



Carpal-Metacarpal (CMC) Arthroplasty

Anatomic Thumb Ligament Arthroplasty System: ATLAS™ Kit

Surgical Technique Guide

This surgical technique guide was designed in conjunction with Noah Weiss, M.D.

Carpal-Metacarpal (CMC) Arthroplasty *ATLAS Kit*



step 1

An incision is made over the dorsoradial base of the thumb, over the trapezium.



step 2

Expose the trapezium, elevate and protect the surrounding soft tissues, remove the trapezium (either piecemeal or with the trapezium removal tool 11330).



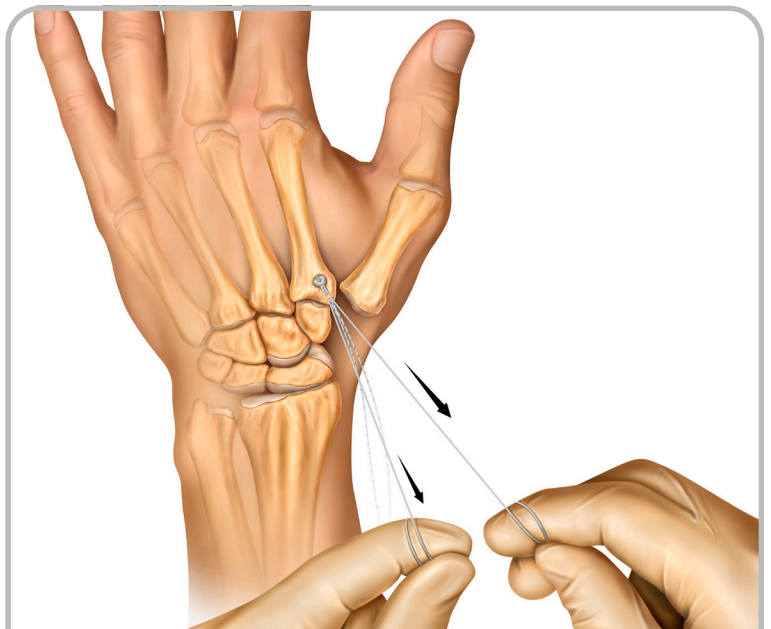
step 3

Use the oblique drill guide (10823) to drill the proximal metacarpal at an angle, with care taken not to penetrate the far cortex. Confirm position of the drill with fluoroscan.



step 4

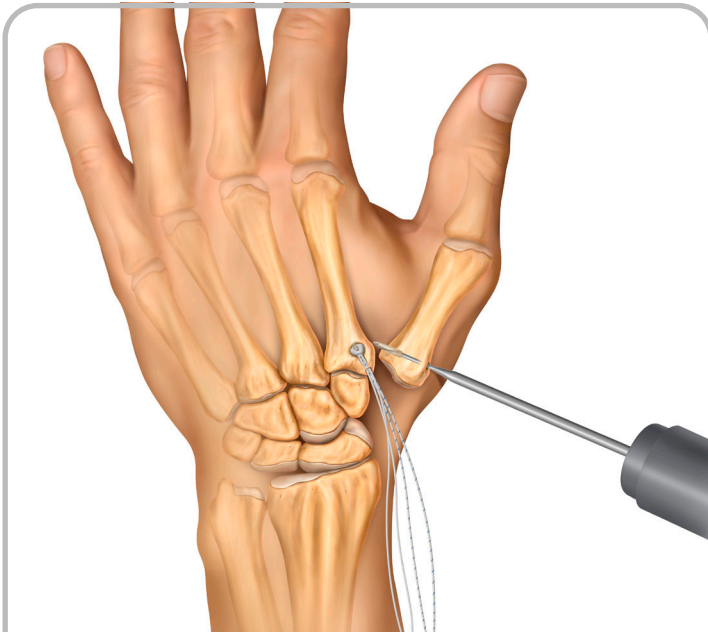
Leave the drill guide in place and insert the 1.8mm Draw Tight suture-based anchor. Mallet the suture anchor through the drill guide to the positive stop on the implant handle. Release the sutures from the implant handle.



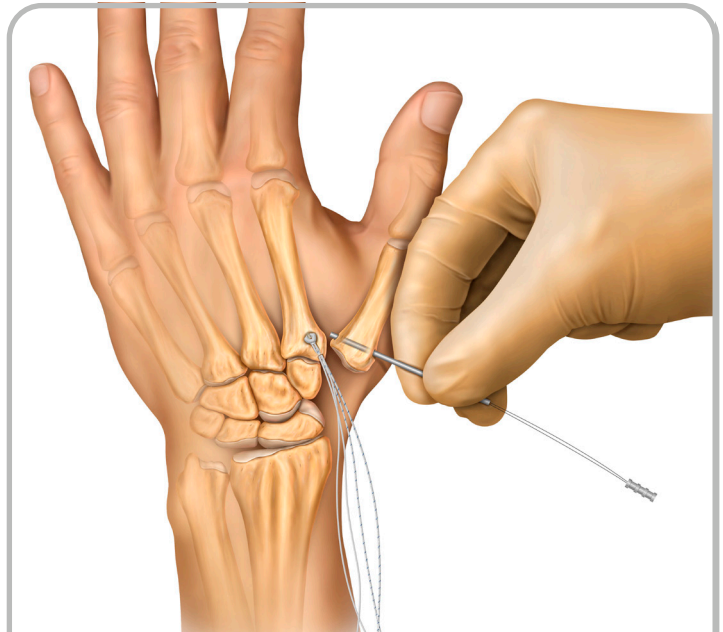
step 5

The drill guide and implant handle may be removed. Identify the all-white sutures. Deploy the implant by pulling one of the white sutures until solid resistance is felt. Pull the second white suture in the same fashion to secure the anchor in bone for initial deployment. Following deployment, drop the white sutures and pull the blue and white striped sliding sutures to confirm fixation. Alternatively, the implant handle may be left in the socket (after the sutures have been freed from the handle). The all-white sutures are pulled one at a time until solid resistance to the movement of the suture is felt. Then the blue and white striped sliding sutures may be pulled to confirm implant fixation.

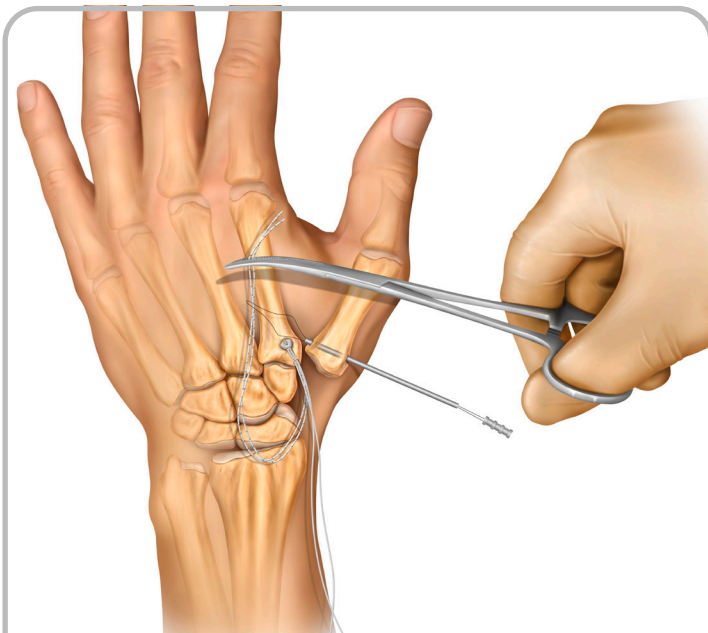
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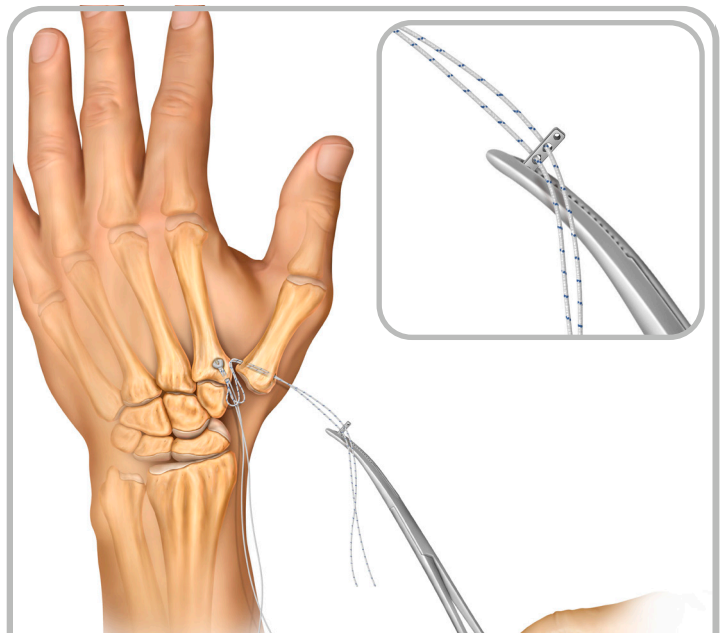
step 6 Identify the radial base of the thumb metacarpal and drill across it, making sure the thumb metacarpal is properly rotated. Confirm drill placement with fluroscan.



step 7 Pull back on the passer tab to retract the suture passer loop. The metal passing tube is then passed through the thumb metacarpal drill hole. Advance the tab to expand the suture passer loop.

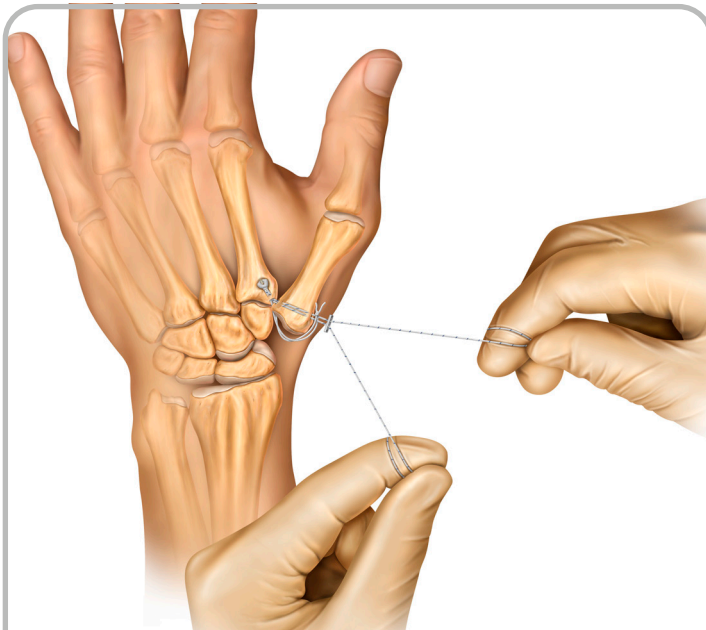


step 8 Pass the suture retriever through the thumb metacarpal, retrieve the blue and white striped sutures, and pull through the thumb metacarpal tunnel.



step 9 Holding the GFS Naked Micro Button with a curved clamp, pass the blue and white striped suture tails through the larger center holes of the button.

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step 10

Pass the two white sutures under the base of the thumb metacarpal, around the blue and white striped sutures and under the button. Then loosely tie the white sutures. Hold the thumb at the appropriate level of distraction, so that the base of the thumb metacarpal is level with the index metacarpal. The blue and white striped sutures should be tied securely over the button. Take care not to over-distract the thumb metacarpal during this process, as the optimal thumb metacarpal position will naturally be achieved as the sutures are securely tied.



step 11

Ensure that the two white sutures pass under the thumb metacarpal as a suspension. Tie the two white sutures securely around the blue and white striped sutures. Cut all suture tails and confirm implant positioning with fluroscan imaging.

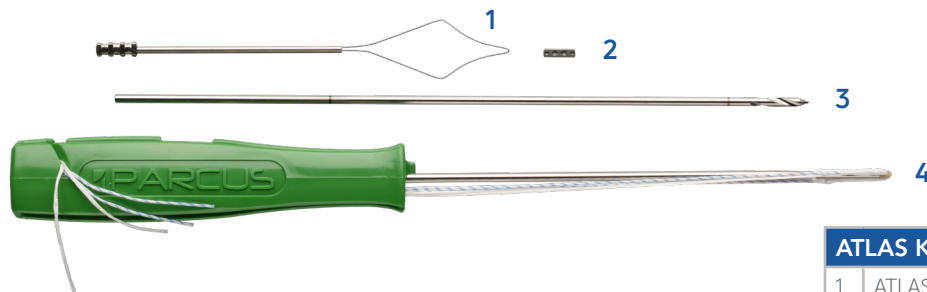
The Anatomic Thumb Ligament Arthroplasty System (ATLAS) is an anatomic thumb carpal-metacarpal (CMC) reconstruction procedure. This procedure corrects thumb CMC instability and provides rapid return to function by placing stable suture-based anchor fixation at the anatomic insertion site of the thumb basal ligament.

ATLAS Kit

Part #	Description
11200	ATLAS Kit

ATLAS Instrumentation

Part #	Description	Sterile/Non-sterile	Single-use/Reusable
10823	8-point slotted drill guide, w/beaver tail handle	Non-sterile	Reusable
11330	Trapezium removal tool	Non-sterile	Reusable



Parcus has joined Anika

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ATLAS Kit Components

1	ATLAS Suture Passer
2	2mm x 8mm GFS Naked Micro Button
3	Draw Tight Drill Bit
4	1.8mm Draw Tight