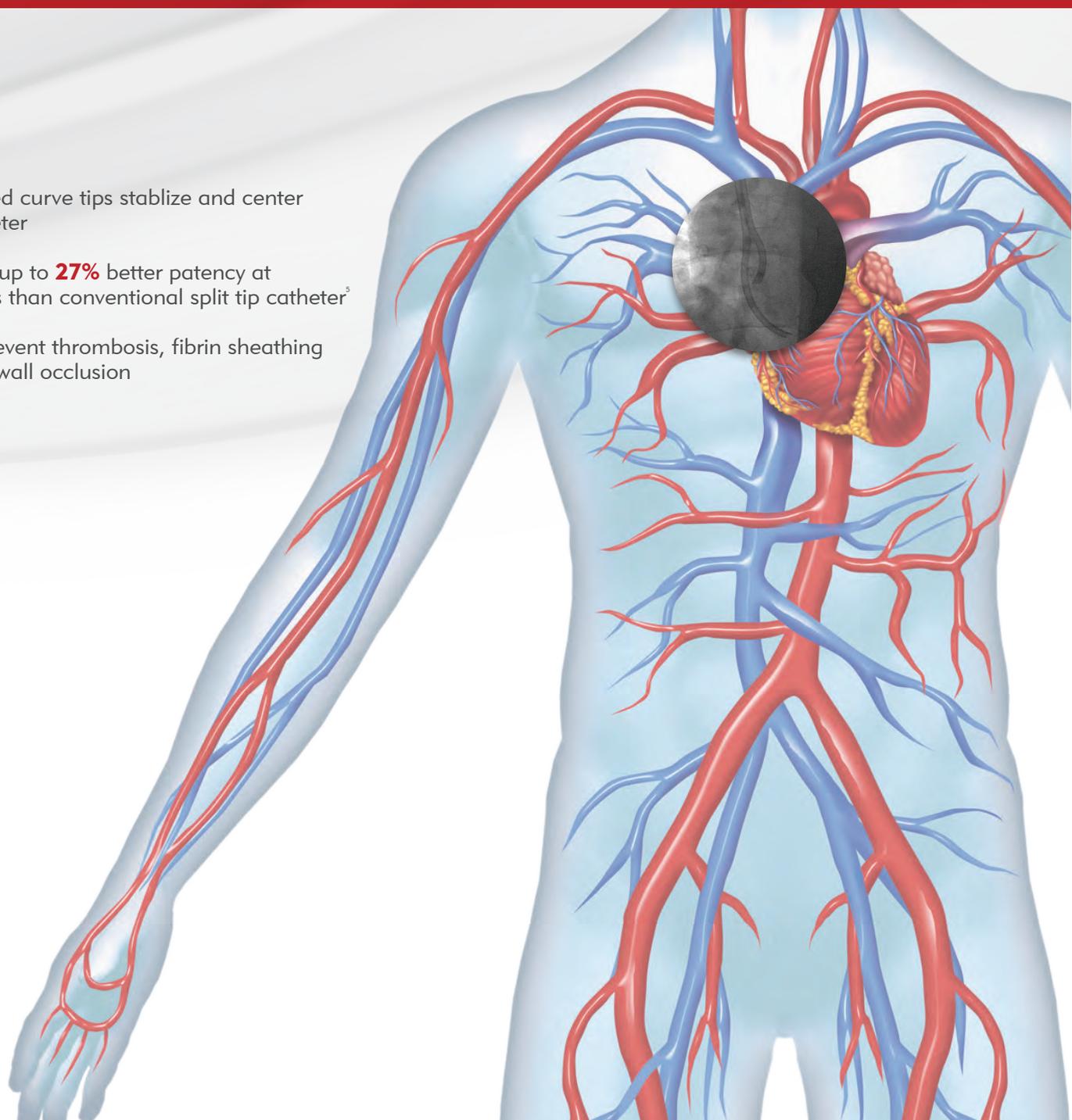


CentrosFLO®

Long-Term Hemodialysis Catheter

- Preshaped curve tips stabilize and center the catheter
- Provides up to **27%** better patency at 3 months than conventional split tip catheter³
- Helps prevent thrombosis, fibrin sheathing & vessel wall occlusion



CentrosFLO®

Long-Term Hemodialysis Catheter

centered on performance

The high performance CentrosFLO® long-term hemodialysis catheter from Merit Medical was designed with performance, safety, and ease of use in mind. The **SELF-CENTERING**, curved-tip catheter has a greater separation between the arterial and venous tips than symmetrical tip catheters. Its design is intended to optimize **CATHETER PATENCY**, and reduce fibrin sheath formation, thrombosis and vessel wall occlusions by keeping the tips of the catheter centered in the vessel and away from the vessel wall. Fibrin sheaths are a frequent cause of catheter malfunction and in a study of removed or exchanged hemodialysis catheters, 76% had fibrin sheaths.^{1, 2, 3} The CentrosFLO was designed for **PERFORMANCE, SAFETY AND EASE OF USE.**

performance

Preshaped Curved Tips

stabilize and center the catheter in the junction of the Superior Vena Cava (SVC) and Right Atrium (RA).

Distal Venous and Arterial Side Holes

reduce intraluminal pressure and the likelihood of the catheter tips sucking up against the vessel wall.

Large Internal Lumen

allows for a flow rate of up to 450 mL/min.

Tunneler with Sleeve



Peelaway Sheath and Dilator

safety

Atraumatic Catheter Tip Design

minimizes puncture or irritation of vessel walls.

Non-Traumatic Tunneler

for more rapid loading of the catheter without risk to catheter tips.

Multiple Catheter Length Configurations

accommodate variations in patient anatomy.

ease of use

Peelaway Sheath and Dilator

insertion for initial placement.

Stiffening Stylet

for over-the-wire placement and exchange.

Polyurethane Material

provides ease of insertion and maintenance.

Stiffening Stylet

CentrosFLO®
Long-Term
Hemodialysis Catheter

study results

In recent studies, the CentrosFLO was compared to two different tunneled dialysis catheters and in both cases the CentrosFLO had statistically better patency. In the first study, the patency of the CentrosFLO was compared to the patency of a symmetric-tip catheter. In the second study, the CentrosFLO's patency was compared to a conventional split-tip catheter when either catheter was exchanged over a wire using the same access site as a replacement for an existing dysfunctional (blood flow rate less than 300mL/min) catheter.

| Study A ⁴ | Self-Centering, Split-Tip Design (n=38) | Symmetric-Tip Design (n=20) | Statistical Probability |
|--------------------------|---|-----------------------------|-------------------------|
| Follow-up Period | 3 Months | 3 Months | 3 Months |
| 3 Month Patency | 94.7% | 75.0% | P=.04 |
| Mean Clearance (Kt/V) | 1.48 | 1.42 | (p=.48)* |
| Mean Blood Flow (mL/min) | 394 | 382 | (p=.27)* |

| Study B ⁵ | Self-Centering, Split Tip Design (n=46) | | Conventional Split-Tip Design (n=27) | | Statistical Probability | |
|--------------------------|---|----------|--------------------------------------|----------|-------------------------|----------|
| | 3 Months | 6 Months | 3 Months | 6 Months | 3 Months | 6 Months |
| Patency | 67.4% | 23.9% | 40.7% | 14.8% | p=.01 | p=.01 |
| Mean Blood Flow (mL/Min) | 391 | 388 | 388 | 352 | (p=.6)* | p=.01 |

*NDS = Not Statistically Significant, p>0.05 (t-tests)

Note: Mean clearance and mean blood flow did not include data from the patients with no catheter patency and represent values from the follow-up period.

ordering information



complete kit

- 1 15F CentrosFLO Long-Term Hemodialysis Catheter
- 1 Stiffening Stylet
- 1 16F Peelaway Sheath And Dilator
- 1 18G X 2.75" (7 cm) Introducer Needle
- 1 #11 Safety Scalpel
- 1 0.038" X 80 cm J-Tipped Guide Wire
- 2 Adhesive Dressing
- 2 Injection Caps
- 1 12F Vessel Dilator
- 1 14F Vessel Dilator
- 1 Tunneler With Sleeve

catheter only

- 1 15F CentrosFLO Long-Term Hemodialysis Catheter
- 1 Stiffening Stylet
- 2 Injection Caps

All Products Packaged 5 Per Box.

Complete Kit Quantity Requested

| product code | tip-to-cuff | tip-to-hub | stylet | |
|-----------------|--------------|--------------|--------|----------------------|
| CENFP15K | 15 cm | 20 cm | yes | <input type="text"/> |
| CENFP17K | 17 cm | 22 cm | yes | <input type="text"/> |
| CENFP19K | 19 cm | 24 cm | yes | <input type="text"/> |
| CENFP23K | 23 cm | 28 cm | yes | <input type="text"/> |
| CENFP27K | 27 cm | 32 cm | yes | <input type="text"/> |
| CENFP31K | 31 cm | 36 cm | yes | <input type="text"/> |

Catheter Only Quantity Requested

| product code | tip-to-cuff | tip-to-hub | stylet | |
|-----------------|--------------|--------------|--------|----------------------|
| CENFP15C | 15 cm | 20 cm | yes | <input type="text"/> |
| CENFP17C | 17 cm | 22 cm | yes | <input type="text"/> |
| CENFP19C | 19 cm | 24 cm | yes | <input type="text"/> |
| CENFP23C | 23 cm | 28 cm | yes | <input type="text"/> |
| CENFP27C | 27 cm | 32 cm | yes | <input type="text"/> |
| CENFP31C | 31 cm | 36 cm | yes | <input type="text"/> |

Ordering Department _____ Customer Signature _____ Date _____

To find out more about the CentrosFLO, call Customer Service at 1-800-35-MERIT.

¹ Crain, MR, Horton, MG, Mewissen, MV. Fibrin sheaths complicating central venous catheters. *AJR*. 1998 Aug;171:341-346.
² Forauer AR, Theoharis GA, Dasika NL. Jugular vein catheter placement: histologic features and development of catheter-related (fibrin) sheaths in a swine model. *Radiol*. 2006 Aug;240(2):427-434.
³ Alomari, AI, Falk, A. The natural history of tunneled hemodialysis catheters removed or exchanged: a single-institution experience. *JVIR*. 2007;18:227-235.
⁴ Balamuthusamy S. Self-centering, split-tip catheter has better patency than symmetric-tip tunneled hemodialysis catheter: single-center retrospective analysis. *Semin Dial*. 2014 Jan 20. Epub 2014 Jan 20.
⁵ Data on file. Exclusions from Study B were patients with catheter-related infections, femoral vein catheters, or exchanges requiring the creation of a new venotomy or exist site. A repeated measures ANOVA was used to assess differences between groups and among times.



Understand. Innovate. Deliver.™

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