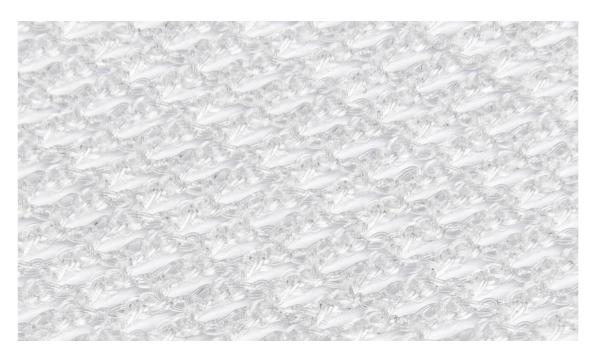






Tissue healing makes the difference



Partially **resorbable** yet **permanently** strong **Extraperitoneal Optimised** fibrosis

TISSUE HEALING MAKES THE DIFFERENCE

4DVentral[®] is a midweight hydrophilic partially resorbable implant designed for the extraperitoneal treatment of ventral and incisional hernias.

PRODUCT'S KEY POINTS

Partially resorbable yet permanently strong

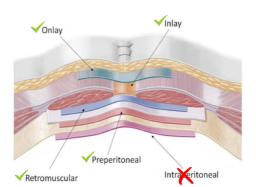
4DVentral® is a different concept aiming to combine best of both:

- patient's comfort by using partially resorbable material
- high permanent resistance to prevent any long term recurrence

After PLLA resorption, 4DVentral® becomes and remains a **midweight** mesh (65g/m²) with the following benefits for the patient:

- softand flexible to conform to patients' daily abdominal mobilisation for a good quality of life
- 32N/cm after PLLA resorption for a permanent mesh strength

The recent study conducted at the Carolinas Medical Center⁽¹⁾, states that a midweight mesh is the mesh of choice for open ventral hernia repair for all patients, as they lead to less recurrence.⁽¹⁾



60% PLLA

Best placement, Extraperitoneal

4DVentral® matches latest KOL's recommendations which encourage extraperitoneal mesh placement to avoid challenging adhesions. The message is now «keep out of the peritoneum as much as possible!» Why taking the risk of serious complications?

Ideal extraperitoneal mesh placement is agreed to be retromuscular or preperitoneal when possible and 4DVentral® has been designed to fit these surgical approaches.

Optimised fibrosis⁽²⁾

PLLA combined to polypropylene leads to an absence of mesh shrinkage and lower inflamation: better tolerance compared to 100% polypropylene meshes.

Prof. Leroy's in-vivo animal study also shows earlier and higher amount of collagen fibers, thus an earlier support for abdominal wall repair.

> A FULL PRODUCT RANGE



Round

Cousin Biotech S.A.S capital : 340 656 € - 398 460 261 RCS Lille - N°TVA FR 34 398 460 261



Square



Rectangular

>MATERIAL

60% monofilament PLLA - resorbable / 40% monofilament polypropylene - non resorbable

(1) Lightweight vs Midweight Polypropylene Mesh in 948 Open Ventral Hernia Repairs (OVHR)
Laurel J Blair, MD, Ciara Huntington, MD, Tiffany C Cox, MD, Tanushree Prasad, Amy E Lincourt, PhD, MBA, Vedra A Augenstein, MD, FACS, B Todd Heniford, MD, FACS
Carolinas Medical Center, Charlotte, NCJ Am Coll Surg 2015;221:S73

(2) Tanaka K., Mutter D., Inoue H., Lindner V., Bouras G., Forgione A., Leroy J., Aprahamian M., Marescaux J. In Vivo evaluation of a new composite mesh 10% Polypropylene/90% Poly-L-Lactic Acid for Hernia Repair. J Mater Sci: Mater Med 2007; 18: 991-999. Animal study.





Semi-resorbable parietal reinforcement implant

EXTRAPERITONEAL

> PRODUCT DESCRIPTION

Monofilament polypropylene and poly-L-lactic acid (PLLA) knit.

Products are sold in a double pouch and packaged in a box. They are ethyl oxyde sterilised, CE marked, class III, semi-resorbable. No animal nor human origin.

> INDICATIONS

For the extraperitoneal treatment and reinforcement of ventral and incisional hernias.



> REFERENCES AND SIZES

Shape	Reference	Description and size (cm)
	4DVENT12RO	Round mesh Ø 12
	4DVENT1515	Mesh 15x15
	4DVENT1530	Mesh 15x30
	4DVENT2025	Mesh 20x25
	4DVENT3030	Mesh 30X30
	4DVENT3050	Mesh 30X50

> TECHNICAL CHARACTERISTICS

MATERIAL

Extraperitonea

- 60% monofilament PLLA
- 40 % monofilament polypropylene

WEIGHT BEFORE RESORPTION

• $155 \pm 6 \text{ g/m}^2$

WEIGHT AFTER RESORPTION

• $65 \pm 5 \text{ g/m}^2$

POROSITY

 \bullet 85% ± 2%

PORE SIZE

• 4 x 2 mm

MEAN BURST STRENGTH AFTER PLLA RESORPTION

• 37N/cm

REY MEDICAL SA: YOUR PARTNER IN SURGERY

• QUALITY • SECURITY • ECONOMY

Visit our website: www.reymedical.ch or call us: 022 743 24 10