

ACP Max™ Platelet-Rich Plasma System

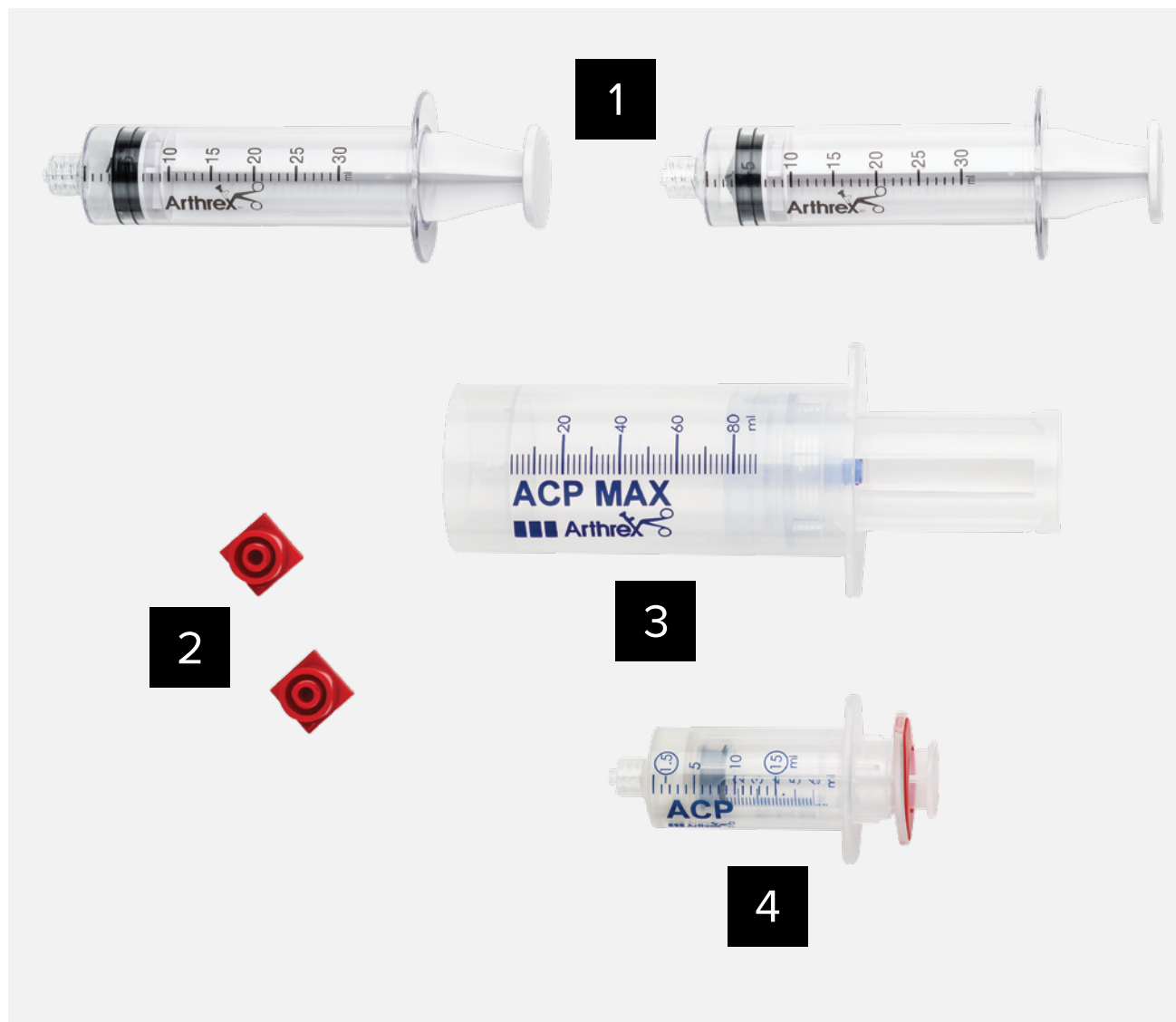
Surgical Technique



Arthrex® 

ACP Max™ Platelet-Rich Plasma (PRP) System

ACP Max™ Kit Components

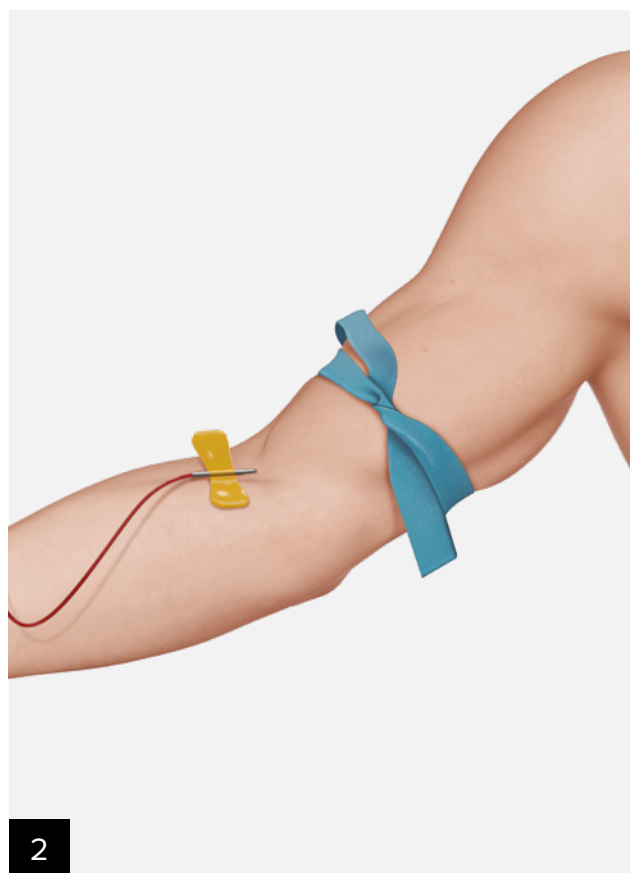


Pic.	Qty.	Description
1	2	Syringe, 30 mL, for PPP withdrawal
2	2	Luer caps, red
3	1	ACP Max™ syringe
4	1	Arthrex ACP® double syringe

Preparation of Blood Draw Supplies



Open ACP Max kit and remove the tray set from the box. Remove the ACP Max syringe and express the air out of the syringe by depressing the syringe guide. Seat the ACP Max syringe on the red cap of the tray and turn clockwise to cap. Set the capped ACP Max syringe aside.



Using a 20 ga hypodermic needle, withdraw the appropriate volume of anticoagulant citrate dextrose solution A (ACD-A) into one of the provided blood draw syringes. The ratio of ACD-A to whole blood is 1:7, or 4 mL in every 30 mL blood draw. Using the standard phlebotomy protocol, withdraw 30 mL of blood from the antecubital region of the contralateral arm to the injection site. Using the same withdraw cannula, repeat the process until the appropriate final volume of whole blood has been collected in the ACP Max syringe.

Blood volume	Total ACD-A volume
30 mL	4 mL
60 mL	8 mL
90 mL	12 mL



3

Connect the syringe containing whole blood to the blue needleless valve inside the ACP Max syringe.



4

Slowly fill the ACP Max syringe with the whole blood.



5

Remove the whole blood syringe from the ACP Max syringe. Next, remove the syringe guide by turning counterclockwise. Set the syringe guide aside for later use.



6

Open centrifuge lid. Place the ACP Max syringe into the centrifuge bucket.



7

Using tap water, fill the ACP Max counterweight from the distal end to a volume equal to the ACP Max syringe. Ensure that the ACP Max counterweight is placed opposite to the ACP Max syringe within the centrifuge rotor. Set the centrifuge to the appropriate speed and time for processing volume. Begin centrifugation.

Spin Regimes

- The ACP Max system creates an output with a high concentration of platelets by using 2 spin cycles
- Spin time of the first spin is variable depending on spin volume
- Speed (rpm) is constant for all volumes but changes between the first and second spins

First Spin

Blood volume	Speed	Time
30 mL	3200 rpm	3 min
60 mL	3200 rpm	6 min
90 mL	3200 rpm	9 min

Second Spin

Blood volume	Speed	Time
15 mL	1500 rpm	5 min

Note: Ensure centrifuge brake is off.



8

When the centrifugation spin is complete, remove the ACP Max syringe from centrifuge and place on a flat surface.

Note: Carefully handle the syringe to avoid mixing the centrifuged sample.



9

Reattach syringe guide on the ACP Max syringe by turning the syringe guide clockwise. Attach the 30 mL syringe(s) provided to the ACP Max syringe to withdraw the platelet-poor plasma (PPP).



10

Withdraw the PPP until the ACP Max plunger is 2 gradations above the red blood cell interface. Discard PPP.



11

Seat the Arthrex ACP double syringe to the ACP Max syringe.



12

Fill the Arthrex ACP double syringe to 15 mL by firmly holding the ACP Max syringe and pulling back on the red tabs of the Arthrex ACP double syringe.

13

Remove ACP double syringe from the ACP Max syringe and cap with the remaining red cap.

Mix sample by gently inverting the Arthrex ACP double syringe for 15 seconds.



14

Place the Arthrex ACP double syringe in the centrifuge.



15

Ensure the appropriate counterweight and bucket spacers are in place.



16

Close the lid of the centrifuge and set to 1500 rpm for 5 minutes. Begin centrifugation.



17

Carefully remove the Arthrex ACP double syringe from the centrifuge to avoid mixing of the sample.



18

Transfer the PRP from the lower syringe into the upper syringe by carefully depressing the red wings of the Arthrex ACP double syringe.

Note: Ensure collection of only the PRP layer.



19

Collect final PRP output.

Ordering Information

ACP Max™ Platelet-Rich Plasma

Product description	Item number
ACP Max™ PRP system	ABS-10013-B
ACP Max™ counterbalance	ABS-10017
ACD-A	SAAV222.G00
Counterbalance, for Arthrex ACP® double syringe	ABS-10027

Drucker Horizon Centrifuge

Product description	Item number
Drucker Horizon 24 Flex-AH	00389-129-000K
Bucket	03-1-0001-0123HK
Bucket spacer, for Arthrex ACP® double syringe	03-1-0001-0098K

Hettich Rotofix Centrifuge

Product description	Item number
Hettich Rotofix 32A, swing-out rotor, 220V	1206-ART
Hettich Rotofix 32A, swing-out rotor, 110V	1206-01-ART
Hettich ACP Max™ bucket	1490
Hettich ACP bucket	1491-2
Screw cap, for Hettich bucket	1492-2

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For information on availability, please contact Arthrex Customer Service or your local Arthrex representative.

Notes



This description of technique is provided as an educational tool and clinical aid to assist properly licensed medical professionals in the usage of specific Arthrex products. As part of this professional usage, the medical professional must use their professional judgment in making any final determinations in product usage and technique. In doing so, the medical professional should rely on their own training and experience and should conduct a thorough review of pertinent medical literature and the product's directions for use. Postoperative management is patient-specific and dependent on the treating professional's assessment. Individual results will vary and not all patients will experience the same postoperative activity level or outcomes.

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