

RegenKit® THT

Autologous
Platelet Rich Plasma (A-PRP)



Reference Guide

RegenKit THT

Simple 4-Step Process

The single use RegenKit THT is designed to aid in the separation of the patient's own blood components through the use of the Regen THT vacuum tubes and clinical centrifuge. The RegenKit THT permits platelet concentrate to be rapidly prepared from a small volume of the patients blood that is drawn at the time of treatment. Blood is drawn from the patient and then spun in a centrifuge according to centrifuge operating instructions. The resulting platelet-rich plasma is collected with syringes and can be mixed with autograft and allograft bone prior to application to an orthopaedic surgical site.

Step 1: Collect Whole Blood

a

Thread the luer adapter of the Butterfly needle into the vacutainer holder. Select site for venipuncture and prepare the site with an appropriate antiseptic. Remove needle sheath and hold needle by the wings. Perform venipuncture with patient's arm in a downward position.

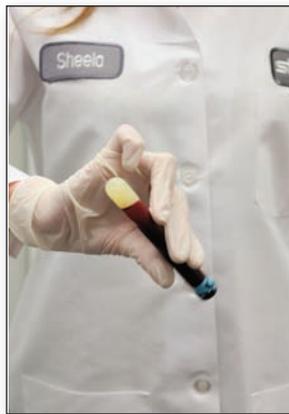


To initiate flow, place the Regen THT tube into the vacutainer holder. Push the Regen THT vacuum tube onto the needle within the vacutainer holder, which will then puncture the stopper. When the Regen THT tube is filled, remove it from the tube holder. If using more than one Regen THT tube, repeat step b.



b

Invert the filled tube gently 4 to 5 times to mix the anticoagulant additive with the patient's blood. This should be completed as soon as the Regen THT vacuum tube is removed from the vacutainer holder.



c

As soon as the last vacuum tube is filled and mixed, remove the needle from vein by grasping the wings and withdrawing. Apply pressure to puncture site with dry, sterile gauze until bleeding stops. Dispose of the needle using an appropriate disposal device.



d

Step 2: Load and Balance

Insert the Regen THT vacuum tubes into opposite sides of the centrifuge. **WARNING:** Tubes in the centrifuge must be carefully balanced. If using an odd number of tubes the utilization of the balancing tubes will be necessary. Centrifugation should be completed at room temperature (64.4° – 77° F).



Step 3: Spin

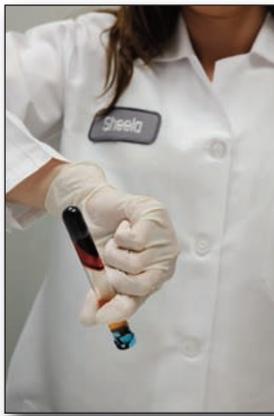
Close the lid and select the appropriate centrifuge settings. If using the Stryker Universal Centrifuge, 8 minutes (arrows) with a RPM speed of 34 (knob) can enable a RCF of 1,500 to be achieved. If an alternative centrifuge is being used, refer to the RegenKit IFU for calculation details. **WARNING:** Excessive centrifuge speed over 2200 RCF may cause tube breakage, exposure to blood, and possible injury.



Step 4: Platelet Preparation

a

After centrifugation, blood components will be separated, with the platelet pellet resting on the separating gel. Re-suspend the platelet pellet in the plasma supernatant by gently inverting the unopened Regen THT tube 5 to 10 times. The A-PRP preparation can result in a high level of platelet recovery and viability, a physiological level of leukocytes, and containment of the entire plasma component of blood, which is rich in growth factors.



b

Connect the 5-ml Luer-Lok syringe to the vacutainer blood transfer device. Insert the Regen THT tube into the vacutainer blood transfer system. Push the Regen THT tube onto the needle within the vacutainer system, which will then puncture the stopper. Collect the supernatant fraction using the 5-ml Luer-Lok™ syringe equipped with the blood transfer device.



Step 4: Platelet Preparation

C

Place the 27 G grey needle onto the 5-ml Luer-Lok syringe. The A-PRP is ready for use at this point.



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PART NUMBER	DESCRIPTION
8495-9-001	RegenKit THT1
8495-9-010	Stryker Universal Centrifuge
8495-9-998	Balancing Tube 3-Pack

A surgeon must always rely on his or her own professional clinical judgment when deciding whether to use a particular product when treating a particular patient. Stryker does not dispense medical advice and recommends that surgeons be trained in the use of any particular product before using it in surgery.

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