

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

# FlexHD<sup>®</sup>

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## STRUCTURAL

...there when you need us.



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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	<b>1</b>	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 <b>biologic reinforcement</b>	<b>1</b>	B	Dunne et al <sup>13</sup> Finan et al <sup>14</sup> Pessaux et al <sup>15</sup> Petersen et al <sup>16</sup> VHWG opinion
Grade 3 Potentially Contaminated	Permanent synthetic repair material generally not recommended; potential advantage to <b>biologic repair material</b>	<b>1</b>	B	Diaz et al <sup>17</sup> Houck et al <sup>18</sup> Jones et al <sup>19</sup> Kim et al <sup>20</sup>
Grade 4 Infected	Permanent synthetic repair material not recommended; <b>biologic repair material</b> should be considered	<b>1</b>	A	Diaz et al <sup>17</sup> Jones et al <sup>19</sup> Kim et al <sup>20</sup> Patton et al <sup>21</sup> Patton et al <sup>22</sup> Sczcerba et al <sup>23</sup> v'ant Riet et al <sup>24</sup> Voyles et al <sup>25</sup>

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**,<sup>6,7,8</sup> reduced incidence of seroma<sup>1-4</sup> 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.

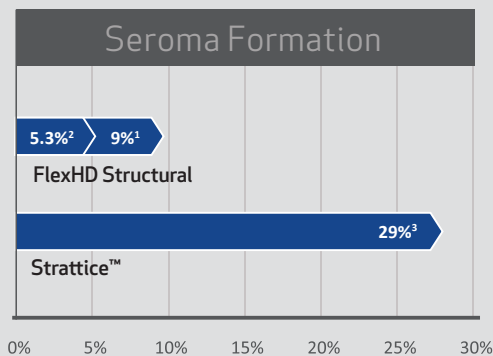
# There when you need... Proven Results

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

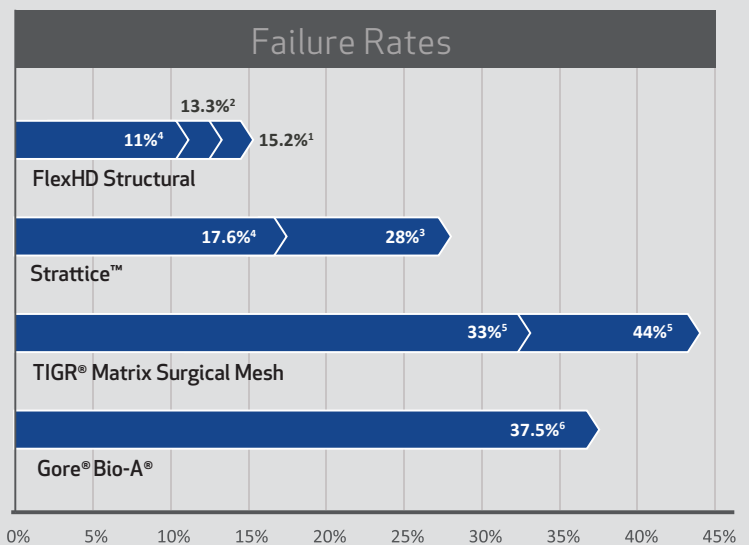
FlexHD Structural offers lower rates of failure and seroma formation.

## THE DATA PROVES IT.

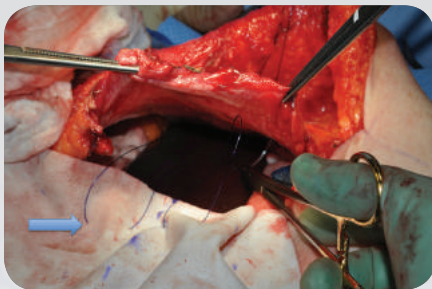
**Table 1.** Comparison of Rates of Seroma Formation for FlexHD Structural and Strattice



**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.



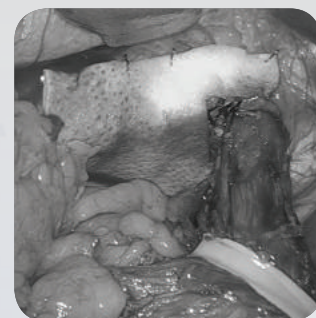
In this photo, FlexHD Structural is placed in the intraperitoneal space using a U-stitch, following a bilateral anterior component separation technique.

*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.*

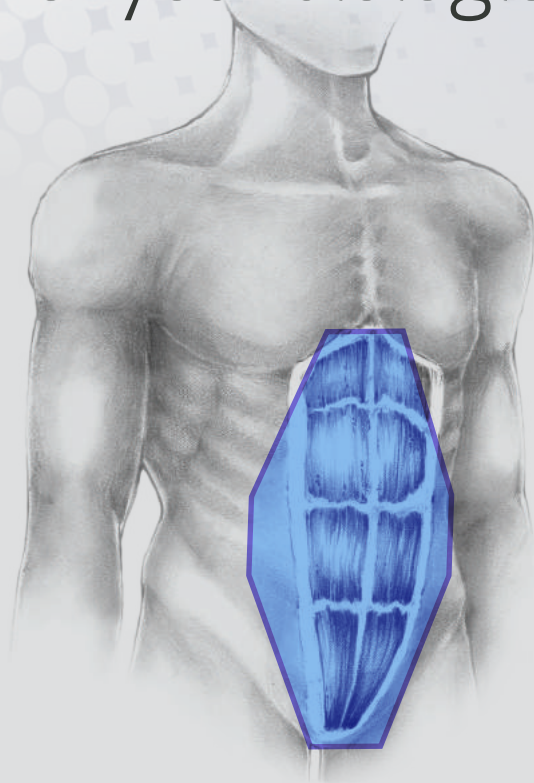


FlexHD Structural is also available in smaller sizes suitable for paraesophageal and hiatal hernias.

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

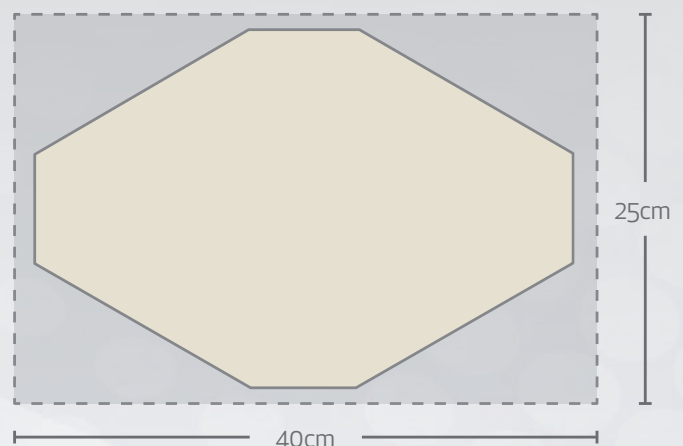
*Photo courtesy of Scott Roth, MD*

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

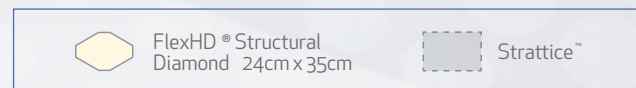


FlexHD Structural Diamond's unique shape better matches the abdominal wall cavity for complete coverage from xiphoid to pubis...at a more **affordable** service fee than Strattice 20x40 and 25x40.

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.



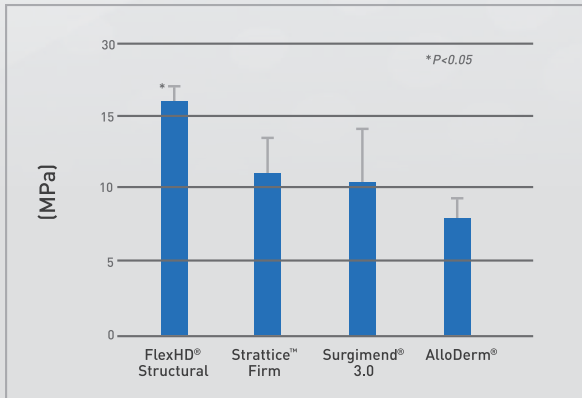
\*Based on 2017 list service fees for Strattice 25x40 and FlexHD Structural Diamond XL.



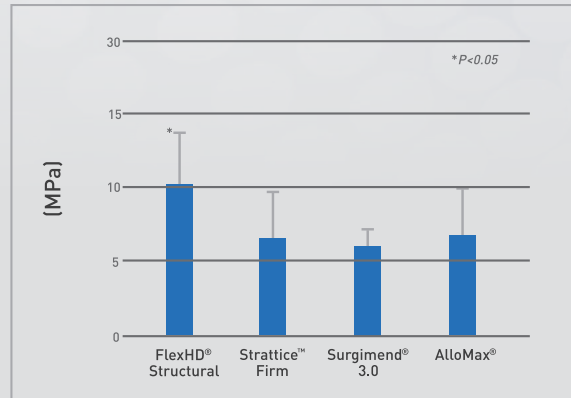
FlexHD® is there when you need a strong mesh in your most challenging hernia cases

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

***Unparalleled strength*** for a durable repair in complex hernia cases

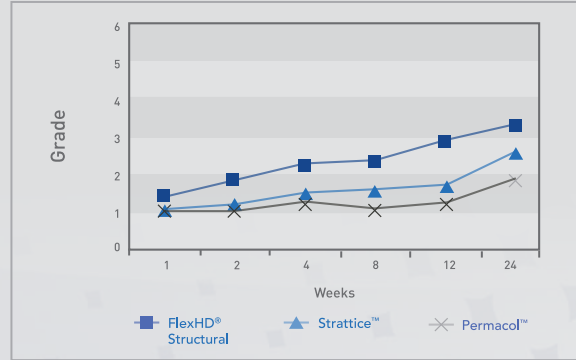
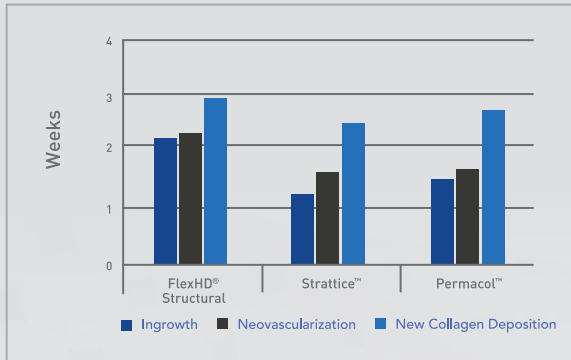


Tensile strength

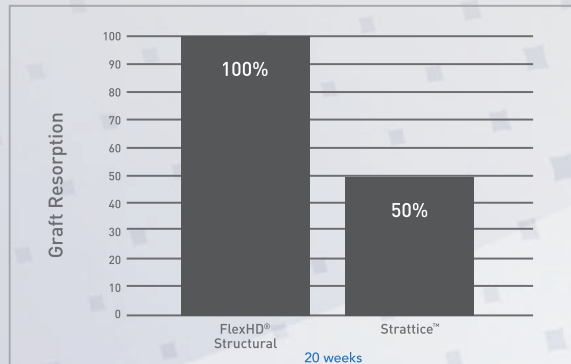
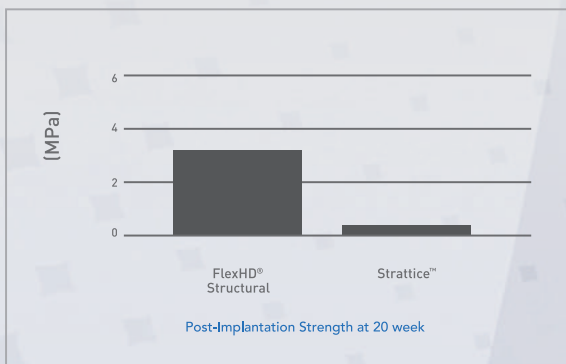


Tensile modulus

Greater resistance to failure and stretching under tension than other meshes.<sup>5</sup>



Better cellular in-growth for faster and more complete incorporation.<sup>6,7,8</sup>



A permanent solution without graft resorption and thinning<sup>6</sup>

# There when you need...

## a full range of sizes and thicknesses to accommodate any hernia repair

### FlexHD® Structural Diamond

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

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

Width X Length (in Cm)	Thick	Ultra Thick
	0.8-1.7mm	1.8-4.0mm
10x16	471016	472016
12x12	471122	N/A
12x24	471224	472224
16x20	471620	472620
20x20	471202	472202
20x25	471225	472225
20x30	471230	472230

MTF offers FlexHD in additional sizes for Abdominal Wall Reconstruction.

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

Thin	Tissue Code	Dimensions	Thickness
	470407	FlexHD Structural Thin, 4cm x 7cm	0.4-0.8mm

Thick	Tissue Code	Dimensions	Thickness
	471407	FlexHD Structural Thick, 4cm x 7cm	0.8-1.7mm
	471608	FlexHD Structural Thick, 6cm x 8cm	0.8-1.7mm
	471812	FlexHD Structural Thick, 8cm x 12cm	0.8-1.7mm

Ultra Thick	Tissue Code	Dimensions	Thickness
	472812	FlexHD Structural Ultra Thick, 8cm x 12cm	1.8-4.0mm



There when you need...

# SUPERIOR HANDLING AND PERFORMANCE

**FlexHD**<sup>®</sup>  
**STRUCTURAL**

- Easy to suture
- Consistent thickness throughout the graft
- Faster incorporation
- Reduced Rates of Seroma

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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 DOI 10.1007/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<sup>®</sup>

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## STRUCTURAL

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

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

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