

Implant Based Breast Reconstruction

Same patient, two different meshes

ADM vs Resorbable Synthetic

This unique study included patients having a bilateral mastectomy with immediate reconstruction who were randomized to a biological mesh on one side and synthetic mesh on the other side.

Surgeons from a Swedish hospital found that TIGR® Matrix surgical mesh ⁽¹⁾ had a lower risk for serious complications compared with the biological mesh ⁽²⁾.

The most common complication was seroma formation with a frequency of 38% in the biological group and 3.8% in the synthetic group.

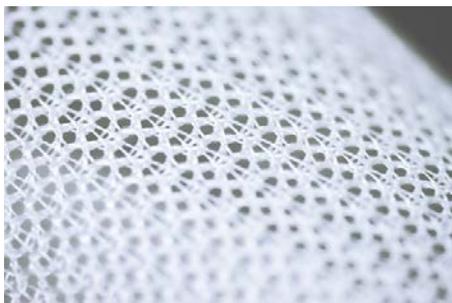
TIGR® Matrix surgical meshes were completely integrated during the exchange to a permanent implant, whereas the biological meshes were poorly integrated in the patients who had seroma.

Total implant loss was also more frequent in the biologic mesh group (8.5% vs. 2%).

Overall, TIGR® Matrix had a lower risk for serious complications.

⁽¹⁾TIGR® Matrix Surgical Mesh (Novus Scientific, Uppsala, Sweden) is knitted from two types of fibers; a fast degrading copolymer between glycolide and trimethylene carbonate and a slow-degrading copolymer between lactic and trimethylene carbonate. The fast degrading part gives extra strength during the healing phase (4 months) and gradually becomes softer and more flexible. The slow-degrading part is completely resorbed after about three years.

⁽²⁾Biological Veritas Collagen Matrix (Synovis Surgical Innovations) is a non-fenestrated xenograft made of bovine pericardium. It is composed of non-cross-linked propylene oxide-treated acellular collagen matrix.



TIGR® matrix

About the company: NOVUS SCIENTIFIC AB, a soft tissue regeneration company based in Uppsala, Sweden. The vision is to develop products based on resorbable materials in order to help the body to heal itself. The first product introduced to the market is TIGR® Matrix, the world's first long-term resorbable surgical mesh. The field of use is in breast reconstruction and abdominal wall reinforcement. All Novus Scientific products are currently classified as class III devices.

For more information, please visit www.novusscientific.com or contact us at info@novusscientific.com

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DOI: 10.1002/jso.26227 RESEARCH ARTICLE First-year complications after immediate breast reconstruction with a biological and a synthetic mesh in the same patient: A randomized controlled study Emma Hansson MD, MA, PhD | Ann-Chatrin Edvinsson RN | Anna Elander MD, PhD | Lars Kölby MD, PhD | Håkan Hallberg MD, PhD