

SET
TO
HEAL



NiTi Hand CAC™ 30 Compression Anastomosis Clip

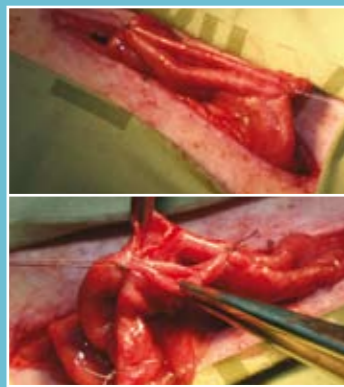
An advancement in anastomotic outcomes with
secure, seamless Compression Anastomosis

NiTi Hand CAC™ 30

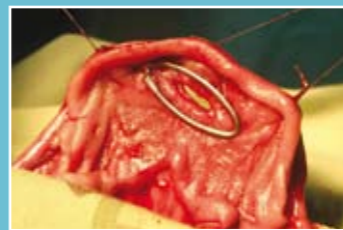
Compression Anastomosis Clip is designed to set healing in motion and secure better outcomes.

NiTi Hand CAC™ 30 brings efficacy and security to Compression Anastomosis. No implantable elements are left behind and the anastomosis is virtually seamless.

Here's how it works



1. Prior to conducting the anastomosis, the intestine ends are placed in a side-to-side position and stitched. Two small enterotomies are created, one at each intestine end, enabling placement of the clip.



5. The applier lever is pressed one last time, thereby releasing the clip from the applier and enabling the applier to be withdrawn.



2. Prior to setting the clip in the anastomotic area, the applier lever is pressed, opening the clip to a gap that accommodates various levels of tissue thickness.



6. The two small enterotomies (see #1) are hand-sewn to complete the anastomosis.



3. When placed in the intestine lumen, the applier lever is pressed again, and the clip closes trapping tissue at both intestine ends. Throughout the healing process, the Nitinol clip adapts to tissue thickness variances, while still exerting the same force range.



7. During the healing period, the tissue compressed within the clip perimeter becomes necrotic, while content continues to pass through the slit. At the same time, the natural healing process generates healthy tissue along the clip's outer perimeter, thereby providing secure new tissue.



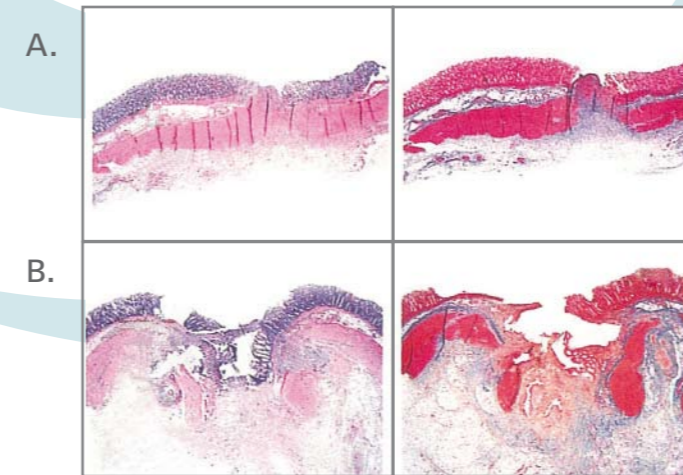
4. After the clip is closed, the applier lever is pressed again to create a slit in the center of the clip, which reopens the intestine for content passage.



8. The clip (and the necrotic tissue within it) detach within two weeks, safely pass through the digestive tract and are expelled. The natural lumen size is preserved over time, and there is no anastomotic lip, leaving a flexible anastomotic area with no foreign bodies in the anastomosis line.

Important factors in improving anastomotic outcomes

Full Recovery natural tissue structure



A. Histology (left: HE Staining; right: Masson Trichrome Staining) of Hand CAC™ 30 Compression Anastomosis Clip shows smooth anastomotic healing and full adaptation of tissue layers (full recovery of the multicapsular natural tissue structure).

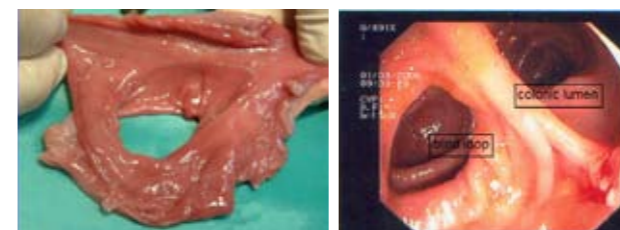
B. Histology (left: HE Staining; right: Masson Trichrome Staining) of surgical staples shows inconsistent anastomotic line.



C. Additional histology of Hand CAC™ 30 Compression Anastomosis Clip in which full adaptation of tissue layers is demonstrated.

Create seamless anastomotic line

In contrast to stapling, NiTi Hand CAC™ 30 shows a seamless anastomotic line with no evidence of ulceration or fibrosis.



NiTi Hand CAC™ 30

Compression

Anastomosis Clip with Nitinol Technology



- 1 The Nitinol clip opened to a gap that can accommodate various levels of tissue thickness



- 2 The Nitinol clip closed after the healing process has been completed

The controlled compression afforded by the Nitinol in the NiTi Hand CAC™ 30 creates an ideal environment to join tissue together in a uniform manner to stimulate healing.

Nitinol, a metal alloy of nickel and titanium, is shaped under high temperatures. It can be stretched far beyond the limits of other materials such as steel. And unlike steel it fully recovers to its original shape.

During the healing period, the tissue that is compressed within the clip becomes necrotic. At the same time, the natural healing process generates healthy tissue along the clip's outer perimeter to provide secure new connections. The necrotic tissue and the clip detach within two weeks, safely pass through the digestive tract and are expelled. The natural lumen size is preserved and there is no anastomotic lip.

Features

- Shortened lag phase
- Seamless circumferential seal
- Exclusive Nitinol clip
- No anastomotic scarred lip inside the lumen
- Clip is completely expelled
- Undetectable anastomotic line

Potential Benefits

- Accelerated healing
- Reduced anastomotic leakage, bleeding, and adhesions
- Accommodates varying tissue thicknesses
- Reduced potential for strictures
- No implantable element left in the patient at the anastomosis site
- Recovery of natural tissue multi-layer structure

Applicable Procedures

The Hand CAC™ 30 may be used to form Side-to-Side anastomoses in the following surgical procedures: Distal Gastrectomy, Closure of Ileostomy, Roux-en-Y, Small Bowel to Small Bowel anastomosis, Right Hemi-Colectomy, Left Colectomy, Closure of Colostomy.



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