3.8). When the first spin is completed **carefully** remove the device as to not disturb the separated cells.
- **Step 6:** Now that the spin is completed, using a new 60mL syringe, aspirate the platelet plasma suspension (PPS) until the RBCs fills the aspirating pipe. Stop just before the RBC's enter the syringe & remove it from the device. (RBCs should be avoided as much as possible but it's normal to aspirate *small* amounts of RBCs into the syringe during this process to ensure that all of the PPS is removed).
- **Step 7:** To initiate the second spin, transfer the platelet plasma suspension (PPS) from the 60 mL syringe into the Concentrating **Accessory**. Repeat Step 4 using the Concentrating **Accessory** to create counterbalance for this spin.

## The Bauman PRP Process Utilizing Emcyte PurePRP Kit

- **Step 8:** Place Concentrating Accessory and Counter Balance into the centrifuge for 8 minutes at 3800 RPM's (it will read out as 3.8). When completed you may remove the device. In this spin, all of the platelets will concentrate and stick to the bottom of the Concentrating Accessory.
- **Step 9:** Using the 50mL syringe, aspirate the platelet poor plasma (PPP) from the Concentrating Accessory, leaving only 7mL of plasma.
- **Step 10:** Attach the 12mL syringe to the Concentrating accessory and gently swirl to re-suspend the platelets back into the plasma. Once the platelets have been completely re-suspended (you will no longer see them attached to the bottom), tilt the container to immerse the Aspirating Pipe into the PRP and extract into the connected 12mL syringe. **(This is the primary syringe of PRP that will be injected, which can be labeled as syringe #1).** To this syringe, add the thawed Bio-D Restore (extracellular matrix) and then place under the AdiLight or low level laser light source for 10 minutes.
- **Step 11:** Transfer 2mL of PPP from the 50 ml syringe into a separate 10mL syringe. This syringe will also be placed under the AdiLight or other low level light source for 10 minutes. **(this may be labeled as syringe #2, which is injected after the primary PRP has been injected).**
- **Step 12:** Once the 10 minutes is up, you will connect this syringe to a separate syringe containing 0.5 mL of Dexpanthenol and 0.2 mL of Calcium Chloride (IMPORTANT: do not mix the dexpanthnol and calcium chloride into the syringe until the time of injection as it will thicken up, making it difficult to inject).
- **Step 13:** Transfer 5ml of PPP from 50 mL syringe into a 5mL syringe, which will be used as a lubricant during the Micro Needling process **(this can be labeled as syringe #3).**

## Bauman Tray Set up for Emcyte PURE PRP

### Tray A (Phlebotomy for PRP)

- One 60 cc syringe with 8 cc of Sodium Citrate anticoagulant
- Butterfly safety needle for blood-draw (19g X 3/4")
- 4x4 Gauze
- Band-Aid
- Alcohol Pad
- Cotton ball
- Squeeze ball
- Tourniquet

### Tray B (Processing of PRP)

- Executive Series Centrifuge (Emcyte)
- One Emcyte kit
  - Which includes:
  - Sodium Citrate anticoagulant
  - Filtering 18 G needle
  - Concentrating device and Concentrating accessory
  - Two 60 cc syringes, a 50 cc syringe, a 12 cc syringe and a 3 cc syringe

### Tray C (For injecting PRP)

- One bottle with 0.9% saline for irrigation
- One with 50:50 mixture of 0.9% saline for irrigation and Hydrogen Peroxide
- One antimicrobial spray bottle
- 4 x 4 Gauze
- Comb
- Two (2) dental syringes for numbing
- 6-9 Carpules of Septocaine (4% articaine solution plus Epi 1:100,000)
- Two 27g x .5" gauge needles to inject
- AmeiaMed Micro-needling device w/ sterile 6-prong tip
- AdiStem AdiLight or other low level light source