

CAREprp Instructions:

1. Draw 2ml of anticoagulant into the included 30ml syringe/18G blunt fill needle. Use the included butterfly to gently draw 23ml of blood into the syringe (for a total volume of 25ml). The tip at the end of the butterfly tube pulls off so that it'll connect to the syringe/Luer Lock.
2. Ensure that the bottom chamber is open to the 15mm mark.
3. Gently close the top collar (by turning clockwise) without overtightening.
4. Open the outer port cap. Gently transfer 23ml of blood + 2ml of anticoagulant by attaching the syringe/Luer Lock (no needle) onto the outer port. Reseal the outer port by closing its cap.
5. Open the top chamber by turning the top collar exactly $1 \frac{1}{3}$ turns counterclockwise. $1 \frac{1}{2}$ turns is too much. It might be easier to visualize $1 \frac{1}{4}$ plus a little.
6. Place the CAREprp tube and the counterweight tube (with 25ml of water) into the centrifuge and spin for 3 minutes. Note: As above - open the top chamber of the counterweight tube $1 \frac{1}{3}$ turns and raise the piston in its bottom chamber to 15ml. Also, close the top collar of the counterweight tube after the first spin to minimize evaporation (for next spins).
7. Carefully remove the tube and place on a solid surface. Slowly raise the red blood cells and buffy coat to the desired position with a firm grip on the bottom collar and **slowly** rotate the tube clockwise. Let the tube sit for a moment to allow any undesired red blood cells to settle back down into the red blood cell layer. **Please be aware that the red blood cell layer may rise while settling so initially position it lower than where desired.**
8. Once the buffy coat has been positioned, turn the top collar clockwise to seal off the connection between the top and bottom chambers.
9. Collect PRP from the **outer port** with a syringe/Luer Lock (no needle). The final needle should be no smaller than 30 gauge.
 - The total yield will be 12-15ml. Gently swirl if you'd like to use everything homogenously or don't swirl if you'd like to aspirate the most concentrated first.
 - To maximize the concentration tilt the hourglass towards the outer port and aspirate the desired volume. 1ml will yield a 16x concentration, 3ml - 10x and 5ml - 7x; for example.
 - If the yield is reddish in color (not golden) open the top collar a tiny bit more and spin again.