

# SYNTHETIC RESORBABLE SCAFFOLD

**TIGR**<sup>®</sup>matrix

# 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.**

- Strong up to 9 months and gone in 3 years.<sup>1,5</sup>
- Copolymers of lactide, glycolide and trimethylene carbonate. Same type of polymers that have been in clinical use since the 1970s.<sup>1</sup>
- Macro-porosity,  $>1 \text{ mm}^2$ , allows for good tissue integration.<sup>1,2</sup>
- Ready to use directly out of the package, without rinsing.
- Warp-knitted multifilament fibers make it easy to handle, pliable and easy to cut.<sup>4</sup>
- A viable alternative to acellular dermal matrices, at a lower cost.<sup>2,3,4</sup>

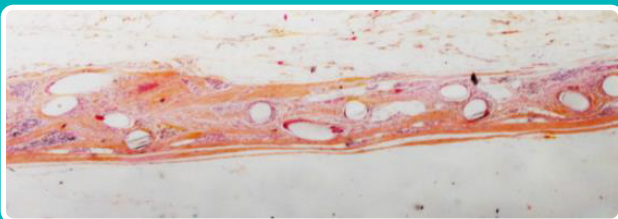
## Tissue integration and collagen deposition

A pre-clinical study showed that collagen deposition significantly increased in the TIGR® Matrix group in comparison to the control group.<sup>1</sup>

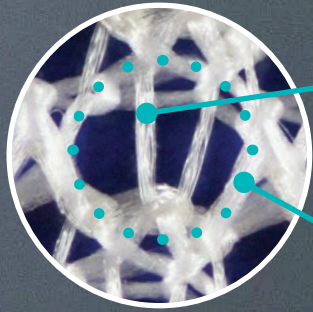
### 36 Months post implantation



**TIGR® Matrix** revealed a newly formed abdominal wall of approximately 6 mm.<sup>1</sup>



**Polypropylene control** mesh showed a wall thickness of approximately 1.3 mm.<sup>1</sup>



Fast resorbing fiber

Slow resorbing fiber

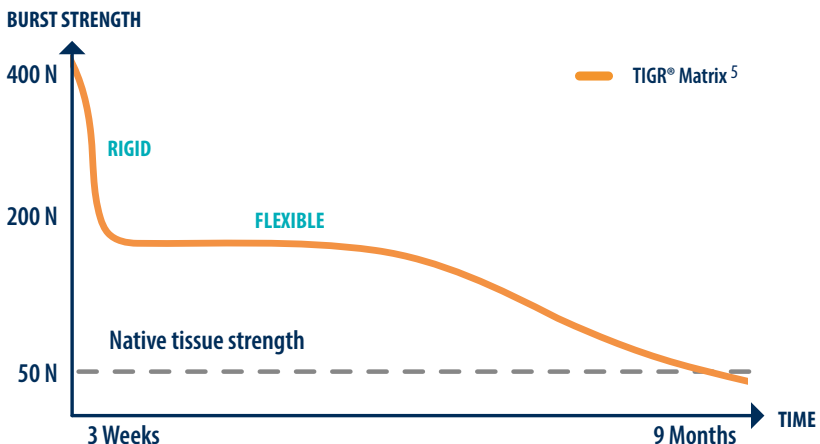
## Dual-stage resorption

Dual-stage mechanics are achieved by arranging two fibers with different degradation times in an interlocking knitting pattern.

- Strength and stability in the mesh is high during initial wound-healing.<sup>5</sup>
- Gradual increase of flexibility and transfer of load to the tissue stimulates regeneration of well-structured collagen.<sup>1</sup>

## Designed for soft tissue remodeling

The mesh is designed to adapt to the different wound-healing phases, resulting in a natural transfer of dynamic loads from the mesh to the tissue over time.



# TIGR® Matrix SUPERIOR HANDLING CHARACTERISTICS

- Knitting process allows mesh to be cut to optimal size without fraying.
- 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-layer techniques.

Ref.

1. Hjort et al, Hernia, 16:191–197, 2012.
2. Becker et al, Aesth Plast Surg, 37:914–921, 2013.
3. Ramshaw et al, Surg Technol Int, 26:135-142, 2015.
4. Schrenk, Breast Cancer Manag, 10.2217, 2016.
5. Data on file, in vitro resorption.

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## TO ORDER

### SIZE

10x15

15x20

20x30

### REF. NO.

NSTM1015

NSTM1520

NSTM2030



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