

4D *Ventral*®

Tissue healing makes the difference



Partially **resorbable** yet **permanently** strong
Extraperitoneal
Optimised fibrosis (preclinical model)

4DVentral® : TISSUE HEALING MAKES THE DIFFERENCE

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

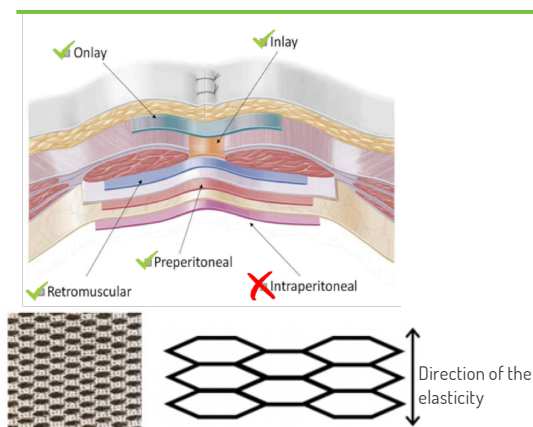
> PRODUCT DESCRIPTION

Partially **resorbable**, yet **permanently** strong

4DVentral® is a concept that aims at combining two benefits :

- patient's comfort, with partially absorbable material
 - permanent strength in order to prevent long term recurrences
- After PLLA resorption, 4DVentral® keeps an intermediate density (65 g/m²), allowing the patient to benefit from the two following advantages:
- souplness and flexibility, patient comfort
 - 37 N/cm after PLLA resorption, permanent strength of the mesh.

> KEY POINTS



Best placement, **Extraperitoneal**

- Retromuscular or preperitoneal when possible

Optimised fibrosis ⁽¹⁾ (preclinical model)

- Absence of mesh shrinkage
- Better tolerance

The 4D Ventral® mesh is placed in the newly formed pre-peritoneal space and fixed (or not, according to the surgeon's advice) on the muscle layer above. The implant has an oriented elasticity (the surgeon may choose to place the elastic direction craneo-caudal or transversal, depending on his preference)

> REFERENCES AND SIZES

	Shape	Reference	Description and size (cm)
Extraperitoneal	○	4DVENT05R0	Round mesh Ø 5
	○	4DVENT07R0	Round mesh Ø 7
	○	4DVENT09R0	Round mesh Ø 9
	○	4DVENT12R0	Round mesh Ø 12
	□	4DVENT1515	Mesh 15x15
	□	4DVENT1530	Mesh 15x30
	□	4DVENT2025	Mesh 20x25
	□	4DVENT3030	Mesh 30x30

> MATERIAL AND WEIGHT

60% monofilament PLLA - resorbable / 40% monofilament polypropylene - non resorbable
155 ± 6 g/m² weight before resorption / 65 ± 5 g/m² weight after resorption

(1) 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.