

Dialysis is critical. Confidence is essential.

MAHURKAR™* Elite
acute dialysis catheter family



Mezarc
medical

Efficiency of dialysis in reverse flow

Less than 1% recirculation

Symmetrical tip design minimizes recirculation rates when in forward or reverse flow.¹

Maximize fluid flow with laser-cut side slots

Large laser-cut side slots wrap around catheter shaft, providing a large area for fluid to flow.²

Significant flow, minimal pressure

Lumen designs maximize the internal diameter to provide consistent flow rates with lower arterial pressures.²

Easy to use

During insertion

Thermosensitive polyurethane material

Provides rigidity during insertion, and softens at least 54% post-insertion for vessel conformity.³

Catheter shaft depth markings

Assist clinicians with a visual aid during catheter insertion.

Reinforced catheter hub

Reduces the likelihood of kinking in difficult vasculature and insertions.^{3,4,5}

During treatment

High flow rates

Maintain high flow and provide consistent flow rates.¹

Multiple pre-curved catheter shaft configurations

Enhance comfort without compromising flow rates or risk of kinking.⁶



Double-D™
Design



Modified
Double-D™
Design

MAHURKAR™* Elite acute catheter family



19G third lumen
(MAHURKAR™* triple lumen catheters)

Laser-etched priming volumes on clamps

Reinforced hub to reduce the likelihood of kinking during difficult insertions^{4,5,6}
Catheter sizing on hub

Depth markings for ease of use as a visual insertion guide

Lumen designs maximize the internal diameter to provide consistent flow rates with lower arterial pressures²



Modified Double-D™ Design



Double-D™ Design

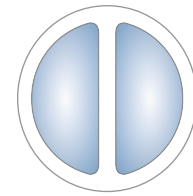
Large laser-cut side slots:
Maximize passageway for fluid flow area²

Symmetrical tip design minimizes recirculation rates to <1% in forward and reverse flows.

MAHURKAR™* Elite 13.5 Fr high flow dual lumen catheter

Consistently achieves flow rates up to 500mL/min^{7,†}

- Shaft softens up to 60% post-insertion.⁵
- Offers one of the largest internal diameters available on the market — maximizing flow rates for acute dialysis patients.²



Double-D™ Design

MAHURKAR™* Elite 12 Fr dual lumen catheter

Consistently achieves flow rates up to 500mL/min^{7,†}

- Shaft softens up to 65% post-insertion.⁴
- Large Double-D™* lumen design maximizes the internal diameter to provide consistent flow rates with lower arterial pressures.²

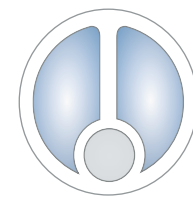
Indications

- Hemodialysis
- Apheresis
- Infusion

MAHURKAR™* Elite 12.5 Fr triple lumen catheter

Consistently achieves flow rates up to 500mL/min^{7,†}

- Benchtop testing shows symmetrical tip design minimizes recirculation rates to < 1 percent in forward and reverse flows.¹
- Shaft softens up to 54% post-insertion.³
- Modified Double-D™* lumen design maximizes the internal diameter to provide equal and consistent flow rates with low arterial pressure.^{1,3,7†}
- Third lumen (19G) facilitates central venous pressure monitoring, blood sampling, high pressure injection of contrast media, and infusion of fluid, blood products, or medication. The presence of a third lumen does not compromise flow rates or increase the chance of catheter related blood stream infections.⁸
- The third lumen helps preserve patient vascular access by reducing the need for PICC line placements.⁸



Modified Double-D™* Design

Indications

- Hemodialysis
- Apheresis
- Infusion
- High pressure contrast injection
- Central venous pressure monitoring

† Based on preclinical bench data. Results may not correlate with clinical performance in humans.

Ordering Information

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

Sterile contents included in the kit:

- | | | |
|--|---|--|
| (1) Catheter | (1) Removable Suture Wing
(Precurved catheters only) | (1) Tissue Dilator, 14 Fr
(13.5 Fr catheter only) |
| (1) 18 G Introducer Needle | (1) Tissue Dilator, 10 Fr | (2) Telfa™* Island Dressings |
| (1) J/Straight 0.035" x 70 cm
Guidewire with Thumb Advancer | (1) Tissue Dilator, 12 Fr
(12 Fr and 12.5 Fr catheters only) | (2) Sealing Caps
(3 provided with 12.5 Fr catheter) |

MAHURKAR™* Elite 12 Fr dual lumen catheters

Kits	Straight Extensions	Curved Extensions	Pre-Curved Shafts	Description	Qty / Carton
	8888221213	8888222213	8888223213	12 Fr x 13 cm	5
	8888221216	8888222216	8888223216	12 Fr x 16 cm	5
	8888221220	8888222220	8888223220	12 Fr x 20 cm	5
	8888221224	8888222224		12 Fr x 24 cm	5
	8888221230			12 Fr x 30 cm	5

MAHURKAR™* Elite 12.5 Fr triple lumen catheters

Kits	Straight Extensions	Curved Extensions	Description	Qty / Carton
	8888231213	8888233213	12.5 Fr x 13 cm	5
	8888231216	8888233216	12.5 Fr x 16 cm	5
	8888231220	8888233220	12.5 Fr x 20 cm	5
	8888231224	8888233224	12.5 Fr x 24 cm	5
	8888231230		12.5 Fr x 30 cm	5

MAHURKAR™* Elite 13.5 Fr high flow dual lumen catheters

Kits	Straight Extensions	Curved Extensions	Pre-Curved Shafts	Description	Qty / Carton
	8888211213	8888212213	8888213213	13.5 Fr x 13 cm	5
	8888211216	8888212216	8888213216	13.5 Fr x 16 cm	5
	8888211220	8888212220	8888213220	13.5 Fr x 20 cm	5
	8888211224	8888212224		13.5 Fr x 24 cm	5
	8888211230			13.5 Fr x 30 cm	5

1. Based on Internal Test Report 50136-180-MS-12. 2012.
2. Based on Internal Test Report RE00276693
3. Based on Internal Test Report 50136-156-MS-11. 2011.
4. Based on Internal Test Report 50136-155-MS-11. 2011.
5. Based on Internal Test Report 50136-157-MS-11. 2011.
6. Weijmer MC, Vervloet MG, ter Wee PM. Prospective follow-up of a novel design haemodialysis catheter; lower infection rates and improved survival. Nephrol Dial Transplant. 2008 Mar;23(3):977-83.
7. Based on Internal Test Report 50136-174-MS-11. 2011
8. Contreras G, Liu PY, Elzinga L, et al. A multicenter, prospective, randomized, comparative evaluation of dual-versus triple-lumen catheters for hemodialysis and apheresis in 485 patients. Am J Kidney Dis. 2003;42(2):315-324.4.

MAHURKAR™ Elite acute catheters are class IIa medical devices, CE0123.

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IMPORTANT: Please refer to the instructions for use for complete instructions, contraindications, warnings, and precautions.

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Enriching lives. **medical**