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INFORMATION LEAFLET

AQUABRID™ Surgical Sealant

- **READY TO USE**[1]
  No manual mixing or preparation required
- **SHORT REACTION TIME**
  Stops bleeding within a few minutes[2, 3]
- **OPTIMAL USE FOR WET SURFACES**
  Regardless of heparinisation conditions[2, 3]

For more information, visit
terumoaortic.com/aquabrid

Visit our website for more information on use, indications, contraindications, warnings/precautions and availability within your market.

Designed & Manufactured by: Sanyo Chemical Industries, LTD. 11-1, Ikkyo Nomoto-cho, Higashiyama-ku, Kyoto 605-0995, Japan

Distributed by: Vascutek Ltd, Newmains Avenue, Inchinnan, Renfrewshire PA4 9RR, United Kingdom

PM-09280

AQUABRID™ – For sealing aortic anastomoses

"Effective hemostasis is the key to the success of aortic surgery." [4]

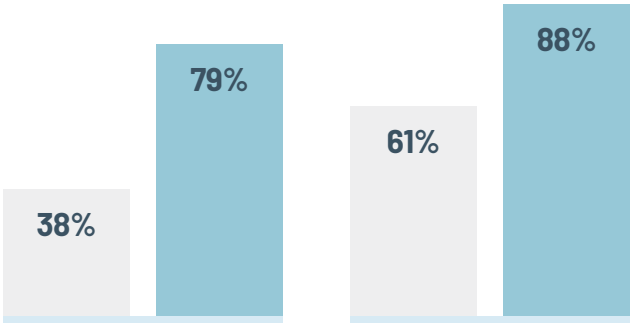
AQUABRID™ is a fully synthetic surgical sealant for aortic surgical procedures. It is applied to bleeding blood vessels and tissues as an adjunct to standard methods of cardiovascular surgical repair.

AQUABRID™ can be applied immediately to the aortic anastomosis.

- It reacts with water in blood and forms an elastic layer – making it optimal for use in wet conditions. [2, 3]
- It stretches and shrinks with the vessel contractions, while maintaining a strong seal during the pulsatile stress-loads of the aorta. [1, 2, 3]

AQUABRID™ effectively controls aortic bleeding [4]

AQUABRID™ is supportive in **achieving hemostasis**, even under fully heparinised conditions.
RCT results show:

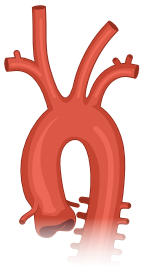


*Complete haemostasis was obtained in 155 anastomoses (79%) vs. 45 anastomoses (38% of control group (p<0.001)) **before protamine** sulfate administration* [4]

*Complete hemostatsis was obtained in 173 anastomoses (88%) vs. 71 anastomoses (61% of control group (p<0.001)) 15 minutes **after protamine** sulfate infusion* [4]

Control Group AQUABRID™ Group

Bleeding complications in aortic procedures



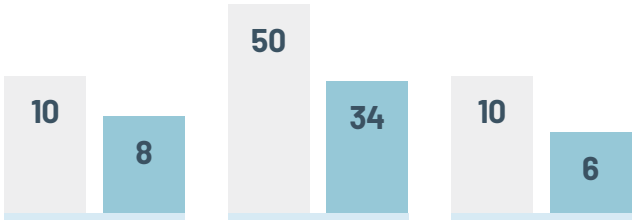
15%
Aortic procedures were associated with the **highest bleeding complication rate of any cardiac surgery** [5]

Bleeding complications are associated with: [5]

- Higher risk of infection,
- In-hospital mortality,
- Transfusion-related adverse events

AQUABRID™ helps save hospitals money on blood products [6]

The use of AQUABRID™ shows a **significant reduction** in **blood transfusions** in acute aortic dissection operations compared with the control group.



20%
***reduction** in red blood cell units administered (p= 0.025)* [6]

32%
***reduction** in total blood transfusion units (p< 0.01)* [6]

40%
***reduction** in fresh frozen plasma units (p< 0.001)* [6]

AQUABRID™ saves time in the OR [6]

The use of AQUABRID™ shows a significant reduction in operating time during acute aortic dissection operations compared with the control group.

15%
***reduction** in operating time* [6]

1. Per IFU
2. Eto M et al. (2007) Elastomeric Surgical Sealant for hemostasis of cardiovascular anastomosis under full heparinization European Journal of Cardio-Thoracic Surgery. November; 32(5): pp730–734.
3. Oda S et al. (2010) Experimental use of an elastomeric surgical sealant for arterial hemostasis and its response. Interactive Cardiovascular and Thoracic Surgery. February; 10(2): pp258-261.
4. Morita S et al. (2020) Randomized clinical trial of an elastomeric sealant for hemostasis in thoracic aortic surgery. General Thoracic and Cardiovascular Surgery. 68(2): pp112–121.
5. Al-Attar N et al. (2019) Impact of bleeding complications on length of stay and critical care utilization in cardiac surgery patients in England. April; 14(64)
6. Matsuoka T et al. (2022) A surgical sealant, AQUABRID decreased the volume of intraoperative blood transfusions and operative time for acute aortic dissection repair. Journal of Cardiac Surgery. December; 37(12): pp5073-5080.