

Cardioroot Aortic Graft

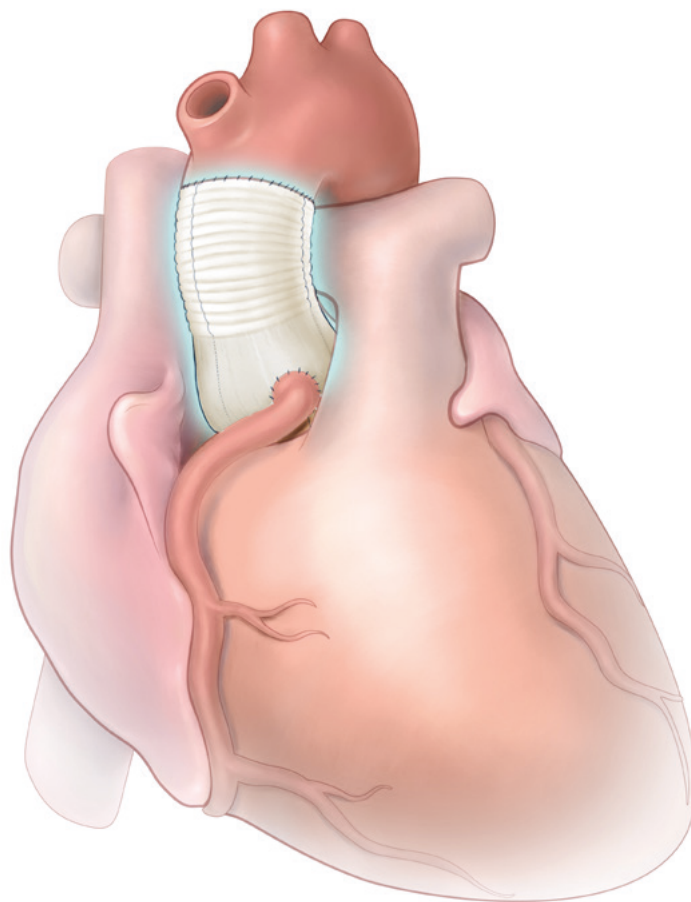
Inspired by anatomy¹

Solutions. Selection. Support.

GETINGE 



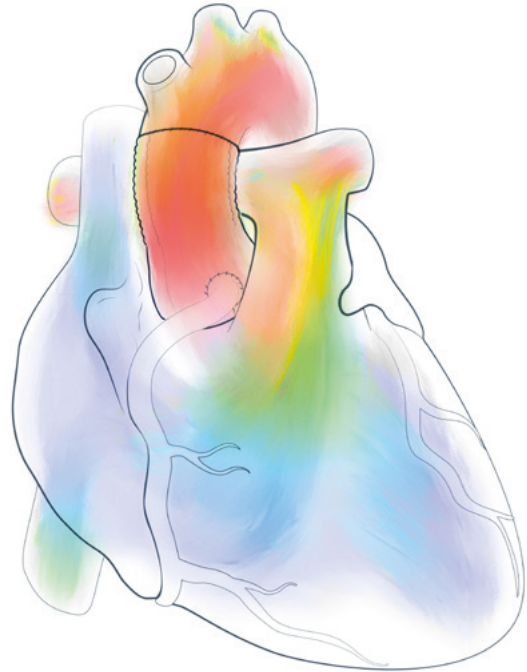
For more than 40 years, surgeons have trusted Getinge to meet their clinical demands with durable cardiovascular grafts in anatomically-designed configurations. The versatile and unique anatomical design of Cardioroot aortic graft supports all types of complex aortic root surgeries.



Anatomical design

Innovative design of Cardioroot mimics the anatomy and blood flow dynamics of the natural sinuses of Valsalva.

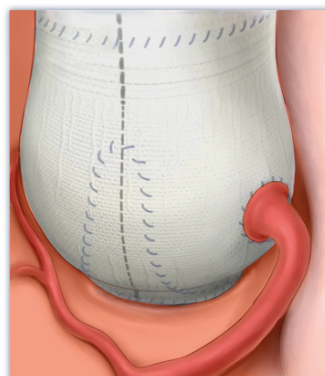
- Provides optimum flow dynamics^{1,2}
- Reproducing a near normal leaflet-sinus unit morphology thanks to anatomical reconstruction of the sinuses¹
- Optimize coronary flow dynamics¹



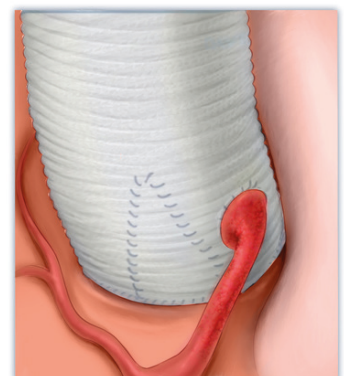
Premium handling

Anatomical design of Cardioroot provides premium handling properties.

- Precise suturing of coronary buttons thanks to uncrimped bulge¹
- Helps to relieve the stress on the coronary anastomoses³
- Designed to reduce operation time²
- Minimize intraoperative bleeding thanks to collagen coating²
- Seamless, one piece design provides easy suturing and cutting



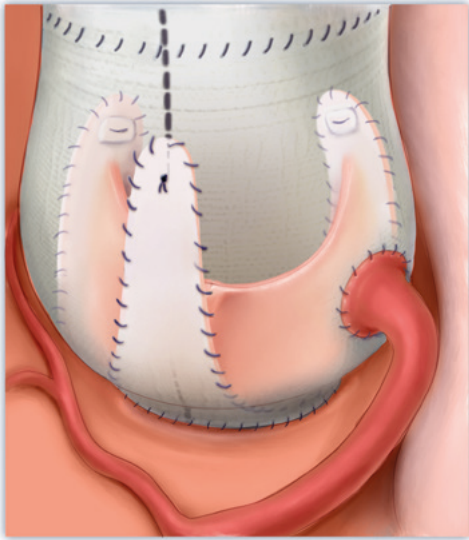
Cardioroot graft



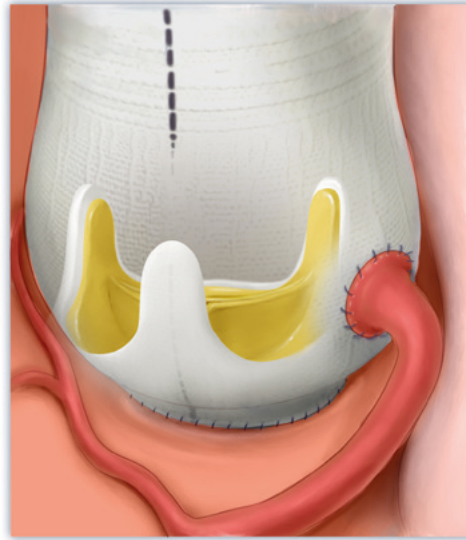
Straight graft

Versatility

Cardioroot is adaptable in all types of aortic root surgeries, which includes all types of reimplantation and remodeling techniques.^{1,4}



Valve sparing procedure



Valve replacement procedure

Safety and durability

Cardioroot demonstrated early and mid-term safety and effectiveness for the treatment of aneurysmal aortic root.¹

- Expected benefits on the durability of the procedure¹
- Proven safety in 1 year follow-up study¹
- Over 10 years of experience
- Maintaining a stable shape and size of the aortic root should prolong the durability of a sparing aortic valve procedure¹

Peri-operative mortality at 30-days¹ > 1.9%

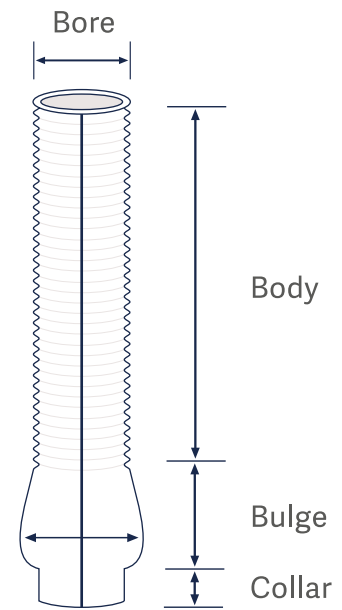
Survival rate at 1-year follow up¹ > 92.6%

No reports of graft-related adverse events, infection or occlusion¹

Physical properties

Cardioroot Aortic Graft

Coated polyester fabric	Cross-linked Type I bovine collagen
Construction	Woven
Water permeability ⁵	< 5 ml/cm ² /min at 120 mmHg
3 reference lines to facilitate proper device alignment ²	



Ordering information


Body Diameter	Body Length	Bulge Diameter	Bulge Length	Collar Length	Reference
24 mm	15 cm	32 mm	24 mm	10 mm	HEWROOT0024
26 mm	15 cm	34 mm	26 mm	10 mm	HEWROOT0026
28 mm	15 cm	36 mm	28 mm	10 mm	HEWROOT0028
30 mm	15 cm	38 mm	30 mm	10 mm	HEWROOT0030
32 mm	15 cm	40 mm	32 mm	10 mm	HEWROOT0032
34 mm	15 cm	42 mm	34 mm	10 mm	HEWROOT0034

References:

1. Tasca, et al., Aortic root surgery with the CARDIOROOT vascular graft: results of a prospective multicenter post-market surveillance study (Journal of Cardiothoracic Surgery, 2019)
2. Clinical Evaluation
3. Weltert, et al., Re-creation of a sinuslike graft expansion in Bentall procedure reduces stress at the coronary button anastomoses: A finite element study (Journal of Thoracic and Cardiovascular Surgery, 2009)
4. Urbanski, et al., New vascular graft for simplification of the aortic valve preimplantation technique (Interact Cardiovascular Thoracic Surgery, 2008)
5. IFU



Cardioroot products are manufactured by Intervascular SAS / Z.I. Athélie 1 · 13705 La Ciotat · Cedex · France · +33 (0)4 42 08 46 46
 This document is intended to provide information to an international audience outside of the US. Refer to Instructions For Use for current indications, warnings, contraindications, and precautions. Products may not be available in all markets. Product availability is subject to the regulatory or medical practices that govern individual markets. Certain products may not be licensed or available in certain countries or in stock. Please check with your local distributor for availability.

Getinge, GETINGE , Cardioroot are trademarks or registered trademarks of Getinge AB, its subsidiaries or affiliates in the United States or other countries. · Getinge and Cardioroot are registered with the US Patent and Trademark Office. · Copyright 2022 Getinge or its affiliates. · All rights not expressly granted are reserved. · PN000051 Rev AA

www.getinge.com