

TRUST DEPENDABILITY FASTER INCORPORATION
UNPARALLELED STRENGTH RELIABILITY VALUE
SUTURABILITY PERFECT FIT AFFORDABILITY

FlexHD®

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STRUCTURAL

...there when you need us.

A close-up photograph showing two hands, likely belonging to a medical professional, holding a rectangular piece of light-colored, porous suture material. The hands are positioned on either side of the material, with fingers gently gripping its edges. The background is a soft, out-of-focus light blue and white.

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The logo for mtfbiologics features the letters 'mtf' in a bold, orange font, followed by 'biologics' in a blue font. Above the text is a stylized graphic of a blue molecular structure or network of nodes connected by lines.

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Science Driven. Patient Focused.

FlexHD is there when you need... an **affordable*** biologic for potentially contaminated and infected cases.

Per the Ventral Hernia Working Group (VHWG), a biologic repair material is indicated for Grade 2 (comorbid), Grade 3 (potentially contaminated), and Grade 4 (infected) hernias.

	Recommendation	Strength of Recommendation	Level of Evidence	Evidence
Grade 1 Low Risk	Choice of repair material by surgeon preference and patient factors	1	C	VHWG opinion
Grade 2 Comorbid	Increased risk for surgical site occurrence suggests additive risk for permanent synthetic repair material, and potential advantage for appropriate biologic reinforcement	1	B	Dunne et al ¹³ Finan et al ¹⁴ Pessaux et al ¹⁵ Petersen et al ¹⁶ VHWG opinion
Grade 3 Potentially Contaminated	Permanent synthetic repair material generally not recommended; potential advantage to biologic repair material	1	B	Diaz et al ¹⁷ Houck et al ¹⁸ Jones et al ¹⁹ Kim et al ²⁰
Grade 4 Infected	Permanenet synthetic repair material not recommended; biologic repair material should be considered	1	A	Diaz et al ¹⁷ Jones et al ¹⁹ Kim et al ²⁰ Patton et al ²¹ Patton et al ²² Sczcerba et al ²³ v'ant Riet et al ²⁴ Voyles et al ²⁵

New Evidence-based Recommendations for the Grading and Technique of Repair and Incisional Ventral Hernias. General Surgery News. Special Report. 2010.

FlexHD Structural is an ADM derived from donated human dermis for **faster incorporation**,^{6,7,8} reduced incidence of seroma¹⁻⁴ and less chance of infection vs. xenograft and synthetic mesh options.

*Based on 2017 list service fees for Strattice 25x40 and FlexHD Structural Diamond XL.

There when you need... Proven Results

FlexHD Structural has been used successfully in more than **20,000** hernia cases!

FlexHD Structural offers lower rates of failure and seroma formation.

THE DATA PROVES IT.

Table 1. Comparison of Rates of Seroma Formation for FlexHD Structural and Strattice

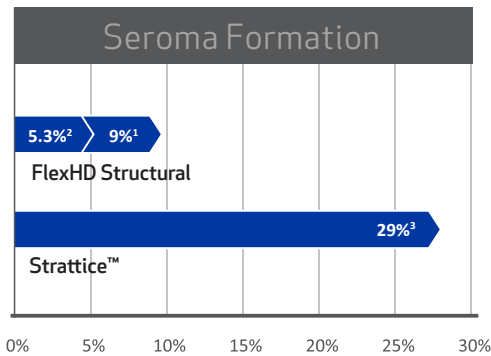
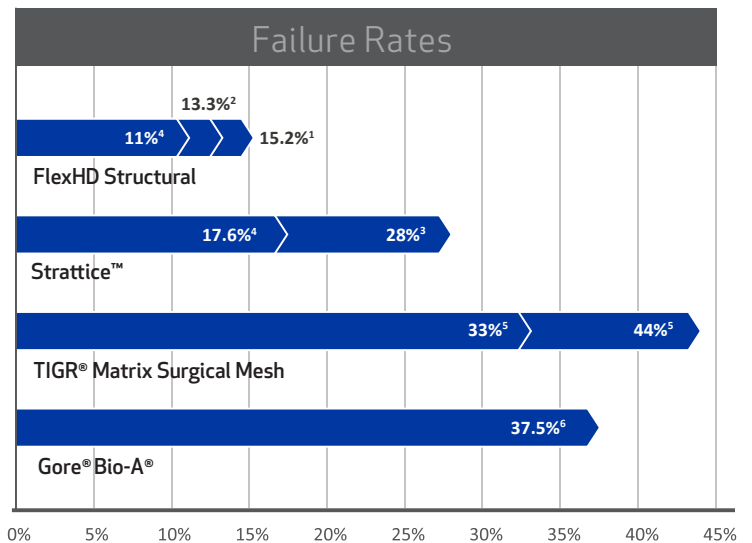
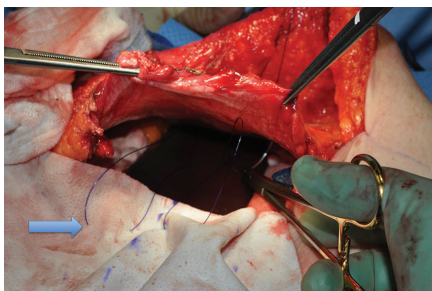


Table 2. Comparison of Hernia Recurrence in FlexHD Structural, Strattice™, TIGR® Matrix Surgical Mesh and Gore® Bio-A®



FlexHD is available in a range of sizes, including our 24cm x 35 cm XL Diamond graft, **the largest allograft available**, suitable for both ventral and paraesophageal hernia repair techniques.



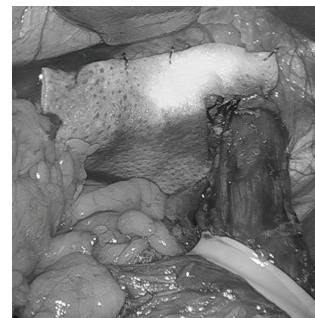
In this photo, FlexHD Structural is placed in the intraperitoneal space using a U-stitch, following a bilateral anterior component separation technique.

Photo courtesy of A. Garcia, MD.



Here, FlexHD Structural Diamond is positioned in the recto-rectus space following bilateral TAR releases.

Photo courtesy of Scott Roth, MD.

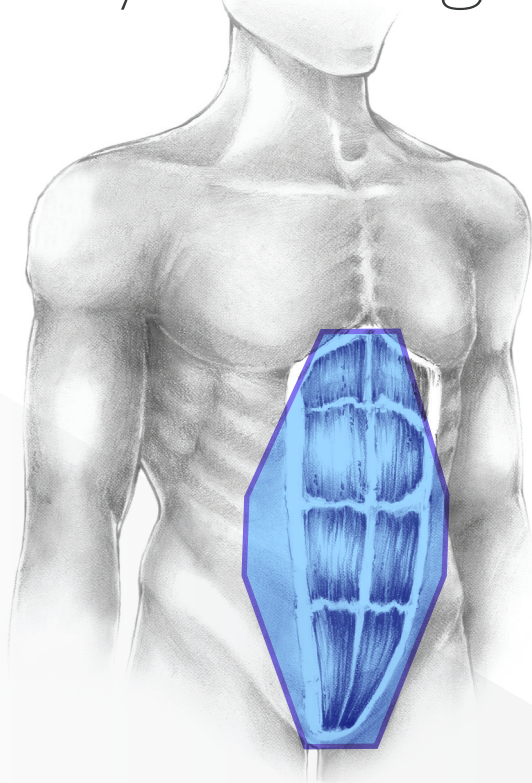


FlexHD Structural is also available in smaller sizes suitable for paraesophageal and hiatal hernias.

In paraesophageal hernias, a 6cm x 8cm graft of FlexHD may be placed as an onlay patch to reinforce the cruroplasty.

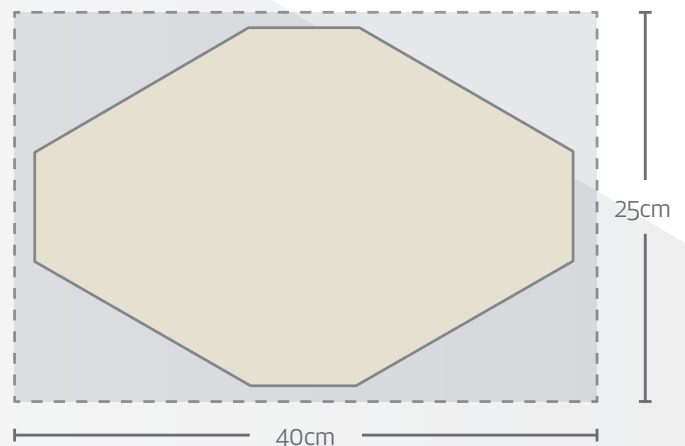
Photo courtesy of Scott Roth, MD

There when you need ... the **perfect fit** for your biologic mesh needs.



FlexHD Structural Diamond's unique shape better matches the abdominal wall cavity for complete coverage from xiphoid to pubis...at a more **affordable** service fee than Strattice 20x40 and 25x40.

To obtain the same lateral coverage as FlexHD Diamond XL, Strattice 25x40 graft is needed, but can cost up to ***30% more!**



FlexHD Structural Diamond XL

offers efficient design, better coverage and less waste... and a better overall **value** than Strattice.

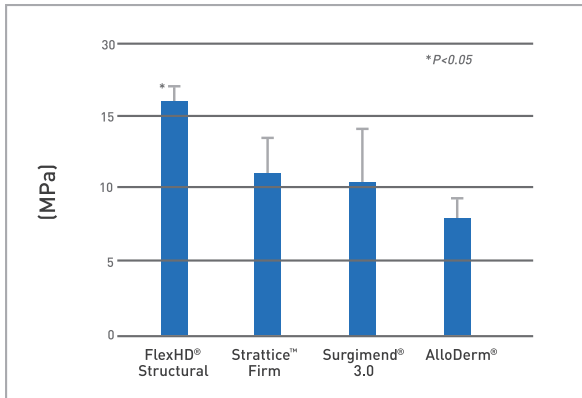


*Based on 2017 list service fees for Strattice 25x40 and FlexHD Structural Diamond XL.

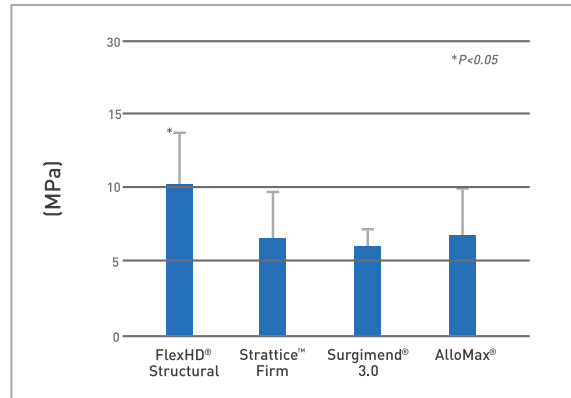
FlexHD is there when you need a strong mesh in your most challenging hernia cases

You can **depend** on FlexHD to deliver...

Unparalleled strength for a durable repair in complex hernia cases

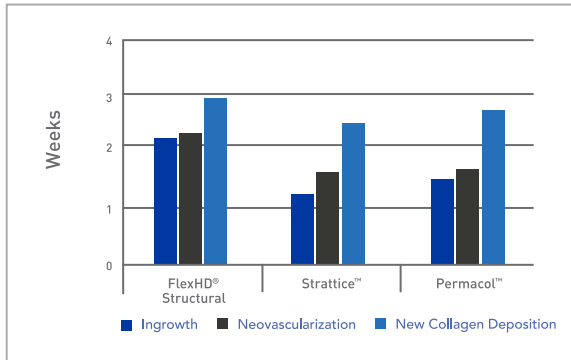


Tensile strength

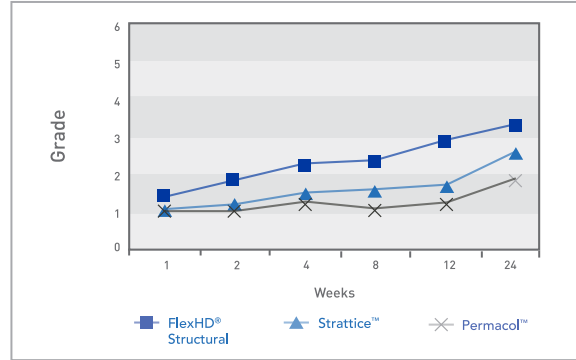


Tensile modulus

Greater resistance to failure and stretching under tension than other meshes.⁵

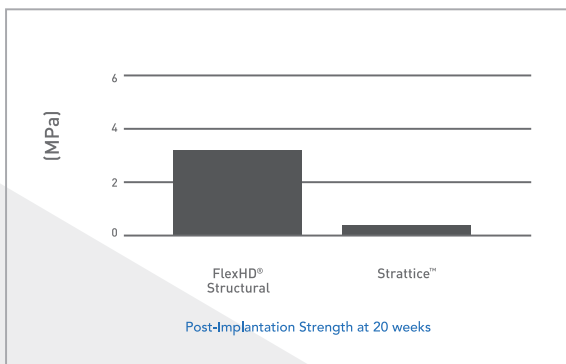


Incorporation

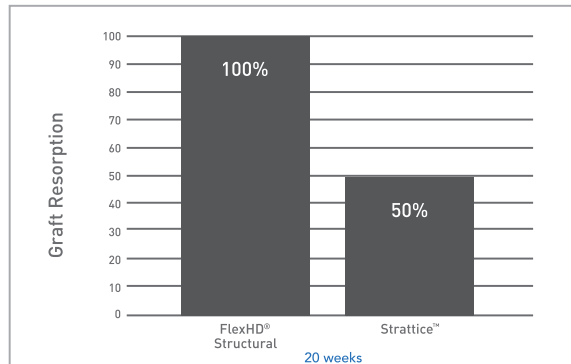


Total Cellular Ingrowth

Better cellular in-growth for faster and more complete incorporation.^{6,7,8}



Post-implantation strength at 20 weeks



20 weeks

A permanent solution without graft resorption and thinning⁶

There when you need...

A FULL RANGE OF SIZES AND THICKNESSES TO ACCOMMODATE ANY HERNIA REPAIR

FlexHD Structural Diamond

Diamond L		
Size: W (cm) x L (cm)	Tissue Code	Thickness (mm)
22 x 30	4D1331	0.8-1.7
22 x 30	4D2331	1.8-4.0

Diamond XL		
Size: W (cm) x L (cm)	Tissue Code	Thickness (mm)
24 x 35	4D1335	0.8-1.7
24 x 35	4D2335	1.8-4.0

MTF offers FlexHD in additional sizes for Abdominal Wall Reconstruction.

Size: W (cm) x L (cm)	Tissue Code	Thickness (mm)
10x16	471016	0.8-1.7
10x16	472016	1.8-4.0
12x12	471122	0.8-1.7
12x24	471224	0.8-1.7
12x24	472224	1.8-4.0
16x20	471620	0.8-1.7
16x20	472620	1.8-4.0

Size: W (cm) x L (cm)	Tissue Code	Thickness (mm)
20x20	471202	0.8-1.7
20x20	472202	1.8-4.0
20x25	471225	0.8-1.7
20x25	472225	1.8-4.0
20x30	471230	0.8-1.7
20x30	472230	1.8-4.0

Smaller sizes for hiatal hernia repair and other soft tissue defects where reinforcement is needed

Size: W (cm) x L (cm)	Tissue Code	Thickness
4 x 7	470407	0.4-0.8
4 x 7	471407	0.8-1.7
6 x 8	471608	0.8-1.7
8 x 12	471812	0.8-1.7
8 x 12	472812	1.8-4.0



There when you need...

SUPERIOR HANDLING AND PERFORMANCE

FlexHD[®]
STRUCTURAL

- Easy to suture
- Consistent thickness throughout the graft
- Faster incorporation
- Reduced rates of seroma

FlexHD Structural is the biologic solution you can **trust** for your most complex and contaminated hernia cases

PROVEN RESULTS • BETTER INCORPORATION • AFFORDABLE

1 Bochicchio GV, et al. Comparison study of acellular dermal matrices in complicated hernia surgery. J Am Coll Surg. 2013.

2 Garcia, A. Complex ventral hernia repair with an acellular dermal matrix and component separation in a small cohort of high risk patients with complex hernias: A case series. Ann Med Surg. 2015.

3 Kamal M. F. Itani, MD, FACS, et al. Prospective study of single-stage repair of contaminated hernias using a biologic porcine tissue matrix: The RICH Study. Surgery. 2012.

4 Roth, JC, et al. Complex Ventral Hernia Repair with Acellular Dermal Matrices: Clinical and Quality of Life Outcomes. The American Surgeon. 2017.

5 Ruiz, F. et al. Inguinal hernia repair using a synthetic long-term resorbable mesh: results from a 3-year prospective safety and performance study. Hernia (2014) 18:723-730 DOI10.1007/s10029-014-1249-1.

6 Symeonidis, D. et al. Open inguinal hernia repair with the use of polyglycolic acid/trimethylene carbonate absorbable mesh: a critical update of the long-term results. Hernia. 2013 Feb;17(1):85-7. doi: 10.1007/s10029-012-1016-0. Epub 2012 Nov 9.

7 MTF Data on File

8 Eberli, D. (2010). In vivo evaluation of acellular human dermis for abdominal wall repair. J Biomed Mat Res A, 93(4):1527-38.

9 Ngo, M. et al. (2011) Evaluation of human dermis versus porcine acellular dermis in an in vivo model for incisional hernia repair. Cell Tissue Bank, 12 (2): 135-45.

10 Zemlyak AY, Colavita PD, Tsirlina VB, et al Absorbable glycolic acid/trimethylene carbonate synthetic mesh demonstrates superior in-growth and collagen deposition. Abdominal Wall Reconstruction (AWR) Meeting; June 14-16, 2012; Washington, DC Abstract 35. [http://www.awrconference.com\(AWR\)abstracts2012/35rev.pdf](http://www.awrconference.com(AWR)abstracts2012/35rev.pdf)

FlexHD[®]

STRUCTURAL

FlexHD Structural
and MTF Biologics
...there when you need us.

To place an order of FlexHD Structural, contact your
MTF Biologics Representative, or MTF Biologics Customer Service

1-800-433-6576 (domestic orders)
or 1 (732) 661-0202 for International Orders.