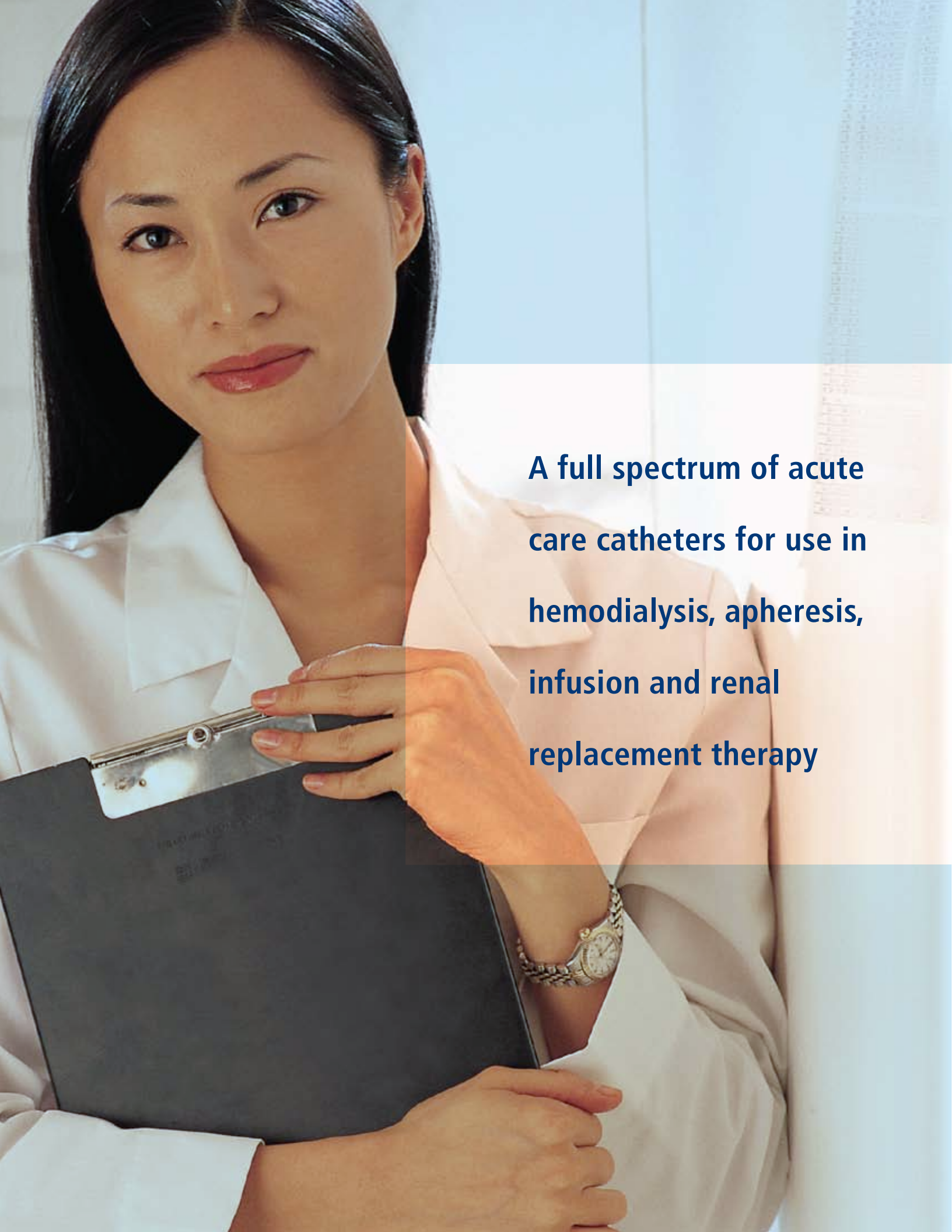




MAHURKAR®*
Family of Acute Care Catheters



[Protecting Patients. Preserving Access.]



**A full spectrum of acute
care catheters for use in
hemodialysis, apheresis,
infusion and renal
replacement therapy**

The Gold Standard MAHURKAR®*

Acute Care Catheter Family

Ease of insertion. Optimal flow rates. Patient comfort.

A variety of options. For acute dialysis care the choice is Covidien. Building on a strong history of more than 30 years of quality and innovation that began with the MAHURKAR®* 11.5Fr acute hemodialysis catheter, Covidien continues to provide innovative features to optimize patient benefits.



Exceptional Performance

- **Maximum Flows, Minimal Pressures**

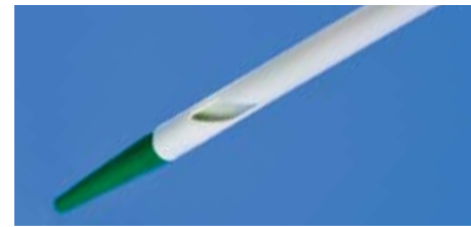
Double-D®* lumen design maximizes internal diameter to provide consistent and equal flow rates with lower arterial pressure.

- **Ease of Insertion**

Thermosensitive material provides optimal stiffness during insertion, and softens up to 50% post-insertion for vessel conformity and patient comfort. The conical tip facilitates smooth transition through tissue.

- **Dependable Adapters and Extensions**

Durable Ultem™* adapters and **silicone extensions** withstand repeated use and cleaning, while providing improved kink resistance.



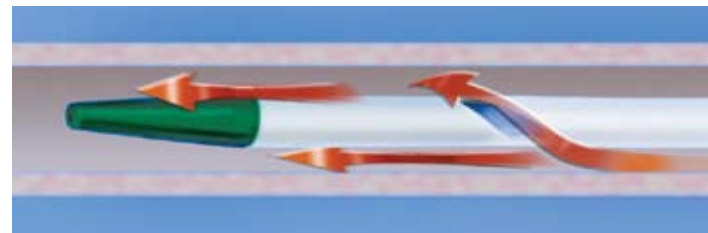
Reduced Patient Complications

- **Maintain Patency by Decreasing the Likelihood of Clot Formation**

Laser-cut side slots with smooth edges decrease the likelihood of debris attachment and clot formation.

- **Reduce Vessel Wall Occlusion**

Larger slot shape reduces the likelihood of vessel wall occlusion, while the orientation maximizes the open passageway for fluid flow.





MAHURKAR®* 12Fr Triple Lumen Catheter

The first acute care triple lumen catheter indicated for hemodialysis, infusion and apheresis

- Third lumen (19G) facilitates infusion of fluid, blood products, medication or blood sampling
- Preserves patient vascular access. Avoids the need for PICC line placements in CKD patients in accordance with NKF-KDOQI guidelines ¹
- Soft, green, atraumatic tip to reduce likelihood of vessel trauma *in situ*
- Reinforced hub minimizes kinking in difficult vasculature — ideal for femoral and left-sided placements
- Modified Double-D®* design maximizes area for high flow rates in dialysis lumens
- Radiopaque allows for quick visualization

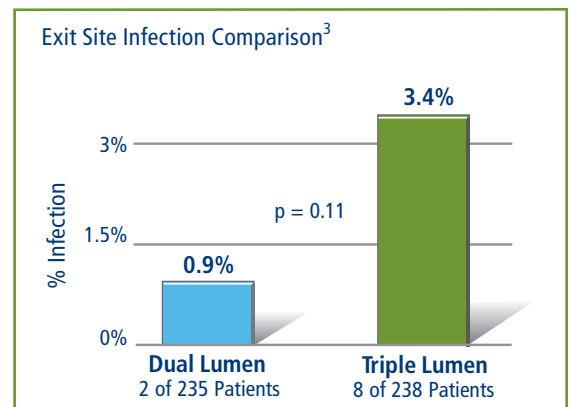
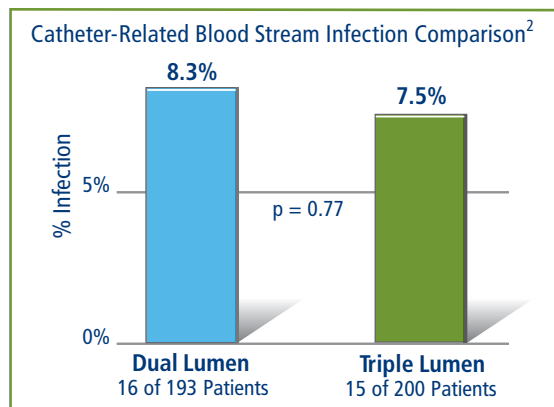


Modified
Double-D®*
Design

Proven Safety and Efficacy

Multi-centered, randomized clinical study comparing the MAHURKAR®* double lumen and triple lumen catheters demonstrated:

- 1 No increase in incidence of CRBSI (catheter-related bloodstream infection) ²
- 2 No significant difference in incidence of exit-site infections ³
- 3 Desired flow rates achieved 100% of the time



MAHURKAR®* 13.5Fr High-flow Catheter



Optimal high-flow catheter – consistently achieves flow rates up to 450mL/min

- Soft, green, atraumatic tip reduces likelihood of vessel trauma *in situ*
- Larger Double-D®* lumen design optimizes flows with lower arterial pressure
- Less force required to insert the MAHURKAR®* 13.5Fr catheter versus other competitive high flow catheters ⁴
- Facilitates continuous renal therapies in the ICU
- Reinforced hub minimizes kinking in difficult vasculature — ideal for femoral and left-sided placements
- Radiopaque allows for quick visualization



MAHURKAR®* 11.5Fr The Original Short-term Catheter

Trusted for over 30 years

- Minimum French size (11.5Fr) coupled with Double-D®* lumen design achieves consistent flow rates up to 350 mL/min
- Conical tip for smooth insertion
- Radiopaque allows for quick visualization

MAHURKAR®* catheters feature:



Rotatable Suture Wings



Durable Adapters



Adjustable Clamps

MAHURKAR®* 8, 10 or 11.5Fr Dual Lumen Catheter

	Straight Extensions	Curved Extensions	Descriptions	Qty/Case
CATHETERS	8817142005		10 Fr x 12 cm	5
	8817145005		10 Fr x 15 cm	5
	8813816005	8813816009	11.5 Fr x 13.5 cm	5
	8830414001	8830414002	11.5 Fr x 16 cm	5
	8813794005	8813794009	11.5 Fr x 19.5 cm	5
	8831662001		11.5 Fr x 24 cm	5
KITS	8832539001		8 Fr x 9 cm	5
	8832539002	8832539006	8 Fr x 12 cm	5
	8832539003	8832539007	8 Fr x 15 cm	5
		8817143005	10 Fr x 12 cm	5
	8817146001	8817146007	10 Fr x 15 cm	5
	8813817005	8813817009	11.5 Fr x 13.5 cm	5
	8830415001	8830415003	11.5 Fr x 16 cm	5
	8813793009	8813793013	11.5 Fr x 19.5 cm	5
	8831661001		11.5 Fr x 24 cm	5

Catheter components: [1] 8, 10, or 11.5Fr catheter, [2] Sealing Caps

Kits contain all catheter components in addition to: [1] 18G Introducer Needle, [1] J/Straight 70 cm guidewire (0.032" – 8Fr, 0.035" – 10Fr, 0.038" – 11.5Fr), [2] Telfa™ Island Dressings, [1] Tissue Dilator – 8Fr or 10Fr, [1] Tissue Dilator – 12Fr (11.5Fr Catheters Only)

MAHURKAR®* 13.5Fr High Flow Dual Lumen Catheters

	Straight Extensions	Curved Extensions	Descriptions	Qty/Case
KITS	8888135131	8888135132	13.5 Fr x 13.5 cm	5
	8888135161	8888135162	13.5 Fr x 16 cm	5
	8888135191	8888135192	13.5 Fr x 19.5 cm	5
	8888135241	8888135242	13.5 Fr x 24 cm	5

Kits contain: [1] 13.5Fr Catheter, [1] 18G Introducer Needle, [1] J/Straight 0.038" x 70 cm Guidewire, [1 each] Tissue Dilators (10Fr, 14Fr), [2] Telfa™ Island Dressings, [2] Sealing Caps





MAHURKAR®* 12Fr Triple Lumen Catheter

	Straight Extensions	Curved Extensions	Descriptions	Qty/Case
KITS		8888345603	12 Fr x 13 cm	5
		8888345611	12 Fr x 16 cm	5
	8888340629	8888345629	12 Fr x 20 cm	5
	8888340637	8888345637	12 Fr x 24 cm	5

Kits contain: [1] 12Fr Catheter, [1] 18G Introducer Needle, [1] J/Straight 0.035" x 70 cm Guidewire, [1 each] Tissue Dilators (10Fr, 12Fr), [2] Telfa™ Island Dressings, [3] Sealing Caps

Orders for all Catheter Products should be placed through the Covidien Customer Service Department, 1-800-962-9888.

A variety of catheter configurations and sizes to accommodate various insertion sites and patient sizes





NKF K/DOQI *Clinical Practice Guidelines for Vascular Access, Guideline 1*. Patient Preparation for Permanent Hemodialysis Access – Rationale.

2 Contreras, G, et al.: A Multicenter, Prospective, Randomized, Comparative Evaluation of Dual- Versus Triple-Lumen Catheters for Hemodialysis and Apheresis in 485 Patients. *AJKD* 2003;2:315-324.

3 Contreras, G et al.: Incidence and Influencing Factors Associated with Exit Site Infections In Temporary Catheters for Hemodialysis and Apheresis. *Nephrology Nursing Journal* 2005, Volume 32, Number 1, p.41-50.

4 Data on file

MAHURKAR 12 Fr Triple Lumen Catheters covered by one or more of the following U.S. Pat. Nos. 5221256; 5348536; 5403291; 5451206; 5486159; 5489278 and foreign counterparts.

MAHURKAR 13.5 Fr Curved and Straight Extension Catheters are covered by U.S. Pat. Nos. 5403291; 5489278 and foreign counterparts.

MAHURKAR 11.5 Fr Dual Lumen Catheters are covered by one or more of the following patents: U.S. Pat. Nos. 5403291; 5489278; 5209723; 5405320; 5509897 and foreign counterparts.

