HOW IT WORKS

TIGR® Matrix works in two phases, in which it gradually transfers the load from the scaffold to tissue. In phase 1 it gives strength and stability in the mesh is high during initial wound-heling. , In phase 2 it gradually increases the elasticity and transfer of load to the tissue stimulates regeneration of well-structed collagen.





TIGR[®] MATRIX SUPERIOR HANDLING **CHARACTERISTICS**

- Knitting process allows mesh to be cut to optimal size
- Slight memory allowing fixation under gentle stretch preventing buckling of the mesh.
- With mesh taut, no buckling when anterior fascia is closed in TAR and other sub-lay techniques.

TO ORDER

Size	Reference number
10x15 cm	NSTM1015
15x20 cm	NSTM1520
20x30 cm	NSTM2030

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SYNTHETIC RESORBABLE SCAFFOLD

WHAT IS TIGR[®] MATRIX?

TIGR® Matrix is the world's first long-term resorbable, 100% synthetic surgical mesh. Its unique technology consists of dual-stage degradation and full resorption.

TIGR[®] MATRIX 3 YEAR PRE-CLINICAL DATA

CLINICAL EXPERIENCE USING TIGR[®] MATRIX SYNTHETIC RESORBABLE SCAFFOI D

Bruce Ramshaw, MD. Brandie Forman, Michelle Preston, Briana Alvoid-Preston,

18 Month Post-op Comparison Charts

PATIENT DEMOGRAPHICS

	TIGR - 2015 (61 patients)	Phasix - 2017 (121 patients)	BioA - 2017 (104 patients)	Strattice - 2012 (80 patients)
BMI (Avg.)	33.1	32.2	28	23% Obese (BMI 35-40)
CST (%)	92%	44%	65 %	65 %
Onlay (%)	0%	26%	0%	4%
Retrorectus (%)	100%	73%	90%	36%
Intraperitoneal (%)	0%	0%	10%	60%
Hernia Defect Size (cm ²)	283.6	115.7	137.0	236.0

Inclusion/Exclusion Criteria

PATIENT OUTCOMES

Recurrence
SSI
Seroma Requiring Intervention
Mesh Removal Required
Posults

Result



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ABOUT THE PRODUCT

- Copolymers of lactide, glycolide and trimethylene carbonate. Same type of polymers that have been in clinical use since the 1970s.
- Macro-porosity, >1 mm2, allows for good tissue integration.
- Strong for at least 6 months and complete resorption over time.
- A viable alternative to acellular dermal matrices, at a lower cost. 234

ABOUT THE USE

- Ready to use directly out of the package, without rinsing.
- · Warp-knitted multifilament fibers make it easy to handle, pliable and easy to cut.

References

1 - Three-year results from a preclinical implantation study of a long-term resorbable surgical mesh with timedependent mechanical characteristics H. Hjort, T. Mathisen, A. Alves, G. Clermont, J. P. Boutrand, Hernia, 16(2):191-197, 2012 2 - The use of synthetic mesh in reconstructive, revision, and cosmetic breast surgery H. Becker, J. G. Lind II, Aesth Plast Surg, 37(5):914–921, 2013 3 - Value-based Clinical Quality Improvement (CQI) for Patients Undergoing Abdominal Wall Reconstruction. B. Stephan, B. Ramshaw, B. Forman, Surg Technol Int, 26:135-142, 2015 4 - Immediate implant based breast reconstruction using the TIGR® Matrix. P. Schrenk, Breast Cancer Manag, 5(2), 53–59. 2016 5 - Data on file, in vitro resorption.



The inflammatory response is limited to the location of the mesh fibers. No sign of granuloma. New blood vessels and connective tissue are evident close to the matrix filaments.



TIGR[®] Matrix well integrated in connective tissue. Fibroblasts are present among mesh fibers. New blood cells visible.

24 MONTH



TIGR[®] Matrix filaments are surrounded by giant cells indicting on-going fiber degradation. Collagen cells are infiltrating the matrix.

36 MONTH



TIGR[®] Matrix resorbed and replaced with collagen. Few inflammatory cells and no foreign body reaction. Well distributed fibroblasts.

OPEN VENTRAL HERNIA REPAIR (INCLUDING AWR)

TIGR CQI program- No exclusions | Other prospective studies: Exclusion for more than three recurrences, BMI > 40, cirrhosis, ascites, HIV or on steroids.

TIGR - 2015 (61 patients)	TAR: Approach (46 patients)	Phasix - 2017 (121 patients)	BioA - 2017 (104 patients)	Strattice - 2012 (80 patients)
9.8%	1/46 (2.2 %)	9.1% Retrorectus 5.7%	15.4 %	28%
13%	3/46 (6.5 %)	9.1%	18%	30%
1.6%	1/46 (2.2 %)	5.8 %	6%	6%
0	0	0	0	0

Extremely low rate of mesh related complications | No mesh removal or mesh related complications in complex abdominal wall patients, even in the setting of contaminations and wound complications. | Long-term outcomes and experience demonstrating long-term durability.