

## BioIntegral No-React® Porcine Pericardial Patches

### Features

- Supple, easy to handle
- No rinsing required
- Good suture reapproximation
- Available in both flat and curved patches
- Curved patches suitable for Norwood Procedure

### Indications

- Use as an intracardiac patch to:
  - Close intercavity defects
  - Enlarge the aortic root and carotid endarterectomy
  - Pericardial closure
  - Soft Tissue Repair



BioIntegral Surgical manufactures cardiac and vascular implants made from all-biological materials using the No-React® treatment.

The No-React® treatment is a heparin-based proprietary detoxification and biomodification of glutaraldehyde-treated tissue that further stabilises tissue cross-linking and prevents the release of aldehydes.

The No-React® process “fixes” the glutaraldehyde so that it cannot leach out from the tissue – this avoids the problems that residual glutaraldehyde can cause which include infection, foreign body reaction, calcification and adhesions .

- No-React® Treated Porcine Patches
- Demonstrated to reduce adhesions<sup>1</sup> and offer high biocompatibility<sup>2,3</sup>
- No pre-rinsing necessary, patches are ready to use and so save preparation time
- High tensile and pull strength<sup>4</sup>
- Available as Flat or Curved patches
- Vascular patches have curved ends

12 years of clinical experience with No-React® devices shows:

- Reduced toxicity
- Enhanced biocompatibility
- Lower rates of infection, adhesion
- No reports of calcification
- The promotion of endothelial lining<sup>5,6</sup>

# Curved Patches for Norwood Procedure

## Contact

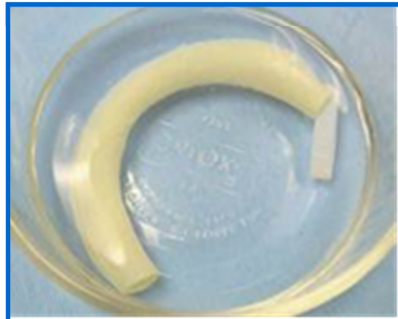
For customer services and for any further information on the Patches or any of the other products in the BioIntegral Surgical No-React® range please contact:

Pierson Surgical Ltd

01225 766632

Or

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Curved No-React® Porcine Patches are available in 3 diameters and lengths.

There are several advantages to the use of porcine pericardium over allograft material for the aortic arch reconstruction in patients undergoing a Norwood procedure:

- ◆ The porcine pericardial patch is readily available and does not require any special storage (preserved in benzyl alcohol), unlike homograft tissue, which requires cryopreservation.
- ◆ Cost savings with the use of the porcine pericardium; the cost of a homograft is likely to be over twice that of the BioIntegral Surgical patch
- ◆ No-React® patches do not induce the development of anti-HLA antibodies associated with the use of cryopreserved allograft material. Elevated levels of anti-HLA antibodies have been shown to lead to a higher probability of future transplant rejection and given that patients undergoing the Norwood procedure are probable candidates for a future transplant this is an important consideration.

## Product Codes

**CAUTION:** Refer to the Instructions For Use provided with each device for complete information regarding indications for use, contraindications, warnings, precautions and potential complications.

Flat Patches	
NRPP-01x07	1 x 7 cm
NRPP-02x07	2 x 7 cm
NRPP-02x09	2 x 9 cm
NRPP-03x03	3 x 3 cm
NRPP-05x05	5 x 5 cm
NRPP-06x10	6 x 10 cm
NRPP-08x14	8 x 14 cm

Curved Patches	
NRPP-11m09	11mm Diameter Min length 9cm
NRPP-13m11	13 mm Diameter Min length 11cm
NRPP-15m12	15 mm Diameter Min length 12 cm

## REFERENCES

- 1 Pelosi, MA II, Pelosi MA III. "A new nonabsorbable adhesion barrier for myomectomy", Am J Surg. 2002 Nov;184(5):428-32.
- 2 Amir Aboholda, et al. "No-React Detoxification Process: A Superior Anticalcification Method for Bioprostheses", Ann. Thor. Surg. 1996;62:1724-30.
- 3 Victor O. Morell and Peter A. Wearden. "Experience With Bovine Pericardium for the Reconstruction of the Aortic Arch in Patients Undergoing a Norwood Procedure", Ann Thorac Surg 84, no. 4 (October 1, 2007): 1312-1315.
- 4 Bench testing, data on file.
- 5 Michele Musci, et al. "Surgical therapy in patients with active infective endocarditis: seven-year single centre experience in a subgroup of 255 patients treated with the Shelhigh stentless bioprosthesis", European Journal of Cardiothoracic Surgery 34 (2008) 410-417.
- 6 Dohmen et al., "Endothelial Cell-Seeded Bovine Internal Mammary Artery for Complete Revascularization", Ann Thorac Surg 83, no. 3 (March 1, 2007): 1168-1169.