WITHIN THE UNITED STATES ONLY

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

INDICATIONS

I/CATIONS Flatelet-Rich Plasma (PRP) Procedure Pack is indicated for the safe and rapid preparation of autologous platelet rich ma (PRP) from a small sample of peripheral blood at the patient's point of care. The PRP is mixed with autograft and/ lograft bone prior to application to a bony defect for impriving handling characteristics. Pla

CONTRAINDICATIONS The use of the Platelet-Rich Pla sma (PRP) Proc dure Pack may be contra indica d if any of the fol ng co

- There is clinical or laboratory evidence of septicemia
- tions that alter plate • The patient has taken aspirin or other n let function within 3 da s prior to s

The patient has a disorder associated with platelet dysfunction.

WARNINGS

- deral law (U.S.) r use of this dev tricts this device to sale by or on the order of a phys an. Th an is solely r
- Plasma, platelets, and cell concentrate prepared with this system are not inter-2.
- ded for transfu This device is only intended for use on a single patient during a single procedure, and it should not be used for multiple patients.
- Do Not Reuse/Not for Reuse: Globus Medical products bearing the "Single Use Only" symbol are intended for single use only and are not intended to be reused or re-sterilized in any manner. Globus Medical cannot ensure th functionality or sterility of the product if it is reused or re-sterilized. use of a single-use product could result in: 4.
- Product performance issues due to a loss of product integrity, including but not limited to the following:
- Fluid leaks
- Parts that are warped or de
- Plastics that are brittle and discolored
- at have reduced filtration ca
- Exposure to excessive ethylene oxide (EO) residuals
- Viral infections such as hepatitis or h leficiency vir
- Bacterial infections
- Cross-contamination
- ny of these risks could result in serious injury or de cipients of end products of the device. ed by product u s, doi s, pa

CAUTIONS

- o not use if the packaging is open or damaged.
- Use assplit 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 pro-disposable chamber access sites (white and red ports) with an alcohol pad prior to entry, to maintain s avoid contamination. З.
- Follow sterile techn e whenever you are passing components into the sterile field.
- All blood and blood components should be handled as infectious. To minimize the potential for expos blood-borne pathogens, observe universal precautions when handling blood and blood components
- Disposables that have come in contact with blood should be considered biohazardous waste and should be and disposed of in accordance with applicable regulations and your institution's standard operating procedi (SOPs), incineration and decontamination by autoclaving are the currently recommended methods for dispo-blood samples and blood products. 6.
- should be used within four (4) hours of colle Separated blood pr oduct
- 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 processing 8.
- Health professionals responsible for blood collection must be trained in the practice of venipuncture and be aware or the inherent risks. Aseptic technique, proper skin preparation, and continued protection of the venipuncture site are
- 10. Using excessive force could activate platelets and hemolyze red blood cells.
- 11. Inadequate mixing may cause the blood to clot in the syringe and could result in suboptimal proces 12. To ensure that the system is balanced when you load a process disposable, always load either another proce 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 cyc
- 14. Do not force a process disposable into a rotor bucket. A process disposable should fit snugly but is build no excessive force to install. If there is resistance, check for obstructions in the rotor and/or detries on the process disposable, and ensure that the process disposable is properly oriented in the rotor bucket. roce
- 15. To ensure proper device operation, allow the procedure pack or kit to come to room temperature before use
- to ensure proper device operation, allow the procedure pack of Ai to done to roun emperating builded between 16. Refer to the package label to ensure the kit is within the expiration date.
 Clean and disinfect the SmartPegP^C centrifuge System after each use and between uses. Please refer to the SmartPegP^C Centrifuge System Operator's Manual for cleaning and disinfecting.
 The PRP Procedure Packs should only be used with the SmartPegP^C Centrifuge System.

PROCEDURE PACK COMPONENTS

aniqu ed co whenever you are passing components into the sterile field. Caution: Follow sterile tec Caution: Ensure all require begin the procedure. re pack before vou

Process Kit Co

51400 (PC-30-01)	51401 (PC-60-01)	Components	
1	-	30 mL Process Disposable	
-	1	60 mL Process Disposable	
1	-	10 mL Platelet Concentrate Syringe with Blunt Cannula	
-	1	20 mL Platelet Concentrate Syringe with Blunt Cannula	
1	-	20 mL Plasma Syringe with Blunt Cannula and Spacers	
		30 mL Plasma Svringe with Blunt Cannula and Spacers	
-	1	30 mL Plasma Syringe with Blunt Cannula and Spacers	
- Blood Draw Kit Compo 51400 (PC-30-01)		30 mL Plasma Syringe with Blunt Cannula and Spacers	
	onents		
	onents	Components	
	51401 (PC-60-01)	Components Blunt Plastic Cannula	
	51401 (PC-60-01)	Components Burl Plastic Carnula Burl Fil Needle (red)	

e Shelf Components (PC-30-01) 51401 (PC-60-01) Cor

1	1 19 G Safety Winged Infusion Set		
1	1	Red Clamp	
1	1	Alcohol Pad	
1	1	IV Start Pack	
1	1	ACD-A, 30 mL	
1	1	Patient Label Sheet (6 labels)	

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Figure 1: Process disposable included in the process kit

- red and for ACD-A to b rt: Allo and pl et-rich pla sma to be remo
- 2. Red port: Allows for whole blood to be added
- 3. Floating shelf: Isolates RBCs from other blo od components during separatio

PREPARATION FOR PROCESSING ation cor rnina Sm

- operator's manual for additi ice, warnings, and cautions Centrifuge System operation and maintena
- Remove the process disposable from the packaging and place it on an appropriate v vork spac Tensore the process disposable informing packaging and packaging and pack to in an appropriate work space. Ensure that the self in the process disposable elistes up and down freely. If the shelf does not move freely, do not dispense blood or cellular material into the process disposable Ether tap the bottom of the process disposable to disidege the shelf or use a steries symple to push the shelf to the bottom of the process disposable to dispose the shelf or the bottom of the process disposable to the shelf or the bottom of the process disposable to the shelf or the bottom of the process disposable to the shelf or the bottom of the process disposable to the shelf or the bottom of the process disposable to the shelf or the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the process disposable to the shelf of the bottom of the proces disposable to the shelf of the bottom of the pro
- For a 30 mL process disposable, complete the following steps: a. Draw 4 mL of ACD-A (Anticoagulant Citrate Dextrose Solution A) into a blood draw syringe
 - b. Insert the blood draw syrings into the while port on the process disposable to transfer 1 mL 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 syrings to use during the blood collection.
- ie, complete the follo 4. For a 60 mL process di spos ing steps:

 - a. Draw 8 mL of ACD-A into a blood draw syringe.
 b. Insert the blood draw syringe into the white port on the process disposable to transfer 2 mL of the ACD-A into the plasma chamber, using the method shown in the figure below. 6 mL of ACD-A remain in the blood draw syringe for use during the blood collection.



Figure 2: Transferring ACD-A into the plasma chamber

PREPARATION OF THE VENIPUNCTURE SITE

enipuncture site for blood collection. Supplies r g th

- Safety winged infusion set
- start pack or another appropriate venous access that is 20 G or larger (the IV start pack is not provided in kits the tain a letter "I" in the catalog descriptor) •
- Red clamp



Caution: 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.

Note: Select a large peripheral vein that is free of lesions, such as the antecubital (cephalic) vein. A central venous line can also be used.

- Apply a tourniquet or a blood pressure cuff to the patient's arm, and identify the venipuncture site.
- 2. Complete the following steps to disinfect the intended venipuncture site:
 - vard in a circu
 - Composition to commission and a strategies of provide the strategies of the strat
- Perform the venipuncture
- 4. Once intravenous access is confirmed, clamp the intravenous tubing using the red clamp provided, and secure the needle and tubing to the skin.

DRAWING PATIENT BLOOD Draw the patient's blood prior to starting the procedure and before administering any fluids, particu arly system

- e blood draw syringe to the safety winged infusion set (or other appropriate venous access). Connect th
- Release the red clamp on the intravenous tubing. 2.
- Draw blood from the patient, as shown in the figure below, at a continuous rate that minimizes excessive pressures; typically no taster than 1 mit, per second. For the 30 mit process disposable, ill the blood draw wing with 27 mit. of blood. For the 60 mit. process disposable, fill the blood draw syning with 54 mit. of blood.



4. Close the red clamp on the intravenous tubing, and disconnect the blood draw syringe

Re e the tourniquet or blood pr ire ci

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: Using excessive force could activate platelets and hemolyze red blood cells utie

Invert the blood draw syringe several times to ensure adequate mixing of the blood ar there is a bubble in the syringe. nd antic

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- ution: Inadequate mixing may cause the blood to clot in the syringe and could result in suboptimal proc С
- Attach a blunt plastic cannula to the blood fraw syringe. Insert the blood draw syringe into the red port on the process dispose the contents into the blood chamber at approximately 1 mL per secon avoid disidiging the red port: ble, as shown in the figure b d. Do not overfill the process
 - · Make sure the needle is centered in and perpendicular to the port.
 - Do not push down on the port or use excessive force when either dispensing the blood



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

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

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



Figure 5: Process in the centrifuge (1

- 1. White dot: Aids in alignment of process disposable when placed in the centrifuge
- 2. White port: Align with white dot on centrifuge rotor
- Ensure that the process disposable is properly seated and aligned
- 6.
- 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 time is approximately 14 mi

8. When the processing cycle is complete, press the LID button to open the lid.

Caution: After processing on the SmartPrep* Centrifuge System, make sure the process disposable is properly supported in an upright position. Tilling or lipping it could cause fluids to spill from one chamber into another and processing results.
 Carefully remove the process disposable and keep it in an upright position when handling, as shown in the figu-balow.





NAL VOLUME OF PRP IN THE PROCESS DISPOSABLE volume of PRP (platelet-rich plasma) in the process disposable by syringe. The spacers determine the volume of platelet-poor plasm s you begin withdrawing platelet poor plasma from the plasma cha termine how many spacers to remove to achieve a final volume of removing a syringe/cannula na that is withdrawn from the amber, use the information in PRP in the appropriate proc acer from the plasm sma chamber. Befo following table to d a syringe. Th re you begin

	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	
	4.6	7 ml	

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Caution: Always fol disposable chamber contamination. ow aseptic technique when entering a sterile container; wipe all ACD-A access sit access sites (white and red ports) with an alcohol pad prior to entry, to maintain s

- Complete the follo ring steps to withdra w the platelet-poor plasma
- 1. 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 th 2.
- З.
- e pl 4. Remove the plasma syringe from the white port on the process disposable
- Dis cover ed plate et-poor plasn a or transfer it to the ster le field, if n



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



Figure 8: Removing the sp from the plasma syringe

RESUSPENDING THE PLATELETS Complete the following steps to prepare p

Withdraw the remaining platelet-poor plasma into the platelet concentrate syringe with a blunt cannula and no space 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.



Figure 9: Gently injecting and withdrawing the fluid

- Once the cells are sus ume into the plate let concentrate syringe
- Observe the base and v concentrate syringe. nfirm that all cells have b mber to co IIs of the pla
- le luer lock con Connect the female-fem ctor to the plate let c trate syring
- 6. Connect a sterile syringe to the other end of the female-female luer lock connector and transfer the PRP to the str field.

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ed biohazardous was titution's standard ope psables that have come in contact with blood should be consider sposed of in accordance with applicable regulations and your inst te and shou erating proc on: Dispo d and di

- HYDRATING THE GRAFT MATERIAL 1. Create a mixture of 1000 IU Thrombin in 10% Calcium Chloride
- spirate the requ uired amoun nt of PRP in a sy 2. ring
- In a separate syringe, aspirate the required mount of 1000 IU Thrombin/10% Calcium Chloride to achie of PRP to 1000 IU Thrombin/10% Calcium Chloride. З. ve a 10:1 ratio
- 4. With the two syringes, saturate the graft material using a graft mixing/hydration kit. The graft is ready for application

STORAGE CONDITIONS Long-term Storage Range: 15°C to 25°C (59°F to 77°F)

LATEX AND PYROGEN STATEMENTS This product is not made with natural rubber latex. The fluid pathwa ys are non-pyroge

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

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

Please contact y our local representative for information regarding returned goods and product complaints

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					