

Clinical References

AQUABRID[®] Surgical Sealant

Ideal for wet conditions

AQUABRID[®] is a fluorinated urethane polyether prepolymer surgical sealant for aortic surgical procedures. It is applied to bleeding blood vessels or tissues treated by standard methods of cardiovascular surgical repair to seal.

In contact with water AQUABRID[®] forms an elastic layer – making it optimal for use on wet conditions. It stretches and shrinks with the vessel contractions, while maintaining a strong seal in the high-pressure environment of the aorta.^{1,2,3}

Reacts with water³

For aortic surgical procedures³

Apply to bleeding blood vessels or tissues³

Bleeding complications in Aortic procedures



15%

Aortic procedures were associated with the **highest bleeding complication rate**⁴



Bleeding complications are associated with:⁴

- higher risk of infection,
- in-hospital mortality,
- transfusion-related adverse events

Hemostasis results



AQUABRID[®] is supportive in achieving hemostasis, even under fully heparinized conditions

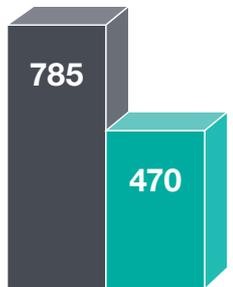
RCT result:

- Complete hemostatsis obtained **in 79 % of anastomosis** vs. 38% (control) before protamine⁵
- Complete hemostatsis obtained **in 88 % of anastomosis** vs. 61% (control) 15 minutes after protamine⁵

Reduction of blood loss and blood transfusion amount⁶

Experience in Japanese Hospital⁶

Blood loss amount^{6*}



Blood Loss Amount (ml)

Blood transfusion amount^{6*}



Red Blood Cell (U)

Fresh Frozen Plasma (U)

Platelet Concentrate (U)

■ Bovine albumin sealant ■ AQUABRID®²

40,1 % reduction in Blood loss amount with AQUABRID®

18,0–38,2 % reduction in Blood transfusion amount with AQUABRID®

* Hemostasis of anastomosis was performed with either of above sealant after false lumen closure by Bovine albumin sealant.

References:

- 1 Eto M et al.: Elastomeric surgical sealant for hemostasis of cardiovascular anastomosis under full heparinization. *Europ. J. Cardio Surg.* 2007; 730-734.
- 2 Oda S. et al.: Experimental use of an elastomeric surgical sealant for arterial hemostasis and its long-term tissue response. *Interac. Cardio. and Thor. Surgery.* 2010; 258-261.
- 3 Reference: AQUABRID® Instruction for Use
- 4 Al-Attar et.al.: Impact of bleeding complications on length of stay and critical care utilization in cardiac surgery patient in England; *Journal of Cardio thoracic Surgery.* 2019; 14:64.
- 5 Morita S. et.al.: Randomized clinical trial of an elastomeric sealant for hemostasis in thoracic aortic surgery. *General Thoracic and Cardiovascular Surgery.* 2019.
- 6 S. Nishida, et al., "Effectiveness of Hydrofit in the surgeries for acute type A dissection", The 46th Annual meeting of Japanese Society for Vascular Surgery, oral presentation, 2018.

Please note: AQUABRID® is the brand name for EMEA (Europe, Middle East and Africa), HYDROFIT® is the brand name in Japan. Therefore, Japanese studies refer to the surgical sealant as HYDROFIT®.



Terumo Corporation N.V.
+81 3 3374 8111

Terumo Cardiovascular Group N.V.
+1 734 663 4145

Terumo Europe N.V.
+32 16 38 12 11

EMEA SALES OFFICES

Terumo Europe N.V.
Africa Business Division
+32 16 38 13 08

Terumo Europe N.V.
Benelux Sales Division
Belgium: 0800 14468
The Netherlands: 0800 0231938

Terumo Europe N.V.
Emerging Market Division
+32 16 38 12 11

Terumo Deutschland GmbH N.V.
+49 6196 80 230

Terumo Deutschland GmbH N.V.
Switzerland
+41 56 419 10 10

Terumo Europe España SL N.V.
+34 902 10 12 98

Terumo France S.A.S. N.V.
+33 130 96 13 00

Terumo Italia S.r.l. N.V.
+39 06 94 80 28 00

Terumo Russia LLC N.V.
+7 495 988 4740

Terumo Sweden AB N.V.
+46 3174 85 880

Terumo Sweden AB Denmark N.V.
+45 7020 93 80

Terumo Middle East FZE N.V.
+971 4 292 0200

Terumo UK Ltd N.V.
+44 1276 480 440

Terumo BCT Tibbi Cihazlar Dağıtım N.V.
ve Hizmetleri A.Ş.
+90 216 645 92 00

Contacts subject to change,
please consult our website.

www.terumo-europe.com



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