



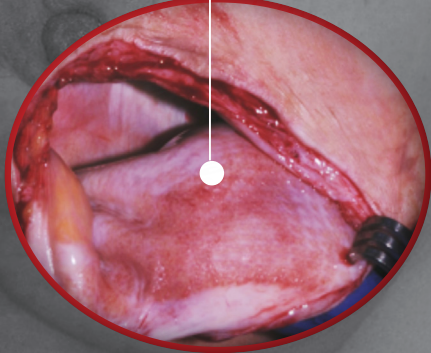
TIGR[®]

resorbable matrix

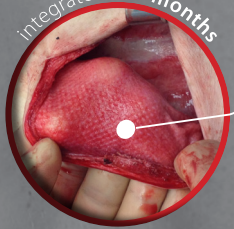
1 year in breast

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

TIGR[®] Matrix in right breast 1 year after implantation




integrated at 4 months




abundant fibroconnective tissue is already becoming established as the fiber bundles of TIGR[®] Matrix integrate with existing tissue and become increasingly mechanically compliant

integrated at 12 months



connective tissue is infiltrating the fiber bundle and fibroblasts are abundant as neovascularization accelerates with **mtr**. TIGR[®] Matrix has successfully reinforced the site and is still aiding in the generation of new tissue. In 2 more years it will be completely gone

integrated at 12 months



Carcinoma of right breast procedure #1 (mastectomy & reconstruction)

Inferior pole elevated by fixating TIGR[®] Matrix in left breast to reinforce the inframammary fold procedure #2 (mastopexy)

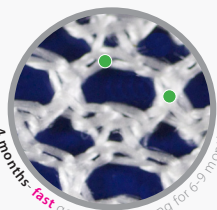
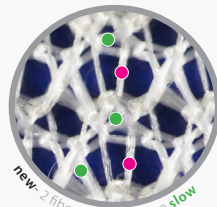
TIGR[®] Matrix - the future of reinforcement matrices.

Indication for Use

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 CO₂ or excreted by natural means.

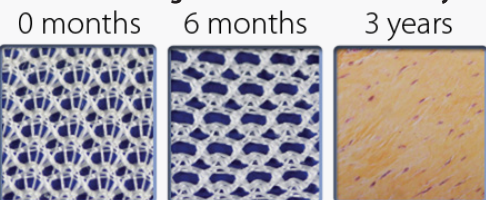
Following the initial post-operative two week healing phase **TIGR[®] Matrix** becomes increasingly mechanically compliant as its mechanical strength decreases. This encourages the process of mechanotransduction - **mtr**



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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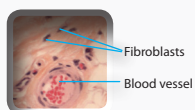
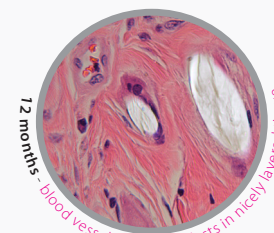
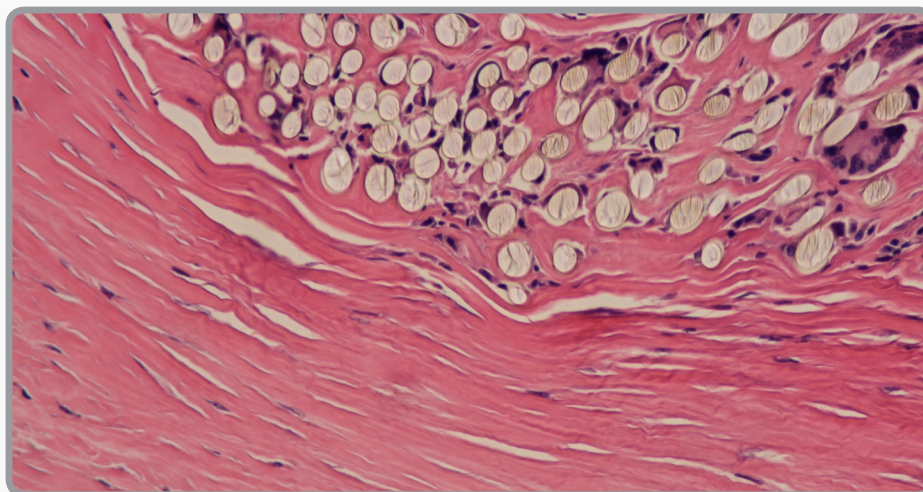
TIGR® Matrix - 4 months post implantation:
both fibers nicely integrated & giving ample reinforcement where needed



TIGR® Matrix - 12 months post implantation:
'fast' fiber gone & 'slow' fiber aiding tissue integration /regeneration



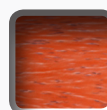
TIGR® Matrix - 12 months post implantation:
nicely layered, new connective tissue & mesh filaments co-exist as TIGR® Matrix degrades with increasing mechanical compliance and pore size.



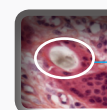
Fibroblasts
Blood vessel



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.

Visit our **PRESSROOM**: <http://www.mynewsdesk.com/pressroom/novus-scientific> or follow us on **Twitter**: NovusScientific
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