

THE INSIDE Advantage[™]

Bioabsorbable + Dual Security

10



ANGIO-SEAL

PUSHING BOUNDARIES

Terumo Interventional Systems **broadens your reach** with new tools and techniques in interventional medicine.

We're relentlessly seeking new ways to help you apply effective solutions and achieve **better outcomes for more patients**.





HELP ENSURE SUCCESSFUL HEMOSTASIS

The ANGIO-SEAL active closure anchor gives you the inside advantage. The anchor creates a mechanical seal from the inside out—here's how:

- The anchor supports proper location for a reliable seal and collagen positioning^{1,2}:
- 99.7% deployment success³
- 97.8% hemostasis by device³

• The anchor and seal are bioabsorbed:

- Fibrin coats the anchor within hours and becomes totally encapsulated in 7-14 days⁴
- Anchor begins to hydrate and soften 24-36 hours after deployment⁴
- Anchor is absorbed 95% at 42 days⁵
- All components are absorbed within 60-90 days^{1, 2, 6, 7}
- Arterial flow is not compromised, no evidence of chronic scar tissue or inflammation^{5,6}

RELY ON **DUAL SECURITY**

The bioabsorbable ANGIO-SEAL anchor + collagen provides dual security, ensuring it is positioned correctly and stays in place^{1,2}

Bioabsorbable Anchor

Designed to fit closely against the arterial wall, leaving blood flow undisturbed with no residual stenosis⁵

- Bioabsorbable Collagen Designed to conform to the arteriotomy for confident closure²
- Bioabsorbable Suture Tethers the anchor and collagen together, providing a secure seal²



PERFORM RESTICK WITH CONFIDENCE

Clinical data supports the safety of restick following an initial ANGIO-SEAL deployment⁷

- Restick can be performed without device dislodgement or any significant vascular complications
- Arterial closure can be achieved with a second ANGIO-SEAL Vascular Closure Device

COMPLICATIONS		PROPORTION	95% CONFIDENCE INTERVAL
Large Hematoma (\geq 10cm)	3	0.0166	0.0043 - 0.0515
Vessel Occlusion	0	0	0-0.0259
Pseudoaneurysm	0	0	0-0.0259
AV Fistulae	0	0	0-0.0259
Major Bleeding	0	0	0-0.0259
Vascular Repair	0	0	0-0.0259
Death	0	0	0 - 0.0259

Vascular Complications Following Restick

A clinical study of 181 patients evaluated safety and efficacy of a restick of the same artery following an initial ANGIO-SEAL device deployment. Patients were included in the study if they had an ANGIO-SEAL device deployment and subsequently underwent arterial access using the same artery that had previously been closed with an ANGIO-SEAL device within 90 days of the original device placement.





ORDERING INFORMATION

ANGIO-SEAL VIP			
PRODUCT CODE	FRENCH SIZE	GUIDEWIRE DIAMETER (in)	
610130	6	0.035	
610131	8	0.038	
ANGIO-SEAL EVOLUTION™			
PRODUCT CODE	FRENCH SIZE	GUIDEWIRE DIAMETER (in)	
C610134	6	0.035	
C610135	8	0.038	

Contents: Vascular Closure Device, Insertion Sheath, Arteriotomy Locator and 70 cm Guidewire with "J" Straightener (10 units per box).

FIND OUT MORE Phone: 800.862.4143 C terumois.com

Indications

The Angio-Seal Vascular Closure Device product family, including the VIP and Evolution platforms, is indicated for use in closing and reducing time to hemostasis of the femoral arterial puncture site in patients who have undergone diagnostic angiography procedures or interventional procedures using an 8 French or smaller procedural sheath for the 8 F Angio-Seal device and a 6 French or smaller procedural sheath for the 6 F Angio-Seal device. The Angio-Seal VIP and Evolution platform devices are also indicated for use to allow patients who have undergone diagnostic angiography to safely ambulate as soon as possible after sheath removal and device placement, as well as to allow patients who have undergone an interventional procedure to safely ambulate after sheath removal and device placement.

Important Safety Information

Possible adverse events for vascular closure devices include, but are not limited to: bleeding or hematoma, AV fistula or pseudoaneurysm, infection, allergic reaction, foreign body reaction, inflammation or edema. This device should only be used by a licensed physician (or other health care professional authorized by or under the direction of such physician) possessing adequate instruction in the use of the device, e.g., participation in an Angio-Seal physician instruction program or equivalent.

RX ONLY. Refer to the product labels and package insert for complete warnings, precautions, potential complications, and instructions for use.

References:

- Kussmaul WG 3rd, Buchbinder M, Whitlow PL, et al. Rapid arterial hemostasis and decreased access site complications after cardiac catheterization and angioplasty: results of a randomized trial of a novel hemostatic device. JAm Col Cardiol. 1995;25(7):1685-92.
- 2. Nash JE, Evans DG. The Angio-SealTM hemostatic puncture closure device. Concepts and experimental results. Herz. 1999;24(8):597-606.
- 3. Applegate RJ, Turi Z, Sachdev N, et al. The Angio-Seal Evolution Registry: outcomes of a novel automated Angio-Seal vascular closure device. *J Invasive Cardiol*. 2010;22(9):420-6.
- 4. Data on file.
- Tellez A, Cheng Y, Yi GH, et al. In vivo intravascular ultrasound analysis of the absorption rate of the Angio-Seal[™] vascular closure device in the porcine femoral artery. EuroIntervention. 2010;5(6):731-6.
- Aker UT, Kensey KR, Heuser RR, Sandza JG, Kussmaul WG 3rd. Immediate arterial hemostasis after cardiac catheterization: initial experience with a new puncture closure device. *Catheter Cardiovasc Diagn.* 1994;31(3):228-32.
- Applegate RJ, Rankin KM, Little WC, Kahl FR, Kutcher MA. Restick following initial Angioseal use. *Catheter Cardiovasc Interv*, 2003;58(2):181-184.

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EC Design-Examination Certificate

Directive 93/42/EEC on Medical Devices, Annex II Section 4

No. Issued To: CE 664636 Terumo Medical Corporation 2101 Cottontail Lane Somerset New Jersey 08873 USA

In respect of:

Angio-Seal Vascular Closure Devices

BSI has performed a design examination on the above devices in accordance with the Council Directive 93/42/EEC Annex II Section 4 and Regulation 722/2012. The design conforms to the requirements of this directive and regulation. For marketing of these products an additional Annex II excluding Section 4 certificate is required.

For and on behalf of BSI, a Notified Body for the above Directive (Notified Body Number 0086):

Frank Lee, EMEA Compliance & Risk Director

First Issued: 20 January 2017

Date: 20 January 2017

Expiry Date: 19 January 2022

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Validity of this certificate is conditional on the quality system being maintained to the requirements of the Directive as demonstrated through the required surveillance activities of the Notified Body.

This certificate was issued electronically and is bound by the conditions of the contract.

Information and Contact: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP. Tel: + 44 345 080 9000 BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK. A member of BSI Group of Companies.





EC Design-Examination Certificate

Supplementary Information to CE 664636

Issued To:

Terumo Medical Corporation 2101 Cottontail Lane Somerset New Jersey 08873 USA

Angio-Seal Vascular Closure Device

Model Number	Description	6
610120	6F Angio-Seal STS-Plus	
610122	8F Angio-Seal STS-Plus	
610132	6F Angio-Seal VIP	
610133	8F Angio-Seal VIP	111
C610136	6F Angio-Seal Evolution	
C610137	8F Angio-Seal Evolution	

First Issued: 20 January 2017

Date: 20 January 2017

Expiry Date: **19 January 2022** ...making excellence a habit.[™]

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Certificate History

Date	Reference Number	Action	
20 January 2017	10167452	First Issue.	2 2000

First Issued: 20 January 2017

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TMC - Declaration of Conformity

Terumo Medical Corporation (TMC) hereby declares that the following TMC facilities and products are in conformity with the provisions of the EC Council Directive 93/42/EEC of 14 June 1993, as amended, concerning medical devices, and has been subject to the conformity assessment procedure laid down in Article 11.1 (a) of the Directive, relating to the "Full Quality Assurance System" set out in Annex II, and by certification of Annex II.3 and Annex II.4 under the supervision of BSI as Notified Body. All supporting documentation is retained under the premises of TMC. We declare no application has been lodged with any other notified body for the same products. This declaration is issued under the sole responsibility of the manufacturer.

Legal Manufacturer Address:	Terumo Medical Corporation 2101 Cottontail Lane, Somerset, NJ 08873 USA
European Representative:	Terumo Europe, N.V. Interleuvenlaan 40, 3001 Leuven, Belgium
Product Type:	Vascular Closure Device
Product Name(s) and Model Number(s):	Angio-Seal STS Plus Vascular Closure Device (610120, 610122)
	Angio-Seal VIP Vascular Closure Device (610132, 610133)
	Angio-Seal Evolution Vascular Closure Device (C610136, C610137)
Classification:	Class III per Annex IX of the MDD 93/42/EEC, Rules 8 and 17
GMDN Code(s):	60710 - Femoral artery compression plug, collagen
EC Certificate No and Expiration Date:	Certificate Annex II No: CE 664635 (Expiration: 19 January 2022) Certificate Annex II.4 No: CE 664636 (Expiration: 19 January 2022)
Applicable Quality System Standards:	ISO 13485: 2003
Notified Body:	BSI, Kitemark Court, Davy Avenue, Knowlhill Milton Keynes MK5 8PP United Kingdom
Notified Body Number:	0086

Signature:

Issue Date:

20 JAN 2017

Kathleen Little VP of Quality and Regulatory Affairs Issue Date

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