

WITHIN THE UNITED STATES ONLY

ENGLISH HARVEST® PLATELET-RICH PLASMA (PRP) PROCEDURE PACK INSTRUCTIONS FOR USE

INDICATIONS

atelet-Rich Plasma (PRP) Procedure Pack is indicated for the safe and rapid preparation of autologous platelet rich a (PRP) from a small sample of peripheral blood at the patient's point of care. The PRP is mixed with autograft and graft bone prior to application to abory detect for improving handling characteristics. pla:

- CONTRAINDICATIONS The use of the Platelet-Rich Plasma (PRP) Procedure Pack may be contraindicated if any of the following conditio
- There is clinical or laboratory evidence of septicen •

. e patient has taken aspirin or other medications that alter pla s p

The patient has a disorder associated with platelet dysfunction.

WARNINGS 1. Federal law

- Federal law (U.S.) restricts this device to sale by or on the order of a physician. The physician is solely responsible for the use of this device.
- 2. Plasma, platelets, and cell concentrate prepared with this sys e not in
- з. This device is only intended for use on a single patient during a single procedure, and it should not be used for multiple patients. pa 4.
 - Do Not Reuse/Not for Reuse: Globus Medical products bearing the "Single Use Only" symbol are intender single use only and are not intended to be reused or re-sterilized in any manner. Globus Medical cannot ensu functionality or sterility of the product if it is reused or or e-sterilized.
 - Reuse of a single-use product could result in: · Product performance issues due to a loss of product integrity, including but not limited to the follo
 - Fluid leaks
 - Parts that are warped or deformed

 - Plastics that are brittle and discolored
 Filters that have reduced filtration capab
 - · Exposure to excessive ethylene oxide (EO) resid
 - Viral infections such as hepatitis or human immunodeficiency virus (HIV)
 - Bacterial infections
 - Cross-contaminatio

Any of these risks could result in serious injury or death. These risks are shared by product us and recipients of end products of the device.

- e if the packaging is open or damaged
- Use aseptic technique throughout all procedures to ensure patient safety or product quality
- Always follow aseptic technique when entering a sterile container; wipe all ACD-A access sites and process disposable chamber access sites (white and red ports) with an alcohol pad prior to entry, to maintain sterility and to avoid contamination. Follow sterile technique whenever you are passing components into the sterile field. З.
- 5. All blood and blood components should be handled as infectious. To minimize the potential for exposure to blood-borne pathogens, observe universal precautions when handling blood and blood components.
- Disposables that have come in contact with adjoes tissue should be considered biohazardous waste and shou be handled and disposed of in accordance with applicable regulations and your institution's standard operating procedures (SOPs). Incineration and decontamination by autoclavity are the currently recommended methods if disposing of adipose tissue products should be used within four (4) hours of collection. 6.
- 8. After processing on the SmartPrep® Centrifuge System, make sure the process disposable is properly supported in an upright position. Tilting or tipping it could cause fluids to spill from one chamber into another and affect processin
- Health professionals responsible for blood collection must be trained in the practice of venipuncture and be aware of the inherent risks. Aseptic technique, proper skin preparation, and continued protection of the venipuncture site are essential. 9.
- 10
- Using excessive force could activate platelets and hemolyze red blood cells. Inadequate mixing may cause the blood to clot in the syringe and could result in suboptime al proce
- 12. To ensure that the system is balanced when you load a process disposable, always load either another process disposable of equal volume or a corresponding balance weight in the opposite rotor bucket.
- 13. If the system is not loaded properly, an imbalance will occur, and the system will stop the processing cycle.
 14. Do not force a process disposable into a rotor bucket. A process disposable should fit snugly but should not req excessive force to install. If there is resistance, check for obstructions in the rotor and/or debris on the process disposable, and ensure that the process disposable is properly oriented in the rotor bucket.
- 15. To ensure proper device operation, allow the procedure pack or kit to co 16. Refer to the package label to ensure the kit is within the expiration date. e to ature hef
- Clean and disinfect the SmartPrep[®] Centrifuge System after each use and betw SmartPrep[®] Centrifuge System Operator's Manual for cleaning and disinfecting. es. Ple
- 18. The PRP Procedure Packs should only be used with the SmartPrep® Centrifuge System.

PROCEDURE PACK COMPONENTS Caution: Follow sterile technique whenever

er you are passing components into the sterile field.

⚠

- Caution: Ensure all required components from the table below are present in the applicable procedure pack before you begin the procedure. Note: x-OD- And alcohol pads are required for the procedure, but are not included in the procedure pack, so user must supply the ACD-A and the alcohol pads. es and procedures for ac

ase refer to the

Note: Please follow your healthcare facility's pro included in your kit configuration.

51414 (APC-30n)	51415 (APC-60n)	51436 (APC-120n)	Components	
1	-	-	30 mL Process Disposable	
-	1	2	60 mL Process Disposable	
-	-	1	120 mL Blood Draw Kit	
-	-	1	10 mL Syringe with (1) Blunt Fill Needle (red)	
1	-	-	10 mL Platelet Concentrate Syringe with Blunt Cannula	
-	1	2	20 mL Platelet Concentrate Syringe with Blunt Cannula	
1	-	-	20 mL Plasma Syringe with Blunt Cannula and Spacers	
-	1	2	30 mL Plasma Syringe with Blunt Cannula and Spacers	
1	1	1	Sterile Plastic Cups (3)	
Blood Draw Kit Comp	onents			
51436 (APC-120n)	Components	Components		
2	Blunt Plastic Cannula			
3	Blunt Fil Needle			
1	5 mL Anticoagulant Syringe			
2	60 mL Blood Draw Syringe			

51414 (APC-30n)	51415 (APC-60n)	51436 (APC-120n) Components		
1	1	1 19 G Safety Winged Infusion Set		
1	1	1 Red Clamp		
1	1	-	3 mL Syringe (spare)	
1	1	-	10 mL Syringe (spare)	
1	1	-	Blunt Plastic Cannula	
3	3	- Blunt Fil Needle		
1	-	-	35 mL Blood Draw Syringe	
-	1	-	60 mL Blood Draw Syringe	
1	1	1	Patient Label Sheet (6 labels)	



e 1: Process disposab led in the process kit Figure includ

- 1. White port: Allows for platelet-poor and platelet-rich plasma to be removed and for ACD-A to be add
- 2.Red port: Allows for whole blood to be added
- 3. Floating shelf: Isolates RBCs from other blood components during separation

PREPARATION FOR PROCESSING

The rate of the SmartPrep[®] Centrifuge System operator's manual for additional information concernin ntrifuge System operation and maintenance, warnings, and cautions. Remove the process disposable from the packaging and place it on an appropriate work space ition concerning Sr

- These that the shell in the process disposable sides up and down freely. If the shell are not move freely, do not disperse blood or cellular material into the process disposable. Either tap the bottom of the process disposable to disloge the shell or use a sterile simple to push the shell to the bottom of the process disposable. 2.
- For a 30 mL process disposable, complete the following steps: З.

a. Draw 4 mL of ACD-A (Anticoagulant Citrate Dextrose Solution A) into a blood draw syrir

- b. Insert the blood draw syringe into the while port on the process disposable to transfer the of the ACD-A into the plasma chamber, using the method shown in the figure below, 3 mL of ACD-A remain in the blood draw syringe for use during the blood collection.
- For a 60 mL process d posable, complete the following steps
 - a. Draw 8 mL of ACD-A into a blood draw syringe.
 - To heart the blood draw syrings into the white port on the process disposable to transfer 2 mL of the ACD-A ir plasma chamber, using the method shown in the figure below. 6 mL of ACD-A remain in the blood draw syri use during the blood collection.



Figure 2: Transferring ACD-into the plasma chamber

PREPARAT N OF THE VENI UNCTURE SITE

cture site for blo od c



rofessionals responsible for blood collection must be trained in the practice of venipuncture and be int risks. Aseptic technique, proper skin preparation, and continued protection of the venipuncture of the inhe

Note: Select a large peripheral vein that is free of le-venous line can also be used. ns, such as the antecubital (ceph alic) vein. A c

- pply a tourniquet or a blood pres e cuff to the pa nt's arm, and identify the v
- Complete the following steps to disinfect the intended venipuncture site:
 - Apply either an aqueous solution of iodophor compound or an alcohol prepara motion from the intended venipuncture site to an area of at least 4 cm (1.5 in). d moving out tion p
 - Let the skin dry for approximately 30 seconds. Do not touch the skin once it has been prepared, and do not re-palpate the vein at the intended venipuncture site.
- erform the venipuncture
- 4. Once intravenous access is confirmed, clamp the intra needle and tubing to the skin. enous tubing using the red clamp provided, and se cure the

DRAWING PATIENT BLOOD Draw the patient's blood prior to starting the predure and before administ ng any fluids, partic

- Connect the blood draw syringe to the s
- 2. Release the red clamp on the intravenous tubing.

Draw blood from the patient, as shown in the figure below, at a continuous rate that minimizes excessive vacuum pressures, typically no faster than 1 mL per second. For the 30 mL process disposable, fill the blood draw syringe with 27 mL of blood. For the 60 mL process disposable, fill the blood draw syringe with 54 mL of blood.



nous tubing, and disconnect the blood draw syringe 4. Clo e the red cla imp on the intr

5. Release the tourniquet or blood pressure cuff.

\wedge

- **on:** Using e с autic ssive force could ac
- Invert the blood draw syringe several times to ensure adequate mixing of the blood and anticoagulant, and en-there is a bubble in the syringe. 6.

Â

- Attach a blunt plastic cannula to the blood draw syringe. Caution: Inadequate mi
- Insert the blood draw syringe into the red port on the process disposable, as shown in the figure below, i the contents into the blood chamber at approximately 1 mL per second. Do not overfill the process dispo avoid dislodging the red port: nd dispe
- · Make sure the needle is centered in and perpendic lar to the port.
- h down on th e port or use exce sive force ising th



Figure 4: Inserting the blood draw syringe into the red port

© CENTRIFUGE SYSTE G THE BLOOD IN THE SMARTPREF

\mathbb{A}

Caution: To ensure that the system is balanced when you load a process disposable, always load either another proc disposable of equal volume or a corresponding balance weight in the opposite rotor bucket. Caution: If the system is not loaded properly, an imbalance will occur, and the system will stop the processing cycle. Caution: Do not force a process disposable into a rotor bucket. A process disposable should fit smuly but should not require excessive force to install. If there is resistance, check for bostructions in the rotor and/or debris on the process disposable, and ensure that the process disposable is properly oriented in the rotor bucket.

- Press the LID button to open the lid.
 Load the process disposable(s) into the rotor buc
- If needed, load the appropriate balance weight into the opposing rotor but З.
- Rotate the process disposable so the white dot is facing the center of the rotor, as shown in the fig



Figure 5: Process disposable in the centrifuge (top view)

1. White dot: Aids in alignment of pr d in the centrifua

- 2. White port: Align with white dot on centrifuge rotor
- Ensure that the process disposable is properly seated and aligned
- Close the lid, and make sure the LID OPEN indicator is not illuminated.
 Press the PRP button to start the processing cycle. The total processing tir s appro
- itely 14 n When the processing cycle is complete, press the LID button to open the lid. 8.

A

Caution: After processing on the SmartPrep[®] Centrifuge System, make sure the process disposable is properly supported in an upright position. Tilting or tipping it could cause fluids to spill from one chamber into another and processing results.

in the figu



Figure 6: Process dispo in an upright position to maintain separation

ADJUSTING THE FINAL VOLUME OF PRP IN THE PROCESS DISPOSABLE You can adjust the final volume of PRP (plateliet-rich plasma) in the process disposable by removing a syringe/can space from the plasma syringe. The spacers determine the volume of plateliet-poor plasma that is withdrawn from the plasma chamber. Repeat the 60 mL process disposable spacer removal twice when using the 120 mL process disposable. Before you begin withdrawing plateliet poor plasma from the plasma chamber, use the information in t following table to determine how many spacers to remove to achieve a final volume of PRP in the appropriate proc disposable.

	Number of spacers to remove	Final volume of PRP in the process disposable		
30 mL Process Disposable	None	4 mL		
	1 (remove the front yellow spacer)	3 mL		
60 mL Process Disposable	None	10 mL		
	1 (remove the front yellow spacer)	7 mL		

\wedge

Cautio chnique when entering a sterile container; wipe all ACD-A access sites and process (white and red ports) with an alcohol pad prior to entry, to maintain sterility and to av

ete the follo ring steps to withdra w the pla et-poor plasma:

If necessary, remove a spacer from the plasma syringe, as shown in the figures below, without touching the cannula
 Insert the plasma syringe into the white port on the process disposable.
 Withdraw platelet-poor plasma from the plasma chamber until air enters the plasma syringe.

- 4.
- Remove the plasma syringe from the white port on the process disposable Discard the recovered platelet-poor plasma or transfer it to the sterile field, le field, if ne



Figure 7: Plasma syringe (60 mL kit) with the spacer intact



Figure 8: Removing the spacer from the plasma

ESUSPENDING THE PLATELETS implete the following steps to prepare platelet-rich plasma (PRP): Withdraw the remaining platelet-poor plasma into the platelet concentrate syringe with a blunt cannula and no spac 2. Gently inject the fluid into and withdraw the fluid out of the plasma chamber, as shown in the figure below. Repeat this 2 to 3 times until the cells are visibly suspended in the plasma..





- d, draw the total volume into the platelet concentra e syringe
- Observe the base and walls of the plasma chamber to confirm that all cells have been drawn into the platelet concentrate syringe. 4.
- Transfer the PRP to a plastic cup located in the ste 5. rile field..



Castion: Disposables that have come in contact with blood should be considered biohazardous waste and should be handled and disposed of in accordance with applicable regulations and your institution's standard operating procedur (SOPs), incineration and decontamination by autoclaving are the currently recommended methods for disposing blood samples and blood products.

- HYDRATING THE GRAFT MATERIAL
 1. Create a mixture of 1000 IU Thrombin in 10% Calci
- Aspirate the required amount of PRP in a syringe.
- з. In a separate syringe, aspirate the required amount of 1000 IU Thrombin/10% Calcium Chloride to achieve a 10:1 ratio of PRP to 1000 IU Thrombin/10% Calcium Chloride.
- 4. With the two syringes, saturate the graft material using a graft mixing/hydration kit. The graft is rea dy for a

STORAGE CONDITIONS I ono-term Storage Range: 0°C to 25°C (32°F to 77°F)

LATEX AND PYROGEN STATEMENTS This product is not made with natural rubber latex. The fluid pathways are non-pyrogenic.

RETURN OF USED PRODUCT If for any reason this product must be returned to Globus Medical, a returned authorization (an RA number) is required from Globus Medical prior to shipping.

IT IS THE RESPONSIBILITY OF THE HEALTH CARE INSTITUTION TO ADEQUATELY PREPARE AND IDENTIFY THE PRODUCT FOR RETURN SHIPMENT.

Please contact your local representati d goods and product comp

SYMBOL TRANSLATION							
REF	CATALOGUE NUMBER	STERILE R EO A &	COMPONENTS STERILIZED USING MULTIPLE METHODS				
LOT	LOT NUMBER	ī	CONSULT INSTRUCTIONS FOR USE				
	CAUTION		MANUFACTURER				
\otimes	SINGLE USE ONLY		USE BY (YYYY-MM-DD)				
	DO NOT RESTERILIZE	X	TEMPERATURE RANGE				
1	PRODUCT QUANTITY	8	DO NOT USE IF PACKAGE IS DAMAGED				
RXONLY	PRESCRIPTION ONLY						