



MAHURKAR™*
Family of Acute Care Catheters



*A full spectrum of acute care catheters
for use in hemodialysis, apheresis, infusion,
renal replacement therapy,
high pressure contrast injection and central venous pressure monitoring.*



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.



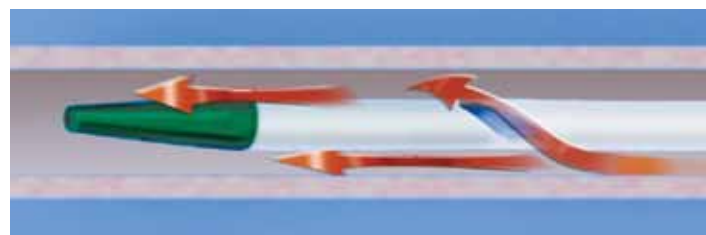
Reduced Patient Complications

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

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

- **Reduce Vessel Wall Occlusion**

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



12Fr

MAHURKAR™* 12Fr High Pressure Triple Lumen Catheter

- 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 guidelines¹
- Soft, green, atraumatic tip to reduce likelihood of vessel trauma *in situ*
- Facilitates continuous renal replacement therapies in the ICU
- Reinforced hub minimizes kinking in difficult vasculature — ideal for femoral and left-sided placements
- Modified Double-D™* lumen design maximizes area for high flow rates in dialysis lumens
- Radiopaque allows for quick visualization

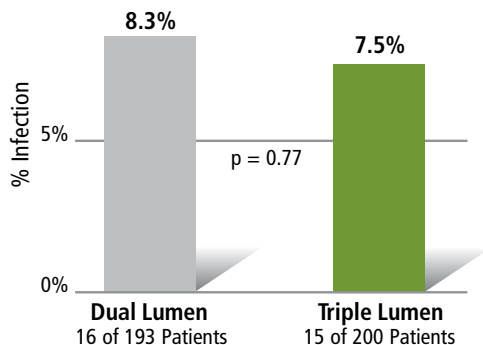


Clinically Proven

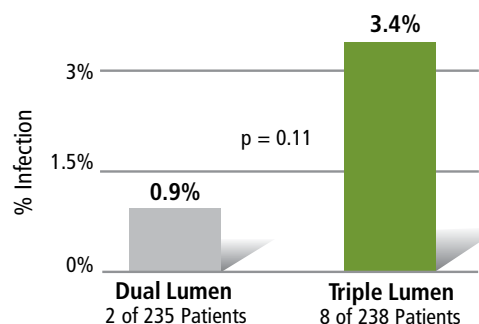
Multi-centered, randomized clinical study comparing the MAHURKAR™ double lumen and to the triple lumen catheters demonstrated:*

- 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

Catheter-Related Blood Stream Infection Comparison²



Exit Site Infection Comparison³



13.5Fr

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 catheters⁴
- Facilitates continuous renal replacement therapies in the ICU
- Reinforced hub minimizes kinking in difficult vasculature — ideal for femoral and left-sided placements
- Radiopaque allows for quick visualization

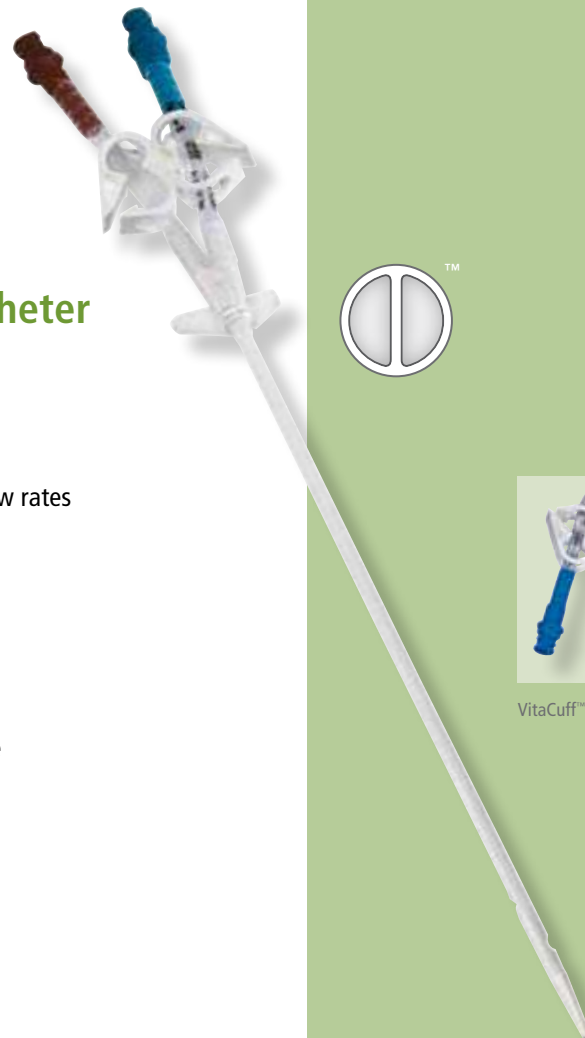


11.5Fr

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
- Pre-curved options available
- Optional VitaCuff™* silver ion collagen cuff device



VitaCuff™ Device

Ordering Information

MAHURKAR™ 11.5, 10 or 8Fr Dual Lumen Catheters

	Straight Extensions	Curved Extensions	Pre-Curved Shafts	Description	Qty/ Case	
CATHETERS	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	
	8817142005			10 Fr x 12 cm	5	
	8817145005			10 Fr x 15 cm	5	
KITS	8813817005	8813817009	8888115132	11.5 Fr x 13.5 cm	5	
	8830415001	8830415003	8888115162	11.5 Fr x 16 cm	5	
	8813793009	8813793013	8888115192	11.5 Fr x 19.5 cm	5	
	8831661001		8888115242	11.5 Fr x 24 cm	5	
		8817143005		10 Fr x 12 cm	5	
	8817146001	8817146007		10 Fr x 15 cm	5	
	8832539001			8 Fr x 9 cm	5	
	8832539002	8832539006		8 Fr x 12 cm	5	
	8832539003	8832539007		8 Fr x 15 cm	5	
IC Trays	8817277007	8817277011	8888115133	11.5 Fr x 13.5 cm	5	
	8830416001	8830416003	8888115163	11.5 Fr x 16 cm	5	
	8815668007	8815668011	8888115193	11.5 Fr x 19.5 cm	5	
	8831663001	8831663002	8888115243	11.5 Fr x 24 cm	5	
with VitaCuff™ device	KITS	8813817007	8813817010		11.5 Fr x 13.5 cm	1
		8830415002	8830415004		11.5 Fr x 16 cm	1
		8813793011	8813793014		11.5 Fr x 19.5 cm	1
			8817143006		10 Fr x 12 cm	1
			8817146008		10 Fr x 15 cm	1
			8817149008		10 Fr x 19.5 cm	1
	TRAYS	8817277009	8817277012		11.5 Fr x 13.5 cm	1
		8830416002	8830416004		11.5 Fr x 16 cm	1
		8815668009	8815668012		11.5 Fr x 19.5 cm	1
	PASS TRAYS	8817277027	8817277021		11.5 Fr x 13.5 cm	1
		8830416021	8830416023		11.5 Fr x 16 cm	1
8815668027		8815668021		11.5 Fr x 19.5 cm	1	
8831663021		8831663022		11.5 Fr x 24 cm	1	

MAHURKAR™ 13.5Fr High Flow Dual Lumen Catheters

	Straight Extensions	Curved Extensions	Pre-Curved Shafts†	Description	Qty/ Case
KITS	8888135131	8888135132	8888135133	13.5 Fr x 13.5 cm	5
	8888135161	8888135162	8888135163	13.5 Fr x 16 cm	5
	8888135191	8888135192	8888135193	13.5 Fr x 19.5 cm	5
	8888135241	8888135242	8888135243	13.5 Fr x 24 cm	5
IC Trays	8888135134	8888135135	8888135136	13.5 Fr x 13.5 cm	5
	8888135164	8888135165	8888135166	13.5 Fr x 16 cm	5
	8888135194	8888135195	8888135196	13.5 Fr x 19.5 cm	5
PASS TRAYS	8888135244	8888135245	8888135246	13.5 Fr x 24 cm	5
	8888135137	8888135138	8888135139	13.5 Fr x 13.5 cm	1
	8888135167	8888135168	8888135140	13.5 Fr x 16 cm	1
	8888135197	8888135198	8888135141	13.5 Fr x 19.5 cm	1
	8888135247	8888135248	8888135142	13.5 Fr x 24 cm	1

MAHURKAR™ 12Fr High Pressure Triple Lumen Catheters

	Straight Extensions	Curved Extensions	Description	Qty/ Case
KITS		8888345603HP	12 Fr x 13 cm	5
		8888345611HP	12 Fr x 16 cm	5
	8888340629HP	8888345629HP	12 Fr x 20 cm	5
	8888340637HP	8888345637HP	12 Fr x 24 cm	5
IC Trays		8888101001HP	12 Fr x 13 cm	5
		8888101002HP	12 Fr x 16 cm	5
	8888102003HP	8888101003HP	12 Fr x 20 cm	5
	8888102004HP	8888101004HP	12 Fr x 24 cm	5
PASS TRAYS		8888103001HP	12 Fr x 13 cm	1
		8888103002HP	12 Fr x 16 cm	1
	8888104003HP	8888103003HP	12 Fr x 20 cm	1
	8888104004HP	8888103004HP	12 Fr x 24 cm	1



Straight Extension



Curved Extension



Pre-Curved Shaft

Not available with triple lumen catheter

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

MAHURKAR™
catheters feature:



Rotatable Suture Wings



Durable Adapters



Adjustable Clamps

Components	Catheter	Kits	IC Trays	PASS Trays
Catheter	1	1	1	1
18G Introducer Needle		1	1	
18G Safety Introducer Needle				1
J/Straight 70 cm guidewire (0.032" – 8Fr / 0.035" – 10Fr & 12Fr / 0.038" – 11.5Fr & 13.5Fr)		1	1	1
Tissue Dilators (8Fr ^o , 10Fr., 12Fr*, 14Fr. [†])		2	2	2
6 mL Luer Lock Syringes			2	2
3 mL Luer Lock Syringes (3 provided with 12Fr catheter only)			3	3
Hypodermic Needles (18G, 22G, 25G)			3	
Magellan™ Safety Needles (18G, 22G, 25G)				3
2.0 Nylon Suture with Curved Needle			1	1
5 mL Ampule Lidocaine (1%)			1	2
Large 72" x 76" Fenestrated Drape			1	1
#11 Scalpel			1	
Retractable #11 Safety Scalpel				1
Needle Holder			1	1
Excilon™ AMD Antimicrobial Drain Sponge				1
Pre-Fill Syringe 10 mL; 0.9% Saline Flush Syringe				2
Chloraprep™* Applicator Wand (3 mL) (1 provided with 11.5Fr and 13.5Fr catheters)			1	2
Telfa™ Island Dressings		2	2	2
Gauze Sponges			6	6
Sealing Caps (3 provided with 12Fr)	2	2	2	2
Needle Safety Holder			1	1
Catheter Safety Insertion Checklist				1
Drug Label Sheet				1

^o Only in 8Fr and 10Fr catheters

* Only in 11.5 and 12Fr catheters

[†] Only in 13.5Fr catheters

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



Clinical References:

1 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

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