

# Free at heart

## FREE is a next-generation tissue treatment

**FREE addresses both causes of calcification: phospholipids and aldehydes**

### NEW

#### PHOSPHOLIPIDS REMOVAL

Phospholipids are intrinsically present in biological tissue. They are potential binding sites for calcium.<sup>1</sup>

**During the manufacturing process phospholipids are dissolved and eliminated**

#### GLUTARALDEHYDE FIXATION AND STERILIZATION

After the phospholipids reduction, the tissue undergoes a fixation process to stabilize its mechanical properties, get sterilized and reduce immune response.<sup>1</sup>

### ENHANCED

#### ALDEHYDE NEUTRALIZATION

Free aldehydes are a consequence of the fixation process. They favor toxicity and calcification.<sup>1</sup>

**Aldehydes are “capped” and neutralized during manufacturing**



#### ALDEHYDE FREE STORAGE SOLUTION

Before packaging, the valve undergoes an industrialized rinsing process.

The valve is stored in an aldehyde-free solution, resulting in negligible toxicity for the patient and a faster procedure for the surgeon as no rinsing is required.<sup>2</sup>

**-99%**  
calcification\*

**-96%**  
phospholipid content\*

**≈0%**  
aldehyde toxicity<sup>2</sup>

**READY TO USE**

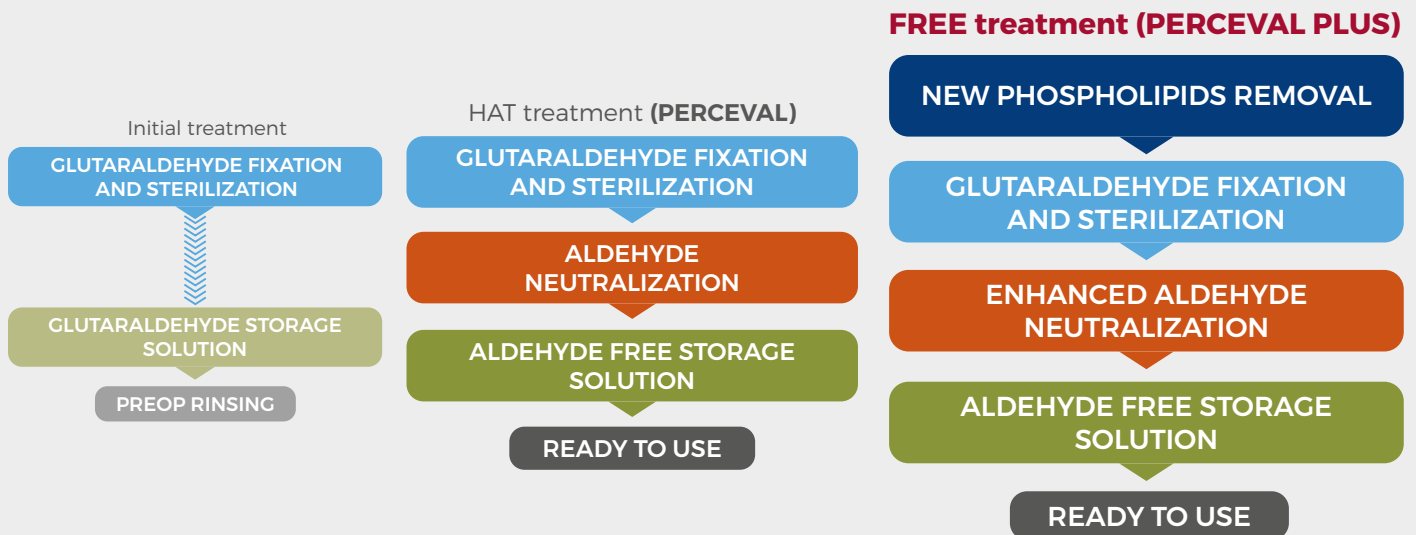
# FREE is designed to improve durability<sup>2</sup>

\* vs control group<sup>2</sup>

1. Thiene et al., *The Journal of Heart Valve Disease* 2011;20:37-44  
2. Meuris et al., *J Thorac Cardiovasc Surg.* 2018 Jul;156(1):197-206

Technical claims are supported by Corcym data on file

# The evolution of tissue treatments at CORCYM



## FREE is one of the most advanced tissues you can choose for your patients

Treatment	Valve	Phospholipid removal	Aldehydes neutralization	No rinse required
FREE	PERCEVAL PLUS	✓	✓	✓
RESILIA	INSPIRIS RESILIA	✓	✓	✓
XENOLOGIX	PERIMOUNT PLATFORM	✓	✗	✗
THERMAFIX	MAGNA AND INTUITY PLATFORMS	✓	✓	✗
LINX	EPIC/TRIFECTA	✓	✓	✗
AOA	MOSAIC/FREESTYLE	✓	✓	✗
AOA	AVALUS	✓	✓	✗

RESILIA, XENOLOGIX, THERMAFIX, INSPIRIS RESILIA, PERIMOUNT, MAGNA and INTUITY are commercialized by EDWARDS LIFESCIENCES; LINX EPIC, TRIFECTA are commercialized by ABBOTT; AOA, MOSAIC, FREESTYLE and AVALUS are commercialized by MEDTRONIC.

### INTENDED USE/INDICATIONS

**EUROPE:** Perceval/Perceval Plus prosthesis is intended to replace a damaged native aortic heart valve or a malfunctioning aortic prosthesis via open heart surgery. The prosthesis is indicated for use in adult patients suffering from aortic valve stenosis or steno-insufficiency or with a previously implanted aortic valve prosthesis that is no longer functioning adequately and requires replacement.

**US:** The Perceval/Perceval Plus bioprosthesis is indicated for the replacement of diseased, damaged, or malfunctioning native or prosthetic aortic valves.

**CANADA:** The Perceval/Perceval Plus bioprosthesis is intended for use in patients aged ≥ 65 years in which the aortic valve pathology is in an advanced stage to require the replacement of the native or malfunctioning previously implanted prosthesis.

**AUSTRALIA:** Perceval prosthesis is indicated for the replacement of a diseased native or a malfunctioning prosthetic aortic valve via open heart surgery. The prosthesis is indicated in patients who meet the following criteria: 1) subjects of age ≥ 65 years 2) subjects with aortic valve stenosis or steno-insufficiency.

**TOP POTENTIAL SIDE EFFECTS:** non-structural dysfunction, cardiac conduction disorders, structural valve deterioration, thromboembolism.

### MRI conditional

For professional use. Instructions for Use are available upon request through the manufacturer's website. Not approved in all geographies. Consult your labeling.



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