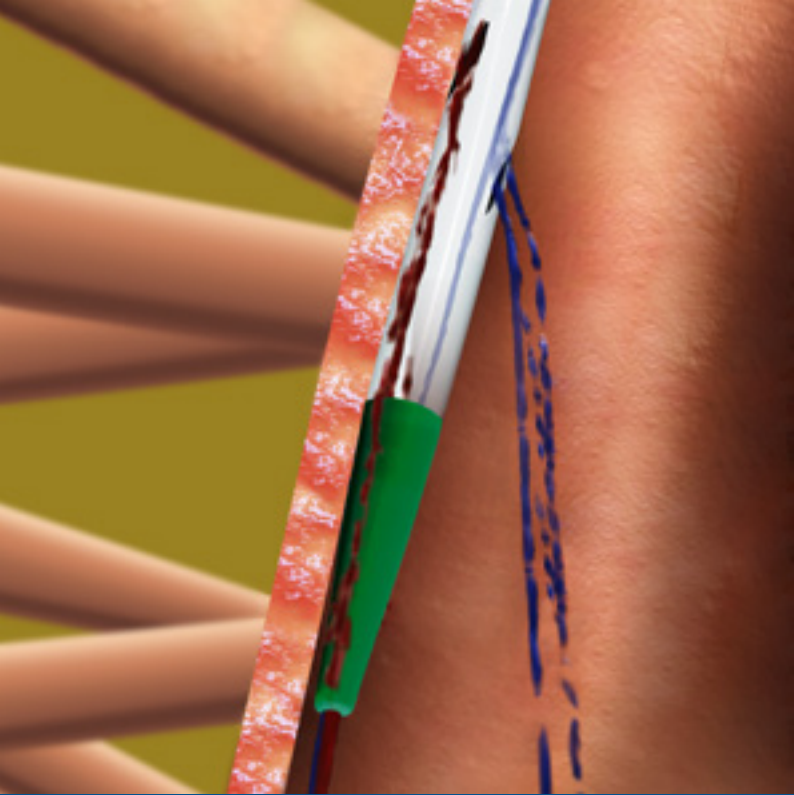


PARTNERING
WITH
CLINICIANS
TO HELP
**IMPROVE
DIALYSIS
OUTCOMES**



MAHURKAR™ Elite
Acute Dialysis Catheter Family



Designed to reduce vessel wall occlusion

Catheter tip adherence to the vessel wall has the potential to reduce blood flow and effectiveness of extracorporeal therapy.

Mahurkar™ Elite's large laser-cut side slots wrap around the catheter shaft, providing an increased open area for fluid to flow through and helping to reduce the risk of vessel wall occlusion.¹



Maximum flows

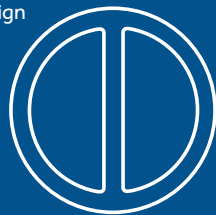
The Double-D™ lumen design maximises internal diameters without compromising catheter wall strength. The design also ensures that equal and consistent flow rates are possible through both lumens with low arterial pressures.

The smooth edges of the laser-cut side slots decrease the likelihood of clot formation by minimising debris attachment.

Modified Double-D™ Design



Double-D™ Design



"PRE-CURVED JUGULAR CATHETERS
HAVE BETTER SURVIVAL AND LOWER
RISK OF INFECTION THAN STRAIGHT
JUGULAR CATHETERS."^{2,3}

Designed for patient comfort and safety

The enhanced soft, atraumatic green tip is designed to reduce the likelihood of vessel trauma in situ and provides optimal indwelling performance.⁴

Ideal for jugular placement, our **pre-curved catheter shaft configurations** may be utilised to enhance comfort without compromising flow rates or risk of kinking.⁵ Catheter extensions and line connectors are directed away from the patient's head and face during treatment, for a more hygienic practice.

Ease of insertion

The thermosensitive polyurethane material provides optimal rigidity during insertion, while softening more than 54% post-insertion for vessel conformity and patient comfort.

The soft atraumatic green tip is designed to reduce vessel trauma during insertion and while in situ.⁴

The catheter shaft depth markings assist clinicians with visual aid during catheter insertion.

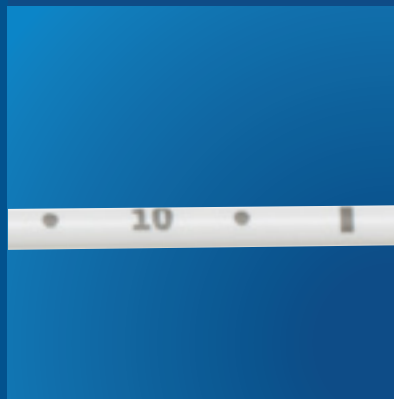
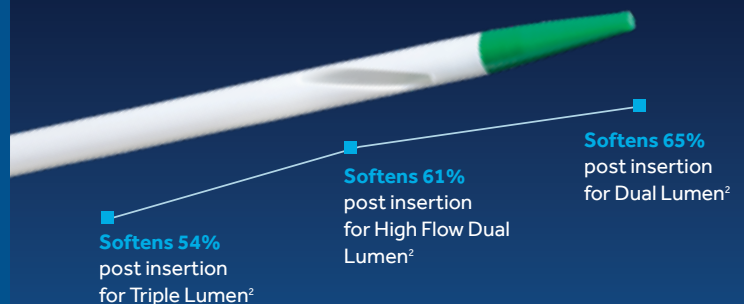
Low Recirculation

The Mahurkar™ Elite tip has been designed to minimise recirculation in both forward and reverse flow modes. Testing has demonstrated less than 1% recirculation.⁶

Triple Lumen

Our triple lumen catheter option can eliminate the need for placement of an additional central venous catheter or PICC for central venous pressure monitoring, high-pressure contrast injection of contrast media, fluid and medication administration and blood sampling.⁵

The presence of the third lumen does not compromise flow rates or increase the chance of catheter related blood stream infections.⁵



ORDERING INFORMATION

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



MAHURKAR™ Elite 12 Fr Dual Lumen Catheters Kits

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

MAHURKAR™ Elite 13.5 Fr High Flow Lumen Catheters Kits

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

MAHURKAR™ Elite 12.5 Fr Triple Lumen Catheters Kits

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

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

References

- Design validation (50136-172-MS-11)
- Gallieni M, Brenna I, Brunini F, Mezzina N, Pasho S, Giordano A. Dialysis central venous catheter types and performance. J Vasc Access. 2014;15 Suppl 7:S140-6.
- 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.
- Data on file
- 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.
- Design verification (50136-155-MS-11, 50136-156-MS-11, 50136-157-MS-11)

The Mahurkar Elite™ triple lumen catheter is intended for short-term central venous access for hemodialysis, apheresis, infusion, central venous pressure monitoring and pressure injection of contrast media. The maximum infusion rate is 5ml/sec for power injection of contrast media.

The Mahurkar Elite™ dual lumen catheter is intended for short-term central venous access for hemodialysis, apheresis, and infusion.

Remove the catheter as soon as it is no longer needed and for femoral inserted catheters they should not be implanted longer than three to four days maximum per KDOQI guidelines. Do not use catheter in thrombosed vessels or for subclavian puncture when a ventilator is in use.

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Use scan app to read

For more information, please visit
medtronic.eu/product-catalog

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

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