

AutoCart™ Technique

Single-Stage Articular Cartilage Repair Quick Guide



Draw 45 cc venous blood using 3 Arthrex ACP® double syringes, then centrifuge. Decant the platelet-rich plasma (PRP) into the internal syringe and transfer all PRP into the sterile field.



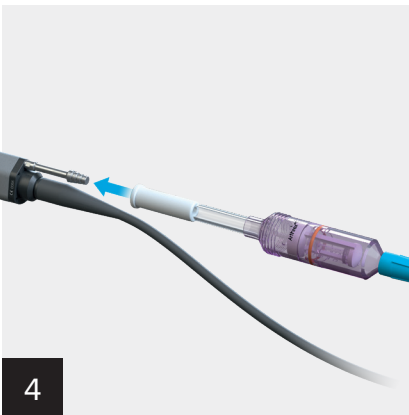
Transfer 4 cc PRP to the Thrombinator™ device using the “inject” port.

Note: If using ACD-A, add 0.1 mL calcium chloride (CaCl).

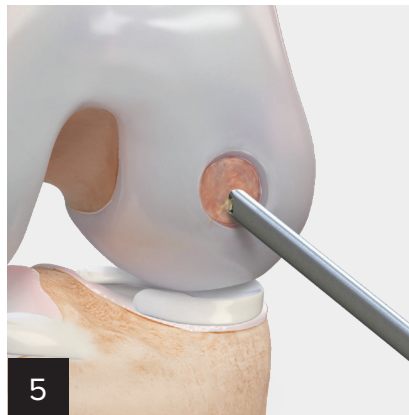


Lay the device flat for 15 to 20 minutes or until signs of gelling occur.

Note: The clot can remain in this step for up to 4 hours.



Mount the GraftNet™ tissue collector between the shaver handpiece and suction tubing.



Harvest osteochondral fragments from around the lesion border. Alternatively, resect healthy osteochondral fragments from a nonarticulating harvest site.



Separate the GraftNet device from the shaver and remove the plunger.



7
Introduce tissue collected with the GraftNet™ device and BioCartilage® extracellular matrix (ECM) into the mixing and delivery syringe at a 1:1 ratio. Add PRP to the syringe in a 1:0.8 ratio and mix thoroughly.

Note: Use ratio of 1:1:0.8 (BioCartilage matrix to GraftNet tissue to autologous conditioned plasma).



8
After initial gelling, break up the clot by shaking the device. Add an additional 8 cc PRP through the "inject" port and allow the device to gel for 1 to 2 minutes.

Note: If using ACD-A, add 0.2 mL CaCl.

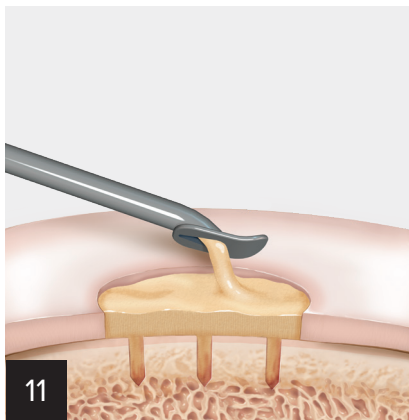


9
After secondary gelling, break up the clot and allow the device to set for 1 to 2 minutes. Break up this third clot and withdraw the prepared thrombin serum.

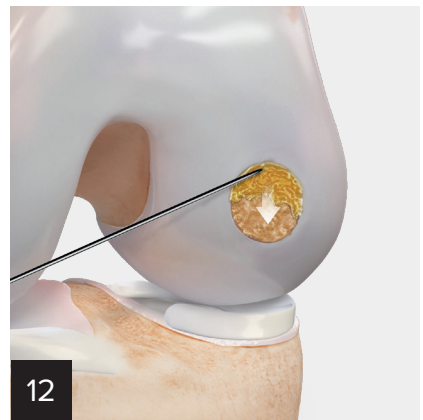
Note: Use the serum within 15 minutes of withdrawal.



10
After ensuring the defect is dry and prepared, use the delivery needle to deliver the AutoCart™ graft to the lesion.



11
Smooth out the graft using the ArthroPaddle™ feature of the delivery device, taking care not to overfill the defect.



12
Using the 1:1 applicator, deliver a thin layer of PRP and the prepared thrombin serum over top of the AutoCart graft.