**PROVEN** AT THE **POINT OF ACCESS** Global leader in arterial access and closure

## **REDUCE COMPLICATIONS** WITH RADIAL AND FEMORAL SOLUTIONS





### RECOGNIZE THE RATE OF **VASCULAR ACCESS COMPLICATIONS**

3 4

increased

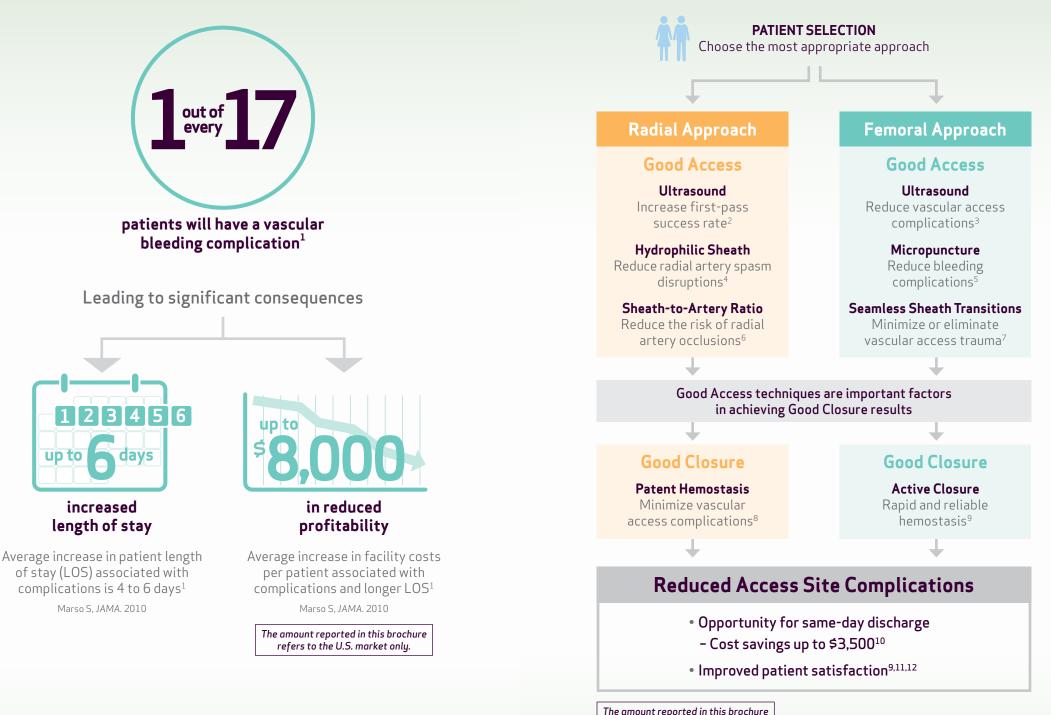
length of stay

complications is 4 to 6 days<sup>1</sup>

Marso S. JAMA, 2010

up to

days



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

**REDUCE COMPLICATIONS WITH** 

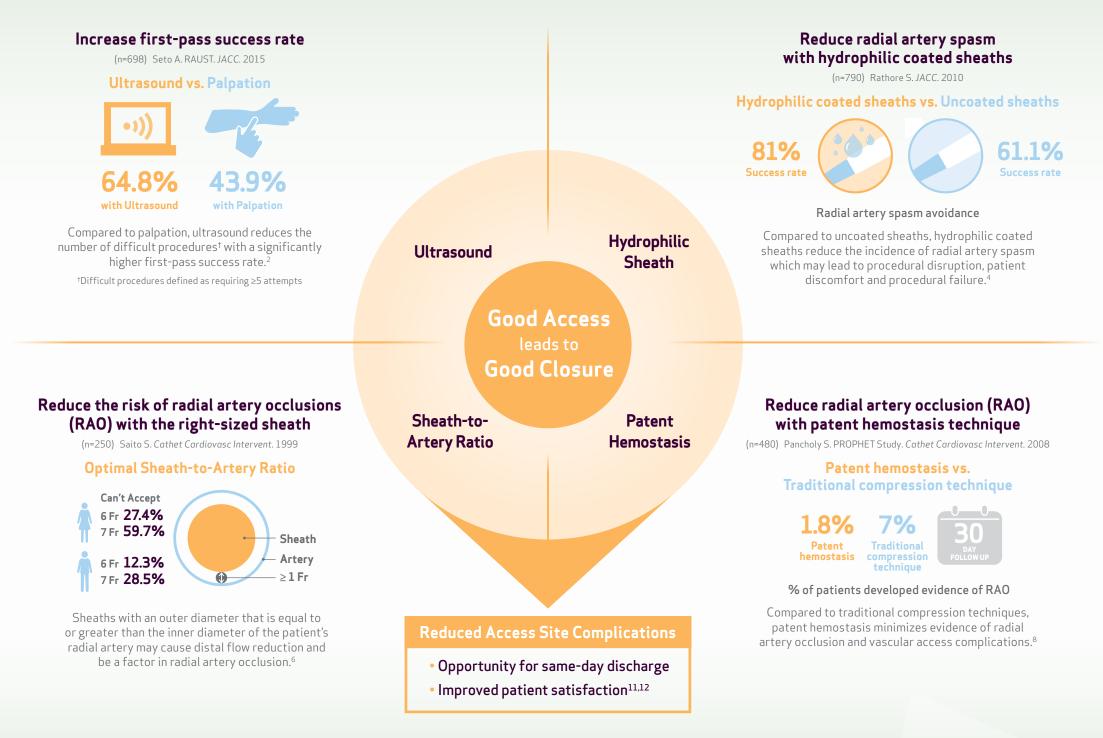
RADIAL AND FEMORAL SOLUTIONS



RADIAL SOLUTIONS

# **RADIAL** SOLUTIONS

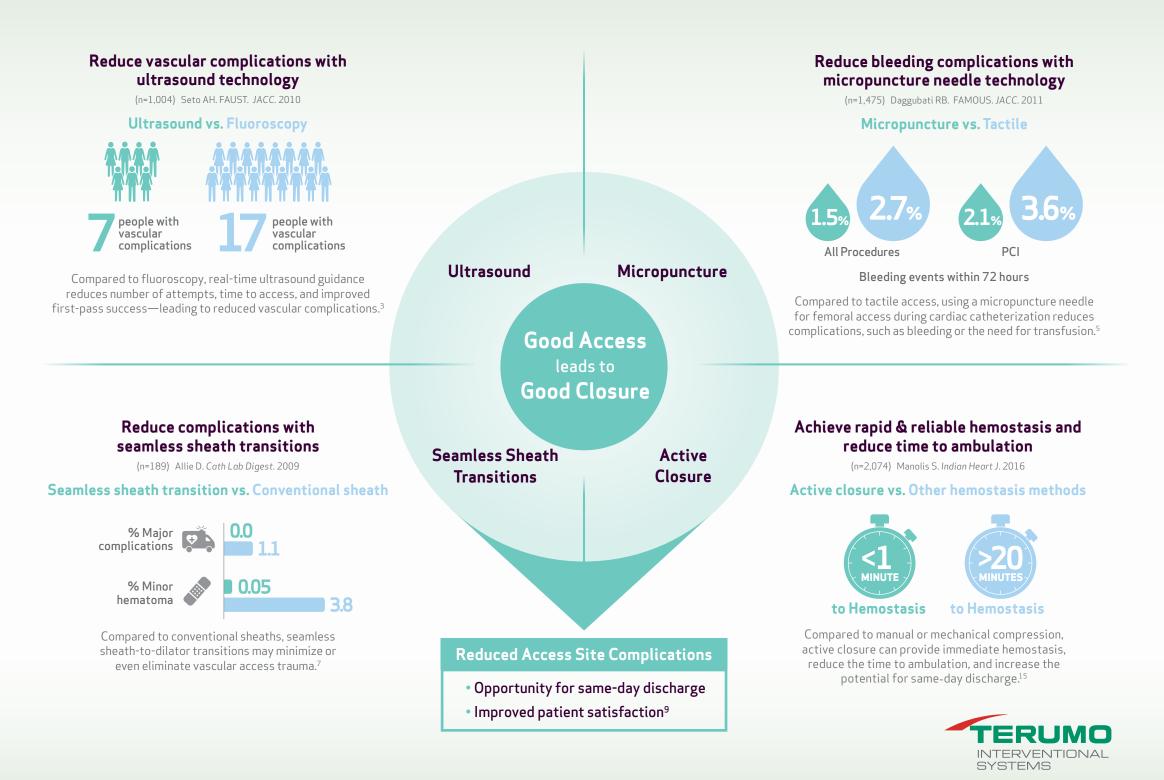
Proven to reduce bleeding rates, in-hospital mortality and related hospital costs<sup>13,14\*</sup>



SOLUTION

# FEMORAL SOLUTIONS

Proven to reduce complications that may enable same-day discharge



### Glidesheath Slender<sup>®</sup> Hydrophilic Coated Introducer Sheath

Unique thin-wall sheath design combined with hydrophilic coating proven to enable transradial access without compromise

### **Optimal sheath-to-artery ratio** with the smallest option for procedures requiring 5, 6, and 7 Fr sheaths STANDARD INTRODUCER GLIDESHEATH SLENDER® SHEATH 2 29 213 5Fr in 4 mm mm 262 246 6Fr in 5 2.95 2.79 **7Fr** in 6 The outer diameter of the introducer sheath is Hydrophilic coating reduced by one Fr size may reduce the risk of with thin-wall technology radial arterial spasm to maintain larger and occlusion<sup>1-3</sup> inner-diameter equivalent.

The preferred radial access sheath on the global market\*

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Global leader in arterial access and closure

\*Data on file.

#### References:

1. Rao S, Bernat I, Bertrand O. *Euro Heart J.* 2012;33(20):2521-2526. 2. Saito S, Tanaka S, Hiroe Y, et al. *Cath Cardio Inter.* 2002;56(3):328-332. 3. Rathore S. *JACC. Cardiovascular Interventions.* 2010;3(5):475-83.



RADIAL SOLUTIONS



### Precise compression with innovative design proven to achieve hemostasis



Direction of

compression

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



Puncture site

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\*Data on file.

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### Pinnacle<sup>®</sup> Precision

### Access System

### Smooth atraumatic access proven to help reduce complications and enable same-day discharge<sup>1</sup>

 Seamless sheath transition with Total Integrated Fit Technology (TIF) minimizes trauma and supports uncomplicated closing<sup>2</sup>

**Micropuncture needle** features tapered transitions from 21G tip to 19G shaft for better blood return<sup>2</sup>

**Ultrasound guidance** is facilitated by the enhanced visibility of the spiral echogenic tip. The needle tip also features back bevel cuts which help to ensure a straighter entry<sup>2</sup>

### The vascular access sheaths on the global market\*

### PROVEN AT THE POINT OF ACCESS

### Global leader in arterial access and closure

\*Data on file.

#### **References:**

1. Data on File. Terumo Medical Corporation. TIF Engineering Evaluation and Test Production Results #20070045. 2. Data on File. Terumo Medical Corporation. Pinnacle Precision Access System Competitor Evaluation Report #20170018.





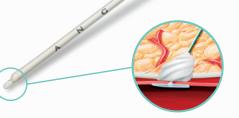
Angio-Seal° Vascular Closure Device

Active closure for rapid and reliable hemostasis proven to accelerate patient mobility and enable same-day discharge<sup>1</sup>

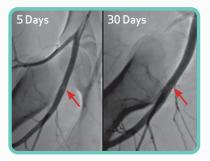
**Resorbable components provide** immediate closure with uncompromised blood flow<sup>1-3</sup>

Lower bleeding complication rates compared to other hemostasis strategies<sup>4</sup>

Manual compression not required for reinforcement of the closure



Active closure using bioabsorbable anchor and collagen with 99.7% deployment success<sup>5</sup>



ANGIOS

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



\*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-Seal<sup>™</sup> vascular closure device in the porcine femoral artery:731-736. ©2010, with permission from Europa Digital & Publishing.

<sup>†</sup>Data on file.

#### 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. The 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.

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#### References:

1. Kapadia SR, Raymond R, Knopf W, et al. Am J Cardiol. 2001;87:789-791.

2. Nash JE, Evans DG. Herz. 1999;24(8):597-606. http://dx.doi.org/10.1007/bf03044483.

- 3. Angio-Seal™ VIP and Angio-Seal™ Evolution Instructions for Use
- Tavris D. J Invasive Cardiol. 2012;24(7):2-8. 5. Applegate RJ, Turi Z, Sachdev N, et al. J Invasive Cardiol. 2010;22(9):420-6.



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## PUSHING Boundaries

Terumo Interventional Systems is **committed to your success** with innovative procedural solutions and ongoing support for your most challenging cases.

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

Learn more about how Terumo Learning EDGE<sup>™</sup> programs can support the advancement of your practice and patient care—from large group to individual proctorships in dynamic clinical settings. For more information, contact us at **LearningEdge@terumomedical.com** 

### FIND OUT MORE

**US:** 800.888.3786 **CA:** 833.883.7866 **US:** terumois.com **CA:** terumocanada.ca

### References:

1. Marso S, et al. Association between use of bleeding avoidance strategies and risk of periprocedural bleeding among patients undergoing percutaneous coronary intervention. JAMA. 2010;303(210):2156-64. 2. Seto A, et al. Real-time ultrasound guidance facilitates transradial access RAUST (Radial Artery Access with ultrasound trial). JACC Cardiovasc Interv. 2015;8(2):283-91. 3. Seto AH, et al. Real-time ultrasound guidance facilitates femoral arterial access and reduces vascular complications: FAUST (Femoral Arterial Access with Ultrasound Trial). JACC Cardiovasc Interv. 2010;3(7):751-8. doi: 10.1016/j. jcin.2010.04.015. 4. Rathore S. Impact of Length and Hydrophilic Coating of the Introducer Sheath on Radial Artery Spasm During Transradial Coronary Intervention A Randomized Study. JACC Cardiovasz Interv. 2010;3(5):475-83. 5. Daggubati RB, Brantley H, Adusumalii S, et al. Femoral access methods and outcomes: understanding the strategy (FAMOUS) trial. JACC. 2011;57(14):E1288. doi:10.1016/S0735-1097(11)61288-6. 6. Saito S, et al. Influence of the ratio between radial artery inner diameter and sheath outer diameter on radial artery flow after transradial coronary intervention. Cath Cardio Interv. 1999;46:173-178. 7. Allie D. Optimizing Vascular Access Management—Focus on the introducer sheath and entry arteriotomy. Cath Lab Digest website. 2009; www.cathlabdigest.com/articles/Optimizing-Vascular-Access-Management-%E2%80%94-Focus-Introducer-Sheath-and-Entry-Arteriotomy. Accessed January 11, 2018. 8. Pancholy S. Prevention of radial artery occlusion-patent hemostasis evaluation trial (PROPHET Study): A randomized comparison of traditional versus patency documented hemostasis after transradial catheterization. Cath Cardio Interv. 2008;72:335-340. 9. Kapadia SR Raymond R, Knopf W, et al. The 6Fr Angio-Seal arterial closure device: Results from a multimember prospective registry. Am J Cardiol. 2001;87:789-791. 10. Amin A, et al. Costs associated with access site and same-day discharge among Medicare beneficiaries undergoing percutaneous coronary intervention. JACC Cardiovasc Interv. 2017;10(4):342-51. 11. Schussler JM. Effectiveness and safety of transradial artery access for cardiac catheterization. Proc (Bay/ Univ Med Cent). 2011; 24(3):205-209. 12. Duffin DC, Muhlestein JB, Allisson SB, et al. Femoral arterial puncture management after percutaneous coronary procedures: a comparison of clinical outcomes and patient satisfaction between manual compression and two different vascular closure devices. J Invasive Cardiol. 2001;13(5):354-362. 13. Valgimigli M, et al. MATRIX Trial. Radial versus femoral access in patients with acute coronary syndromes undergoing invasive management: a randomized multicenter trial. Lancet. 2015;385:2465-76. 14. Data on File. Terumo Medical Corporation. Premiere Perspective Database. 15. Manolis S, et al. Simplified swift and safe vascular closure device deployment without a local arteriogram: Single center experience in 2074 consecutive patients. Indian Heart Journal. 2016;68:529-38.

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