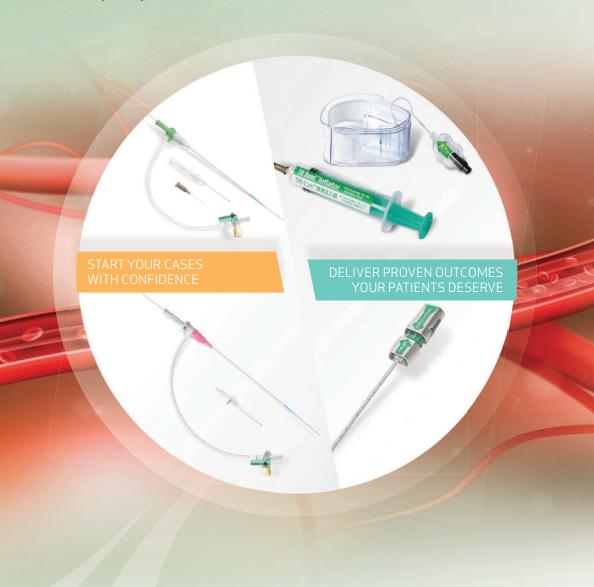
START CONFIDENT. FINISH STRONG.

A complete toolkit of the most extensively proven and world-leading Access and Closure solutions supports your success from start to finish, and every step in between.





RECOGNIZE THE RATE OF VASCULAR ACCESS COMPLICATIONS



patients will have a vascular bleeding complication¹

Leading to significant consequences



increased length of stay

Average increase in patient length of stay (LOS) associated with complications is 4 to 6 days¹

Marso S. JAMA, 2010



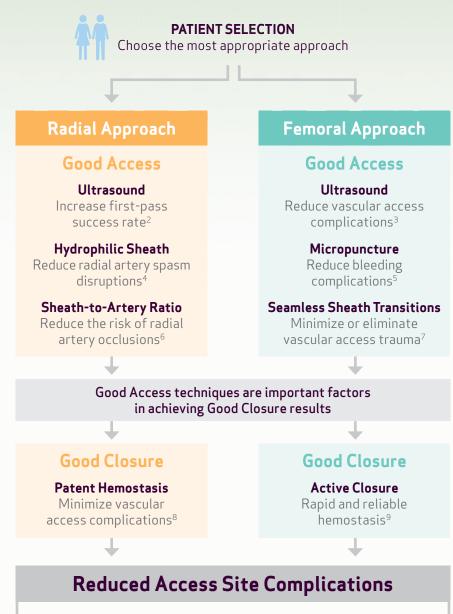
in reduced profitability

Average increase in facility costs per patient associated with complications and longer LOS¹

Marso S, JAMA. 2010

The amount reported in this brochure refers to the U.S. market only.

REDUCE COMPLICATIONS WITH RADIAL AND FEMORAL SOLUTIONS



- Opportunity for same-day discharge
- Cost savings up to \$3,50010
- Improved patient satisfaction 9,11,12

The amount reported in this brochure refers to the U.S. market only.



RADIAL SOLUTIONS

Proven to reduce bleeding rates, in-hospital mortality and related hospital costs13,14*

Increase first-pass success rate

(n=698) Seto A. RAUST. JACC. 2015

Ultrasound vs. Palpation





64.8%

43.9%

Compared to palpation, ultrasound reduces the number of difficult procedures[†] with a significantly higher first-pass success rate.²

†Difficult procedures defined as requiring ≥5 attempts

Reduce radial artery spasm with hydrophilic coated sheaths

(n=790) Rathore S. JACC. 2010

Hydrophilic coated sheaths vs. Uncoated sheaths

81%Success rate





61.1%
Success rate

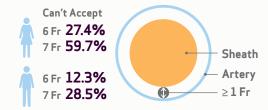
Radial artery spasm avoidance

Compared to uncoated sheaths, hydrophilic coated sheaths reduce the incidence of radial artery spasm which may lead to procedural disruption, patient discomfort and procedural failure.⁴

Reduce the risk of radial artery occlusions (RAO) with the right-sized sheath

(n=250) Saito S. Cathet Cardiovasc Intervent. 1999

Optimal Sheath-to-Artery Ratio



Sheaths with an outer diameter that is equal to or greater than the inner diameter of the patient's radial artery may cause distal flow reduction and be a factor in radial artery occlusion.⁶

Good Access leads to Good Closure Sheath-toArtery Ratio Patent Hemostasis

Reduced Access Site Complications

- Opportunity for same-day discharge
- Improved patient satisfaction^{11,12}

Reduce radial artery occlusion (RAO) with patent hemostasis technique

(n=480) Pancholy S. PROPHET Study. Cathet Cardiovasc Intervent. 2008

Patent hemostasis vs.
Traditional compression technique

Patent hemostasis

Traditional compression technique



% of patients developed evidence of RAO

Compared to traditional compression techniques, patent hemostasis minimizes evidence of radial artery occlusion and vascular access complications.⁸

FEMORAL SOLUTIONS

Proven to reduce complications that may enable same-day discharge

Reduce vascular complications with ultrasound technology

(n=1,004) Seto AH. FAUST. JACC. 2010

Ultrasound vs. Fluoroscopy



people with vascular complications



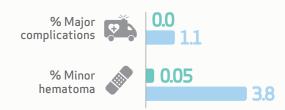
people with vascular complications

Compared to fluoroscopy, real-time ultrasound guidance reduces number of attempts, time to access, and improved first-pass success—leading to reduced vascular complications.³

Reduce complications with seamless sheath transitions

(n=189) Allie D. Cath Lab Digest. 2009

Seamless sheath transition vs. Conventional sheath



Compared to conventional sheaths, seamless sheath-to-dilator transitions may minimize or even eliminate vascular access trauma.⁷

Ultrasound Micropuncture

Good Access
leads to
Good Closure

Seamless Sheath Transitions Active Closure

Reduced Access Site Complications

- Opportunity for same-day discharge
- Improved patient satisfaction⁹

Reduce bleeding complications with micropuncture needle technology

(n=1,475) Daggubati RB. FAMOUS. JACC. 2011

Micropuncture vs. Tactile



Bleeding events within 72 hours

Compared to tactile access, using a micropuncture needle for femoral access during cardiac catheterization reduces complications, such as bleeding or the need for transfusion.⁵

Achieve rapid & reliable hemostasis and reduce time to ambulation

(n=2,074) Manolis S. Indian Heart J. 2016

Active closure vs. Other hemostasis methods



>20
MINUTES

to Hemostasis

Compared to manual or mechanical compression, active closure can provide immediate hemostasis, reduce the time to ambulation, and increase the potential for same-day discharge.¹⁵





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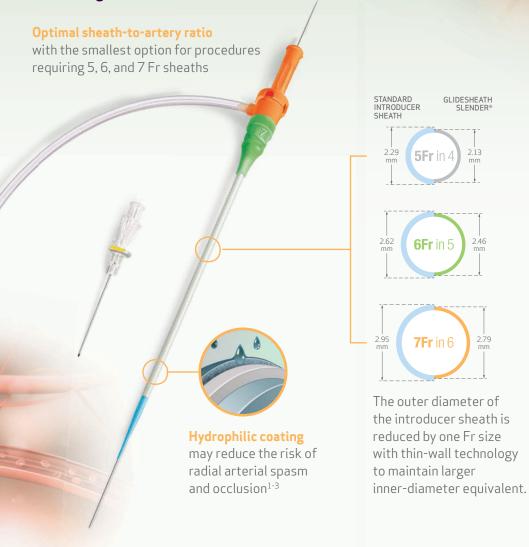
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Glidesheath Slender®

Hydrophilic Coated Introducer Sheath

Unique thin-wall sheath design with best-in-class hydrophilic coating proven to address the majority of complication risks associated with radial access, setting you up for procedural success right from the start.





RADIAL SOLUTIONS | START YOUR CASES WITH CONFIDENCE.

*Data on file.

References:

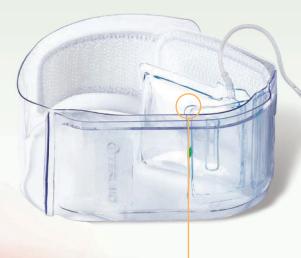
1. Rao S, Bernat I, Bertrand O. Euro Heart J. 2012;33(20):2521-2526. When compared to the existing thin wall sheaths on the market: Merit Prelude IDeal and Cordis RAIN Sheath. Data on file. The third-party trademarks used herein are trademarks of their respective owners. 2. Saito S, Tanaka S, Hiroe Y, et al. Cath Cardio Inter. 2002;56(3):328-332. Data on file. 3. Rathore S. JACC. Cardiovascular Interventions. 2010;3(5):475-83.



TR Band

Radial Compression Device

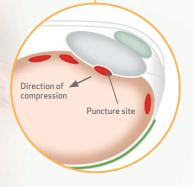
Precise compression with an innovative design that delivers the benefits of patent hemostasis with consistent, controlled performance.



Hemostasis achieved at low pressures, minimizing the chances of applying occlusive force



Air titration provides a more precise way of applying pressure to the radial artery



Dual balloon technology provides precise compression of the radial artery without compromising local nerve structure



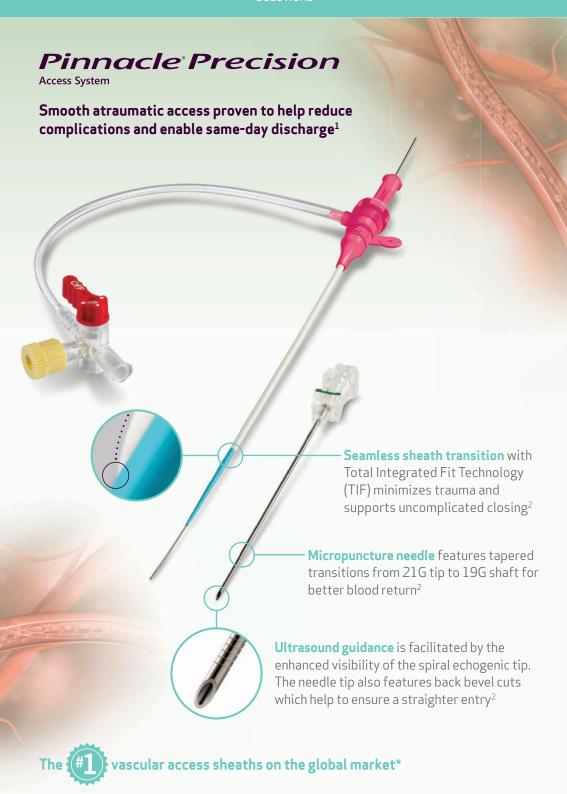
The #1 preferred radial access sheath on the global market*

RADIAL SOLUTIONS | FINISH STRONG.

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*Data on file.





FEMORAL SOLUTIONS | START YOUR CASES WITH CONFIDENCE.

*Data on file.

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 Data on File. Terumo Medical Corporation. TIF Engineering Evaluation and Test Production Results #20070045.
 Data on File. Terumo Medical Corporation. Pinnacle Precision Access System Competitor Evaluation Report #20170018.





Vascular Closure Device

Angio-Seal is the only femoral closure device indicated for early ambulation, empowering clinicians like you to deliver the proven outcomes your patients deserve.1

Patients undergoing diagnostic angiography with Angio-Seal can ambulate safely as soon as possible after sheath removal and device placement.1

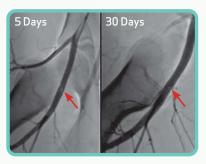
Lower bleeding complication rates

compared to other hemostasis strategies²

The bioabsorbable anchor and collagen provides dual security reinforcement for hemostasis without compromising blood flow 3-5



Active closure using bioabsorbable anchor and collagen with 99.7% deployment success⁶



Bioabsorbable ANGIO-SEAL is no longer visible 30 days following implantation*



vascular closure device on the global market⁷

FEMORAL SOLUTIONS | FINISH STRONG.

*Reprinted from EuroIntervention. Vol 5. Tellez A, Cheng Y, Yi G, et al. In vivo intravascular ultrasound analysis of the absorption rate of the Angio-SealTM vascular closure device in the porcine femoral artery:731-736. ©2010, with permission from Europa Digital & Publishing.

The Angio-Seal Vascular Closure Device 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 8F Angio-Seal device and a 6 French or smaller procedural sheath for the 6F Angio-Seal device. Angio-Seal is 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.

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 physicians with training qualifying them to perform arterial access and closure for endovascular procedures through the common femoral artery and have participated in a Terumo Medical Corporation Angio-Seal physician instruction program.

Exception (applicable to US and China only):

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:

- 1. ANGIO-SEAL VIP Instructions for Use. ASIN0004. 2018-09-01. 2. Tavris D. J Invasive Cardiol. 2012;24(7):2-8. 3. Nash JE, Evans DG. Herz. 1999;24(8):597-606. http://dx.doi.org/10.1007/bf03044483 4. Tellez A, et al
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