

A New Sinus Prosthesis

Uni-Graft® W Sinus

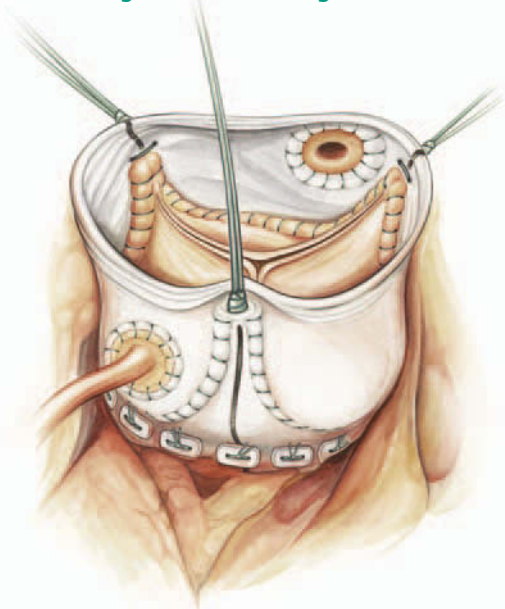


Three separate sinuses with straight interleaflet triangles.



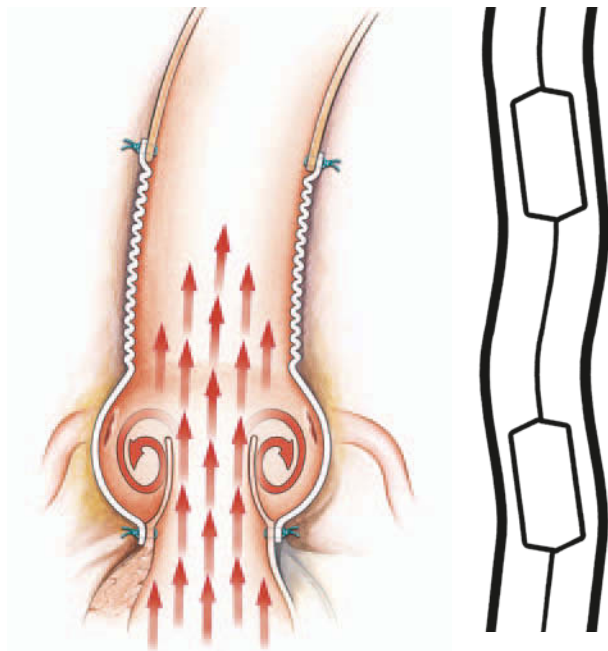
Uni-Graft® W Sinus

Aortic root replacement with a valve-containing conduit is a routine surgery for the repair of aortic root aneurysms. Reimplantation technique according to David or the remodelling technique according to Yacoub can be an attractive alternative alternative to preserve the native aortic valve. Thereby the diseased aortic root tissue is resected and replaced by an Uni-Graft® W Sinus prosthesis. These reconstruction techniques save the patient's own aortic valve without the need for long life oral anticoagulation.



Uni-Graft® W Sinus is pulled over the aortic root and knotted. An U-suture fixes the commissures at the prosthesis and the remaining sinus is sutured with a running technique. Finally the coronary ostia are integrated into the prosthesis.

Innovation for Cardiac



Geometry and blood flow at the aortic root after the valve saving aortic reconstruction. Sinus vortex reduces the stress on the leaflets¹.

No contact of leaflets with the prosthesis wall. Reduces risk of leaflet damage thereby improved physiological valve functionality².

- Anatomically shaped sinuses with a natural "drop" design
- Ability to combine with a mechanical or bioprosthesis for conduit replacement of the aortic root and valve
- Woven in one piece for unlimited cutting options
- Three guidelines for better orientation and facilitated fixation of the commissures.
- Biocompatible gelatine impregnation

¹ David, T. E., Nature Reviews Cardiology 10, 375–386 (2013)

² Schmitke, C. et al., European Journal of Cardio-Thoracic Surgery 43 (2013) 585–590

Surgery

- Zero porosity at the time of implantation
- An outer velour surface increases prosthesis/tissue incorporation
- A smooth inner surface promotes physiological blood flow
- Non-pleated area for accurate prosthesis fixation
- Permanent anticoagulation therapy may not be required



Product Range

Length	Diameter	Product Code
20 cm	26 mm	110 6826
20 cm	28 mm	110 6828
20 cm	30 mm	110 6830
20 cm	32 mm	110 6832

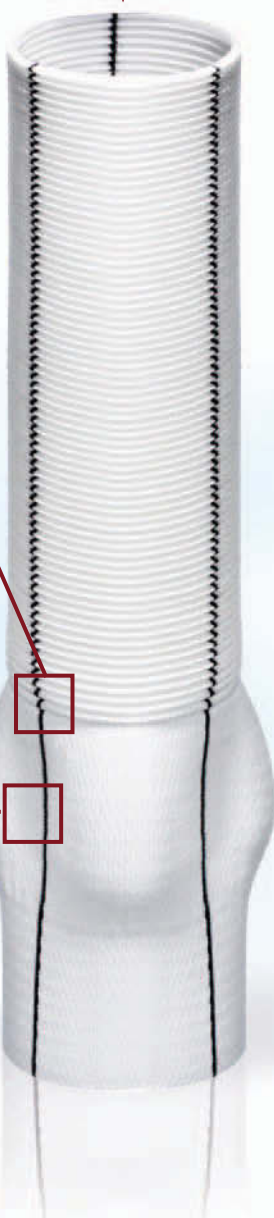
*Aortic valve sinus,
view from above.*

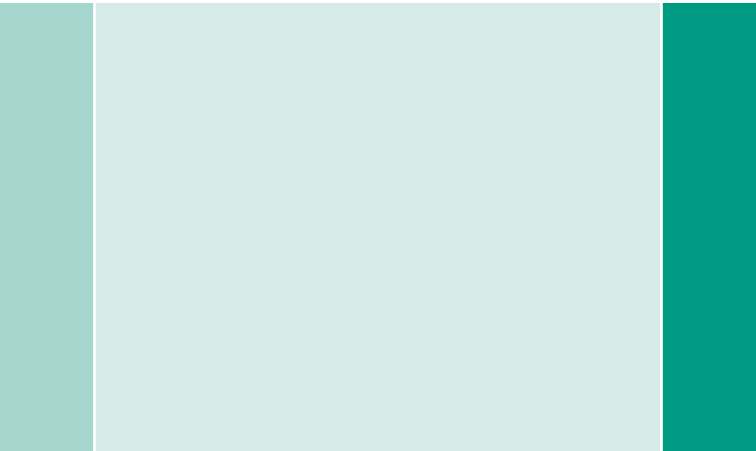


*Transition of the crimped
tube to the uncrimped
sinus of the prosthesis.*



*Guideline for a better
orientation to suture the
commissures.*





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B. Braun Melsungen AG
Vascular Systems | Sieversufer 8 | 12359 Berlin | Germany
Phone +49 30 689897-0 | Fax +49 30 689897-30
www.bbraun.com | www.deb-bbraun.com