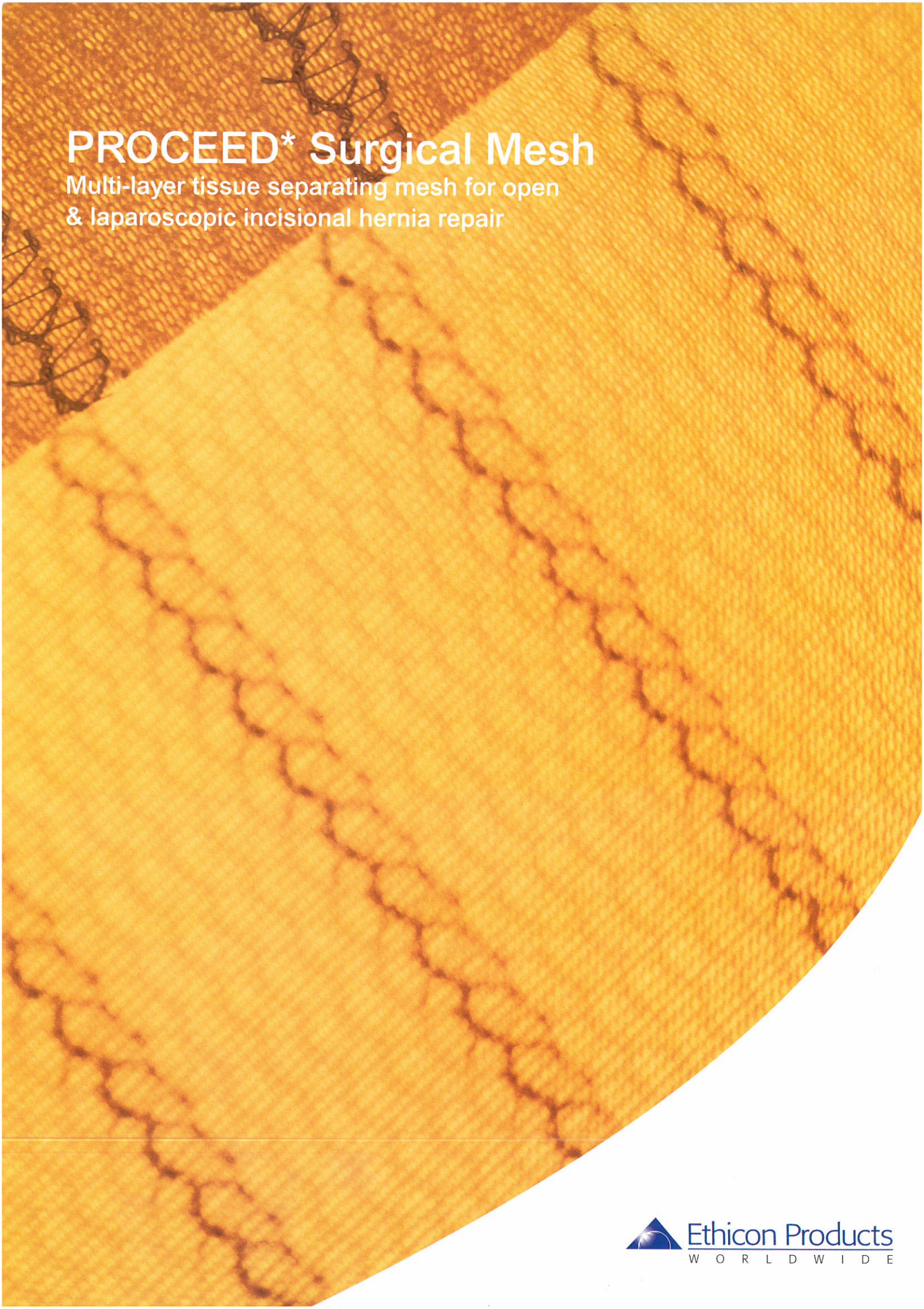


PROCEED* Surgical Mesh

Multi-layer tissue separating mesh for open & laparoscopic incisional hernia repair

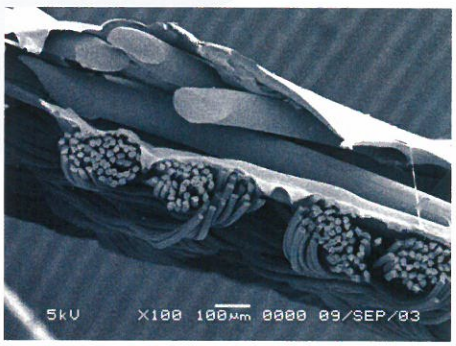
Ethicon Products
WORLDWIDE

Redefining Ventral Hernia Repair

New PROCEED* Surgical Mesh takes ventral hernia repair to the next level. It features a thin, bioresorbable fabric layer that effectively separates its strong, supportive mesh from underlying tissue and organs. A composite of proven products from ETHICON, PROCEED* Surgical Mesh addresses the issues of tissue attachment, infection, and sub-optimal handling that remain potential problems with currently available tissue separating meshes. PROCEED* Surgical Mesh defines a new level of performance.

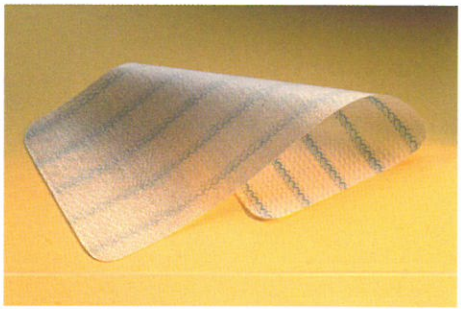
Properties:

- PROLENE* Soft Mesh
  - Polypropylene encapsulated with polydioxanone (PDS)
    - Designed for strength, durability, and adaptability
- Oxidized regenerated cellulose (ORC) fabric
  - Minimizes tissue attachment
- Absorbable polydioxanone (PDS)
  - Bonds the ORC to the mesh



Benefits of PROCEED* Surgical Mesh:

- Designed to reduce the risk of infection[1]
  - No ePTFE
    - Open pore structure
- Optimal handling
  - Easy deployment
    - Can recover to original shape
      - Customizable
- Low profile



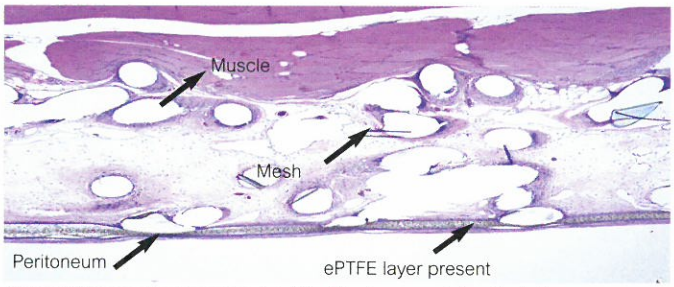
Making strides against potential post-surgical problems

Designed to reduce the risk of infection[1]

- Absence of ePTFE
- Macroporous mesh structure

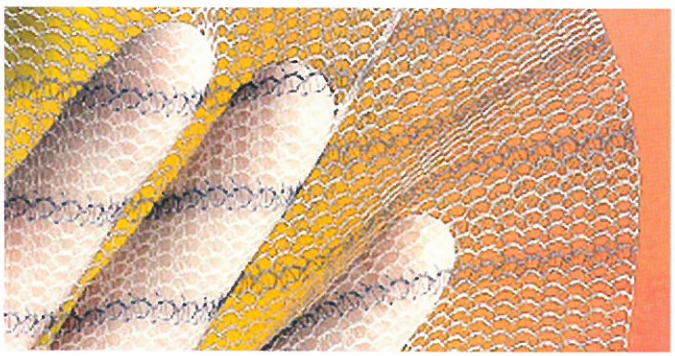
Less residual foreign material

PROCEED* Surgical Mesh 40x. 91 days post implantation



Other Composite Biomaterial 40x. 91 days post implantation

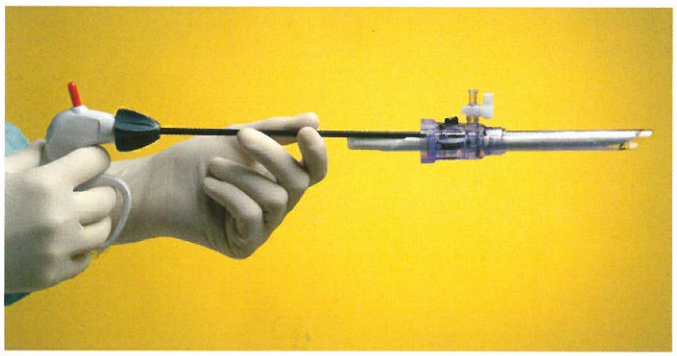
After PDS and ORC are absorbed, macroporous polypropylene mesh structure remains



Promoting Procedural Benefits With Optimal Handling

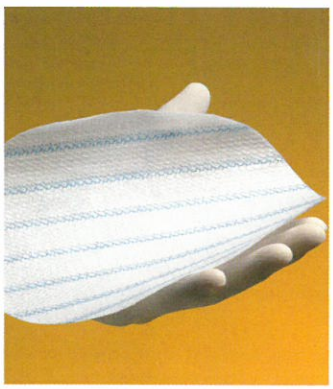
Offers easy deployment

- Low profile
- Durable – ORC stays intact during manipulation
- Blue striped surface shows differentiation between in-growth and visceral sides



Can recover to original shape

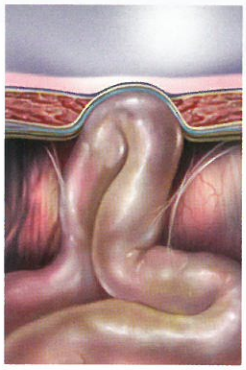
- Once the mesh has been placed in the intraabdominal cavity, the mesh is easy to unroll and position
- Conforms to anatomy



Customizable

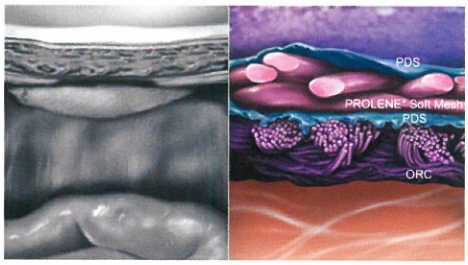
- Can be readily customized
- Cuts without delamination
- Can write on the visceral side of the mesh

The Progress of Wound Healing



Step #1:

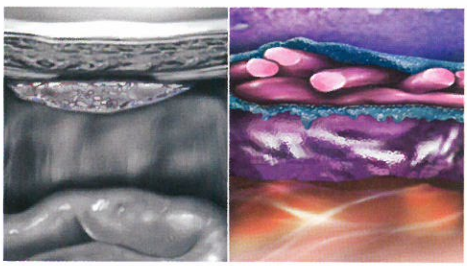
Ventral/Incisional hernia defect



Step #2:

Implant day 1

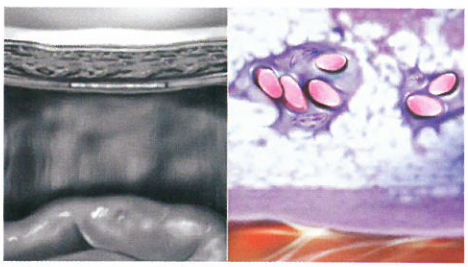
Hernia sac contents reduced and any adhesions are removed. The mesh is implanted over the defect.



Step #3:

Implant day 14

The PDS breaks down and the ORC forms a continuous gel that physically separates the mesh from the internal viscera. Neoperitoneum is formed within 7-10 days.



Step #4:

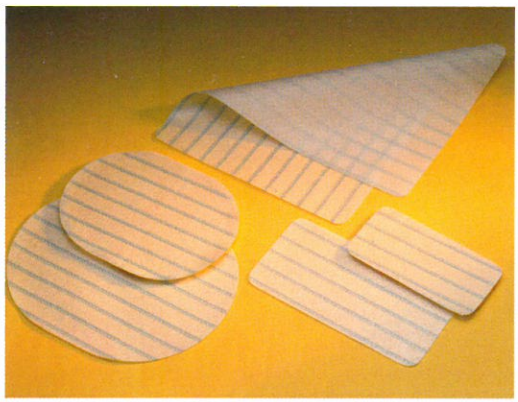
Complete incorporation

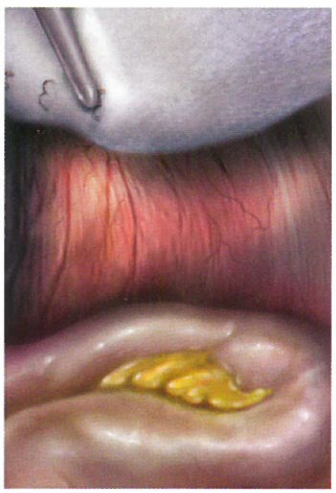
The PDS and ORC are completely absorbed. The remaining polypropylene mesh is surrounded by fibroblasts and the neoperitoneum is supported by a well-organized fibroblast bed.

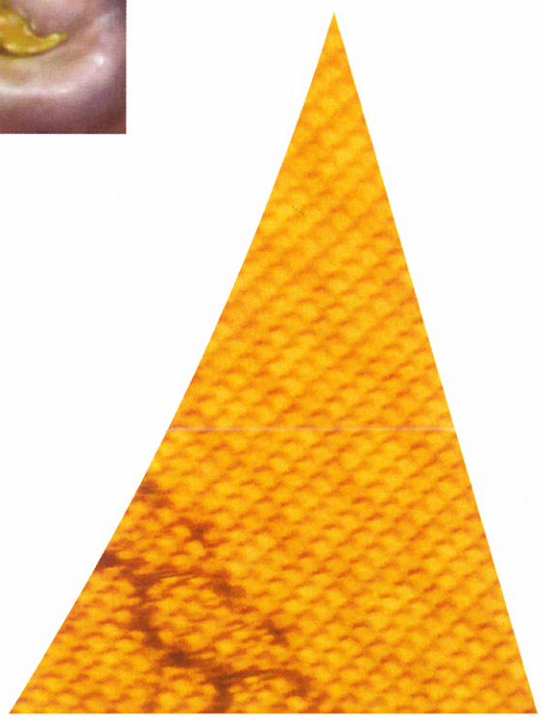
A Significant Step Forward In Intraabdominal Ventral Hernia Repair

PROCEED* Surgical Mesh

Code	Dimensions	Packaging
PCDB1	5cm x 10cm Rectangular	1 per box
PCDR1	7.5cm x 15cm Rectangular	1 per box
PCDN1	10cm x 15cm Oval	1 per box
PCDD1	10cm x 20cm Rectangular	1 per box
PCDM1	15cm x 15cm Square	1 per box
PCDG1	15cm x 20cm Oval	1 per box
PCDH1	20cm x 25cm Oval	1 per box
PCDJ1	20cm x 30cm Rectangular	1 per box
PCDT1	26cm x 34cm Oval	1 per box
PCDW1	25cm x 35.5cm Rectangular	1 per box
PCDL1	30.5cm x 30.5cm Square	1 per box



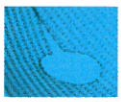
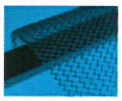
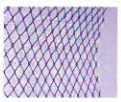
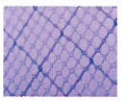
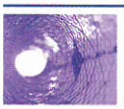
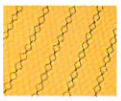
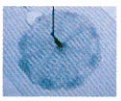
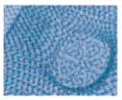




Tissue Reinforcement Solutions

Confidence in your hands

One source for all your surgical mesh needs

 MERSILENE* mesh	Pliable polyester mesh for the repair of abdominal wall fascial defects
 PROLENE* mesh	Clinically-proven polypropylene mesh for the repair of abdominal wall fascial defects
 ENDOROLL* PROLENE* mesh	Unique NO-TOUCH polypropylene mesh system for laparoscopic inguinal hernia repair
 VYPRO* mesh	Pliable lightweight multifilament mesh for incisional hernia repair
 VYPRO* II mesh	Lightweight multifilament mesh for open & laparoscopic inguinal hernia repair
 VYPRO* II *visor* mesh	Unique lightweight multifilament mesh for grid-iron hernioplasty
 ULTRAPRO* mesh	Lightweight monofilament mesh for abdominal wall reinforcement
 PROLENE* 3D Patch	One-piece low-profile hernia device for the repair of small abdominal wall hernias
 PROLENE* Hernia System	Unique 3-in-1 hernia device for the combined anterior & posterior repair of groin hernias
 VICRYL* mesh	Absorbable mesh for temporary wound or organ support
 PROCEED* Surgical Mesh	Multi-layer tissue separating mesh for open & laparoscopic incisional hernia repair

1 P.K. Amid, Classification of biomaterials and their related complications in abdominal wall hernia surgery, Hernia (1997) 1:15-21.

Contact your local ETHICON representative for training opportunities or for more information on PROCEED* Surgical Mesh or other Tissue Reinforcement Solutions. You can also visit our website at www.jnjgateway.com.

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