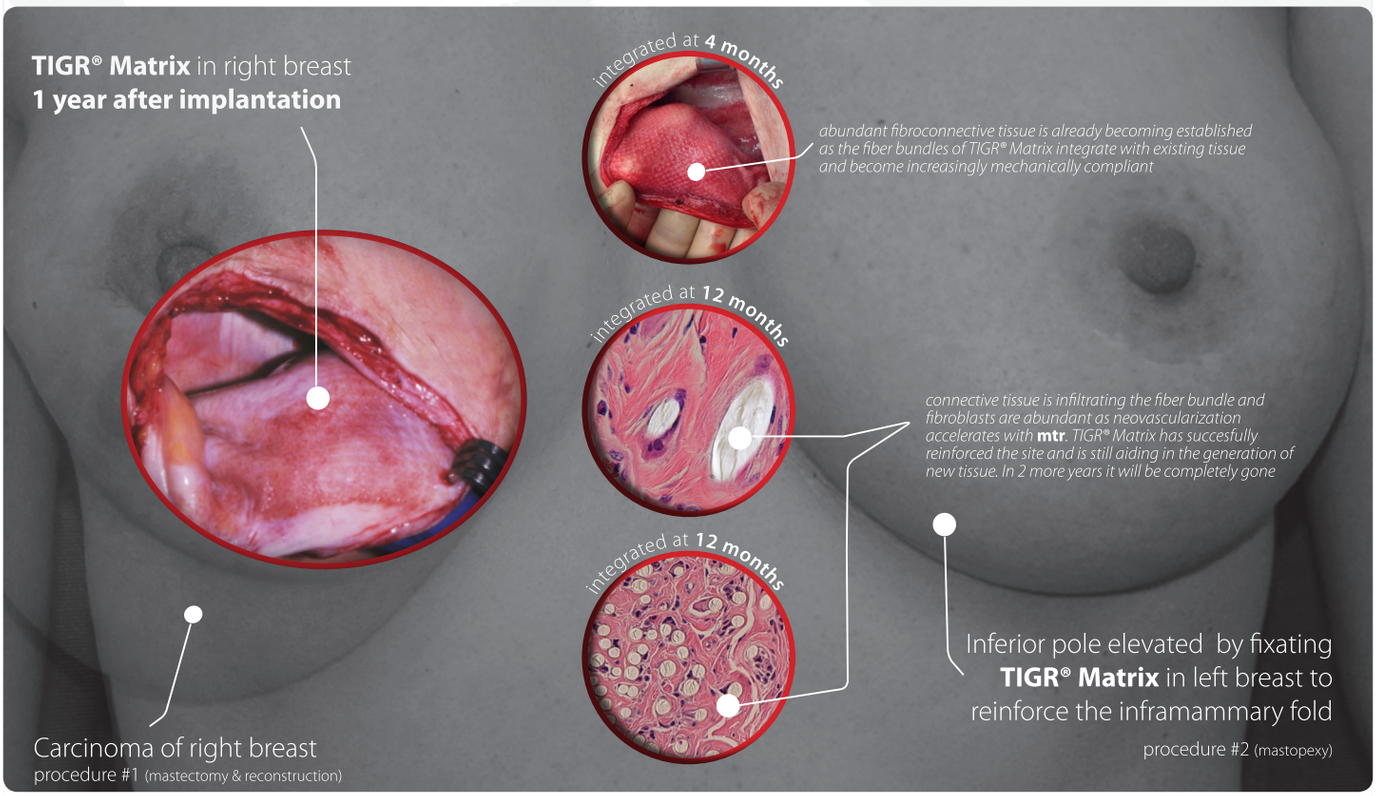
TIGR®
resorbable matrix

1 year in breast

the world's 1st long-term resorbable synthetic matrix designed for **mtr** - *mechanotransduction induced remodeling*

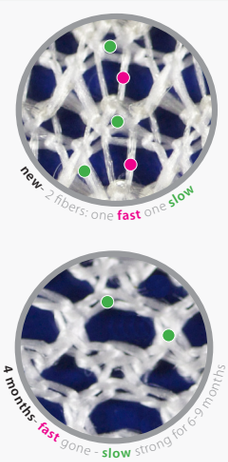


TIGR® Matrix - the future of reinforcement matrices.

TIGR® Matrix *Surgical Mesh* is the world's 1st long-term resorbable, 100% absorbable synthetic matrix and was developed in Sweden on the hypothesis that soft tissue positively remodels in response to mechanical load.

It is warp knitted from two different synthetic resorbable fibers that degrade at different rates following implantation. The first fiber is a copolymer of glycolide, lactide and trimethylene carbonate. The second fiber is a copolymer of lactide and trimethylene carbonate. Both fibers degrade by bulk hydrolysis once implanted. The degradation products are exhaled as CO_2 or excreted by natural means.

Following the initial post-operative two week healing phase **TIGR® Matrix** becomes increasingly mechanically compliant as its mechanical strength decreases. This encourages the process of mechanotransduction - **mtr**

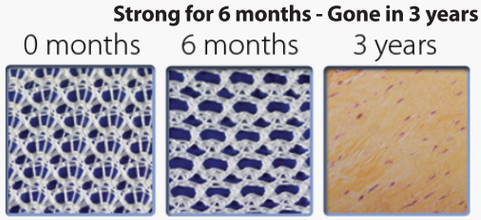


Indication for Use

TIGR® Matrix *Surgical Mesh* has been cleared by the US FDA via 510(k) *indicated for use in reinforcement of soft tissue where weakness exists.*

TIGR® Matrix *Surgical Mesh is* CE marked for use in the EU where it is *indicated for use in reinforcement of soft tissue where weakness exists, in procedures involving the repair of hernias and abdominal wall defects, abdominal wall reinforcement and muscle flap reinforcement.*

Strong for 6 months - Gone in 3 years



visit **www.tigrmatrix.com** for more information

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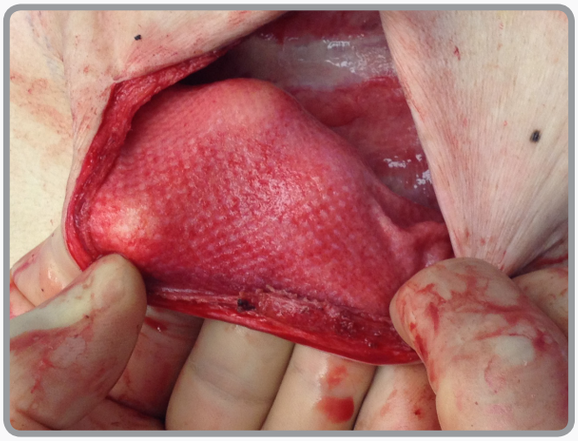
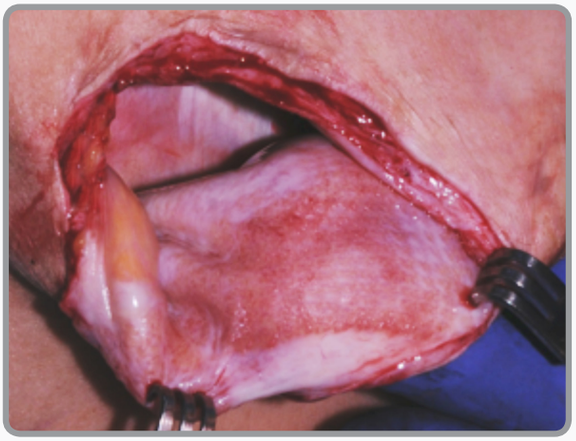
TIGR® Matrix - **4 months** post implantation:

both fibers nicely integrated & giving ample reinforcement where needed



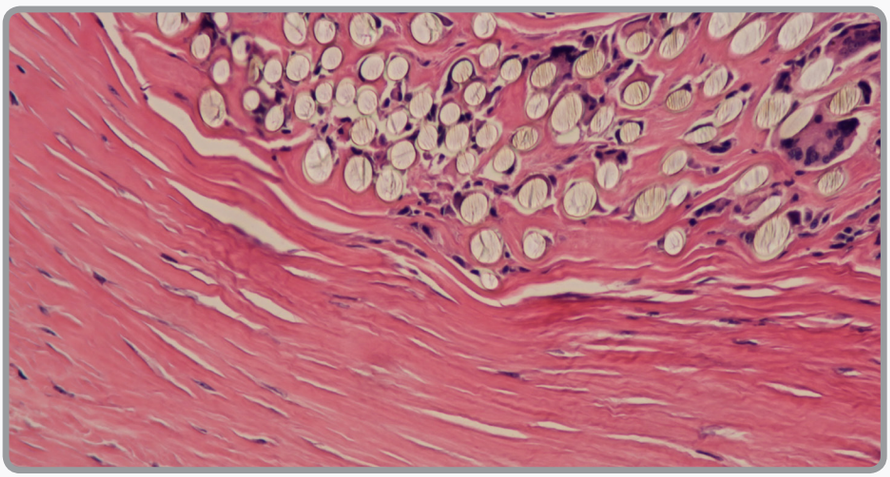
TIGR® Matrix - **12 months** post implantation:

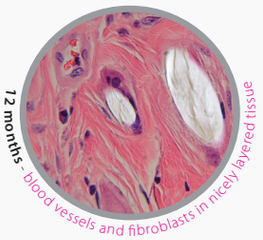
'fast' fiber gone & 'slow' fiber aiding tissue integration /regeneration



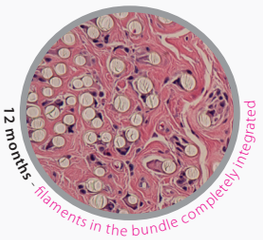
TIGR® Matrix - **12 months** post implantation:

nicely layered, new connective tissue & mesh filaments co-exist as TIGR® Matrix degrades with increasing mechanical compliance and pore size.

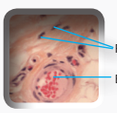




12 months - blood vessels and fibroblasts in nicely layered tissue

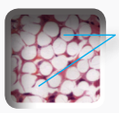


12 months - filaments in the bundle completely integrated



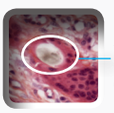
Fibroblasts

Blood vessel



Individual filaments in the multifilament bundle

Organized (layered) fibroconnective tissue Collagen



TIGR® Matrix filament engulfed by giant cell *phagocytosis*

188M-02

TIGR® Matrix *Surgical Mesh* is available for sale in the U.S. and selected countries in Europe and Asia in sizes: 10x15cm & 20x30cm.

About Novus Scientific

Novus Scientific (www.novusscientific.com) is an innovator in the development and commercialization of resorbable synthetic medical devices.

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www.tigrmatrix.com

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