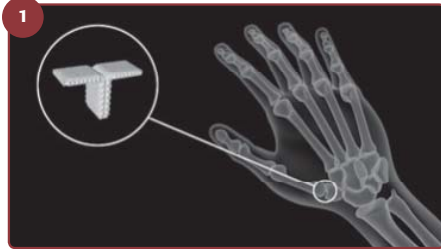


# Artelon<sup>®</sup> CMC Spacer

## Surgical procedure



# Artelon® CMC Spacer Surgical Procedure



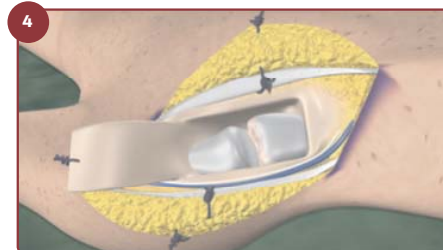
Artelon® CMC Spacer is intended to be implanted into the first carpometacarpal joint (CMC-I) as an interpositional spacer between the trapezial bone and the first metacarpal bone.



Soak the Artelon® CMC Spacer in sterile saline for at least 5 minutes before use.



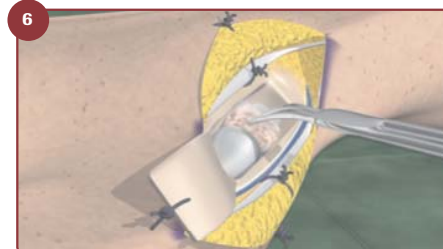
Open the CMC-I joint with a dorsal incision.



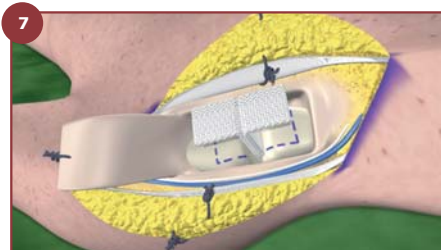
Dissect a periosteal flap from the trapezial bone including the joint capsule. Extend the flap to a total length of 1-2 cm. The illustration shows the flap being dissected in the distal direction, but a proximally based flap may be used as an alternative.



Resect the distal joint surface along with 1-2 mm of the subchondral bone on the articular surface of the trapezial bone. Leave the articular surface of the metacarpal bone intact. Note: It is essential to create a bleeding surface on the trapezial bone but to keep an intact surface on the metacarpal bone in order to create a new joint surface to articulate against.



Remove osteophytes from the joint lines.



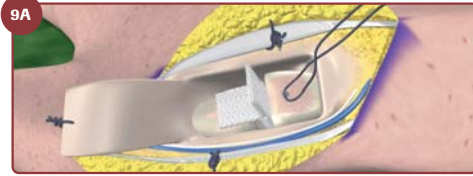
Mark the position of the wings.



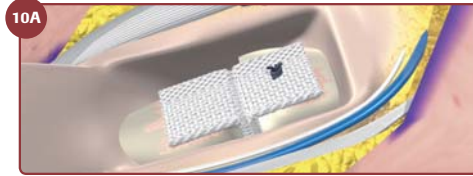
Flatten the cortical bone in the marked area with a burr to create a bleeding surface. **Note: Remove only enough cortical bone to achieve a bleeding surface.**

## A. Fixation with suture anchors

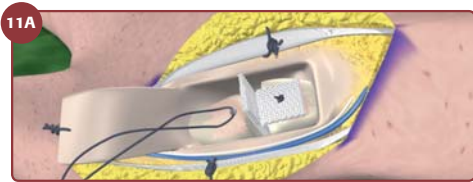
- If resorbable anchors are used, be sure that the anchor material will not degrade in less than 6 months.
- Do not use resorbable sutures to secure the wings.



Center and deploy the suture anchor in the area beneath the wing of the spacer in the trapezial bone. Position the pre-soaked spacer in the joint. If necessary, the wings and interpositional spacer portion can be shortened by cutting at a 90 degree angle.



While pressing the interposition portion of the spacer against the bleeding surface of the trapezial bone, securely suture through the middle of the wing, so that the wing fits firmly against the dorsal surface.



Center and deploy a second suture anchor beneath the area of the spacer in the metacarpal bone. Fix the thumb dorsally; align the dorsal surface of the metacarpal and trapezial bones. Securely suture through the middle of the wing so that the wing fits firmly against the dorsal surface. Reposition any subluxation of the joint.

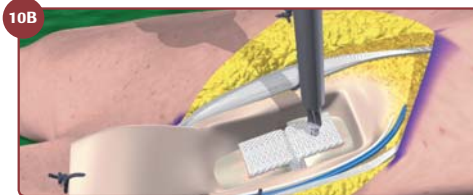


Reattach the periosteal flap. Close the skin.

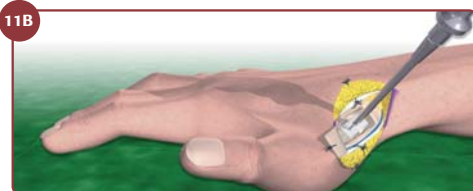
## B. Fixation with screws



Position the pre-soaked spacer into the joint. If necessary, the wings and interpositional spacer portion can be shortened by cutting at a 90 degree angle. Use a sharp drill to create a pilot hole through the centre of the wing over the trapezium. Be sure to penetrate the volar cortical bone.



Measure the depth for accurate choice of screw length. Use self-tapping titanium screws. Tighten the screw.



Fix the thumb dorsally; align the dorsal surface of the metacarpal and trapezial bones. Attach the wing on the metacarpal side, by drilling, measuring and tightening the screw into the metacarpal bone. Reposition any subluxation of the joint.



Make sure that stable bicortical fixation has been achieved. Suture the periosteal flap and close the skin.

## Immobilization



To avoid problems with the annular ligament it is important to keep the load exerted on the spacer to a minimum and to ensure that the MCP joint is not in hyperextension. Place a roll of wadding in the hand to keep the thumb in 10 degree flexion and immobilize the thumb at a 30 degree volar and radial abduction using a cast.

The cast must be changed and the stitches can be removed after 2-3 weeks. Cast with the IP joint free for the next 2-3 weeks. The total cast time must be at least 5 weeks.

# Artelon<sup>®</sup> CMC Spacer



## Retain anatomy, regain functionality

Arthritis is among the most frequently occurring chronic conditions and osteoarthritis (OA) is its most common form. It is a major cause of work disability and reduced quality of life. Artimplant provides unique solutions that every year bring relief from pain to thousands of OA patients, helping them regain strength and functionality.

- Preserves an intact anatomy
- Stabilizes the joint
- Utilizes the body's ability to form a new functional surface
- Fast and easy surgical procedure
- Restores functionality

### Note

The information contained in this folder is consistent with the package insert on the date the folder was printed. However, the package insert may have been revised after that date. To obtain a valid package insert, please contact us.

### Other resurfacing solutions

Artelon<sup>®</sup> CMC Spacer is part of Artimplant's resurfacing concept aimed at treatment of osteoarthritis at an early stage. Additional products are available for other joints in the hand and foot. Please visit our website or contact us for more information.

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### Ordering information

Art. No. 21009 Artelon<sup>®</sup> CMC Spacer  
Art. No. 21006 Artelon<sup>®</sup> CMC Spacer LG  
Contact: [order@artimplant.com](mailto:order@artimplant.com)