

# Dynamic Tissue Systems®



[www.dynamictissuesystems.com](http://www.dynamictissuesystems.com)

# Dynamic Tissue Systems® Solutions

Open wounds impose serious clinical consequences

Dynamic Wound  
Closure

Retraction  
Prevention

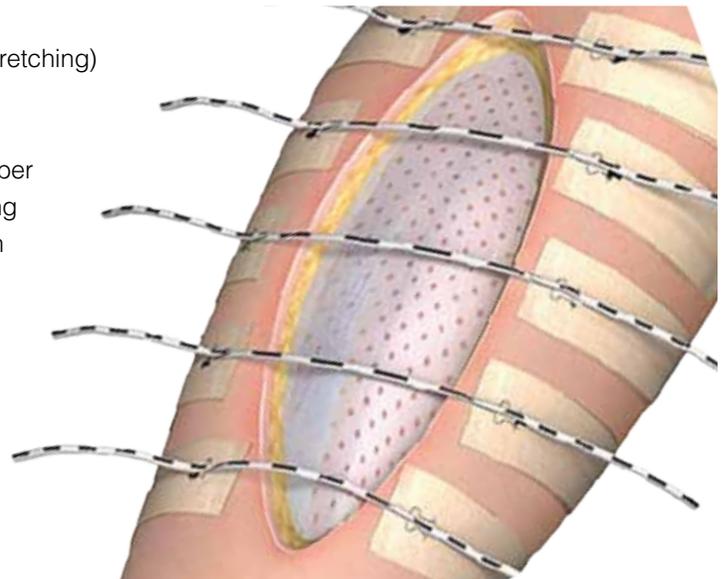
Tissue Support  
and Expansion

## Dynamic Action

Gentle, unrelenting dynamic appositional forces (cyclic stretching) counters the retracting forces that keep wounds open.

How? Cyclic stretching of tissue facilitates collagen fiber rotation, increasing skin coverage.<sup>1</sup> Chronic cyclic stretching leads to constructive remodeling including tissue generation and adaptation.

Unlike static devices, dynamic therapeutic tension rapidly addresses the challenge of the retracted, stable wound. Therapeutic tension addresses the inertia required to return wound edges back to their original position for delayed primary closure.



## Retracted Wounds

Open wounds retract laterally due to the inherent mechanical properties of tissue, increasing the degree of difficulty and time to definitive closure. A longstanding retracted open wound is not necessarily a permanent defect.

Dynamic Tissue Systems return tissue back to its closed system state with normal functional tension.

1. Johnson, TM, Lowe, L, Brown, MD, Sullivan, MJ, & Nelson, BR. Histology and physiology of tissue expansion. The Journal of dermatologic surgery and oncology. 1993; 19(12):1074-1078.

# ABRO™ Abdominal External

Early primary fascial closure provides a better outcome

## Indications for Use:

- Support and stabilize the abdominal wall
- Prevent loss of domain
- Prevent abdominal fascia damage
- Prevent lateral retraction of abdominal wall fascia
- Facilitate primary closure of abdominal wall fascia

## Open Abdominal Wounds

ABRO™ Abdominal “EXTERNAL” System facilitates early fascial closure of mid-line abdominal defects.

Application of the ABRO™ System prevents lateralization of the fascial margin by engaging the abdominal wall muscles and applying a gentle, unrelenting dynamic appositional force. ABRO™ gradually reapproximates the fascial edges preventing damage to the skin and abdominal wall fascia. It is beneficial for primary fascial closure.

Closure of the abdominal wall fascia restores normal physiology, which in certain cases has been shown to reduce length of stay, short term morbidity risks and future healthcare costs.

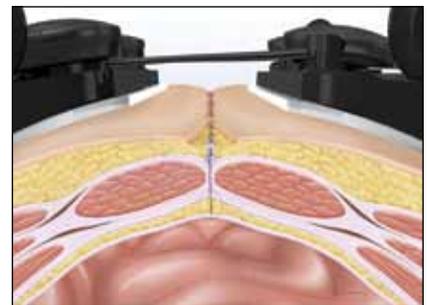
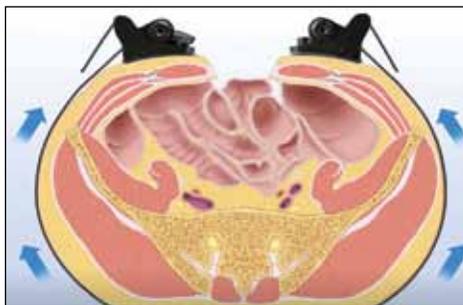
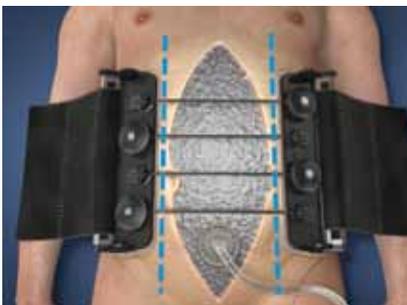


CWK10 ABRO™ Abdominal External

2x Rectus Muscle Splint (RMS)

1x Circumferential Dynamic Retainer (CDR)

## Results at a Glance



# ABRA<sup>®</sup> Abdominal

Designed to facilitate primary closure

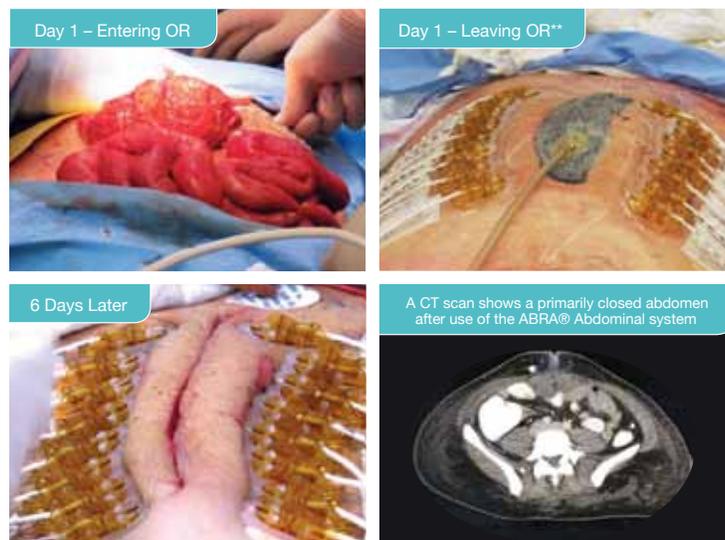
## Open Abdominal Wounds

ABRA Abdominal allows for the option of primary closure for retracted, mid-line abdominal defects.

Installation of the ABRA System pulls muscle planes and skin together from their lateral retracted state with relentless dynamic appositional traction, leaving the leading edge of the wound margins undisturbed when performing definitive primary closure.

An abdominal wound closure restores normal physiology, which in certain cases has been shown to reduce length of stay, short-term morbidity risks, and future healthcare costs.<sup>1</sup>

### Results at a Glance\*

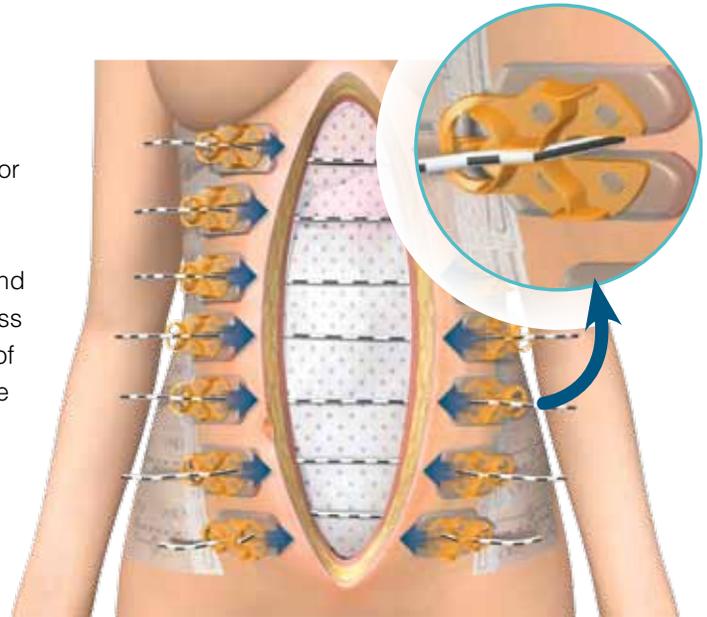


\* This case contains the opinions of and personal techniques practiced by the treating physician. The techniques presented herein are for informational purposes only. The decision of which techniques to use in a particular clinical application lies with the physician based on patient profile, particular circumstances surrounding the procedure, and previous clinical experiences.

\*\* ABRA Abdominal is not specifically cleared for concomitant use with Negative Pressure Wound Therapy. NPWT is used with ABRA Abdominal only if clinician independently decides to utilize it.

<sup>1</sup> Cinelli SM, Casey MJ, Kuhls DA, Browder TD, Coates JE, Fildes JJ. Early Primary Closure of Open Abdominal Wounds Using the Abdominal Reapproximation Anchor (ABRA®) System. University of Nevada School of Medicine, Division of Trauma and Critical Care, University Medical Center of Southern Nevada, Las Vegas, NV. Poster session presented at the Southwestern Surgical Congress, Coronado, CA; March, 2009.

\*\*\* Can be purchased separately



### CWK08 ABRA Abdominal Wall Closure Set

<b>PACK</b>	10 packs/set
1. Button Tails (2/pack)	
2. Button Anchors (2/pack)	
3. 50 cm Silicone Elastomer (1/pack)	
<b>SurgiFish</b>	1/set
<b>13-hole Elastomer Retainer Cannulator (SWC01)***</b>	1/set
<b>Southmedic Surgical Retainer (Large)(CWKSR-L)***</b>	1/set
<b>Button Tails (For Post-Operative Care)</b>	40/set

### CWK-EX ABRA Abdominal Wall Closure Set Extension

<b>PACK</b>	3 packs/set
1. Button Tails (2/pack)	
2. Button Anchors (2/pack)	
3. 50 cm Silicone Elastomer (1/pack)	
<b>Southmedic Surgical Retainer (Small)(CWKSR-S)</b>	1/set

### CWK-H ABRA Abdominal Wall Closure Set Extension

<b>PACK</b>	10 packs/set
1. Button Tails (2/pack)	
2. Button Anchors (2/pack)	
3. 50 cm Silicone Elastomer (1/pack)	
<b>Cannulator (SWC01)***</b>	1/set

### CWK-3 ABRA Abdominal Wall Closure Set

<b>PACK</b>	3 packs/set
1. Button Tails (2/pack)	
2. Button Anchors (2/pack)	
3. 50 cm Silicone Elastomer (1/pack)	

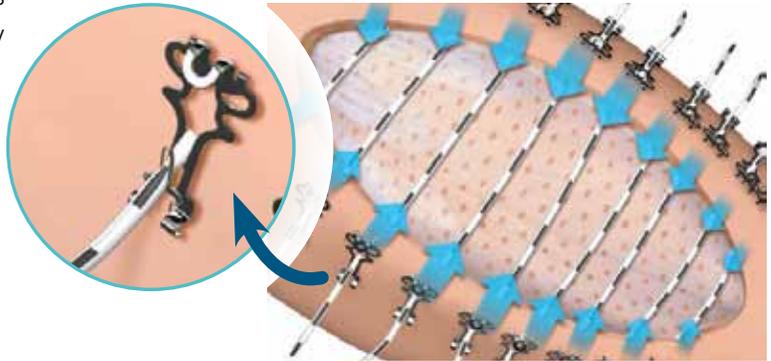
# ABRA<sup>®</sup> Surgical

An open wound means higher healthcare costs

## Subcutaneous Traction for Open Wounds

ABRA Surgical closes retracted skin defects through chronic cyclic tension. A sound primary closure replaces skin grafting and the associated rehabilitation, pain, and loss of function.

ABRA Surgical is indicated for use in preventing, controlling, reducing, and closing retracted soft tissue defects.



### Results at a Glance\*



ABRA<sup>®</sup> Surgical works subcutaneously for added traction, as used for this fasciotomy.

### CWK02A ABRA Surgical Skin Closure Set

<b>PACK</b>	10 packs/set
1. Skin Anchors (2/pack)	
2. 50 cm Silicone Elastomer (1/pack)	
<b>Loop Cannulator (SWC02)**</b>	2/set
<b>Lancets</b>	3/set

\*\* Can be purchased separately

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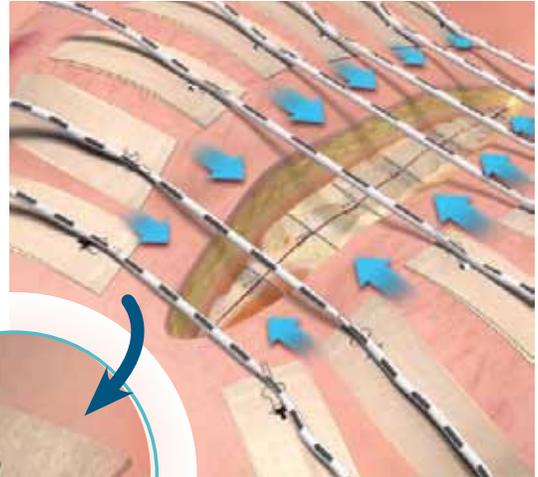
# ABRA<sup>®</sup> Adhesive

Timely healing of surgical wounds is essential to care

## Topical Atraumatic Traction for Open Wounds

ABRA Adhesive provides non-invasive closure of retracted skin defects. A sound primary closure replaces skin grafting and the associated rehabilitation, pain, and loss of function.

ABRA Adhesive is indicated for use in controlling, reducing, or closing retracted soft tissue defects. Application can occur bedside without trauma or the need for anesthesia. The adhesive is strong but gentle on skin, allowing for distribution of traction over a large surface area.



### Results at a Glance\*

#### Example One



ABRA Adhesive used to close a fasciotomy wound.

#### Example Two



ABRA Adhesive used to close a sternal wound.

CWM02A ABRA Adhesive Skin Closure Set

#### PACK

10 packs/set

1. Small Adhesive Anchors (2/pack)
2. 50 cm Silicone Elastomer (1/pack)

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# DynaClose®

Closed wounds generally reduce morbidity, pain, and recovery time

## Open Wounds Under Low Tension

DynaClose provides an easy and non-invasive method to close retracted or dehisced wounds up to 5 cm in width. It acts dynamically, moving with skin as it is stretched, while always providing a consistent appositional force.

DynaClose provides a second chance at skin closure for failing wounds. The clear elastomeric strip is anchored by an adhesive fabric tape on either side. Continuous traction is maintained by regularly changing the DynaClose until the wound is closed.

### Results at a Glance\*

#### Example One

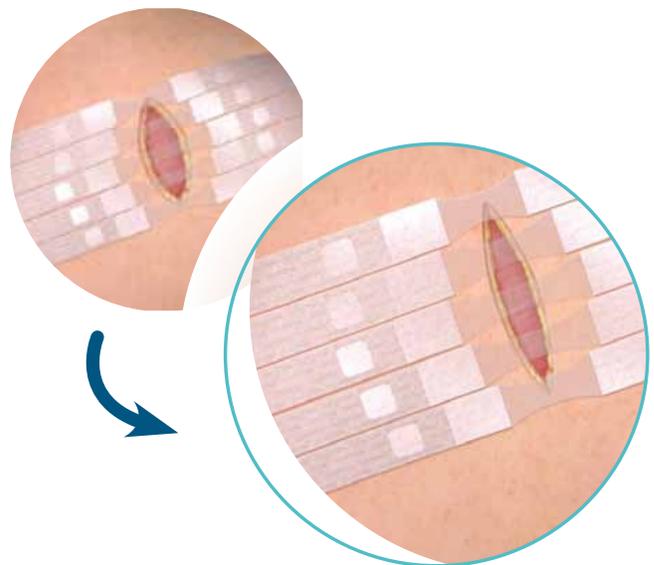


DynaClose used to close a fasciotomy wound.

#### Example Two



DynaClose used to close a chronic plantar ulcer.



DWC24 DynaClose (0.5 x 4.5")

Small DynaClose Strips (4/pack) Qty: 60 (15 packs/set)

DWC38 DynaClose (0.75 x 8.5")

Large DynaClose Strips (4/pack) Qty: 60 (15 packs/set)

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# SutureSafe®

Support closed wounds and provide stability

## Creating a Low Tension Healing Environment

SutureSafe bridges and supports the closure of surgical incisions dynamically, allowing a cushion of skin movement while still pulling the wound margins together with gentle appositional traction. By doing so, SutureSafe may help reduce surgical site dehiscence.

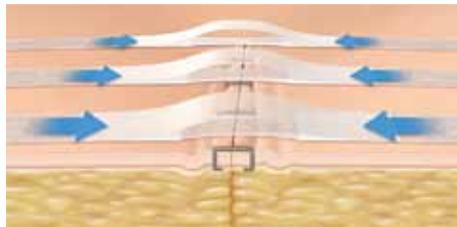
SutureSafe is an alternative to static tape for areas of increased skin movement. It can be placed over top of sutures and staples. The Ripstop bridge limits extension of the silicone elastomer, while the adhesive fabric tape distributes forces across a large surface area.



### Results at a Glance\*



SutureSafe application over staples provides support against dehiscence.



SutureSafe creates a safe zone to protect the incision site from painful tension.

### DWS12 SutureSafe (0.5 x 4.5")

Small SutureSafe Strips (10/pack)

Qty: 30 (3 packs/set)

### DWS14 SutureSafe (0.75 x 8.5")

Large SutureSafe Strips (10/pack)

Qty: 30 (3 packs/set)

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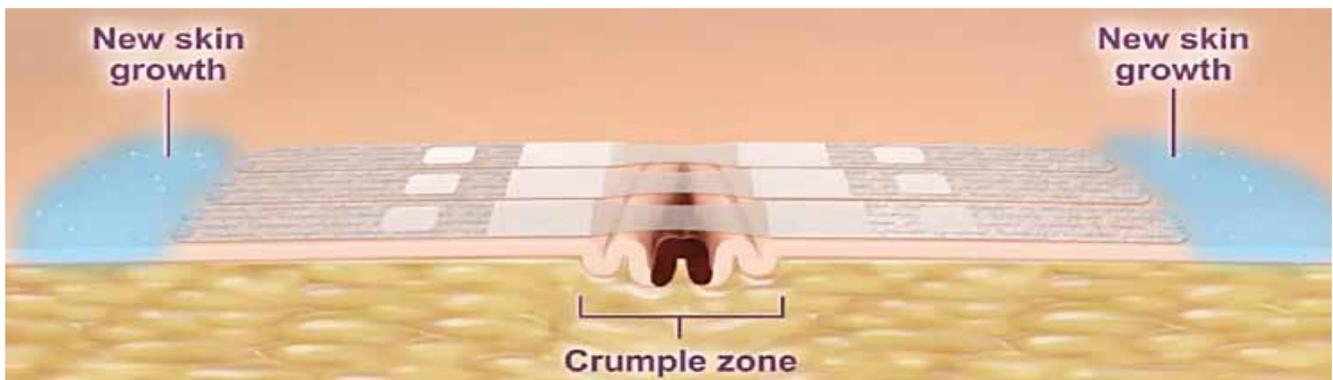
# DynaStretch®

Clinical and cosmetic outcomes matter

## Pre-surgical Skin Expansion

DynaStretch strips are designed to aid in pre-surgical skin expansion. This expansion occurs secondarily to the continued cyclic stretching of the skin by Dynamic Tissue Systems. New surplus skin may be consistent with the surrounding tissue and can be used to span a tissue defect created by surgical excision. Gentle, dynamic tissue stretching prior to planned excision avoids leaving a skin defect and allows for a sound primary closure.

This system is non-invasive and can be applied days or weeks pre-op without hindering patient mobility or quality of life. Uses may include any procedure in which a skin graft site expansion is desired.



### Results at a Glance\*



DynaStretch used to pre-operatively stretch the area surrounding the skin lesion

### DSX24 DynaStretch (0.5 x 4.5")

Small DynaStretch Strips (4/pack)

Qty: 60 (15 packs/set)

### DSX38 DynaStretch (0.75 x 8.5")

Large DynaStretch Strips (4/pack)

Qty: 60 (15 packs/set)

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# DynaCleft® + Nasal Elevator

Evidence-based pre-surgical treatment of cleft lip and palate, and nasal deformity

Proven as effective as NAM in pre-surgically approximating unilateral cleft lip and palate\*

Developed in collaboration with Plastic Surgeons, Orthodontists, and Cleft Palate Teams, DynaCleft + NE System gently guides bone and soft tissue while supporting nasal alar cartilage; improve nasal symmetry and better positions a cleft lip and palate for optimal surgical results.

### DynaCleft Clinical Benefits\*

- Controlled force re-positions prolabium, premaxilla and alveolar segments for best possible surgical results
- Can be used alone or in conjunction with NAM, or any intra-oral plate
- Easy to apply and manage, increasing parental compliance with treatment
- Significant cost savings compared to NAM

### Nasal Elevator Clinical Benefits\*

- Improves nasal symmetry
- Lengthens and straightens the columella
- Reduces need for primary nasal surgery
- Reduces length & extent of primary nasal surgery
- Facilitates nasal breathing
- Easy for parents to manage at home
- Can be used with DynaCleft tapes, NAM or any intra-oral plate

### Baby and Parent Benefits

- Pre-surgical positioning of lip and palate optimizes cosmetic and functional outcomes
- Easy at-home treatment minimizes clinical visits - no professional adjustments necessary
- Does not interfere with feeding
- Non-invasive treatment maximizes comfort for baby - expands & contracts as baby's mouth moves

## Results at a Glance



DCX10 - DynaCleft Unilateral 7/Package

Pack: 7 x DynaCleft Unilateral Strips 7/Box



DCNE-01 - Nasal Elevator 7/Package

Pack: 7x Adhesive Tethers, 7x Hooks,  
1x Adhesive Tether Template



DCX20 - DynaCleft Bilateral 7/Package

Pack: 7 x DynaCleft Bilateral Strips 7/Box



DCNE-02 - Nasal Elevator 28/Package

4 Packs: 7x Adhesive Tethers, 7x Hooks,  
1x Adhesive Tether Template

\* 1. COMPARATIVE STUDY OF NASOALVEOLAR MOLDING METHODS: Nasal elevator plus DynaCleft® vs. NAM-Grayson in patients with complete unilateral cleft lip-palate.

Monasterio L, Ford A, Gutiérrez C, Tastets M, García J. (Cleft Palate Craniofac J. Vol. 50 No. 5 Sept 2013: 548-54)

2. THE NASAL ALAR ELEVATOR: An effective tool in the presurgical treatment of infants born with cleft lip. Berggren A, Abdiu A, Marcusson A, Paulin G. (Plast Reconstr Surg. Vol. 115 No.6 May 2005: 1785-7)

3. THE NASAL ALAR ELEVATOR: A new device that may reduce the need for primary operation of the nose in patients with cleft lip. Abdiu A, Ohannessian P, Berggren A. (Scand J Plast Reconstr Surg Hand Surg. Vol.43 No.2 2009: 71-4s)

# Dynamic Tissue System® Solutions

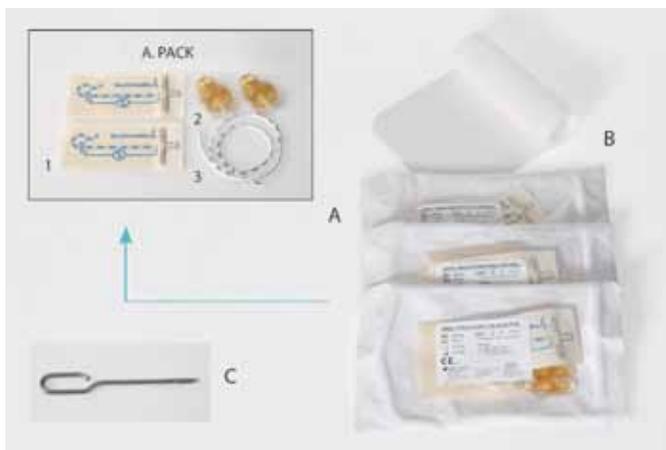
## Product Ordering Information

### ABRA® Abdominal



#### CWK08 ABRA Abdominal Wall Closure Set

<b>A. PACK</b>	10 packs/set
1. Button Tails (2/pack)	
2. Button Anchors (2/pack)	
3. 50 cm Silicone Elastomer (1/pack)	
<b>B. Cannulator (SWC01)*</b>	1/set
<b>C. SurgiFish</b>	1/set
<b>D. Southmedic Surgical Retainer (Large)(CWKSR-L)*</b>	1/set
<b>E. Button Tails (For Post-Operative Care)</b>	40/set
<b>F. 13-hole Elastomer Retainer</b>	1/set



#### CWK-EX ABRA Abdominal Wall Closure Set Extension

<b>A. PACK</b>	3 packs/set
1. Button Tails (2/pack)	
2. Button Anchors (2/pack)	
3. 50 cm Silicone Elastomer (1/pack)	
<b>B. Southmedic Surgical Retainer (Small)(CWKSR-S)</b>	1/set

#### CWK-H ABRA Abdominal Wall Closure Set Extension

<b>A. PACK</b>	10 packs/set
1. Button Tails (2/pack)	
2. Button Anchors (2/pack)	
3. 50 cm Silicone Elastomer (1/pack)	
<b>C. Cannulator (SWC01)*</b>	1/set



SWA07-20  
Button Tails  
Qty: 20 (10 packs of 2)



AWC01  
Elastomer Retainer  
Qty: 1



CWKSR-L\*  
Southmedic Surgical  
Retainer (Large)  
(Die cut: 12 x 17 x 0.040")  
Qty: 1



CZE07  
Silicone Elastomer  
Qty: 10 (2 packs of 5)



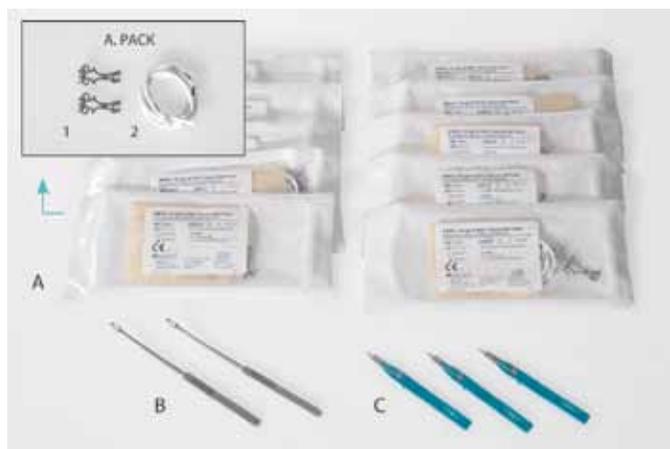
SWC01  
ABRA Abdominal  
Cannulator  
Qty: 1



CWK-3  
Abdominal Wall Closure  
Set Extension (3-pack)  
Qty: 1

\* Can be purchased separately

# ABRA® Surgical



## CWK02A ABRA Surgical Skin Closure Set

- |                                      |              |
|--------------------------------------|--------------|
| <b>A. PACK</b>                       | 10 packs/set |
| 1. Skin Anchors (2/pack)             |              |
| 2. 50 cm Silicone Elastomer (1/pack) |              |
| <b>B. Loop Cannulator (SWC02)*</b>   | 2/set        |
| <b>C. Lancets</b>                    | 3/set        |



SWC02  
ABRA Surgical Loop Cannulator  
Qty: 1

# ABRA® Adhesive



## CWM02A ABRA Adhesive Skin Closure Set

- |                                      |              |
|--------------------------------------|--------------|
| <b>A. PACK</b>                       | 10 packs/set |
| 1. Small Adhesive Anchors (2/pack)   |              |
| 2. 50 cm Silicone Elastomer (1/pack) |              |

## DynaClose®



DWC24 - DynaClose 0.5 x 4.5"  
Qty: 60 (15 packs of 4)



DWC38 - DynaClose 0.75 x 8.5"  
Qty: 60 (15 packs of 4)

## SutureSafe®



DWS12 - SutureSafe 0.5 x 4.5"  
Qty: 30 (3 packs of 10)



DWS14 - SutureSafe 0.75 x 8.5"  
Qty: 30 (3 packs of 10)

## DynaStretch®



DSX24 - DynaStretch 0.5 x 4.5"  
Qty: 60 (15 packs of 4)



DSX38 - DynaStretch 0.75 x 8.5"  
Qty: 60 (15 packs of 4)

\* Can be purchased separately



Dynamic Tissue Systems

Respiratory

Surgical

Blades & Scalpels

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