



## Dialysis Products

Acute Care Vascular Access

Chronic Care Vascular Access

Peritoneal Access



COVIDIEN

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## Acute Care Vascular Access

The Covidien line of MAHURKAR®\* catheters, provide single, dual and triple lumen designs to simplify access and allow the clinician to meet the needs of the patient. Tray configurations include protection and safety components that help hospitals comply with CDC, OSHA, Joint Commission and IHI guidelines/recommendations for insertion.

The acute care offering includes triple lumen, high-flow and extended dual lumen catheters. MAHURKAR®\* 12 Fr. triple lumen catheters offer high flows for acute dialysis or apheresis with the benefit of a third lumen for infusion. MAHURKAR®\* 13.5 Fr. high flow dual lumen catheters offer high flow rates for acute dialysis applications in straight and precurved options. MAHURKAR dual lumen catheters are recommended for acute hemodialysis, apheresis and infusion. Precurved and pediatric options are available. Accessories include the VitaCuff™\* device which can substantially reduce the incidence of catheter-related infection†.



Sterile Contents:

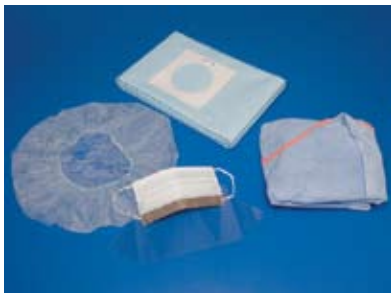
- (1) Catheter (11.5Fr., 12Fr., or 13.5Fr.)
- (1) 18ga Safety Introducer Needle
- (1) J/Straight Guidewire
- (1) Tissue Dilator, 10Fr.
- (1) Tissue Dilator, 12Fr. (11.5Fr. and 12Fr. Catheters only)
- (1) Tissue Dilator, 14Fr. (13.5Fr. Catheter only)
- (2) 6mL Luer Lock Syringes
- (2) 3mL Luer Lock Syringes [(3) provided with 12Fr. Catheter only]
- (1 each) Safety Hypodermic Needles (18ga, 22ga, 25ga)
- (1) 2.0 Nylon Suture with Curved Needle
- (1) Large Fenestrated Drape (72" x 76")
- (2) 5mL Ampule Lidocaine, 1%
- (1) Retractable #11 Safety Scalpel
- (1) Needle Holder
- (1) Chloraprep™\* Applicator Wand (3mL)
- (1) PVD Ointment (11.5Fr. and 13.5Fr. Catheters only)
- (2) Telfa™ Island Dressings
- (1) Excilon™ Drain Sponge
- (6) Gauze Sponges
- (2) Sealing Caps (3 Provided w/12Fr. Catheter only)
- (1) Drug Label Sheet
- (1) Instructional Sheet
- (2) Monoject™ Pre-Fill Advanced 10mL, 0.9% saline flush for sterile delivery

### MAHURKAR®\* Protection and Safety Solution (PASS) Trays

\*Straight and Curved Extension Options Available

CODE	EXTENSION TYPE	CATHETER SIZE	IMPLANT LENGTH	LUMEN PRIMING VOL. (mL)			SHIP CASE
				ARTERIAL	INFUSION	VENOUS	
8817277027	Straight	11.5 Fr.	13.5 cm	1.0	—	1.1	1
8830416021	Straight	11.5 Fr.	16 cm	1.1	—	1.2	1
8815668027	Straight	11.5 Fr.	19.5 cm	1.2	—	1.3	1
8831663021	Straight	11.5 Fr.	24 cm	1.4	—	1.5	1
8817277021	Curved	11.5 Fr.	13.5 cm	1.1	—	1.2	1
8830416023	Curved	11.5 Fr.	16 cm	1.2	—	1.3	1
8815668021	Curved	11.5 Fr.	19.5 cm	1.3	—	1.4	1
8831663022	Curved	11.5 Fr.	24 cm	1.6	—	1.7	1
8888135137	Straight	13.5 Fr.	13.5 cm	1.3	—	1.4	1
8888135167	Straight	13.5 Fr.	16 cm	1.4	—	1.5	1
8888135197	Straight	13.5 Fr.	19.5 cm	1.6	—	1.7	1
8888135247	Straight	13.5 Fr.	24 cm	1.8	—	1.9	1
8888135138	Curved	13.5 Fr.	13.5 cm	1.4	—	1.5	1
8888135168	Curved	13.5 Fr.	16 cm	1.5	—	1.6	1
8888135198	Curved	13.5 Fr.	19.5 cm	1.7	—	1.8	1
8888135248	Curved	13.5 Fr.	24 cm	1.9	—	2.0	1
8888104003	Straight	12 Fr.	20 cm	1.5	0.5	1.6	1
8888104004	Straight	12 Fr.	24 cm	1.7	0.5	1.7	1
8888103001	Curved	12 Fr.	13 cm	1.4	0.4	1.4	1
8888103002	Curved	12 Fr.	16 cm	1.5	0.4	1.5	1
8888103003	Curved	12 Fr.	20 cm	1.6	0.5	1.7	1
8888103004	Curved	12 Fr.	24 cm	1.8	0.5	1.8	1

## Acute Care Vascular Access



### Personal Protective Equipment (PPE) Pack

Sterile Contents:

- (1) Impervious Surgical Gown with Cloth Cuffs
- (1) Surgical Face Mask with Face Shield
- (1) Surgical Bouffant Cap
- (1) Large Drape (68" x 110")

CODE	DESCRIPTION	SHIP CASE
8888130555	Personal Protective Equipment Pack	1 each



### MAHURKAR®\* *Straight Extension Dual Lumen Catheters*

- Made of flexible radiopaque polyurethane with a radiopaque tip
- Patented Double-D\*\* catheter lumina
- Rotatable transparent suture wings
- Catheter extensions imprinted with name, length and priming volumes
- (2) sealing caps
- Sterile

CODE	CODE	CATHETER SIZE	IMPLANT LENGTH	ARTERIAL	VENOUS	SHIP CASE
SIDE HOLE	SIDE SLOTS			PRIMING VOLUME (mL)	PRIMING VOLUME (mL)	
8817142005	—	10 Fr.	12cm	0.8	0.9	5
8817145005	—	10 Fr.	15cm	0.9	1.0	5
—	8813816005	11.5 Fr.	13.5cm	1.0	1.1	5
—	8830414001	11.5 Fr.	16cm	1.1	1.2	5
—	8813794005	11.5 Fr.	19.5cm	1.2	1.3	5
—	8831662001	11.5 Fr.	24cm	1.4	1.5	5



### MAHURKAR®\* *Straight Extension Dual Lumen Catheter Kits*

Sterile Contents:

- (1) Catheter (8, 10 or 11.5Fr.)
- (1) 18ga Introducer Needle
- (1) J/Straight Guidewire - (0.032"/8Fr., 0.035"/10Fr. or 0.038"/11.5Fr.)
- (1) 8Fr. or 10Fr. Dilator
- (1) 12Fr. Dilator (11.5Fr. Kits Only)
- (2) Telfa™ Island Dressings
- (2) Sealing Caps
- (1) Optional VitaCuff™\* Infection-Control Device

CODE	CODE	CATHETER SIZE	IMPLANT LENGTH	ARTERIAL	VENOUS	SHIP CASE
SIDE HOLE	SIDE SLOTS			PRIMING VOLUME (mL)	PRIMING VOLUME (mL)	
8832539001	—	8 Fr.	9cm	0.8	0.9	5
8832539002	—	8 Fr.	12cm	0.9	0.9	5
8832539003	—	8 Fr.	15cm	1.0	1.0	5
8817146001	—	10 Fr.	15cm	0.9	1.0	5
—	8813817005	11.5 Fr.	13.5cm	1.0	1.1	5
—	8830415001	11.5 Fr.	16cm	1.1	1.2	5
—	8813793009	11.5 Fr.	19.5cm	1.2	1.3	5
—	8831662001	11.5 Fr.	24cm	1.4	1.5	5

With VitaCuff™\*

—	8813817007	11.5 Fr.	13.5cm	1.0	1.1	1
—	8830415002	11.5 Fr.	16cm	1.1	1.2	1
—	8813793011	11.5 Fr.	19.5cm	1.2	1.3	1

## Acute Care Vascular Access



### MAHURKAR®\* *Straight Extension Dual Lumen Catheter IC Safety Trays*

#### Sterile Contents:

- (1) Catheter (11.5 Fr)
- (1) 18ga Introducer Needle
- (1) J/Straight 0.038" x 70 cm Guidewire
- (1) Tissue Dilator, 10Fr.
- (1) Tissue Dilator, 12Fr.
- (2) 6mL Luer Lock Syringes
- (2) 3mL Luer Lock Syringes
- (1 each) Hypodermic Needles (18ga, 22ga, 25ga)
- (1) 2.0 Nylon Suture with Curved Needle
- (1) Large Fenestrated Drape (72" x 76")
- (1) 5mL Ampule Lidocaine, 1%
- (1) #11 Scalpel
- (1) Needle Holder
- (1) ChloraPrep™\* Applicator Wand (3mL)
- (1) PVD Ointment
- (2) Telfa™ Island Dressings
- (6) Gauze Sponges
- (2) Sealing Caps
- (1) Needle Safety Container
- (1) Optional VitaCuff™\* Infection-Control Device

CODE 11.5Fr.	IMPLANT LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8817277007	13.5cm	1.0	1.1	5
8830416001	16cm	1.1	1.2	5
8815668007	19.5cm	1.2	1.3	5
8831663001	24cm	1.4	1.5	5
<b>With VitaCuff™*</b>				
8817277009	13.5cm	1.0	1.1	1
8830416002	16cm	1.1	1.2	1
8815668009	19.5cm	1.2	1.3	1



### MAHURKAR®\* *Curved Extension Dual Lumen Catheters, Sterile*

- Patented curved extensions for jugular placement
- 180° curve bends away from patient's neck
- Made of flexible radiopaque polyurethane with a radiopaque tip
- Patented Double-D®\* catheter lumina
- Rotatable transparent suture wings
- Catheter extensions imprinted with name, length and priming volumes
- (2) sealing caps

CODE 11.5Fr.	IMPLANT LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8813816009	13.5cm	1.1	1.2	5
8830414002	16cm	1.2	1.3	5
8813794009	19.5cm	1.3	1.4	5

## Acute Care Vascular Access



### MAHURKAR®\* Curved Ext. Dual Lumen Catheter Kits

Sterile Contents:

- (1) 8Fr., 10Fr., or 11.5Fr. Catheter
- (1) 18ga Introducer Needle
- (1) J/Straight Guidewire
- (1) 8Fr. Dilator (8Fr. catheter only)
- (1) 10Fr. Dilator (10Fr. and 11.5Fr. kits only)
- (1) 12Fr. Dilator (11.5Fr. catheter only)
- (2) Telfa™ Island Dressings
- (2) Sealing Caps
- (1) Optional VitaCuff™\* Infection-Control Device (10Fr. & 11.5Fr. Only)

CODE SIDE HOLE	CODE SIDE SLOTS	CATHETER SIZE	IMPLANT LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8832539006	—	8 Fr.	12cm	1.0	1.1	5
8832539007	—	8 Fr.	15cm	1.1	1.2	5
8817143005	—	10 Fr.	12cm	0.9	1.0	5
8817146007	—	10 Fr.	15cm	1.0	1.1	5
8817149007	—	10 Fr.	19.5cm	1.1	1.2	5
—	8813817009	11.5 Fr.	13.5cm	1.1	1.2	5
—	8830415003	11.5 Fr.	16cm	1.2	1.3	5
—	8813793013	11.5 Fr.	19.5cm	1.3	1.4	5
<b>With VitaCuff™*</b>						
8817143006	—	10 Fr.	12cm	0.9	1.0	1
8817146008	—	10 Fr.	15cm	1.0	1.1	1
8817149008	—	10 Fr.	19.5cm	1.1	1.2	1
—	8813817010	11.5 Fr.	13.5cm	1.1	1.2	1
—	8830415004	11.5 Fr.	16cm	1.2	1.3	1
—	8813793014	11.5 Fr.	19.5cm	1.3	1.4	1

## Acute Care Vascular Access



### MAHURKAR®\* Curved Extension Dual Lumen Catheter IC Safety Trays

#### Sterile Contents:

- (1) 11.5Fr. Catheter
- (1) 18ga Introducer Needle
- (1) J/Straight 0.038" x 70 cm Guidewire
- (1) Tissue Dilator, 10Fr.
- (1) Tissue Dilator, 12Fr.
- (2) 6mL Luer Lock Syringes
- (2) 3mL Luer Lock Syringes
- (1 each) Hypodermic Needles (18ga, 22ga, 25ga)
- (1) 2.0 Nylon Suture with Curved Needle
- (1) Large Fenestrated Drape (72" x 76")
- (1) 5mL Ampule Lidocaine, 1%
- (1) #11 Scalpel
- (1) Needle Holder
- (1) ChloraPrep™\* Applicator Wand (3mL)
- (1) PVD Ointment
- (2) Telfa™ Island Dressings
- (6) Gauze Sponges
- (2) Sealing Caps
- (1) Needle Safety Container
- (1) Optional VitaCuff™\* Infection-Control Device

CODE	IMPLANT LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
11.5Fr.				
8817277011	13.5cm	1.1	1.2	5
8830416003	16cm	1.2	1.3	5
8815668011	19.5cm	1.3	1.4	5
8831663002	24cm	1.6	1.7	5
<b>With VitaCuff™*</b>				
8817277012	13.5cm	1.1	1.2	1
8830416004	16cm	1.2	1.3	1
8815668012	19.5cm	1.3	1.4	1



### MAHURKAR®\* Pre-Curved Dual Lumen Catheter Kits

- (1) 11.5Fr. Catheter
- (1) 18ga Introducer Needle
- (1) J/Straight 0.038" x 70 cm Guidewire
- (1) Tissue Dilator, 10Fr.
- (1) Tissue Dilator, 12Fr.
- (2) Telfa™ Island Dressings
- (2) Sealing Caps
- (1) Removable Suture Wing

CODE	IMPLANT LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
11.5Fr.				
8888115132	13.5cm	1.3	1.4	5
8888115162	16cm	1.4	1.5	5
8888115192	19.5cm	1.5	1.6	5
8888115242	24cm	1.7	1.8	5

## Acute Care Vascular Access



### MAHURKAR®\* Pre-Curved Dual Lumen Catheter IC Safety Trays

- (1) 11.5Fr. Catheter
- (1) 18ga Introducer Needle
- (1) J/Straight 0.038" x 70 cm Guidewire
- (1) Tissue Dilator, 10Fr.
- (1) Tissue Dilator, 12Fr.
- (2) 6mL Luer Lock Syringes
- (2) 3mL Luer Lock Syringes
- (1 each) Hypodermic Needles (18ga, 22ga, 25ga)
- (1) 2.0 Nylon Suture with Curved Needle
- (1) Large Fenestrated Drape (72" x 76")
- (1) 5mL Ampule Lidocaine, 1%
- (1) #11 Scalpel
- (1) Needle Holder
- (1) ChloroPrep™\* Applicator Wand (3mL)
- (1) PVD Ointment
- (2) Telfa™ Island Dressings
- (6) Gauze Sponges
- (1) Needle Safety Holder
- (2) Sealing Caps
- (1) Removable Suture Wing

CODE	IMPLANT LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
11.5Fr.				
8888115133	13.5cm	1.3	1.4	5
8888115163	16cm	1.4	1.5	5
8888115193	19.5cm	1.5	1.6	5
8888115243	24cm	1.7	1.8	5

### MAHURKAR®\* 13.5Fr. High Flow Catheter Kits and Trays

- Larger Double-D®\* lumen design optimizes flow with lower arterial pressure
- Polyurethane material facilitates ease of insertion yet softens at body temperature
- Laser-Cut side slots designed to help reduce clot formation and positional occlusion
- Multiple catheter configurations and sizes accommodate various insertion sites
- Soft, atraumatic green tip designed to reduce vessel trauma during insertion
- Clear silicone extensions provide kink resistance and view of blood
- Durable Ultem™\* adapters resist cracking
- Transparent, rotatable suture wing facilitates easy viewing of insertion site
- Radiopaque for quick visualization



### MAHURKAR®\* 13.5Fr. High Flow Straight Extension Dual Lumen Catheter Kits

- Sterile Contents:
- (1) 13.5Fr. Catheter
  - (1) 18ga Introducer Needle
  - (1) J/Straight 0.038" x 70 cm Guidewire
  - (1) 10Fr. Dilator
  - (1) 14Fr. Dilator
  - (2) Telfa™ Island Dressings
  - (2) Sealing Caps

CODE	IMPLANT LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
13.5Fr.				
8888135131	13.5cm	1.3	1.4	5
8888135161	16cm	1.4	1.5	5
8888135191	19.5cm	1.6	1.7	5
8888135241	24cm	1.8	1.9	5



## Acute Care Vascular Access



### MAHURKAR®\* 13.5Fr. High Flow *Straight Extension* Dual Lumen Catheter IC Safety Trays

Sterile Contents:

- (1) 13.5Fr. Catheter
- (1) 18ga Introducer Needle
- (1) J/Straight 0.038" x 70 cm Guidewire
- (2) 6mL Syringe
- (2) 3mL Syringe
- (1) 10Fr. Dilator
- (1) 14Fr. Dilator
- (1 each) Hypodermic Needles (18ga, 22ga, 25ga)
- (1) 2.0 Nylon Suture with Curved Needle
- (1) Large Fenestrated Drape (72" x 76")
- (1) 5mL Ampule Lidocaine, 1%
- (1) #11 Scalpel
- (1) Needle Holder
- (1) ChloraPrep™\* Applicator Wand (3mL)
- (1) PVD Ointment
- (2) Telfa™ Island Dressings
- (6) Gauze Sponges
- (1) Needle Safety Holder
- (2) Sealing Caps

CODE	IMPLANT LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
13.5Fr.				
8888135134	13.5cm	1.3	1.4	5
8888135164	16cm	1.4	1.5	5
8888135194	19.5cm	1.6	1.7	5
8888135244	24cm	1.8	1.9	5



### MAHURKAR®\* 13.5Fr. High Flow *Curved Extension* Dual Lumen Catheter Kits

Sterile Contents:

- (1) 13.5Fr. Catheter
- (1) 18ga Introducer Needle
- (1) J/Straight 0.038" x 70 cm Guidewire
- (1) 10Fr. Dilator
- (1) 14Fr. Dilator
- (2) Telfa™ Island Dressings
- (2) Injection Sealing Caps

CODE	IMPLANT LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
13.5Fr.				
8888135132	13.5cm	1.4	1.5	5
8888135162	16cm	1.5	1.6	5
8888135192	19.5cm	1.7	1.8	5
8888135242	24cm	1.9	2.0	5

## Acute Care Vascular Access



### MAHURKAR®\* 13.5Fr. High Flow Curved Extension Dual Lumen Catheter IC Safety Trays

Sterile Contents:

- (1) 13.5Fr. Catheter
- (1) 18ga Introducer Needle
- (1) J/Straight 0.038" x 70 cm Guidewire
- (2) 6mL Syringe
- (2) 3mL Syringe
- (1) 10Fr. Dilator
- (1) 14Fr. Dilator
- (1 each) Hypodermic Needles (18ga, 22ga, 25ga)
- (1) 2.0 Nylon Suture with Curved Needle
- (1) Large Fenestrated Drape (72" x 76")
- (1) 5mL Ampule Lidocaine, 1%
- (1) #11 Scalpel
- (1) Needle Holder
- (1) ChloraPrep™\* Applicator Wand (3mL)
- (1) PVD Ointment
- (2) Telfa™ Island Dressings
- (6) Gauze Sponges
- (1) Needle Safety Holder
- (2) Sealing Caps

CODE 13.5Fr.	IMPLANT LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8888135135	13.5cm	1.4	1.5	5
8888135165	16cm	1.5	1.6	5
8888135195	19.5cm	1.7	1.8	5
8888135245	24cm	1.9	2.0	5



### MAHURKAR®\* 13.5Fr. High Flow Pre-Curved Dual Lumen Catheter Kits

Sterile Contents:

- (1) 13.5Fr. Catheter
- (1) 18ga Introducer Needle
- (1) J/Straight 0.038" x 70 cm Guidewire
- (1) Removable Suture Wing
- (1) 10Fr. Dilator
- (1) 14Fr. Dilator
- (2) Telfa™ Island Dressings
- (2) Sealing Caps

CODE 13.5Fr.	IMPLANT LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8888135133	13.5cm	1.7	1.8	5
8888135163	16cm	1.8	1.9	5
8888135193	19.5cm	1.9	2.0	5
8888135243	24cm	2.1	2.2	5

## Acute Care Vascular Access



### MAHURKAR®\* 13.5Fr. High Flow *Pre-Curved* Dual Lumen Catheter IC Safety Trays

- Sterile Contents:
- (1) 13.5Fr. Catheter
  - (1) 18ga Introducer Needle
  - (1) J/Straight 0.038" x 70 cm Guidewire
  - (1) Removable Suture Wing
  - (2) 6mL Syringe
  - (2) 3mL Syringe
  - (1) 10Fr. Dilator
  - (1) 14Fr. Dilator
  - (1 each) Hypodermic Needles (18ga, 22ga, 25ga)
  - (1) 2.0 Nylon Suture with Curved Needle
  - (1) Large Fenestrated Drape (72" x 76")
  - (1) 5mL Ampule Lidocaine, (1%)
  - (1) #11 Scalpel
  - (1) Needle Holder
  - (1) ChloraPrep™\* Applicator Wand (3mL)
  - (1) PVD Ointment
  - (2) Telfa™ Island Dressings
  - (6) Gauze Sponges
  - (1) Needle Safety Holder
  - (2) Sealing Caps

CODE	IMPLANT LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
13.5Fr.				
8888135136	13.5cm	1.7	1.8	5
8888135166	16cm	1.8	1.9	5
8888135196	19.5cm	1.9	2.0	5
8888135246	24cm	2.1	2.2	5

### MAHURKAR®\* 12Fr. Triple Lumen Catheters: Indicated For Dialysis, Apheresis & Infusion

- Laser-Cut side slots help to reduce clot formation and positional occlusion.
- Soft Atraumatic Tip designed to reduce vessel trauma during insertion.
- 19ga. Distinctive 3rd Dedicated line for blood access & delivery of fluid medications preserves vascular access.
- Modified Double-D®\* Lumen design ensures high flow rates.
- Imprinted Printing Volumes on catheter extensions quickly identify catheter locking volumes.
- 180° Curved Extensions help stabilize the catheter and provide patient comfort.
- Rotatable Suture Wings enable the tip to be rotated after implantation and stabilizes the catheter.



### MAHURKAR®\* 12Fr. Triple Lumen *Curved Extension* Catheter Kits

- Sterile Contents:
- ((1) 12Fr. Catheter
  - (1) 18ga Introducer Needle
  - (1) J/Straight 0.035" x 70 cm Guidewire
  - (1) 10Fr. Dilator
  - (1) 12Fr. Dilator
  - (2) Telfa™ Island Dressings
  - (3) Sealing Caps

CODE	IMPLANT LENGTH	LUMEN PRIMING VOLUMES (mL)			SHIP CASE
		RED OR ARTERIAL	BLUE OR DISTAL	CLEAR OR MEDIAL	
12Fr.					
8888345603	13cm	1.4	1.4	0.4	5
8888345611	16cm	1.5	1.5	0.4	5
8888345629	20cm	1.6	1.7	0.5	5
8888345637	24cm	1.8	1.8	0.5	5

## Acute Care Vascular Access



### MAHURKAR®\* 12Fr. Triple Lumen Catheter IC Safety Trays

Sterile Contents:

- (1) 12Fr. Catheter
- (1) 18ga Introducer Needle
- (1) J/Straight 0.035" x 70 cm Guidewire
- (2) 6mL Syringe
- (2) 3mL Syringe
- (1) 10Fr. Dilator
- (1) 12Fr. Dilator
- (1 each) Hypodermic Needles (18ga, 22ga, 25ga)
- (1) 2.0 Nylon Suture with Curved Needle
- (1) Large Fenestrated Drape (72" x 76")
- (1) 5mL Ampule Lidocaine, 1%
- (1) #11 Scalpel
- (1) Needle Holder
- (1) ChloraPrep™\* Applicator Wand (3mL)
- (2) Telfa™ Island Dressings
- (6) Gauze Sponges
- (1) Needle Safety Holder
- (3) Sealing Caps

CODE 12Fr.	CATHETER EXTENSIONS	IMPLANT LENGTH	LUMEN PRIMING VOLUMES (mL)			SHIP CASE
			RED OR ARTERIAL	BLUE OR DISTAL	CLEAR OR MEDIAL	
8888101001	Curved	13cm	1.4	1.4	0.4	5
8888101002	Curved	16cm	1.5	1.5	0.4	5
8888101003	Curved	20cm	1.7	1.6	0.5	5
8888101004	Curved	24cm	1.8	1.8	0.5	5
8888102003	Straight	20cm	1.6	1.7	0.5	5
8888102004	Straight	24cm	1.8	1.8	0.5	5



### Quinton™\* 8Fr. Single Lumen Straight Extension Catheter

- Made of flexible radiopaque polyurethane
- Five outflow holes spiral near the tapered tip
- Rotatable transparent suture wings
- Luer-lock adapter
- Extension imprinted with priming volumes
- Sterile

CODE 8Fr.	IMPLANT LENGTH	OVERALL LENGTH	PRIMING VOLUME (mL)	SHIP CASE
8817232019	19.5cm	29.0cm	1.2	5



### Quinton™\* 8Fr. Single Lumen Straight Extension Catheter Kits

Sterile Contents:

- (1) 8Fr. Catheter
- (1) 18ga Introducer Needle
- (1) J/Straight 0.035" Guidewire
- (1) Sealing Cap

CODE 8FR.	IMPLANT LENGTH	OVERALL LENGTH	PRIMING VOLUME (ML)	SHIP CASE
8831173010	15cm	24.5cm	1.0	5
8831173011	19.5cm	29.0cm	1.2	5

## Chronic Vascular Access

A unique variety of catheter options are available allowing clinicians to tailor chronic vascular access for hemodialysis, apheresis and infusion to meet the needs of each patient.

The Tal Palindrome™ family of chronic hemodialysis catheters from Covidien reflects the company-wide commitment to delivering advanced products that will help to improve patient outcomes. Preserving access. Protecting the catheter. Promoting optimal patient care. From their reliable underlying design to their innovative coating technologies.

The MAHUKAR®\* Maxid™ dual lumen catheter delivers high flows with low venous and arterial pressures, superior kink resistance, a simple single insertion and over-the-wire insertion device.

The PermCath™ and MAHUKAR 13.5Fr. cuffed catheters provide biocompatible silicone construction ideal for chronic access and long-term infusion.

### Tal Palindrome Symmetric Tip Dual Lumen Catheter

Unique symmetric tip and laser-cut side slots minimize recirculation and likelihood of positional occlusion, as well as reduce clot formation by decreasing debris attachment.

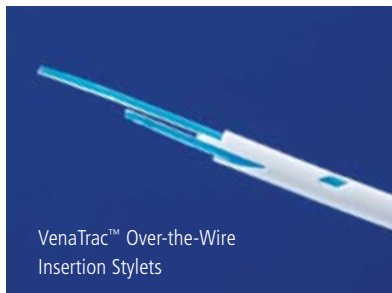
\* Available with or without VenaTrac™ over-the-wire insertion device.



### Tal Palindrome™ Symmetric Tip Dual Lumen Catheter Sport Packs

Sterile Contents:

- (1) 14.5Fr. Symmetric Tip Catheter
- (2) VenaTrac™ Over-the-Wire Insertion Stylets (available option)
- (1) 16Fr. Valved Pull-Apart Safety Sheath
- (1) Bifurcated Tunneler
- (1) 12Fr. Tissue Dilator
- (1) 14Fr. Tissue Dilator
- (2) Sealing Caps



VenaTrac™ Over-the-Wire Insertion Stylets

CODE	IMPLANT LENGTH	OVERALL LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
14.5Fr.					
8888119360	19cm	36cm	1.6	1.6	5
8888123400	23cm	40cm	1.9	1.9	5
8888128450	28cm	45cm	2.1	2.1	5
8888133500	33cm	50cm	2.3	2.3	5
<b>With VenaTrac</b>					
8888119364	19cm	36cm	1.6	1.6	5
8888123404	23cm	40cm	1.9	1.9	5
8888128454	28cm	45cm	2.1	2.1	5
8888133504	33cm	50cm	2.3	2.3	5



### Tal Palindrome™ Symmetric Tip Dual Lumen Catheter Kits

Sterile Contents:

- (1) 14.5Fr. Symmetric Tip Catheter
- (2) VenaTrac™ Over-the-Wire Insertion Stylets (additional option)
- (1) 16Fr. Valved Pull-Apart Safety Sheath
- (1) Bifurcated Tunneler
- (1) 12Fr. Tissue Dilator
- (1) 14Fr. Tissue Dilator
- (2) Sealing Caps
- (1) Introducer Needle, 18 Gauge
- (1) J/Straight .038" Guidewire
- (1) 12mL Syringe
- (1) #11 Scalpel
- (2) Telfa™ Island Dressing
- (4) 4" x 4" Cotton Gauze Sponges

Continues on following page

## Chronic Vascular Access



VenaTrac™ Over-the-Wire Insertion Stylets

### Tal Palindrome™ Symmetric Tip Dual Lumen Catheter Kits

Continued from previous page

CODE 14.5Fr.	IMPLANT LENGTH	OVERALL LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8888145014	19cm	36cm	1.6	1.6	5
8888145015	23cm	40cm	1.9	1.9	5
8888145016	28cm	45cm	2.1	2.1	5
8888145017	33cm	50cm	2.3	2.3	5
8888145018	55cm	72cm	3.1	3.1	5
<b>With VenaTrac</b>					
8888145039	19cm	36cm	1.6	1.6	5
8888145040	23cm	40cm	1.9	1.9	5
8888145041	23cm	45cm	2.1	2.1	5
8888145042	33cm	50cm	2.3	2.3	5



### Tal Palindrome™ Pre-Curved Symmetric Tip Dual Lumen Catheter Sport Packs

Sterile Contents:

- (1) 14.5Fr. Symmetric Tip Catheter
- (2) VenaTrac™ Over-the-Wire Insertion Stylets
- (1) 16Fr. Valved Pull-Apart Safety Sheath
- (1) Bifurcated Tunneler
- (1) 12Fr. Tissue Dilator
- (1) 14Fr. Tissue Dilator
- (2) Sealing Caps

CODE 14.5Fr.	IMPLANT LENGTH	OVERALL LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8888119370	19cm	36cm	1.6	1.6	5
8888123410	23cm	40cm	1.9	1.9	5
8888128460	28cm	45cm	2.1	2.1	5
8888133510	33cm	50cm	2.3	2.3	5



### Tal Palindrome™ Pre-Curved Symmetric Tip Dual Lumen Catheter Kit

Sterile Contents:

- (1) 14.5Fr. Symmetric Tip Catheter
- (2) VenaTrac™ Over-the-Wire Insertion Stylets
- (1) 16Fr. Valved Pull-Apart Safety Sheath
- (1) Bifurcated Tunneler
- (1) 12Fr. Tissue Dilator
- (1) 14Fr. Tissue Dilator
- (2) Sealing Caps
- (1) 18ga Introducer Needle
- (1) J/Straight .038" Guidewire
- (1) 12mL Syringe
- (1) #11 Scalpel
- (2) Telfa™ Island Dressing
- (4) 4" x 4" Cotton Gauze Sponges

CODE 14.5Fr.	IMPLANT LENGTH	OVERALL LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8888145058	19cm	36cm	1.6	1.6	5
8888145059	23cm	40cm	1.9	1.9	5
8888145060	28cm	45cm	2.1	2.1	5
8888145061	33cm	50cm	2.3	2.3	5

## Chronic Vascular Access

### Tal Palindrome™ Emerald Heparin Coated Dialysis Catheter

Decreases the likelihood of clot formation and inhibits fibrin sheath propagation with its non-eluting heparin coating.

\*Straight and Pre-Curved Options



#### Tal Palindrome™ Emerald™ Heparin Coated Catheter Sport Packs

- Sterile Contents:
- (1) 14.5Fr. Symmetric Tip Catheter
  - (2) VenaTrac™ Over-the-Wire Insertion Stylets
  - (1) 16Fr. Valved Pull-Apart Safety Sheath
  - (1) Bifurcated Tunneler
  - (1) 12Fr. Tissue Dilator
  - (1) 14Fr. Tissue Dilator
  - (2) Sealing Caps

CODE 14.5Fr.	DESCRIPTION	IMPLANT LENGTH	OVERALL LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8888119365	Straight	19cm	36cm	1.6	1.6	5
8888123405	Straight	23cm	40cm	1.9	1.9	5
8888128455	Straight	28cm	45cm	2.1	2.1	5
8888133505	Straight	33cm	50cm	2.3	2.3	5
8888119371	Pre-Curved	19cm	36cm	1.6	1.6	5
8888123411	Pre-Curved	23cm	40cm	1.9	1.9	5
8888128461	Pre-Curved	28cm	45cm	2.1	2.1	5
8888133511	Pre-Curved	33cm	50cm	2.3	2.3	5



#### Tal Palindrome™ Emerald™ Heparin Coated Catheter Kits

- Sterile Contents:
- (1) 14.5Fr. Symmetric Tip Catheter
  - (2) VenaTrac™ Over-the-Wire Insertion Stylets
  - (1) 16Fr. Valved Pull-Apart Safety Sheath
  - (1) Bifurcated Tunneler
  - (1) 12Fr. Tissue Dilator
  - (1) 14Fr. Tissue Dilator
  - (2) Sealing Caps
  - (1) 18ga Introducer Needle
  - (1) J/Straight .038" Guidewire
  - (1) 12mL Syringe
  - (1) #11 Scalpel
  - (2) Telfa™ Island Dressing
  - (4) 4" x 4" Cotton Gauze Sponges

CODE 14.5Fr.	DESCRIPTION	IMPLANT LENGTH	OVERALL LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8888145043	Straight	19cm	36cm	1.6	1.6	5
8888145044	Straight	23cm	40cm	1.9	1.9	5
8888145045	Straight	28cm	45cm	2.1	2.1	5
8888145046	Straight	33cm	50cm	2.3	2.3	5
8888145068	Pre-Curved	19cm	36cm	1.6	1.6	5
8888145069	Pre-Curved	23cm	40cm	1.9	1.9	5
8888145070	Pre-Curved	28cm	45cm	2.1	2.1	5
8888145071	Pre-Curved	33cm	50cm	2.3	2.3	5

## Chronic Vascular Access

### Tal Palindrome™ Ruby™ Antimicrobial Dialysis Catheter

Reduces microbial colonization on the catheter surface with a silver ion sleeve.



#### Tal Palindrome™ Ruby™ Antimicrobial Catheter Sport Packs

- Sterile Contents:
- (1) 14.5Fr. Symmetric Tip Catheter
  - (2) VenaTrac™ Over-the-Wire Insertion Stylets
  - (1) 16Fr. Valved Pull-Apart Safety Sheath
  - (1) Bifurcated Tunneler
  - (1) 12Fr. Tissue Dilator
  - (1) 14Fr. Tissue Dilator
  - (2) Sealing Caps

CODE 14.5Fr.	IMPLANT LENGTH	OVERALL LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8888119368	19cm	36cm	1.6	1.6	5
8888123408	23cm	40cm	1.9	1.9	5
8888128458	28cm	45cm	2.1	2.1	5
8888133508	33cm	50cm	2.3	2.3	5



#### Tal Palindrome™ Ruby™ Antimicrobial Catheter Kits

- Sterile Contents:
- (1) 14.5Fr. Symmetric Tip Catheter
  - (2) VenaTrac™ Over-the-Wire Insertion Stylets
  - (1) 16Fr. Valved Pull-Apart Safety Sheath
  - (1) Bifurcated Tunneler
  - (1) 12Fr. Tissue Dilator
  - (1) 14Fr. Tissue Dilator
  - (2) Sealing Caps
  - (1) 18ga Introducer Needle
  - (1) J/Straight .038" Guidewire
  - (1) 12mL Syringe
  - (1) #11 Scalpel
  - (2) Telfa™ Island Dressing
  - (4) 4" x 4" Cotton Gauze Sponges

CODE 14.5Fr.	IMPLANT LENGTH	OVERALL LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8888145062	19cm	36cm	1.6	1.6	5
8888145063	23cm	40cm	1.9	1.9	5
8888145064	28cm	45cm	2.1	2.1	5
8888145065	33cm	50cm	2.3	2.3	5
8888145066*	55cm	72cm	3.1	3.1	5

\*Does not include VenaTrac™\* stylet



## Chronic Vascular Access

### Tal Palindrome™ SapphiRE™ Heparin Coated and Antimicrobial Dialysis Catheter

Incorporating the heparin coating and silver ion sleeve, the Tal Palindrome™ SapphiRE™ catheter is the premier dialysis catheter reducing the likelihood of clot formation AND microbial colonization on the catheter surface.



#### Tal Palindrome™ SapphiRE™ Heparin Coated and Antimicrobial Catheter Sport Packs

- Sterile Contents:
- (1) 14.5Fr. Symmetric Tip Catheter
  - (2) VenaTrac™ Over-the-Wire Insertion Stylets
  - (1) 16Fr. Valved Pull-Apart Safety Sheath
  - (1) Bifurcated Tunneler
  - (1) 12Fr. Tissue Dilator
  - (1) 14Fr. Tissue Dilator
  - (2) Sealing Caps

CODE 14.5Fr.	IMPLANT LENGTH	OVERALL LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8888119369	19cm	36cm	1.6	1.6	5
8888123409	23cm	40cm	1.9	1.9	5
8888128459	28cm	45cm	2.1	2.1	5
8888133509	33cm	50cm	2.3	2.3	5



#### Tal Palindrome™ SapphiRE™ Heparin Coated and Antimicrobial Catheter Kits

- Sterile Contents:
- (1) 14.5Fr. Symmetric Tip Catheter
  - (2) VenaTrac™ Over-the-Wire Insertion Stylets
  - (1) 16Fr. Valved Pull-Apart Safety Sheath
  - (1) Bifurcated Tunneler
  - (1) 12Fr. Tissue Dilator
  - (1) 14Fr. Tissue Dilator
  - (2) Sealing Caps
  - (1) 18ga Introducer Needle
  - (1) J/Straight .038" Guidewire
  - (1) 12mL Syringe
  - (1) #11 Scalpel
  - (2) Telfa™ Island Dressing
  - (4) 4" x 4" Cotton Gauze Sponges

CODE 14.5Fr.	IMPLANT LENGTH	OVERALL LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8888145057	19cm	36cm	1.6	1.6	5
8888145048	23cm	40cm	1.9	1.9	5
8888145049	28cm	45cm	2.1	2.1	5
8888145050	33cm	50cm	2.3	2.3	5

## Chronic Vascular Access



### MAHURKAR®\* Maxid™ 14.5Fr. Dual Lumen Catheter Sport Packs Available with or without VenaTrac™ over-the-wire Insertion device

- Sterile Contents:
- (1) 14.5Fr. Catheter
  - (2) VenaTrac™ Over-the-Wire Insertion Stylets (Available Option)
  - (1) 16Fr. Valved Pull-Apart Safety Sheath
  - (1) Tunneling Stylet, 21 cm
  - (1) 12Fr. Tissue Dilator
  - (1) 14Fr. Tissue Dilator
  - (2) Sealing Caps

CODE 14.5Fr.	IMPLANT LENGTH	OVERALL LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8888119385	19cm	36cm	1.6	1.7	5
8888123435	23cm	40cm	1.8	1.9	5
8888128485	28cm	45cm	2.0	2.1	5
8888133535	33cm	50cm	2.2	2.3	5
<b>With VenaTrac</b>					
8888119362	19cm	36cm	1.6	1.7	5
8888123402	23cm	40cm	1.8	1.9	5
8888128452	28cm	45cm	2.0	2.1	5
8888133502	33cm	50cm	2.2	2.3	5



### MAHURKAR®\* Maxid™ 14.5Fr. Dual Lumen Catheter Kits

- Sterile Contents:
- (1) 14.5Fr. Symmetric Tip Catheter
  - (2) VenaTrac™ Over-the-Wire Insertion Stylets (Available Option)
  - (1) 16Fr. Valved Pull-Apart Safety Sheath
  - (1) Tunneling Stylet, 21 cm
  - (1) 12Fr. Tissue Dilator
  - (1) 14Fr. Tissue Dilator
  - (2) Sealing Caps
  - (1) 18ga Introducer Needle
  - (1) J/Straight .038" Guidewire
  - (1) 12mL Syringe
  - (1) #11 Scalpel
  - (2) Telfa™ Island Dressing
  - (4) 4" x 4" Cotton Gauze Sponges

CODE 14.5Fr.	IMPLANT LENGTH	OVERALL LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8888145251	19cm	36cm	1.6	1.7	5
8888145252	23cm	40cm	1.8	1.9	5
8888145253	28cm	45cm	2.0	2.1	5
8888145254	33cm	50cm	2.2	2.3	5
<b>With VenaTrac</b>					
8888145027	19cm	36cm	1.6	1.7	5
8888145028	23cm	40cm	1.8	1.9	5
8888145029	28cm	45cm	2.0	2.1	5
8888145030	33cm	50cm	2.2	2.3	5

## Chronic Vascular Access



### MAHURKAR®\* Maxid™ 14.5Fr. Dual Lumen Catheter Trays

#### Sterile Contents:

- (1) 14.5Fr. Catheter
- (2) VenaTrac™ Over-the-Wire Insertion Stylets (Available Option)
- (1) 16Fr. Valved Pull-Apart Safety Sheath
- (1) Tunneling Stylet, 21 cm
- (1) 12Fr. Tissue Dilator
- (1) 14Fr. Tissue Dilator
- (2) Sealing Caps
- (1) 18ga Introducer Needle
- (1) J/Straight .038" Guidewire
- (1) 12 mL Syringes
- (1) #11 Scalpel
- (2) Telfa™ Island Dressing
- (4) 4" x 4" Cotton Gauze Sponges
- (2) 2" x 2" Cotton Gauze Sponges
- (2) 3 mL Luer-Lock Syringes
- (1 each) Hypodermic Needles (18ga, 22ga, 25ga)
- (1) 2.0 Suture with Curved Needle
- (1) Fenestrated Drape
- (2) 5 mL Ampule Lidocaine, 1%
- (1) Needle Holder
- (1) Packet PVD Swabs

CODE 14.5Fr.	IMPLANT LENGTH	OVERALL LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8888145255	19cm	36cm	1.6	1.7	1
8888145256	23cm	40cm	1.8	1.9	1
8888145257	28cm	45cm	2.0	2.1	1
8888145258	33cm	50cm	2.2	2.3	1
<b>With VenaTrac</b>					
8888145031	19cm	36cm	1.6	1.7	1
8888145032	23cm	40cm	1.8	1.9	1
8888145033	28cm	45cm	2.0	2.1	1
8888145034	33cm	50cm	2.2	2.3	1

## Chronic Vascular Access



### Tandem-Cath™ Dual Lumen Catheter Kits

- Carbothane™ construction
- Dual Catheter System with streamlined insertion
- Carbothane™\* construction
- High flows
- Superior kink resistance
- Safety and reliability of the Quinton™\* catheter line

Sterile Contents:

- |  |  |
|--|--|
| • (2) 10Fr. Catheters                            | • (2) Tunnel/ Cuff Devices                 |
| • (2) Extension Adapters                         | • (2) 3cc Syringes                         |
| • (2) 18ga Introducer Needles                    | • (2) 6cc Syringes                         |
| • (2) J/Straight .038" Guidewire                 | • (2) Telfa™ Island Dressings              |
| • (1) 7Fr. Valved Pull-Apart Sheath / Dilator*   | • (4) 4" x 4" Cotton Gauze Sponges         |
| • (2) 10.5Fr. Valved Pull-Apart Sheath/ Dilator* | • (4) Flat Clamps                          |
| • (2) Tunneling Stylets, 15cm                    | • (1) #11 Scalpel                          |
|  | • (2) Sealing Caps                         |
|  | • (1) Statlock™ Catheter Securement device |

\*Made with PolyTetra FluoroEthylene (PTFE)

CODE	TIP TO CUFF LENGTH	SHIP CASE	TIP TO HUB LENGTH	PRIMING VOLUME (mL)
8888219226	19A / 22Vcm	1	30cm	1.7
8888223266	23A / 26Vcm	1	35cm	1.9
8888228316	28A / 31Vcm	1	40cm	2.1
			45cm	2.3
			50cm	2.5



### Tandem-Cath™ Dual Lumen Catheter Repair Kits

- Non-Pyrogenic

Components

- (2) Flat Clamps
- (2) Sealing Caps
- (1) Red Extension Assembly
- (1) Blue Extension Assembly

CODE	DESCRIPTION	SHIP CASE
8888200006	Tandem-Cath Repair Kit	1

Note: Repair Kits are not universal. They must be ordered for the specific size catheter.

To be repaired, an indwelling catheter must have at least 3cm external tubing at the exit site.

\*Silicone Adhesive is packaged individually and must be ordered separately to ensure maximum shelf-life.

See Page #32 for ordering information (Code #8810807001).

## Chronic Vascular Access



### Permcath™ Dual Lumen Catheters

- Made of soft silicone rubber
- 2.5cm separation between arterial lumen and venous tip
- May be implanted in the jugular, subclavian or femoral vein
- Flexible silicone suture wings
- Felt cuff anchors catheter subcutaneously
- Clear extensions imprinted with priming volumes
- Two Sealing Caps
- Sterile
- **Pediatric option available**

Code	IMPLANT LENGTH	OVERALL LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8815132001	19cm	36cm	1.3	1.4	1
8817606001	23cm	40cm	1.4	1.5	1
Pediatric:					
8815543001	13cm	28cm	0.8	0.85	1



### Permcath™ Dual Lumen Catheter Kits

Sterile Contents:

- (1) Catheter
- (1) 18ga Introducer Needle
- (1) J/Straight .038" Guidewire
- (1) 12mL Syringe
- (1) 10Fr. Dilator (28cm only)
- (1) 12Fr. Dilator (except 28cm)
- (1) #11 Scalpel
- (1) Tunneling Stylet
- (1) Oval Pull-Apart Sheath/ Dilator
- (4) 4" x 4" Cotton Gauze Sponges
- (2) Telfa™ Island Dressings
- (2) Sealing Caps

Code	IMPLANT LENGTH	OVERALL LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8817748001	19cm	36cm	1.3	1.4	5
8817749001	23cm	40cm	1.4	1.5	5
8831692001	28cm	45cm	1.6	1.7	5
Pediatric :					
8834369001	13cm	28cm	0.8	0.85	5

Note: All catheters, kits and trays are double packaged; the inner package can be placed directly on the sterile field.

## Chronic Vascular Access



### Permcath™ Dual Lumen Catheter Insertion Trays

- Sterile Contents:
- (1) Catheter
  - (2) Sealing Caps
  - (1) Fenestrated Drape
  - (2) 5mL Ampules Lidocaine 1%
  - (1) 18ga Introducer Needle
  - (1) J/Straight .038" Guidewire
  - (1) 10Fr. Dilator (28cm only)
  - (1) 12Fr. Dilator (except 28cm)
  - (1) Oval Pull-Apart Sheath/Dilator
  - (1) Tunneling Stylet
  - (2) 3mL Syringes
  - (2) 6mL Syringes
  - (1 each) Hypodermic Needles (18ga, 22ga and 25ga)
  - (1) Needle Holder
  - (1) #11 Scalpel
  - (1) Suture with Curved Needle
  - (1) PVD Ointment
  - (1) Packet PVD Swabs
  - (6) 4" x 4" Cotton Gauze Sponges
  - (2) Telfa™ Island Dressings

Code	IMPLANT LENGTH	OVERALL LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8817680001	19cm	36cm	1.3cc	1.4cc	1
8817681001	23cm	40cm	1.4cc	1.5cc	1
8831693001	28cm	45cm	1.6cc	1.7cc	1
Pediatric:					
8834370001	13cm	28cm	0.8cc	0.85cc	1



### Permcath™ Dual Lumen Catheter Repair Kits

#### Replacement Section with Dual Extensions

- Luer-lock Adapters
- In-line Clamps
- Silicone Rubber Repair Sleeve
- (2) D-Shaped Lumen Connectors

- Sterile Contents:
- (1) Replacement Section with Dual Extensions
  - (1) 1mL Syringe with Blunted Needle
  - (2) Sealing Caps

CODE	FOR DUAL LUMEN CATHETER	SHIP CASE
8888680009	Permcath, 28cm	1
8888169001	Permcath, 36cm	1
8888169003	Permcath, 40cm	1

Note: Repair Kits are not universal. They must be ordered for the specific size catheter.

To be repaired, an indwelling catheter must have at least 3cm external tubing at the exit site.

\*Silicone Adhesive is packaged individually and must be ordered separately to ensure maximum shelf-life.

See Page #32 for ordering information (Code #8810807001).

## Chronic Vascular Access



### MAHURKAR®\* 13.5Fr. Silicone Cuffed Catheter Kits

- Made of soft silicone rubber
- Radiopaque
- 2.5cm separation between arterial lumen and venous tip
- May be implanted in the jugular, subclavian or femoral vein
- Flexible silicone suture wings
- Felt cuff anchors catheter subcutaneously
- Clear extensions imprinted with priming volumes

#### Sterile Contents:

- (1) Catheter
- (1) 18ga Introducer Needle
- (1) J/Straight .038" Guidewire
- (1) 12mL Syringe
- (1) 12Fr. Dilator
- (1) #11 Scalpel
- (1) Tunneling Stylet
- (1) Pull-Apart Sheath/Dilator
- (4) 4" x 4" Cotton Gauze Sponges
- (2) Telfa™ Island Dressings
- (2) Sealing Caps

Code	IMPLANT LENGTH	OVERALL LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8833074001	19cm	36cm	1.4	1.5	5
8833074002	23cm	40cm	1.5	1.6	5
8833074003	28cm	45cm	1.7	1.8	5
8833074004	33cm	50cm	1.9	2.0	5



### MAHURKAR®\* 13.5Fr. Silicone Cuffed Catheter Insertion Trays

#### Sterile Contents:

- (1) Catheter
- (1) 18ga Introducer Needle
- (1) Fenestrated Drape
- (2) 5mL Ampules Lidocaine 1%
- (1) J/Straight .038" Guidewire
- (1) 12Fr. Dilator
- (1) Tunneling Stylet
- (1) Pull-Apart Sheath/Dilator
- (2) 6mL Syringes
- (2) 3mL Syringes
- (1 each) Hypodermic Needles (18ga, 22ga and 25 ga)
- (1) Needle Holder
- (1) Suture with Curved Needle
- (1) #11 Scalpel
- (1) PVD Ointment
- (1) Packet PVD Swabs
- (6) 4" x 4" Cotton Gauze Sponges
- (2) Telfa™ Island Dressings
- (2) Sealing Caps

Code	IMPLANT LENGTH	OVERALL LENGTH	ARTERIAL PRIMING VOLUME (mL)	VENOUS PRIMING VOLUME (mL)	SHIP CASE
8833052001	19cm	36cm	1.4	1.5	1
8833052002	23cm	40cm	1.5	1.6	1
8833052003	28cm	45cm	1.7	1.8	1

## Peritoneal Access

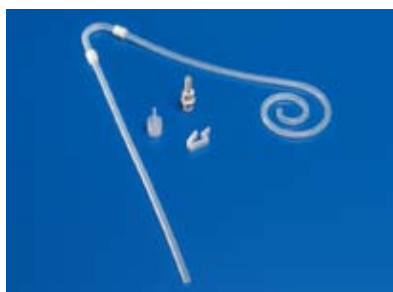
Covidien offers a full line of catheters and accessories for Acute or Chronic Peritoneal Dialysis and Intraperitoneal Chemotherapy.

The Swan Neck catheters are designed with a pre-formed 180° angle that keeps the internal portion from migrating out of position and decreases stress on the exit site; this often occurs when a straight catheter is manually curved.

Catheters with a Curl Cath design provide additional mass keeping the catheter low in the pelvic gutter, resulting in less catheter migration while gently dispersing dialysate fluid, decreasing the likelihood of pain with infusion.

The Swan Neck Presternal Catheter is indicated for patients with a more active lifestyle, obese patients who may have difficulty manipulating a catheter at the belt line, or incontinent patients.

Covidien also offers a wide selection of pediatric peritoneal catheters.



### Quinton™\* Swan Neck *Curl Cath* Peritoneal Catheters

CODE	CATHETER DESCRIPTION	SHIP CASE
8888413807	Swan Neck Curl Cath Catheter 2 Cuff Left, 62.5cm	1
8888413815	Swan Neck Curl Cath Catheter 2 Cuff Right, 62.5cm	1



### Quinton™\* Swan Neck *Curl Cath Missouri* Peritoneal Catheters

CODE	CATHETER DESCRIPTION	SHIP CASE
8888413401	Swan Neck Curl Cath Missouri Catheter, 2 Cuff Left, 62cm	1
8888413419	Swan Neck Curl Cath Missouri Catheter, 2 Cuff Right, 62cm	1



### Quinton™\* Swan Neck Missouri Peritoneal Catheters

CODE	CATHETER DESCRIPTION	SHIP CASE
8888412601	Swan Neck Missouri Catheter 2 Cuff Left, 44.5cm	1
8888412619	Swan Neck Missouri Catheter 2 Cuff Right, 44.5cm	1



### Quinton™\* Swan Neck Moncrief-Popovich Peritoneal Catheter

CODE	CATHETER DESCRIPTION	SHIP CASE
8888414029	Swan Neck Moncrief-Popovich Catheter 2 Cuff, 62.5cm	5



## Peritoneal Access



### Quinton™\* Swan Neck Presternal Peritoneal Catheter\*

CODE	CATHETER DESCRIPTION	SHIP CASE
8888414011	Swan Neck Presternal Catheter 2 Cuff, 112.8cm (Swan Neck: 60.3cm + 52.5cm Curl)	1

\*May be trimmed at connection point to accommodate varying patient sizes.



### Quinton™\* Swan Neck Tenckhoff Peritoneal Catheter

CODE	CATHETER DESCRIPTION	SHIP CASE
8888412007	Swan Neck Tenckhoff Catheter 2 Cuff Left, 43cm	1



### Quinton™\* Swan Neck Oreopoulos-Zellerman (Toronto Western) Peritoneal Catheters

CODE	CATHETER DESCRIPTION	SHIP CASE
8888413005	Swan Neck Oreopoulos-Zellerman Catheter, 2 Cuff Left, 44.5cm	1
8888413013	Swan Neck Oreopoulos-Zellerman Catheter, 2 Cuff Right, 44.5cm	1



### Oreopoulos-Zellerman (Toronto Western) Missouri Tenckhoff Peritoneal Catheter

CODE	CATHETER DESCRIPTION	SHIP CASE
8888411009	Oreopoulos-Zellerman Missouri Tenckhoff Catheter, 1 Bead, 2 Disk, 2 Cuff, 41cm	1



### Oreopoulos-Zellerman (Toronto Western) Tenckhoff Peritoneal Catheter

CODE	CATHETER DESCRIPTION	SHIP CASE
8888411025	Oreopoulos-Zellerman Tenckhoff Catheter 2 Disk, 2 Cuff, 41cm	1

## Peritoneal Access



### Quinton™\* *Curl Cath* Peritoneal Catheters — Two Cuffs

- Included adapter, cap and clamp
- Curled tubing with numerous inflow/outflow holes to gently disperse dialysate
- Can be inserted percutaneously or surgically
- Made of translucent, medical-grade silicone rubber
- Radiopaque stripe for orientation
- Can be extended or repaired if necessary
- Sterile

CODE	CATHETER DESCRIPTION	SHIP CASE
8811313015	Quinton Curl Cath, Curled, 57cm	1
8811313010	Quinton Curl Cath, Curled, 62cm	1



### Quinton™\* *Curl Cath* Peritoneal Catheters — One Cuff

CODE	CATHETER DESCRIPTION	SHIP CASE
8811313014	Quinton Curl Cath, Curled, 57cm	1
8811313013	Quinton Curl Cath, Curled, 60cm	1



### Quinton™\* *Tenckhoff* Peritoneal Catheters — Two Cuffs

- Included adapter, cap and clamp
- Can be trimmed to fit most patient sizes
- Can be used for chronic ascites drainage
- Sterile

CODE	CATHETER DESCRIPTION	SHIP CASE
8810888003	Quinton Tenckhoff, 2 Cuff, 42cm	1
8810888012	Quinton Tenckhoff, Universal, 2 Cuff, 47cm	1



### Quinton™\* *Tenckhoff* Peritoneal Catheters — One Cuff

CODE	CATHETER DESCRIPTION	SHIP CASE
8814843001	Quinton Tenckhoff, 1 Preperitoneal Cuff, 41cm	1
8814843002	Quinton Tenckhoff, Universal, 1 Preperitoneal Cuff, 46cm	1
8810889003	Quinton Tenckhoff, 1 Subcutaneous Cuff, 42cm	1

## Peritoneal Access



### Quinton™\* Swan Neck *Curl Cath* Peritoneal Catheter Kits

- Sterile Contents:
- (1) Peritoneal Catheter
  - (1) Beta-Cap Adapter, Cap and Clamp
  - (1) 16Fr. Pull-Apart Sheath/Dilator
  - (1) 18ga Introducer Needle
  - (1) J/Straight Guidewire
  - (1) #11 Scalpel
  - (1) 12mL Syringe
  - (1) Tunneling Stylet
  - (6) 4"x4" Gauze Sponges

CODE	CATHETER DESCRIPTION	SHIP CASE
8888413823	Swan Neck CURL CATH Kit, 2 Cuff, Left, 62.5cm	1
8888413831	Swan Neck CURL CATH Kit, 2 Cuff, Right, 62.5cm	1



Quinton *Curl Cath*  
Catheter Kit

### Quinton™\* *Curl Cath* and Tenckhoff Catheter Kits

- Sterile Contents:
- (1) Peritoneal Catheter
  - (1) Beta-Cap Adapter, Cap and Clamp
  - (1) 16Fr. Pull-Apart Sheath/Dilator
  - (1) 18ga Introducer Needle
  - (1) J/Straight Guidewire
  - (1) #11 Scalpel
  - (1) 12mL Syringe
  - (1) Tunneling Stylet
  - (6) 4"x4" Gauze Sponges

CODE	CATHETER DESCRIPTION	SHIP CASE
8817278007	Quinton Curl Cath, 2 Cuff, 57cm	5
8817278006	Quinton Curl Cath, 2 Cuff, 62cm	5
8817278010	Quinton Curl Cath, 1 Preperitoneal Cuff, 60cm	5
8817278008	Quinton Tenckhoff, 2 Cuff, 42cm	5
8817278001	Quinton Tenckhoff Universal, 1 Preperitoneal Cuff, 46cm	5



Quinton *Tenckhoff*  
Catheter Kit

### Quinton™\* Peri-Patch Repair Kit

- Sterile Contents:
- (1) 15cm Silicone Rubber Catheter Extension (2.6mm I.D., 4.9mm O.D.) with Double-Barbed Connector
  - (1) Beta-Cap Adapter, Cap and Clamp
  - (1) Glue Mold

CODE	CATHETER DESCRIPTION	SHIP CASE
8888285001	Quinton Peri-Patch Repair Kit*	1

Note: Peri-Patch Repair Kits are universal for all Covidien Peritoneal Dialysis Catheters. To be repaired, an indwelling catheter must have at least 3cm external tubing at the exit site.

\*Silicone Adhesive is packaged individually and must be ordered separately to ensure maximum shelf-life.

See Page #32 for ordering information (Code #8810807001).

## Peritoneal Access



### Quinton™\* Pediatric/Infant Peritoneal Catheters

CODE	CATHETER DESCRIPTION	SHIP CASE
8888413100	Quinton Infant Swan Neck Curl Cath Catheter, 2 Cuff, 38.9cm	1
8888413101	Quinton Pediatric Swan Neck Curl Cath Catheter, 2 Cuff, 43cm	1
8888413102	Quinton Adolescent Swan Neck Curl Cath Catheter, 2 Cuff, 59cm	1
8888414813	Quinton Pediatric Swan Neck Curl Cath Catheter, 2 Cuff, Left, 42cm	1
8888412643	Quinton Pediatric Swan Neck Missouri Catheter, 2 Cuff, Left, 38cm	1
8888415307	Quinton Pediatric Swan Neck Curl Cath Missouri Catheter, 2 Cuff, Left, 42.5cm	1
8888410506	Quinton Pediatric Swan Neck Tenckhoff Catheter, 2 Cuff, Left, 37.5cm	1
8815677001	Quinton Pediatric Tenckhoff Curl Cath Catheter, 1 Cuff, 39cm	1
8812329002	Quinton Pediatric Tenckhoff Catheter, 2 Cuff, 31cm	1
8810890003	Quinton Pediatric Tenckhoff Catheter, 2 Cuff, 37cm	1
8812329001	Quinton Pediatric Tenckhoff Catheter, 1 Subcutaneous Cuff, 31cm	1
8812321001	Quinton Pediatric Tenckhoff Catheter, 1 Subcutaneous Cuff, 37cm	1
8888414029	Quinton Pediatric/Adolescent Moncrief-Popovich Swan Neck Curl Cath Catheter, 2 Cuff, 62.5cm	5

## Central Venous Catheters

Quinton™\* offers dual and triple lumen catheters that provide long-term vascular access for infusion, blood sampling, and parenteral nutrition. Quinton™\* Dual and Triple Lumen Catheters can also be used for simultaneous administration of incompatible drugs. Triple Lumen Catheters are ideal for chemotherapy and stem cell infusion.



### Quinton™\* Raaf Dual Lumen Right Atrial Catheters

- Soft, biocompatible silicone rubber
- Radiopaque
- Clear extensions
- Can be trimmed to appropriately position tip in right atrium
- Round lumina in 2.2mm and 3.2mm catheters
- Large D-shaped lumina in 4.5mm catheter
- Can be inserted percutaneously using a Pull-Apart Sheath / Dilator or surgically implanted
- Felt cuff anchors the catheter subcutaneously
- Extensions imprinted with name and priming volume
- Two sealing caps
- In-line clamps and luer-lock adapters
- Atraumatic tunneling stylet
- Sterile

CODE	CATHETER	OVERALL LENGTH	O.D. MM	I.D. MM	INITIAL PRIMING VOLUME* (PER LUMEN)	CORRECTION FACTOR mL/CM	SHIP CASE
8814850001	2.2mm	90cm	2.2 x 3.7	1.1	1.2mL	0.0089	1
8815331001	3.2mm	102cm	2.8 x 4.9	1.5	2.2mL	0.0188	1
8814525001	4.5mm	95cm	4.5	3.0 x 1.2	2.5mL	0.0233	1

\* Before trimming.



### Quinton™\* Raaf Dual Lumen Right Atrial Catheter Repair Kits

#### Replacement Section with Dual Extensions

- Luer-lock Adapters
- In-line Clamps
- Silicone Rubber Repair Sleeve
- Plastic Lumen Connector

Sterile Contents:

- (1) Replacement Section with Extensions
- (2) Sealing Caps
- (1) 1mL Syringe with Blunted Needle

CODE	CATHETER DESCRIPTION	SHIP CASE
8888890001	2.2mm Raaf Dual Lumen Right Atrial Catheter	1

Note: Repair Kits are not universal. They must be ordered for the specific size catheter. To be repaired, an indwelling catheter must have at least 3cm external tubing at the exit site.

\*Silicone Adhesive is packaged individually and must be ordered separately to ensure maximum shelf-life.

See Page #32 for ordering information (Code #8810807001).

## Central Venous Catheters



### Quinton™\* 3.9mm Triple Lumen Right Atrial Catheter

- Soft, biocompatible silicone rubber
- Clear extensions
- Can be trimmed to appropriately position tip in right atrium
- Larger 1.2mm lumen has red adapter
- Felt cuff anchors catheter subcutaneously
- Can be inserted percutaneously through a 12Fr. Pull-Apart Sheath / Dilator or surgically implanted
- Three sealing caps
- In-line clamps and color-coded, luer-lock adapters
- Sterile

CODE	CATHETER LUMEN	INITIAL PRIMING VOLUME (mL)*	CORRECTION FACTOR mL/CM	SHIP CASE
8815740001	White Adapter	1.0	0.0081	1
	Blue Adapter	1.0	0.0081	
	Red Adapter	1.25	0.0138	

\* Before trimming



### Quinton™\* Raaf Triple Lumen Right Atrial Catheter Repair Kits

- Replacement Section with Repair Sleeve
- Lumina Connectors
- Three extensions each with Luer-Lock Adapter and In-line Clamp

Sterile Contents:

- (1) Replacement Section with extension
- (3) Sealing Caps
- (1) 1mL Luer-Lock Syringe with Blunted Needle

CODE	DESCRIPTION	SHIP CASE
8888824001	Quinton 3.9mm Triple Lumen Right Atrial Catheter Repair Kit	1

Note: Repair Kits are not universal. They must be ordered for the specific size catheter. To be repaired, an indwelling catheter must have at least 3cm external tubing at the exit site.

\*Silicone Adhesive is packaged individually and must be ordered separately to ensure maximum shelf-life.

See Page #32 for ordering information (Code #8810807001).

## Quinton™\* Catheter Accessories



### Quinton™\* Pull-Apart Introducer Set with PTFE

- Sterile Contents:
- (1) 12mL Syringe
  - (1) 16Fr. Pull-Apart Sheath/Dilator\*
  - (1) J/Straight .038" Guidewire
  - (1) 18ga Introducer Needle

CODE	DESCRIPTION	SHIP CASE
8815544010	16Fr. Pull-Apart Introducer Set*	5

\*Made with PolyTetra FluoroEthylene (PTFE)



### Quinton™\* Pull-Apart Introducer Sets

- Sterile Contents:
- (1) 12mL Syringe
  - 1) Pull-Apart Sheath/Dilator
  - (1) J/Straight .038" Guidewire
  - (1) 18ga Introducer Needle
  - (1) 12Fr. Dilator (Oval Only)

CODE	DESCRIPTION	SHIP CASE
8815544003	10Fr. Pull-Apart Introducer Set	5
8815544002	12Fr. Pull-Apart Introducer Set	5
8815544001	14Fr. Pull-Apart Introducer Set	5
8815544013	Oval Pull-Apart Introducer Set	5



### 8Fr./10Fr. Dilator

- Assists catheter insertion by widening the vessel or surrounding tissue
- Luer lock hub
- Sterile

CODE	DESCRIPTION	SHIP CASE
8815072001	8Fr. Dilator, Length 15cm	5
8815642001	10Fr. Dilator, Length 15cm	5



### J/Straight Stainless Steel Guidewire

- Guides dilator or catheter into a vein or peritoneal cavity
- Has 2 soft ends, 1 in a "J" configuration
- Tip straightener attached

CODE	DESCRIPTION	SHIP CASE
8813796001	J/Straight 0.038" x 70cm Guidewire	10
8817231001	J/Straight 0.035" x 70cm Guidewire	10

## Quinton™\* Catheter Accessories



### Quinton™\* Y-Adapter

- Disposable
- Converts single extension to dual to allow for infusion of two compatible medications/solutions
- Sterile

CODE	DESCRIPTION	SHIP CASE
8818782001	Quinton Disposable Y-adapter	25



### Quinton™\* Introducer Needle

- Stainless steel
- Channels guidewire into a vein or peritoneal cavity
- Accommodates guidewires up to 0.038" diameter
- Luer lock hub
- Sterile

CODE	DESCRIPTION	SHIP CASE
8813795001	Quinton 18ga X 7cm Introducer Needle	10



### Quinton™\* Injection Sealing Caps

- Luer lock fitting with a natural rubber stopper
- Provides a self-sealing injection site for administering medication or drawing blood
- Universal adapter
- May be used with both hemodialysis and peritoneal dialysis catheters
- Sterile

CODE	DESCRIPTION	SHIP CASE
8813791001	Quinton Injection Sealing Caps	50



### Quinton™\* Faller Tunneling Stylet/Bladed Trocar

- Autoclavable

CODE	DESCRIPTION	SHIP CASE
8888415679	Quinton Faller Tunneling Stylet	1



## Quinton™\* Catheter Accessories



### Quinton™\* Peritoneal Tunneling Stylet

- Made of pliable stainless steel
- Can be bent to create customized, curved tunnel
- Sterile

CODE	DESCRIPTION	SHIP CASE
8817791001	Quinton 5Fr. X 23cm (9") Stylet	5



### Quinton™\* Peritoneal Catheter Straightening Stylet

- Stainless steel stylet
- Used to keep the catheter straight and maneuverable during insertion into the peritoneum
- Autoclavable
- Non-sterile

CODE	DESCRIPTION	SHIP CASE
8888415646	Quinton Insertion / Straightening Stylet, 44.5cm	1
8888415661	Quinton Insertion / Straightening Stylet, 61cm	1



### Quinton™\* 2 Part Titanium Connector

CODE	DESCRIPTION	SHIP CASE
8888415604	Quinton 2 Part Titanium Connector	1



### Quinton™\* Titanium Catheter Extender

CODE	DESCRIPTION	SHIP CASE
8888415612	Quinton Adult Titanium Catheter Extender	1

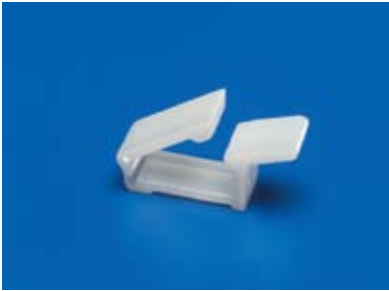


### Quinton™\* Beta-Cap™ Adapter

- Made of Ultem™\* resin
- For use with all Quinton Peritoneal Catheters
- Sterile

CODE	DESCRIPTION	SHIP CASE
8814661001	Quinton Beta-Cap Adapter	25

## Quinton™\* Catheter Accessories



### Quinton™\* Beta-Cap™ Clamp

- For use with all Quinton Peritoneal Catheters
- Sterile

CODE	DESCRIPTION	SHIP CASE
8810805001	Quinton Beta-Cap Clamp	25



### Quinton™\* Catheter Stencil – Swan Neck Tenckhoff

CODE	DESCRIPTION	SHIP CASE
8888412304	Swan Neck Tenckhoff stencil, 2 Cuff, Left / Right	1



### Quinton™\* Catheter Stencil – Swan Neck Missouri

CODE	DESCRIPTION	SHIP CASE
8888412312	Swan Neck Missouri stencil, 2 Cuff, Left / Right	1



### Medical Grade Silicone Adhesive Type A

- Minimum 72-hour curing required for catheter repair
- For use with all Quinton repair kits to extend or repair catheters
- Sterile

CODE	DESCRIPTION	SHIP CASE
8810807001	Silicone Adhesive, Type A	1

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8810888003	Quinton Tenckhoff	24	8815668011	MAHURKAR Curved Ext Dual Lumen Tray	5
8810888012	Quinton Tenckhoff	24	8815668012	MAHURKAR Curved Ext Dual Lumen Tray	5
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8811313015	Quinton Curl Cath	24	8817143005	MAHURKAR Curved Ext Dual Lumen Kits	4
8812321001	Quinton Pediatric/Infant Catheter	26	8817143006	MAHURKAR Curved Ext Dual Lumen Kits	4
8812329001	Quinton Pediatric/Infant Catheter	26	8817145005	MAHURKAR Str Ext Dual Lumen	2
8812329002	Quinton Pediatric/Infant Catheter	26	8817146001	MAHURKAR Str Ext Dual Lumen Kit	2
8813791001	Quinton Injection Sealing Cap	30	8817146007	MAHURKAR Curved Ext Dual Lumen Kits	4
8813793009	MAHURKAR Str Ext Dual Lumen Kits	2	8817146008	MAHURKAR Curved Ext Dual Lumen Kits	4
8813793011	MAHURKAR Str Ext Dual Lumen Kits	2	8817149007	MAHURKAR Curved Ext Dual Lumen Kits	4
8813793013	MAHURKAR Curved Ext Dual Lumen Kits	4	8817149008	MAHURKAR Curved Ext Dual Lumen Kits	4
8813793014	MAHURKAR Curved Ext Dual Lumen Kits	4	8817231001	J/Straight Stainless Steel Guidewire	29
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## Reference

†Dennis G. Maki, M.D. et al. *The American Journal of Medicine*, Volume 85, September 1988

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