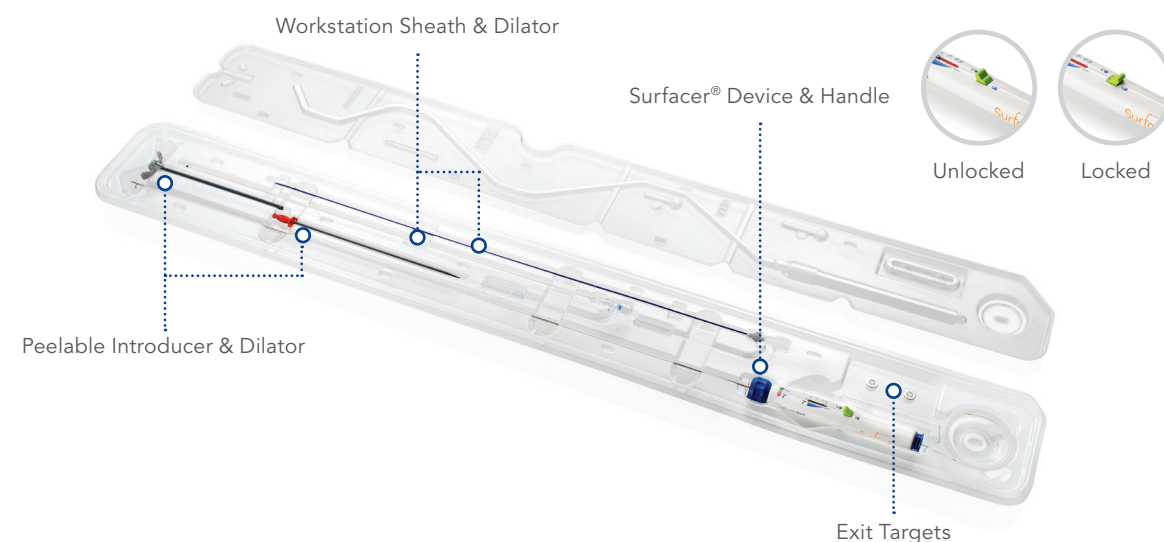


SURFACER® SYSTEM COMPONENTS



ORDERING INFORMATION

Order Number	Description	Quantity
600200	Surfacers® Inside-Out® Access Catheter System (single)	1

ALL ENQUIRIES TO:



Understand. Innovate. Deliver.™

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MANUFACTURED BY:



bluegrassvascular.com

Before using refer to Instructions for Use for indications and contraindications as well as warnings and precautions.

REFERENCES

1. Data on file at Bluegrass Vascular Technologies, Inc.
2. Department of Cardiology, University of Kentucky, Lexington, KY, USA.
3. Ebner A, Gallo S, Cetraro C, Gurley J, Minarsch L. Inside-Out Upper Body Venous Access: The first-in-human experiences with a novel approach using the Surfacers Inside-Out Access Catheter System. Endovascular Today. June 2013.
4. John C Gurley, MD. Inside-Out Central Venous Access - Presentation (University of Kentucky May 9, 2012), Heart Rhythm Society 2012, May 9-12, Boston MA.

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 **MERITMEDICAL**
PERIPHERAL INTERVENTION



What if...

You could reliably and repeatedly **access the right internal jugular vein** and **avoid using other veins** which may compromise permanent arteriovenous access?

Surfacers®

Inside-Out® Access

A UNIQUE APPROACH INSIDEOUT®

RESTORE ACCESS.™ PRESERVE OPTIONS.

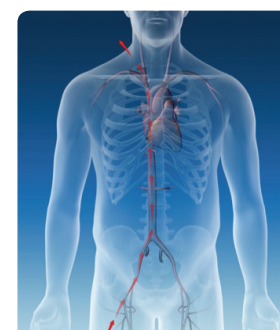
Introducing the Surfacer® Inside-Out® Access Catheter System, the proprietary Inside-Out® approach to restore access and preserve options.

In patients with venous occlusive disease, the current approach is to move to another vein if a subsequent central venous catheter (CVC) is needed. Failed venous access attempts may prevent permanent arteriovenous (AV) access, increasing patient morbidity and the overall cost of care.¹

To restore and preserve access in chronically occluded veins, John Gurley, M.D.² developed the Inside-Out® approach – allowing clinicians to change the standard of care.

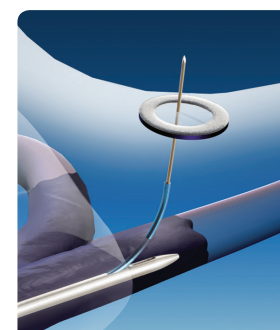
Surfacer®
Inside-Out® Access

RESTORE ACCESS



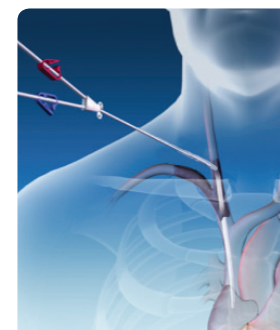
- ▶ Achieves repeatable and reliable central venous access to the right internal jugular (RIJ) vein
- ▶ Preserves the viability of secondary central veins
- ▶ Optimizes placement and maturation of permanent AV access

RELIABLE PROCEDURE



- ▶ 100% (12 of 12) of patients underwent successful central venous access placement³
- ▶ 100% (12 of 12) of patients maintained patency of central venous access through long-term follow-up visit³
- ▶ No device-related adverse events were reported within 48 hours and at 14-day follow-up visit³

REDUCE COSTS



- ▶ Supports the achievement of permanent AV access which reduces hemodialysis provider cost and downtime by decreasing catheter-associated morbidity and complications¹
- ▶ Easier, minimally invasive procedure compared to surgical bypass for patients with totally occluded central veins

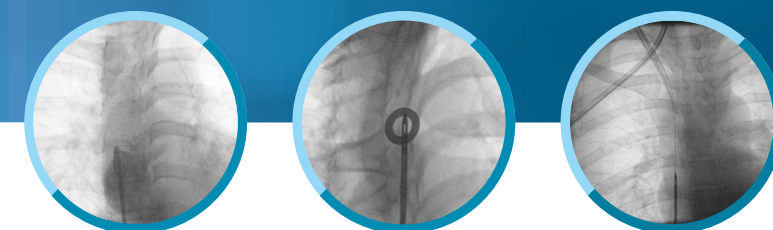


FIGURE 1:
Totally occluded
superior vena cava

FIGURE 2:
Exit target provides a
zone to position the
Surfacer® Device to
exit the skin

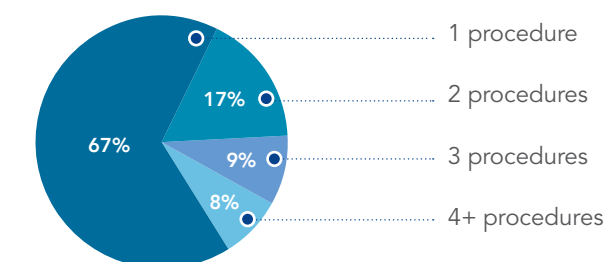
FIGURE 3:
Introducer sheath
locked onto needle
wire and pulled into
right atrium

CLINICAL EXPERIENCE

	Fluoroscopy time (min)	Technical success	Procedural complications
Inside-Out® Central Venous Access Clinical Experience⁴ (N=116)	4.1 ± 5.3	100%	1 (0.8%) ^b
Surfacer® System FIM Study³ (N=12^a)	7.4 ± 2.8	100%	1 (8.3%) ^c

REPEATED PROCEDURES

Percentage of repeated procedure counts on the same patient. Clinical experience with the Inside-Out® procedure.⁴



- a. All procedures completed with local anesthesia and light sedation.
b. Pocket hematoma due to excessive oral anticoagulation.
c. Mild hematoma at the clavicular exit due to tunneling and unrelated to the Surfacer device. Manual compression was not required.

REDUCE COSTS OF CARE¹

Achieving permanent AV access with the Surfacer® System

- ▶ Stop destruction of veins
- ▶ Improve quality of life



NO
OCCLUSIONS

RIJ
OCCLUSION

**INCREASED COST OF
MAINTAINING ACCESS**

2
OCCLUSIONS
MULTIPLE
OCCLUSIONS