EXACTECH | **BIOLOGICS**

PreparationTechnique

Accelerate®

CONCENTRATING SYSTEM

Platelet Concentrating System

Exactech® BIOLOGICS

PREPARATION TECHNIQUE

1 PREPARATION

Step 1: Aseptically transfer the PRP aspirating kit and applicator kit into the sterile field. If possible, this should be completed before the patient is in the room.

Step 2: Transfer 5mL of calcified thrombin (5mL $CaCl^2$ +5000 units of thrombin) into the sterile field.

2 BLOOD DRAW

Step 1: Draw 6mL of anticoagulant into 60mL syringe.

Step 2: Attach and prime the apheresis needle with ACD-A.

Step 3: Draw 54mL of blood, filling the syringe to 60mL (54mL of blood and 6mL ACD-A). Gently mix the blood and anticoagulant.

3 PLATELET RICH PLASMA (PRP) PROCESSING

Step 1: Transfer the 60mL of blood and ACD-A into the blood separating tube. Fill the counterbalance with equivalent volume of water or saline *(Figures A, B)*.

Step 2: Place both tubes in the centrifuge buckets at opposite ends of the rotor.

Step 3a: Drucker Centrifuge: Centrifuge at 2400 rpm, 12 minutes, 0 brake *(Figure A)*.

Step 3b: Eppendorf Centrifuge: Centrifuge at 3600 rpm, 10 minutes, 0 brake *(Figure B)*.

Step 4: Once the centrifuge has stopped, mount the blood separator tube on the IV pole *(Figure C)*.

4 PRP AND PLATELET POOR PLASMA (PPP) SYRINGE ASPIRATION IN THE STERILE FIELD

Step 1: Connect one end of the extension line to the three-way valve assembly (the other two ends are connected to a 60mL syringe and 12mL syringe) *(Figure D)*.

Step 2: Connect the other end of the extension line from the sterile field to the blood separating tube.

Step 3: With the stopcock valve closed to the 12mL syringe, SLOWLY draw plasma into the 60mL syringe. This will draw down the aspiration disc inside the blood tube. Slow down when the aspiration disc meets the plasma/RBC interface. A red tint will enter the extension line. Stop when the red tint reaches the blue marker *(Figure E)*.

5 PRP SYRINGE

Step 4: With the stopcock valve closed to the 60mL syringe, SLOWLY draw 6mL of PRP into the 12mL syringe.

Note: *If 10mL of PRP is required, add an additional 4mL of PPP into the 12mL syringe for a total of 10mL (Figure F).*

6 PPP SYRINGE

Step 5: Remove the PRP syringe and replace with an empty 12mL syringe.

Step 6: With the stopcock valve closed to the extension line, aspirate 10mL of plasma into the syringe *(Figure G)*. This is the PPP syringe.

Figure A

Figure B

Figure C

Figure D

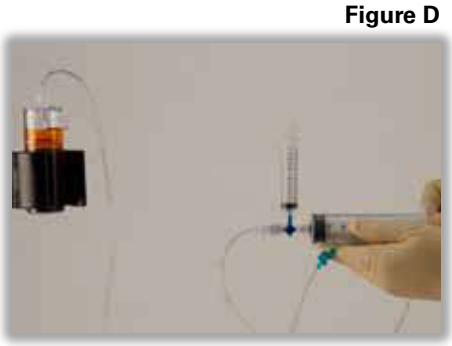

Figure E

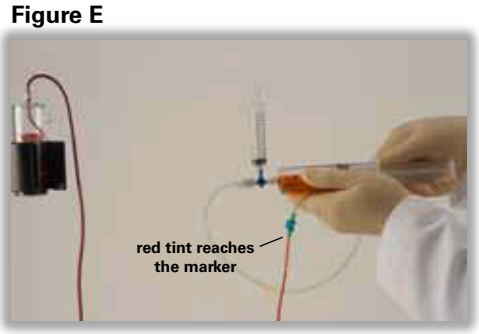

Figure F

Figure G

Continued on back side.

7 PRP APPLICATOR ASSEMBLY

Step 1: Aspirate 0.6mL of the calcified thrombin into the 1cc syringe.

Note: For 10mL of PRP, aspirate 1mL of the calcified thrombin into the 1cc syringe.

Step 2: Mount the dispensing tips to the end of the PRP syringe and thrombin syringe. Attach the assembly into the holder *(Figure H)*.

Figure H

8 PPP APPLICATOR ASSEMBLY

Step 1: Aspirate 1mL of the calcified thrombin into the other 1cc syringe.

Step 2: Mount the dispensing tips to the end of the PPP syringe and thrombin syringe. Attach the assembly into the holder *(Figure I)*.

Figure I

Exactech is proud to have offices and distributors around the globe.
For more information about Exactech products available in your country, please visit www.exac.com

---

Accelerate Concentrating System is designed to be used for the safe and rapid preparation of autologous platelet rich plasma (PRP) from a small sample of blood at the patient's point of care. The PRP can be mixed with autograft and allograft bone prior to application to an orthopedic surgical site as deemed necessary by the clinical use requirements.

Please be advised the Accelerate Concentrating System distributed by Exactech is not cleared for specific indications or treatments.

352-377-1140
1-800-EXACTECH
www.exac.com

Accelerate® Concentrating System is manufactured by EmCyte Corporation and is distributed by

Exactech® BIOLOGICS

713-06-00 Rev. D
Accelerate Prep Tech 1012

A Great Day in the O.R.™