

VENTRIO™ ST Hernia Patch

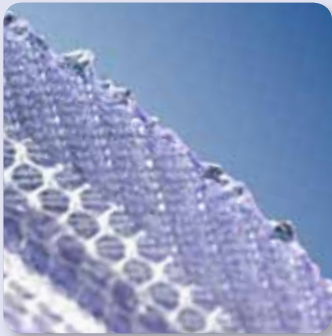
featuring Sepra® Technology

NEW



Sepra® Technology

- Based on the technology used in Seprafilm® with more than 13 years of proven clinical success.
- Unique hydrogel barrier swells to minimize tissue attachment to the visceral side of the mesh.*
- Bioresorbable PGA fibers reinforce the integrity of the hydrogel barrier by binding it to the polypropylene mesh.
- The hydrogel barrier resorbs within 30 days.



It begins with a hydrogel barrier.
It ends with a strong, long-term repair.

The VENTRIO™ ST Hernia Patch Featuring Sepra® Technology

Easy:

- Provides the benefits of a laparoscopic repair through the ease of a smaller incision.
- SORBAFLEX™ Memory Technology allows the patch to “spring open,” lay flat to maintain shape and then fully absorbs over time.*
- Simplifies placement and positioning of the patch throughout the ventral hernia repair.

Efficient:

- Unique pocket aids in the proper placement and positioning of the patch.
- Designed to facilitate the use of mechanical fixation devices and/or sutures.
- Available in a variety of shapes and sizes to accommodate defect sizes and locations.

Proven:

- Hydrogel barrier is based on Sepra® Technology.
- Uncoated monofilament polypropylene mesh allows for complete tissue ingrowth leading to a strong repair.
- Materials have been used in general surgery for years with demonstrated clinical success.¹

Possible complications include seroma, adhesions, hematomas, inflammation, extrusion, fistula formation, infection, allergic reaction, and recurrence of the hernia or soft tissue defect.

* Preclinical data on file at C. R. Bard. Results may not correlate to performance in humans.

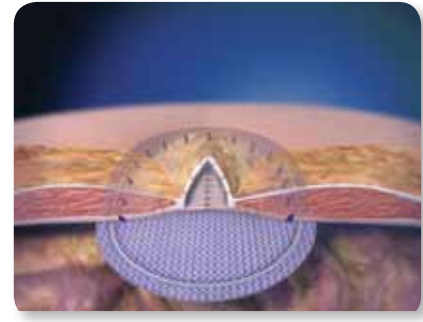
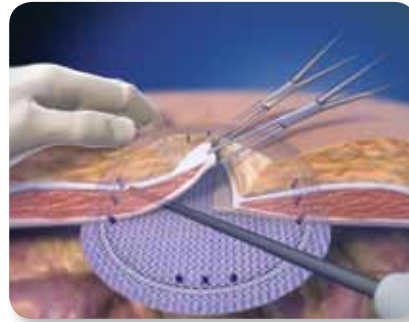
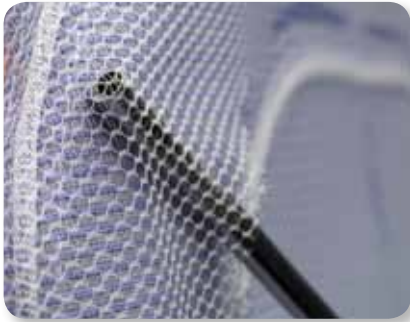
BAIRD

DAVOL INC.

TECHNOLOGY
TECHNIQUE
TRAINING
TRUST

EFFICIENT:

The unique positioning pocket aids in proper placement and positioning, while also allowing the use of mechanical fixation, for a quick efficient repair. The monofilament polypropylene results in strong tissue incorporation within a short period of time, providing the long-term strength of the repair.



Variety of Sizes Available

VENTRIO™ ST Hernia Patch is available in a variety of shapes and sizes to meet your surgical needs dependent on defect size and location. A unique mid-line oval shaped patch designed for multiple defects is also available.

Mechanical Fixation

The VENTRIO™ ST Hernia Patch is compatible in both open and laparoscopic ventral procedures with the SORBAFIX™ Absorbable Fixation System and the PERMAFIX™ Permanent Fixation System.

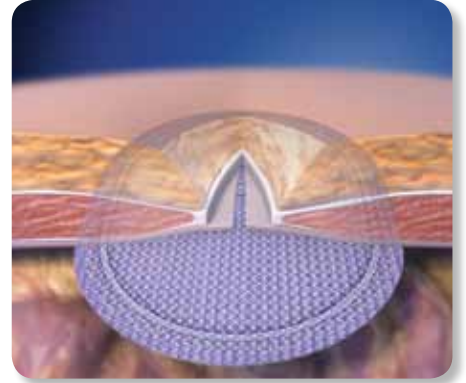
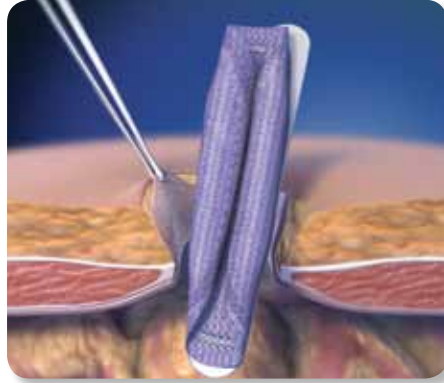
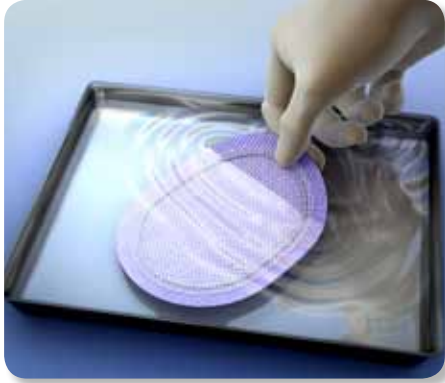


SORBAFIX™ fasteners fixated to the anterior mesh layer positioning pocket of the VENTRIO™ ST Hernia Patch in a preclinical study.

Preclinical data on file at C. R. Bard. Results may not correlate to performance in humans.

EASY:

The VENTRIO™ ST Hernia Patch's unique design provides the benefit of laparoscopic repair through the ease of a smaller incision.



Intraabdominal Placement Through a Small Open Incision†

- No preperitoneal lateral dissection may reduce surgical time and lead to quick patient recovery.
- Minimized dissection may reduce the chance of infection and seroma as well as the need for drains.
- The unique SORBAFLEX™ Memory Technology permits rolling of the patch for easy insertion, allowing the patch to “spring open,” lay flat to maintain shape and then fully absorbs over time.

† Please see the “Patch Folding Technique” section in the Instructions for Use.

Established Technique Supported by Published Clinical Data

- The design of the VENTRIO™ ST Hernia Patch allows the use of the familiar CK™/ VENTRIO™ Hernia Patch technique for open ventral hernia repair.
- Technique is peer reviewed and supported by published clinical data.^{1,2}

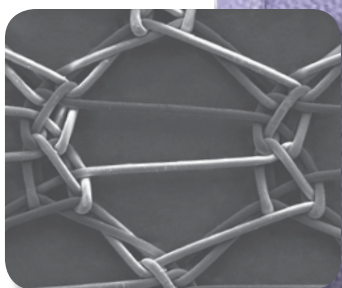
^{1,2} Iannitti, D. et. al. “Technique and Outcomes of Abdominal Incisional Hernia Repair Using a Synthetic Composite Mesh: A Report of 455 cases.” *Journal of the American College of Surgeons*. 2008 Jan; 206 (1):83-8.

PROVEN:

The VENTRIO™ ST Hernia Patch combines materials used in general surgery for many years to deliver proven benefits to you and your patients.

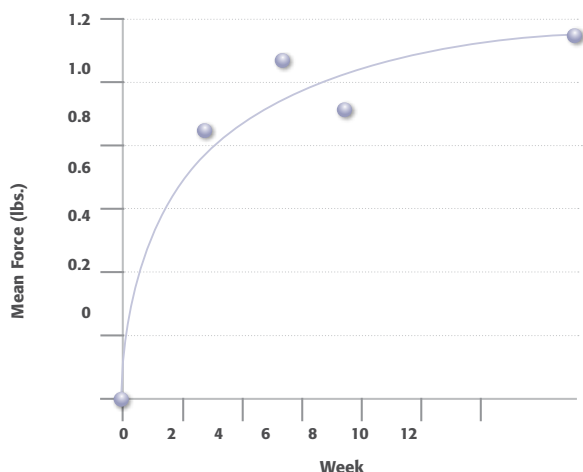
Uncoated Monofilament Polypropylene Mesh

- Over 40 years of proven results in hernia repair.
- Allows a fast fibrotic response for a strong repair.
- Provides a long-term repair with minimized recurrence.



Open Pore Mesh Design
35x Magnification

Strength of Tissue Ingrowth In A Preclinical Study**



Logarithmic regression curve of mean force of lap-shear strength as a function of time. **74% of the 12 week strength is achieved by 2 weeks post-operatively.**** Results may not correlate to performance in humans.

** Majercik, S. et al. "Strength in tissue attachment to mesh after ventral hernia repair with synthetic composite mesh in a porcine model." *Surgical Endoscopy* (2006) 20: 1671-1674.

VENTRIO™ ST Hernia Patch Preclinical Results



Initial implant

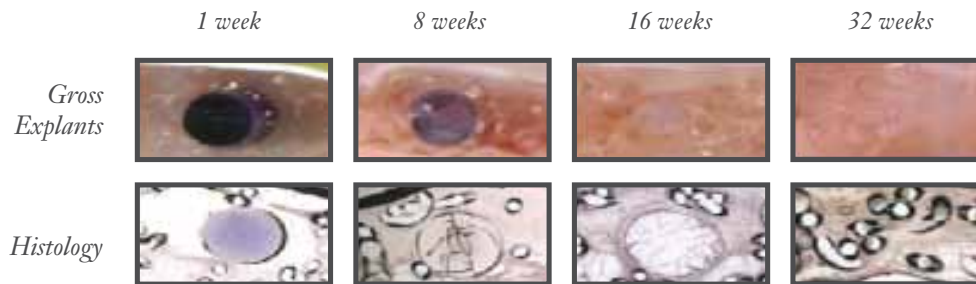


2 weeks

These images are from a porcine study using the VENTRIO™ ST Hernia Patch. Data on file.

SORBAFLEX™ Memory Technology

- Polydioxanone (PDO) monofilament is commonly used in other well-known surgical products (e.g. suture).
- Unique in its flexibility and tensile strength, it facilitates patch insertion and proper placement.
- Absorption via hydrolysis is essentially complete in 24-32 weeks.*

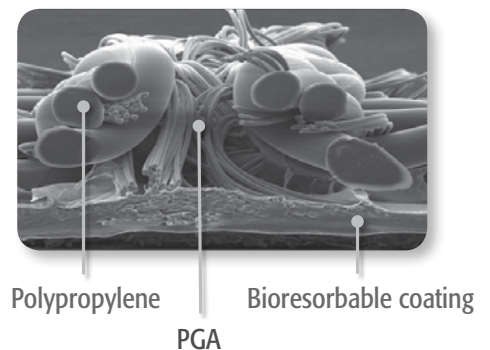


*These images are from a porcine study using the VENTRIO™ Hernia Patch which contains the same SORBAFLEX™ Memory Technology.**

SEPRAMESH™ IP Composite

- Hydrogel barrier is based on the Sepra® technology which has over 13 years of proven clinical success.
 - Unique hydrogel barrier swells to minimize tissue attachment to the visceral side of the mesh.*
 - Resorbs within 30 days providing visceral protection during the critical healing process.
- Bioresorbable PGA fibers reinforce the integrity of the hydrogel barrier by binding it to the polypropylene mesh.

Cross Section View



**Preclinical data on file at C. R. Bard. Results may not correlate to performance in humans.*

SEPRAMESH™ IP Composite Preclinical Study^{††}

“120-Day Comparative Analysis of Adhesion Grade and Quantity, Mesh Contraction, and Tissue Response to a Novel Omega-3 Fatty Acid Bioresorbable Barrier Macroporous Mesh After Intraperitoneal Placement”

Pierce, R., Perrone, J., Abdelrahman, N., Sexton, J., Walcutt, J., Frisella, M., Matthews, B.³ Surgical Innovation. 2009 Mar; 16(1): 46-54.

Table 1 - Adhesion Properties and Mesh Contraction

Mesh Type	N	Adhesion Grade (1-4)	Adhesion Coverage (%)	Mesh Contraction (%)
SEPRAMESH™ IP Composite	6	1.0 ± 0.0	0.0 ± 0.0	6.4 ± 8.4
ProLite Ultra	12	1.7 ± 1.1	10.7 ± 19.8	9.1 ± 8.3
C-Qur	6	1.2 ± 0.4	3.0 ± 7.3	3.3 ± 2.1
Composix	10	1.9 ± 1.2	24.8 ± 37.0	7.2 ± 7.1
Dualmesh	10	1.3 ± 0.9	1.4 ± 4.4	39.0 ± 6.0
Parietex	6	1.2 ± 0.4	0.8 ± 2.0	14.7 ± 5.0
Proceed	6	2.8 ± 1.0	28.8 ± 16.1	29.7 ± 12.5

^{††} Preclinical results may not correlate to performance in humans.



VENTRIO™ ST Hernia Patch is just one in a complete family of hernia repair products:

Ventral Hernia Repair Products

VENTRIO™ Hernia Patch
 VENTRALIGHT™ ST Mesh
 SEPRAMESH™ IP Composite
 VENTRALEX™ Hernia Patch
 VENTRALEX™ ST Hernia Patch
 COMPOSIX™ L/P Mesh
 DULEX™ Mesh

Inguinal Hernia Repair Products

PERFIX™ Plug
 PERFIX™ Light Plug
 3DMax™ Mesh
 3DMax™ Light Mesh
 MK™ Patch
 KUGEL™ Hernia Patch
 BARD® Mesh Flats and Pre-Shapes
 VISILEX™ Mesh
 BARD® Soft Mesh

Specialty Products

CKS™ Parastomal Hernia Patch
 CRURASOFT™ Patch

Fixation Products

SORBAFIX™ Absorbable Fixation System
 PERMAFIX™ Permanent Fixtation System
 PERMASORB™ Disposable Fixation Device

Tissue Regeneration Products

ALLOMAX™ Surgical Graft
 XENMATRIX® Regenerative Collagen
 COLLAMEND™ FM Implant

BARD® Surgical Education

Clinical Education Program

National education centers offer instruction in surgical techniques and the ability to view live surgery.

Speaker Program

Educational presentations are given at Grand Rounds, Society Meetings and other venues.

Procedure Introduction Kits

Video programs that describe specific hernia repair techniques and their benefits to you, your patients and your surgical practice.

These services are available for many of the BARD® hernia repair products. Please ask your representative, or visit www.davol.com.

Catalog Number	Quantity	Shape	Size	
5950030	1/cs.	Small Oval	3.1" x 4.7" (8.0 cm x 12.0 cm)	<input type="checkbox"/>
5950040	1/cs.	Medium Oval	4.3" x 5.5" (11.0 cm x 14.0 cm)	<input type="checkbox"/>
5950050	1/cs.	Large Oval	5.4" x 7.0" (13.8 cm x 17.8 cm)	<input type="checkbox"/>
5950010	1/cs.	Small Circle	3.0" (7.6 cm) diameter	<input type="checkbox"/>
5950020	1/cs.	Large Circle	4.5" (11.4 cm) diameter	<input type="checkbox"/>
5950070	1/cs.	Extra Large Oval	7.7" x 9.7" (19.6 cm x 24.6 cm)	<input type="checkbox"/>
5950080	1/cs.	Extra Large Oval	8.7" x 10.7" (22.1 cm x 27.1 cm)	<input type="checkbox"/>
5950090	1/cs.	Extra Large Oval	10.8" x 13.7" (27.4 cm x 34.9 cm)	<input type="checkbox"/>
5950060	1/cs.	Midline	6.1" x 10.1" (15.5 cm x 25.7 cm)	<input type="checkbox"/>

Please add the VENTRIO™ ST Hernia Patch to my preference card.

I would like to have the VENTRIO™ ST Hernia Patch in stock.

I would like to trial the VENTRIO™ ST Hernia Patch.

Surgeon's Signature _____

Purchase Order Number _____

Catalog Number _____

Date _____ Quantity _____

Please consult product labels and inserts for any indications, contraindications, hazards, warnings, precautions, and instructions for use.

References:

¹ Iannitti, D. et. al. "Technique and Outcomes of Abdominal Incisional Hernia Repair Using a Synthetic Composite Mesh: A Report of 455 cases." Journal of the American College of Surgeons. 2008 Jan; 206 (1):83-8.

² Dr. Iannitti is a paid consultant for Davol.

³ Dr. Matthews is a paid consultant for Davol. Financial support for the study was supplied by Atrium Medical Corporation.

⁴ Bard® Modified Kugel® Patch

Bard, Davol, 3DMax, AlloMax, Bard, CKS, CollaMend, Composix, CruraSoft, Davol, Dulex, Kugel, MK, PerFix, PermaFix, PermaSorb, SorbaFlex, Ventralex, Ventralight, Ventrío, Visilex and XenMatrix are trademarks and/or registered trademarks of C. R. Bard, Inc. Sepra, Seprafilm and Sepramesh are registered trademarks of Genzyme Corporation licensed to C. R. Bard, Inc.

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MMVST51

DAVOL INC.

Davol Inc. • Subsidiary of C. R. Bard, Inc.
 100 Crossings Boulevard • Warwick, RI 02886
 1.800.556.6275 • www.davol.com

Medical Services & Support 1.800.562.0027