# Arrow Acute Hemodialysis Catheters

#### QUALITY, PROTECTION, PERFORMANCE



**DIALYSIS ACCESS** 



# Arrow Acute Hemodialysis

# Double-lumen catheters fulfill the needs of physicians—and their patients

Why choose Arrow Acute Hemodialysis Catheters? Because you need catheters of uncompromising quality to treat acute hemodialysis patients—and safety features designed to protect against infection and the risk of vessel damage.

## **INFECTION PROTECTION**

Reducing nosocomial infections and the cost of treating them is a top priority at institutions around the world. This is especially relevant for those who treat acute hemodialysis patients. These individuals are immunosuppressed and must have their vascular access site accessed routinely—which makes them highly susceptible to catheter-related bloodstream infections (CRBSI). In fact, the average vascular access infection rate for acute hemodialysis catheters is 10.1 per 100 patientmonths.<sup>1</sup> Furthermore, infection is the leading cause of mortality and morbidity in the hemodialysis patient population.

To help reduce CRBSI, we created the ARROWgard® antimicrobial-impregnated catheter: a unique, patented combination of chlorhexidine and silver sulfadiazine. No other company's catheter has such a strong proven track record and broad-spectrum activity. In fact, since it was introduced in 1990, over 30 studies and reviews have repeatedly demonstrated ARROWgard catheter technology's ability to decrease the incidence of CRBSI.<sup>2,3</sup>

For example, ARROWgard reduces bacterial colonization of the catheter by 60 percent and catheter-related bacteremia by an even greater 80 percent.<sup>4</sup> And it's effective against a wide array of gram-positive bacteria, including *S. epidermidis*, MRSA and *S. aureus*; gram-negative bacteria, including *Enterococci* and *Pseudomonas* strains; and fungi, including *C. albicans.*<sup>5</sup>

## Flexible biocompatible polyurethane

Eases insertion, softens in situ

## **Side ports**

Reduce positional occlusion; optimize flow and recirculation performance

## **Blue FlexTip®**

Soft catheter tip balances insertion capability with indwelling performance

"CDC Guidelines for the Prevention of Intravascular Catheter-Related Infections" specifically recommend using a chlorhexidine/silver sulfadiazine-impregnated catheter in conjunction with other risk-reduction measures to lower CRBSI—and caution that antibioticcoated catheters could increase the incidence of resistant pathogens.<sup>6</sup>

# Catheters

www.arrowintl.com

## Rotating suture hub

Provides support and flexibility during patient movement

## ARROWg<sup>t</sup>ard antimicrobial technology

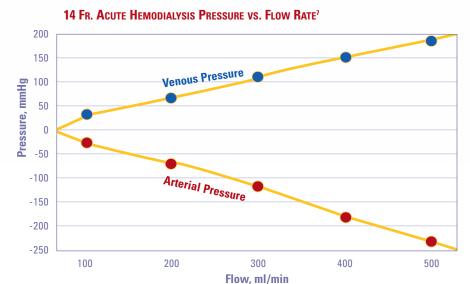
Fights infection by inhibiting microorganisms from migrating along the exterior surface of the catheter<sup>2</sup>

## Optional You-Bend<sup>™</sup> extension lines Enable convenient positioning

and repositioning of the extension lines for patient comfort

### **Color-coded clamps**

Simplify identification of arterial and venous lumens



#### HIGH FLOW AT LOW PRESSURE

Arrow's large-bore, double-lumen acute hemodialysis catheters enable dialysis nurses and clinicians to deliver high flow rates up to 400 cc/min at low venous pressures.

Cross-Section Diagram

## ARROW

## **Arrow Straight Catheters**

Product No.	Description	Lumens Ga. Size	SWG (in)	Soft Catheter Material		Available in U.S.
Kits						
AK-12122-F	Arrow Large-Bore Two-Lumen, 12 Fr. x 6" (16 cm)	12,12	0.035			$\checkmark$
AK-12122-H	Arrow Large-Bore Heparin-Coated Two-Lumen, 12 Fr. x 6" (16 cm)	12,12	0.035	$\checkmark$		$\checkmark$
AK-15122-F	Arrow Large-Bore Two-Lumen, 12 Fr. x 8" (20 cm)	12,12	0.035			$\checkmark$
AK-15122-J	Arrow Large-Bore Two-Lumen, 12 Fr. x 8" (20 cm)	12,12	0.035	$\checkmark$		
AK-15122-JF	Arrow Large-Bore Two-Lumen, 12 Fr. x 8" (20 cm)	12,12	0.035			
AK-15122-H	Arrow Large-Bore Heparin-Coated Two-Lumen, 12 Fr. x 8" (20 cm)	12,12	0.035	$\checkmark$		$\checkmark$
AK-12142-F	Arrow Large-Bore Two-Lumen, 14 Fr. x 6" (15 cm)	10,10	0.038			$\checkmark$
Sets						
СЅ-12122-Е	Arrow Large-Bore Two-Lumen, 12 Fr. x 6" (16 cm)	12,12	0.035	$\checkmark$	$\checkmark$	$\checkmark$
CS-12122-F	Arrow Large-Bore Two-Lumen, 12 Fr. x 6" (16 cm)	12,12	0.035		$\checkmark$	$\checkmark$
CV-12122-F	Arrow Large-Bore Two-Lumen, 12 Fr. x 6" (16 cm)	12,12	0.035		$\checkmark$	
CS-15122-E	Arrow Large-Bore Two-Lumen, 12 Fr. x 8" (20 cm)	12,12	0.035	$\checkmark$	$\checkmark$	$\checkmark$
CS-15122-F	Arrow Large-Bore Two-Lumen, 12 Fr. x 8" (20 cm)	12,12	0.035		$\checkmark$	$\checkmark$
CV-15122-F	Arrow Large-Bore Two-Lumen, 12 Fr. x 8" (20 cm)	12,12	0.035		$\checkmark$	
CS-12142-F	Arrow Large-Bore Two-Lumen, 14 Fr. x 6" (15 cm)	10,10	0.038		$\checkmark$	$\checkmark$
CS-15142-F	Arrow Large-Bore Two-Lumen, 14 Fr. x 8" (20 cm)	10,10	0.038		$\checkmark$	$\checkmark$
Catheters						
MC-12122-F	Arrow Large-Bore Two-Lumen, 12 Fr. x 6" (16 cm)	12,12	N/A		$\checkmark$	$\checkmark$
MC-15122-F	Arrow Large-Bore Two-Lumen, 12 Fr. x 8" (20 cm)	12,12	N/A		$\checkmark$	$\checkmark$

## Arrow You-Bend<sup>™</sup> Catheters

Product No. Sets	Description	Lumens Ga. Size	SWG (in)	Soft Catheter Material	<b>CE</b>	Available in U.S.
CU-13122-F	Arrow You-Bend Two-Lumen, 12 Fr. x 5 1/8" (13 cm)	12,12	0.035		$\checkmark$	$\checkmark$
CV-13122-UF	Arrow You-Bend Two-Lumen, 12 Fr. x 5 1/8" (13 cm)	12,12	0.035		$\checkmark$	
CV-12122-UF	Arrow You-Bend Two-Lumen, 12 Fr. x 6" (16 cm)	12,12	0.035		$\checkmark$	
CV-15122-UF	Arrow You-Bend Two-Lumen, 12 Fr. x 8" (20 cm)	12,12	0.035		$\checkmark$	
CV-12142-UF	Arrow You-Bend Two-Lumen, 14 Fr. x 6" (15 cm)	10,10	0.035		$\checkmark$	
CV-15142-UF	Arrow You-Bend Two-Lumen, 14 Fr. x 8" (20 cm)	10,10	0.035		$\checkmark$	

## **Arrow Curved Catheters**

Product No. Sets	Description	Lumens Ga. Size	SWG (in)	Soft Catheter Material	<b>CCC</b>	Available in U.S.
CS-12142-CF	Arrow Two-Lumen Indwelling Curved Catheter, 14 Fr. x 6" (15 cm)	14, 14	0.038		$\checkmark$	
CS-15142-CF	Arrow Two-Lumen Indwelling Curved Catheter, 14 Fr. x 8" (20 cm)	14, 14	0.038		$\checkmark$	

## **Arrow Pediatric Catheters**

Product No. Kits	Description	Lumens Ga. Size	SWG (in)	Soft Catheter Material		Available in U.S.
AK-11802-F	Arrow Pediatric Two-Lumen, 8 Fr. x 4 3/8" (11 cm)	14,14	0.032			$\checkmark$
Catheters						
CD-10802	Arrow Pediatric Two-Lumen, 8 Fr. x 4 3/8" (11 cm)	14,14	0.025	$\checkmark$	$\checkmark$	
CD-13902	Arrow Pediatric Two-Lumen, 9 Fr. x 5" (13 cm)	14,14	0.025	$\checkmark$	$\checkmark$	

<b>ARROWg</b> <sup>†</sup> ard	Blue®	<b>Straight</b>	<b>Catheters</b>
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Product No. Kits	Description	Lumens Ga. Size	SWG (in)	Soft Catheter Material		Available in U.S.
AK-22122	Arrow Large-Bore Two-Lumen, 12 Fr. x 6" (16 cm)	12, 12	0.035	$\checkmark$		$\checkmark$
AK-22122-F	Arrow Large-Bore Two-Lumen, 12 Fr. x 6" (16 cm)	12, 12	0.035			$\checkmark$
AK-25122	Arrow Large-Bore Two-Lumen, 12 Fr. x 8" (20 cm)	12, 12	0.035	$\checkmark$		$\checkmark$
AK-25122-F	Arrow Large-Bore Two-Lumen, 12 Fr. x 8" (20 cm)	12, 12	0.035			$\checkmark$
AK-25122-J	Arrow Large-Bore Two Lumen, 12 Fr. x 8" (20 cm)	12, 12	0.035	$\checkmark$		
AK-25122-JF	Arrow Large-Bore Two-Lumen, 12 Fr. x 8" (20 cm)	12, 12	0.035			
AK-22142-F	Arrow Large-Bore Two-Lumen, 14 Fr. x 6" (15 cm)	10, 10	0.038			$\checkmark$
AK-25142-F	Arrow Large-Bore Two-Lumen, 14 Fr. x 8" (20 cm)	10, 10	0.038			$\checkmark$
Sets						
CS-22122-F	Arrow Large-Bore Two-Lumen, 12 Fr. x 6" (16 cm)	12, 12	0.035		$\checkmark$	$\checkmark$
CS-25122-F	Arrow Large-Bore Two-Lumen, 12 Fr. x 8" (20 cm)	12, 12	0.035		$\checkmark$	$\checkmark$
CS-26122-F	Arrow Large-Bore Two-Lumen, 12 Fr. x 10" (25 cm)	12, 12	0.035		$\checkmark$	$\checkmark$
CS-22142-F	Arrow Large-Bore Two-Lumen, 14 Fr. x 6" (15 cm)	10, 10	0.038		$\checkmark$	$\checkmark$
CS-25142-F	Arrow Large-Bore Two-Lumen, 14 Fr. x 8" (20 cm)	10, 10	0.038		$\checkmark$	$\checkmark$
CS-26142-F	Arrow Large-Bore Two-Lumen, 14 Fr. x 10" (25 cm)	10, 10	0.038		$\checkmark$	$\checkmark$
Catheters						
MC-22122-F	Arrow Large-Bore Two-Lumen, 12 Fr. x 6" (16 cm)	12, 12	N/A		$\checkmark$	$\checkmark$
MC-25122-F	Arrow Large-Bore Two-Lumen, 12 Fr. x 8" (20 cm)	12, 12	N/A		$\checkmark$	$\checkmark$

## **ARROWg\*ard Blue You-Bend Catheters**

Product No. Kits	Description	Lumens Ga. Size	SWG (in)	Soft Catheter Material		Available in U.S.
AU-23122-F	Arrow You-Bend Two-Lumen, 12 Fr. x 5 1/8" (13 cm)	12, 12	0.035			$\checkmark$
AU-22122-F	Arrow You-Bend Two-Lumen, 12 Fr. x 6" (16 cm)	12, 12	0.035			$\checkmark$
AU-25122-F	Arrow You-Bend Two-Lumen, 12 Fr. x 8" (20 cm)	12, 12	0.035			$\checkmark$
Sets						
CU-23122-F	Arrow You-Bend Two-Lumen, 12 Fr. x 5 1/8" (13 cm)	12, 12	0.035		$\checkmark$	$\checkmark$
CU-22122-F	Arrow You-Bend Two-Lumen, 12 Fr. x 6" (16 cm)	12, 12	0.035		$\checkmark$	$\checkmark$
CU-25122-F	Arrow You-Bend Two-Lumen, 12 Fr. x 8" (20 cm)	12, 12	0.035		$\checkmark$	$\checkmark$

## **ARROWg**<sup>†</sup>ard Blue Curved Catheters

Product No. Sets	Description	Lumens Ga. Size	SWG (in)	Soft Catheter Material	<b>CE</b> 0123	Available in U.S.
CS-22142-CF	Arrow Two-Lumen Indwelling Curved Catheter, 14 Fr. x 6" (15 cm)	14, 14	0.038		$\checkmark$	
CS-25142-CF	Arrow Two-Lumen Indwelling Curved Catheter, 14 Fr. x 8" (20 cm)	14, 14	0.038		$\checkmark$	

Key:

 = ARROWgard Blue
 E = Europe

 AK = Arrow Kit
 F = Firm

 AU = Arrow You-Bend
 H = Heparin

 CD = Catheter Dialysis
 J = Japan

 CF = Curved Firm
 JF = Japan Firm

 CS = Catheter Set
 MC = Multi-Lumen Catheter

 CU = Catheter You-Bend
 UF = You-Bend Firm

 CV = Catheter Version
 UF = You-Bend Firm

Note: All Arrow hemodialysis kits and sets (except our CV kits) contain the Arrow<sup>®</sup> Raulerson Syringe and Spring-Wire guide with cm markings and Arrow Advancer<sup>™</sup> straight soft tip on one end and J tip on the other.

Product packed five per case.

## Arrow Acute Hemodialysis Catheters

## **QUALITY, PROTECTION, PERFORMANCE**

#### Arrow Acute Hemodialysis Catheter Kit

## AU-23122-F

#### Contents:

- 1 **Two-Lumen Indwelling Catheter:** 12 Fr. x 5" (13 cm) Radiopaque Polyurethane with Blue FlexTip, ARROWg<sup>+</sup>ard Antimicrobial Surface Treatment, Injection Site Caps
- 1 **Spring-Wire Guide, Marked:** .035" (.89 mm) dia. x 23-5/8" (60 cm) (Straight Soft Tip on One End—J Tip on Other) with Arrow Advancer
- 1 **Catheter:** 18 Ga. x 2-1/2" (6.35 cm) Radiopaque over 20 Ga. RW Introducer Needle
- 1 Pressure Transduction Probe
- 1 Injection Needle: 22 Ga. x 1-1/2" (3.81 cm) and 5 cc Luer-Slip Syringe
- 1 Injection Needle: 25 Ga. x 1" (2.54 cm) and 3 cc Luer-Lock Syringe
- 1 Introducer Needle: 18 Ga. x 2-1/2" (6.35 cm) XTW and 5 cc Arrow<sup>®</sup> Raulerson Spring-Wire Introduction Syringe<sup>1</sup>
- 1 Tissue Dilator: Stepped
- 1 3 Swabstick Foil Pack 10% Povidone-lodine
- 1 5 ml Ampule HCl, 1% Lidocaine Solution
- 2 UserGard® Needle-Free Injection Hub(s)
- 1 SharpsAway<sup>®</sup> Disposal Cup<sup>+</sup>
- 1 CSR Wrap
- 1 Drape: 24" x 36" with 4" fenestration
- 1 Scalpel: #11
- 2 Gauze Pad(s): 2" x 2"
- 5 Gauze Pad(s): 4" x 4"
- 1 Suture: 3-0 Silk with Straight Needle

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Product packed five per case.

#### Key:

- U.S. Patent No. 5,019,096
- <sup>1</sup>U.S. Patent Nos. 4,813,938 and 5,045,065; Japan Patent No. 2,135,570 <sup>1</sup>U.S. Patent Nos. 6,123,193 and 6,276,527
- $^{\rm v}\text{U.S.}$  Patent Nos. 5,484,419 and 6,477,402

## To locate an Arrow Distributor or for ordering information, contact Customer Service at:

United States Tel: 800.523.8446 Fax: 800.343.2935 International Tel: +1.610.655.8522 Fax: +1.610.655.8566

#### www.arrowintl.com



#### References:

Klevens, R.M., Tokars, J.I., Andrus, M. "Electronic Reporting of Infections Associated With Hemodialysis," *Nephrology News & Issues*, June 2005, pp. 37–43.

<sup>2</sup> Indication for use: The large-bore two-lumen catheter permits venous access to the central circulation for rapid fluid administration, temporary or acute hemodialysis, apheresis and hemofiltration. It may be inserted into the jugular, subclavian or femoral veins. The ARROWg<sup>\*</sup> ard Blue antimicrobial surface catheter helps provide protection against catheter-related infections resulting from microorganisms migrating the subcutaneous tract along the exterior surface of the catheter when used for influsion. Clinical data have not been collected that demonstrate the use of the ARROWg<sup>\*</sup> ard Blue antimicrobial surface in decreasing catheter-related infections in hemodialysis patients. The catheter is not intended to be used as a treatment for existing infections, nor is it intended for long-term use.

<sup>3</sup>Veenstra, D.L., Saint, S., Saha, S., Lumley, T., Sullivan, S.D. "Cost-Effectiveness of Antiseptic-Impregnated Central Venous Catheters for the Prevention of Catheter-Related Bloodstream Infection," *Journal of the American Medical Association*, January 20, 1999, Vol. 281, Issue 3, pp. 261–267.

<sup>4</sup>Maki, D.G., Stolz, S.M., Wheeler, S., Mermel, L.A. "Prevention of Central Venous Catheter-Related Bloodstream Infection With an Antiseptic-Impregnated Catheter: A Randomized, Controlled Trial," *Annals of Internal Medicine*, August 15, 1997, Vol. 127, Issue 4, pp. 257–266.

<sup>5</sup>References include but are not limited to Maki 1997, Sampath 1995 and Bach 1994.

<sup>e</sup> "Guidelines for the Prevention of Intravascular Catheter-Related Infections." MMWR Recommendations and Reports. 2002, Vol. 51 (RR10), pp. 1–26. CDC Web site. Available at: http://www.cdc.gov/incidod/hip/iv/iv.htm. Accessed March 10, 2004.

<sup>7</sup> In vitro test performed by an independent laboratory (Citech, Plymouth Meeting, PA).

Caution: U.S. federal law limits this device to sale by or on order of a physician. Contents of unopened, undamaged package are sterile. Disposable. Refer to package insert for current warnings, indications, contraindications, precautions and instructions for use.

Contact Arrow International, Inc., for reference information on the above

#### Distribution Worldwide:

Arrow offices are located in Belgium, Canada, Czech Republic, France, Germany, Greece, India, Italy, Japan, Mexico, Netherlands, Slovakia, South Africa, Spain and the United States.

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