

No-React® Valved Aortic BioConduit

The only all-biological valved conduit for use in the aortic position

Benefits

Made entirely of biological materials, treated with the No-React® process so the Conduit is very resistant to infection

Avoids calcification and hence is more durable

Very low incidence of structural deterioration

No incidence of thrombosis, stenosis or calcification.

Excellent Haemodynamics

Immediately ready for use as no rinsing is required



- The No-React® Aortic BioConduit **has the lowest reinfection rate of any biological xenograft** and shows reinfection resistance equal to that of homografts
- No-React® tissues avoid calcification issues in patients of every age—and the advantages are greater for younger patients
- Ten years' data shows very low incidence of structural valve deterioration in No-React® Conduits, with no incidence of thrombosis, stenosis or calcification.

Valve conduits are typically available in three different designs:

1. Mechanical valves in woven polyester fabric conduits (collagen coated and noncoated).
2. Homografts.
3. Xenografts in woven polyester fabric conduits

The BioIntegral No-React BioConduit Aortic Valve Conduit gives surgeons a better alternative. It contains a composite stentless valve, with superior haemodynamics, compared to mechanical valves. Since it is made of only biological materials, the risk of infection can be reduced.

The conduit contains a composite porcine valve with excellent haemodynamic properties. The conduit is made of a No-React treated bovine pericardial tube. The risk of infection is reduced because only natural material is used.

There is also no need for anticoagulation therapy.

“ The No-React® composite stentless aortic valved conduit provides excellent clinical results with very few prosthesis-related complications for at least the first 10-years of implantation.”

Sosnowski, A. et al

Materials	Porcine Composite Valve Bovine Pericardial Tube
No-React® Treated Tissue	<ul style="list-style-type: none"> • Reduced toxicity • Enhanced biocompatibility • Lower rates of infection, adhesion, and calcification • Promotion of endothelial lining
Design Features	<ul style="list-style-type: none"> • Made entirely of biological materials , treated with the No-React® process so the Conduit is very resistant to infection • Avoids calcification and hence is more durable • Very low incidence of structural deterioration • No incidence of thrombosis, stenosis or calcification. • Excellent Haemodynamics • Immediately ready for use as no rinsing is required

Contact

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

Pierson Surgical Ltd

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

CE Approval expected Aug 2011
Currently Approved for Humanitarian Use

Clinical Papers

Carrel, T.P. et al. (2003). Aortic Root Replacement with a New Stentless Aortic Valve Xenograft Conduit: Preliminary haemodynamic and Clinical Results. The Journal of Heart Valve Disease, 12:752-7.

Meduoye, A., Sosnowski, A. and Manuel Galiñanes. (2010). "No-React Composite Stentless Aortic Valved Conduit: A Decade of Experience." Presented at Ten Years Follow-Up with No-React Heart Valves, Toronto, Canada, May 2, 2010.

Siniawski, H. et al. (2003). "Stentless aortic valves as an alternative to homografts for valve replacement in active infective endocarditis complicated by ring abscess." The Annals of Thoracic Surgery, 75:803-808