

Arrowg+ard Blue[®] MAC[™] Multi-Lumen Central Venous Access Product

Rx only.

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Arrowg+ard Blue® Antimicrobial Catheter Technology Information

Arrowg+ard[®] Antimicrobial Surface:

The Arrow® antimicrobial access device consists of our polyurethane access device, plus our Arrowg+ard Blue® exterior antimicrobial surface treatment of chlorhexidine acetate and silver sulfadiazine. The nominal amount of chlorhexidine, silver, and sulfadiazine applied to the external surface of the MAC[™] Multi-Lumen Central Venous Access Device is 208 µg/cm, 31 µg/cm and 73 µg/cm, respectively.

To demonstrate effectiveness of the Arrowg+ard® antimicrobial surface treatment, data was submitted to FDA concerning the Arrow® 14 Fr. hemodialysis catheter, a device with identical external dimensions to the MAC Multi-Lumen Central Venous Access Device. Sample results of chlorhexidine acetate, silver and sulfadiazine from a hemodialysis catheter containing identical external dimensions are 208 µg/cm, 40 µg/cm, and 85 µg/cm, respectively. Antimicrobial activity associated with Arrowq+ard on catheters and/or access devices has been demonstrated in the following ways:

14 Fr. Catheter In Vitro Results:

Antimicrobial activity associated with the Arrowg+ard Blue hemodialysis catheter has been demonstrated in vitro using a modified Kirby-Bauer technique utilizing the vertical catheter segment placement method, in the following ways:

- Arrowg+ard Blue hemodialysis catheters produced zones of inhibition greater than 9 mm in diameter after 24 hours against:
- Candida albicans Staphylococcus aureus
- Escherichia coli (B-lactamase producer)
- Pseudomonas aeruginosa
- (methicillin resistant)* Staphylococcus epidermidis
- Enterobacter faecalis Enterobacter cloacea
- Streptococcus pyogenes Klebsiella pneumoniae
 - ٠ Enterobacter aeroaenes Acinetobacter baumannii
- Xanthomonas maltophilia
- Arrowg+ard Blue hemodialysis catheters retained antimicrobial activity (zones of inhibition greater than 5 mm in diameter) after 7 days against:
- Staphylococcus aureus
- Xanthomonas maltophilia Escherichia coli (B-lactamase
- (methicillin resistant)*
- Staphylococcus epidermidis Streptococcus pyogenes Klebsiella pneumoniae
- producer) Enterobacter faecalis
- Enterohacter cloacea
- * Note: This is not the prevalent strain in catheter-related infections.
- Marked decreases in antimicrobial activity against all organisms are apparent at Day 7 of in vitro analysis.

Clinical Efficacy:

Antimicrobial activity data associated with the Arrowg+ard Blue catheter have not been collected with the MAC Multi-Lumen Central Venous Access Device

The following clinical study was conducted on the original formulation 7 Fr. and 12 Fr. Arrowg+ard Blue central venous catheters.

A prospective, randomized, controlled clinical trial of 237 large-bore and central venous catheter insertions in 115 patients demonstrated that catheter-related bloodstream infections rates were 1.14/1000 catheter days for Arrowg+ard Blue catheters versus 3.95/1000 catheter days for nonimpregnated catheters (p=0.31).

The following clinical study was conducted on the original formulation 7 Fr. triplelumen Arrowg+ard Blue catheter.

- · A prospective, randomized, controlled clinical trial of 403 central venous catheter insertions in 158 adult patients in a medical-surgical ICU showed that Arrowq+ard Blue catheters were 50% less likely to be colonized at removal than the control catheters (13.5 compared to 24.1 colonized catheters per 100 catheters, p=0.005) and were 80% less likely to produce a bloodstream infection (1.0 compared to 4.7 infections per 100 catheters; 1.6 compared to 7.6 infections per 1000 catheter days, p=0.03).
- No adverse effects were seen from the antimicrobial catheter, and none of the isolates obtained from infected catheters in either group showed in vitro resistance to chlorhexidine or silver sulfadiazine.
- · Complete data was obtained for 403 central venous catheters (195 control catheters and 208 antimicrobial catheters) in 158 patients. Control catheters removed from patients who were receiving systemic antibiotic therapy occasionally showed low-level surface activity that was unrelated to the length of time the catheter had been in place (mean zone of inhibition \pm SD, 1.7 \pm 2.8 mm); in contrast, antimicrobial catheters uniformly showed residual surface activity (mean zone of inhibition, 5.4 ± 2.2 mm; P < 0.002), which declined after prolonged periods in situ. Antimicrobial activity was seen with antimicrobial catheters that had been in place for as long as 15 days.

The following clinical study was conducted on the original formulation 7 Fr. triplelumen Arrowg+ard Blue catheter.

- The Arrowg+ard Blue catheter has demonstrated a significant decrease in the rate of bacterial colonization along the catheter in limited animal studies.
- An independent review of 11 randomized clinical trials on the Arrowg+ard Blue antimicrobial catheters (MEDLINE search from January 1966 to January 1998) concluded that central venous catheters impregnated with a combination of chlorhexidine acetate and silver sulfadiazine are effective in reducing the incidence of both catheter colonization and catheter-related bloodstream infections in patients at high risk for catheter-related infections.

If the total amount of silver sulfadiazine and chlorhexidine contained in the antimicrobial surface was released from the catheter as a single dose, the blood levels of silver, sulfadiazine, and chlorhexidine that would be found would be less than the blood levels found after clinical usage of these compounds in established safe dosages as administered via mucous membranes and skin.

The potential exposure of patients to the two agents, silver sulfadiazine and chlorhexidine, on the antimicrobial surface is significantly less than that encountered when these compounds are used on burn wounds, on cutaneous wounds, or as mucosal irrigants.

The worldwide reported incident rate due to hypersensitivity reactions is 0.00023% with a confirmed incident rate of 0 000077%

Indications for Use:

The MAC Multi-Lumen Central Venous Access Device with Arrowg+ard Blue technology permits short-term (<30 days) venous access and catheter introduction to the central circulation. It may be inserted into the jugular, subclavian, or femoral veins. The Arrowg+ard technology is intended to help provide protection against catheterrelated infections. Clinical data have not been collected that demonstrate the use of the Arrowg+ard antimicrobial surface in decreasing catheter-related infections for this device. It is not intended to be used as a treatment for existing infections, nor is it indicated for lona-term use.

Contraindications:

The Arrowg+ard Blue antimicrobial catheter is contraindicated for patients with known hypersensitivity to chlorhexidine acetate, silver sulfadiazine, and/or sulfa drugs.

Clinical Benefits to be Expected:

The ability to access into the circulation and infuse large fluid volumes rapidly into a patient for treatment of shock or trauma, as examples.

The ability to introduce single or multi-lumen central venous catheters, other treatment devices, or exploratory/diagnostic devices, reducing the number of needle sticks and vascular access locations to the patient.

Provide protection against catheter-related bloodstream infections.

Special Patient Populations:

Controlled studies of this product have not been conducted in pregnant women, pediatric or neonatal patients, and patients with known sulfonamide hypersensitivity, erythema multiforme, Stevens-Johnson syndrome and glucose-6-phosphate dehydrogenase deficiency. Benefits of use of this catheter should be weighed against any possible risk.

Hypersensitivity Potential:

Hypersensitivity reactions are a concern with antimicrobial catheters in that they can be very serious and even life-threatening. Since antimicrobial catheters were introduced into the market, there have been reports of hypersensitivity occurrences. This may affect your patient population, especially if your patient is of Japanese origin.

Warning:

1. Remove catheter immediately if adverse reactions occur after catheter placement. Chlorhexidine containing compounds have been used as topical disinfectants since the mid-1970's. An effective antimicrobial agent, chlorhexidine found use in many antiseptic skin creams, mouth rinses, cosmetic products, medical devices and disinfectants used to prepare the skin for a surgical procedure.

NOTE: Perform sensitivity testing to confirm allergy to catheter antimicrobial agents, if adverse reaction occurs.

🕂 General Warnings and Precautions

Warnings:

- 1. Sterile, Single use: Do not reuse, reprocess or resterilize. Reuse of device creates a potential risk of serious injury and/or infection which may lead to death. Reprocessing of medical devices intended for single use only may result in degraded performance or a loss of functionality.
- 2. Read all package insert warnings, precautions and instructions prior to use. Failure to do so may result in severe patient injury or death.
- 3. Clinicians must be aware of potential entrapment of the guidewire by any implanted device in circulatory system. It is recommended that if patient has a circulatory system implant, insertion procedure be done under direct visualization to reduce risk of guidewire entrapment.
- 4. Do not use excessive force when introducing guidewire or tissue dilator as this can lead to vessel perforation, bleeding, or component damage.
- 5. Passage of guidewire into the right heart can cause dysrhythmias, right bundle branch block, and a perforation of vessel, atrial or ventricular wall.
- 6. Do not apply excessive force in placing or removing guidewire, dilator, or access device. Excessive force can cause component damage or breakage. If damage is suspected or withdrawal cannot be easily accomplished, radiographic visualization should be obtained and further consultation requested.
- 7. Using devices not indicated for pressure injection for such applications can result in inter-lumen crossover or rupture with potential for injury.
- 8. Do not secure, staple and/or suture directly to outside diameter of device body or extension lines to reduce risk of cutting or damaging the device or impeding device flow. Secure only at indicated stabilization locations.

- 9. Air embolism can occur if air is allowed to enter a vascular access device or vein. Do not leave open needles or uncapped, unclamped devices in central venous puncture site. Use only securely tightened Luer-Lock connections with any vascular access device to guard against inadvertent disconnection.
- 10. Use of subclavian vein insertion site may be associated with subclavian stenosis.
- 11. Clinicians must be aware of complications/undesirable sideeffects associated with this device including, but not limited to:
 - cardiac tamponade secondary to vessel, atrial, or ventricular perforation
 - pleural (i.e., pneumothorax) and mediastinal injuries
 - air embolism
 - catheter embolism
 - catheter occlusion
 - sheath embolism
 - sheath occlusion
 - thoracic duct laceration
 - bacteremia
 - septicemia
 - thrombosis

- inadvertent arterial nuncture nerve damage/injury
- hematoma
- hemorrhage
- fibrin sheath formation

• catheter tip malposition

exit site infection

vessel erosion

dysrhythmias

extravasation

anaphylaxis

hemothorax

Precautions:

- 1. Do not alter the access device, guidewire or any other kit/set component during insertion, use or removal.
- 2. Procedure must be performed by trained personnel well versed in anatomical landmarks, safe technique and potential complications.
- 3. Use standard precautions and follow institutional policies for all procedures including safe disposal of devices.
- 4. Some disinfectants used at device insertion site contain solvents which can weaken the device material. Alcohol, acetone, and polyethylene glycol can weaken the structure of polyurethane materials. These agents may also weaken the adhesive bond between stabilization device and skin.
 - Do not use acetone on device surface.
 - Do not use alcohol to soak device surface or allow alcohol to dwell in a device lumen to restore patency or as an infection prevention measure.
 - Do not use polyethylene glycol containing ointments at insertion site.
 - Take care when infusing drugs with a high concentration of alcohol.
 - Allow insertion site to dry completely prior to applying dressing.
- 5. Indwelling devices should be routinely inspected for desired flow rate, security of dressing, correct position, and for secure Luer-Lock connection.
- 6. For blood sampling, temporarily shut off remaining port(s) through which solutions are being infused.
- 7. Promptly remove any intravascular catheter that is no longer essential. Should this device be used for intermittent venous access, maintain distal lumen sideport patency according to institutional policies, procedures, and practice guidelines.

Kits/Sets may not contain all accessory components detailed in these instructions for use. Become familiar with instructions for individual component(s) before beginning the procedure.

A Suggested Procedure: Use sterile technique.

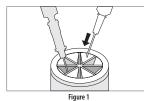
Prep Puncture Site:

- 1. Position patient as appropriate for insertion site.
 - Subclavian or Jugular approach: Place patient in slight Trendelenburg position as tolerated to reduce risk of air embolism and enhance venous filling.
 - Femoral approach: Place patient in supine position.
- 2. Prepare clean skin with an appropriate antiseptic agent.
- 3. Drape puncture site.
- 4. Administer local anesthetic per institutional policies and procedures.
- 5. Dispose of needle.

SharpsAway® II Locking Disposal Cup (where provided):

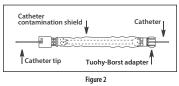
The SharpsAway II Locking Disposal Cup is used for disposal of needles (15 Ga. - 30 Ga.).

 Using one-handed technique, firmly push needles into disposal cup holes (refer to Figure 1).

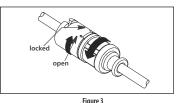


- Once placed into disposal cup, needles will be automatically secured in place so that they cannot be reused.
- Precaution: Do not attempt to remove needles that have been placed into SharpsAway II Locking Disposal Cup. These needles are secured in place. Damage may occur to needles if they are forced out of disposal cup.
- Where provided, a foam SharpsAway[®] system may be utilized by pushing needles into foam after use.
- ⚠ Precaution: Do not re-use needles after they have been placed into the foam SharpsAway system. Particulate matter may adhere to needle tip.
- Prepare flow-directed catheter according to manufacturer's instructions. Wet balloon with flush solution to facilitate passage through catheter contamination shield.
- Precaution: Do not inflate balloon prior to insertion through catheter contamination shield to reduce the risk of balloon damage.
- 7. Apply Contamination Shield:

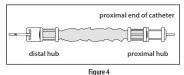
a. If using a catheter contamination shield with Tuohy-Borst adapter (where provided), insert tip of desired catheter through Tuohy-Borst adapter end of catheter contamination shield. Advance catheter through tubing and hub at other end (refer to Figure 2).



b. If using a catheter contamination shield with TwistLock™ adapter (where provided), ensure double TwistLock™ of catheter contamination shield is fully opened (refer to Figure 3).



Insert tip of desired catheter through proximal end of catheter contamination shield. Advance catheter through tubing and hub at other end (refer to Figure 4).



- 8. Slide entire catheter contamination shield to proximal end of catheter.
- If flow directed catheter is used, inflate and deflate balloon with syringe to ensure integrity.
- Precaution: Do not exceed balloon catheter manufacturer's recommended volume.

Place catheter and catheter contamination shield on sterile field awaiting final placement.

 Insert entire length of dilator through hemostasis valve into access device pressing hub of dilator firmly into hub of hemostasis valve assembly. Place assembly on sterile field awaiting final placement.

Gain Initial Venous Access:

Echogenic Needle (where provided):

An echogenic needle is used to allow access to the vascular system for the introduction of a guidewire to facilitate catheter placement. The needle tip is enhanced for approximately 1 cm for clinician to identify exact needle tip location when puncturing the vessel under ultrasound.

Protected Needle/Safety Needle (where provided):

A protected needle/safety needle should be used in accordance with manufacturer's instructions for use.

Arrow[®] Raulerson Syringe (where provided):

Arrow Raulerson Syringe is used in conjunction with Arrow Advancer for guidewire insertion.

- Insert introducer needle or catheter/needle with attached syringe or Arrow Raulerson Syringe (where provided) into vein and aspirate.
- ⚠️ Warning: Do not leave open needles or uncapped, unclamped devices in central venous puncture site. Air embolism can occur if air is allowed to enter a central venous access device or vein.
- A Precaution: Do not reinsert needle into introducer catheter (where provided) to reduce risk of catheter embolus.

Verify Venous Access:

Utilize one of the following techniques to verify venous access because of the potential for inadvertent arterial placement:

- Central Venous Waveform:
 - Insert fluid primed blunt tip pressure transduction probe into rear of plunger and through valves of Arrow Raulerson Syringe and observe for central venous pressure waveform.
 - ♦ Remove transduction probe if using Arrow Raulerson Syringe.
 - Pulsatile Flow (if hemodynamic monitoring equipment is not available):
 - Use transduction probe to open syringe valving system of Arrow Raulerson Syringe and observe for pulsatile flow.
 - Disconnect syringe from needle and observe for pulsatile flow.
- Marning: Pulsatile flow is usually an indicator of inadvertent arterial puncture.
- 🕂 Precaution: Do not rely on blood aspirate color to indicate venous access.

Insert Guidewire:

Guidewire:

Kits/Sets are available with a variety of guidewires. Guidewires are provided in different diameters, lengths and tip configurations for specific insertion techniques. Become familiar with the guidewire(s) to be used with the specific technique before beginning the actual insertion procedure.

Arrow Advancer (where provided):

Arrow Advancer is used to straighten "J" Tip of guidewire for introduction of the guidewire into Arrow Raulerson Syringe or a needle.

• Using thumb, retract "J" (refer to Figure 5).

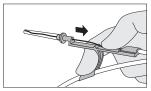


Figure 5

 Place tip of Arrow Advancer — with "J" retracted — into the hole in rear of Arrow Raulerson Syringe plunger or introducer needle.

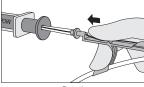


Figure 6

- Advance guidewire into Arrow Raulerson Syringe approximately 10 cm until it passes through syringe valves or into introducer needle.
 - Advancement of guidewire through Arrow Raulerson Syringe may require a gentle twisting motion.
 - Raise thumb and pull Arrow Advancer approximately 4 8 cm away from Arrow Raulerson Syringe or introducer needle. Lower thumb onto Arrow Advancer and while maintaining a firm grip on guidewire, push assembly into syringe barrel to further advance guidewire (refer to Figure 6). Continue until guidewire reaches desired depth.

Alternate Technique:

If a simple straightening tube is preferred, the straightening tube portion of the Advancer can be disconnected from the unit and used separately.

Separate the Advancer tip or straightening tube from the blue Advancer unit. If the "J" tip portion of the guidewire is used, prepare for insertion by sliding the plastic tube over the "J" to straighten. The guidewire should then be advanced in the routine fashion to the desired depth.

 Use centimeter markings (where provided) on guidewire as a reference to assist in determining how much guidewire has been inserted.

NOTE: When guidewire is used in conjunction with Arrow Raulerson Syringe (fully aspirated) and a 2-1/2" (6.35 cm) introducer needle, the following positioning references can be made:

- 20 cm mark (two bands) entering back of plunger = guidewire tip at end of needle
- 32 cm mark (three bands) entering back of plunger = guidewire tip approximately 10 cm beyond end of needle
- Precaution: Maintain firm grip on guidewire at all times. Keep sufficient guidewire length exposed for handling purposes. A non-controlled guidewire can lead to wire embolus.
- Marning: Do not aspirate Arrow Raulerson Syringe while guidewire is in place; air may enter syringe through rear valve.

- Precaution: Do not reinfuse blood to reduce risk of blood leakage from rear (cap) of syringe.
- ⚠️ Warning: Do not withdraw guidewire against needle bevel to reduce risk of possible severing or damaging of guidewire.
- Remove introducer needle and Arrow Raulerson Syringe (or catheter) while holding guidewire in place.
- Use centimeter markings on guidewire to adjust indwelling length according to desired depth of indwelling device placement.
- Enlarge cutaneous puncture site with cutting edge of scalpel, positioned away from guidewire.
- A Warning: Do not cut guidewire to alter length.
- Marning: Do not cut guidewire with scalpel.
 - · Position cutting edge of scalpel away from guidewire.
 - Engage safety and/or locking feature of scalpel (where provided) when not in use to reduce the risk of sharps injury.
- Use tissue dilator to enlarge tissue tract to the vein as required. Follow the angle of the guidewire slowly through the skin.
- ⚠️ Warning: Do not leave tissue dilator in place as an indwelling catheter. Leaving tissue dilator in place puts patient at risk for possible vessel wall perforation.

Advance Device:

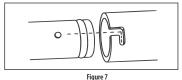
- Thread tapered tip of dilator/access device assembly over guidewire. Sufficient guidewire length must remain exposed at hub end of device to maintain a firm grip on guidewire.
- Grasping near skin, advance assembly with slight twisting motion to a depth sufficient to enter vessel. Dilator may be partially withdrawn to facilitate advancement of access device through tortuous vessel.
- Precaution: Do not withdraw dilator until the access device is well within the vessel to reduce the risk of damaging tip.
- Advance access device assembly off dilator into vessel, again grasping near skin and using slight twisting motion.
- 21. To check for proper access device placement within the vessel, attach syringe to distal side port for aspiration. Hold access device assembly in place and withdraw guidewire and dilator sufficiently to allow venous blood flow to be aspirated into distal side port.
- A Precaution: Maintain firm grip on guidewire at all times.
- Holding access device assembly in place, remove guidewire and dilator as a unit. Place sterile-gloved finger over hemostasis valve.
- Warning: To reduce the risk of possible vessel wall perforation, do not leave tissue dilator in place as an indwelling catheter.
- A Warning: Although the incidence of guidewire failure is extremely low, practitioner should be aware of the potential for breakage if undue force is applied to the wire.

Flush and connect distal side port to appropriate line as necessary. Confirm and monitor proximal port by aspirating until free flow of venous blood is observed. Connect all extension lines to appropriate Luer-lock line(s) as required. Unused port(s) may be "locked" through injection cap(s) using standard hospital protocol. Camps are provided on extension lines to occlude flow through each lumen during line and injection cap changes.

- Precaution: To reduce the risk of damage to extension lines from excessive pressure, each clamp must be opened prior to infusing through that lumen.
- Feed catheter through access device assembly into vessel. Advance catheter to desired position.
- A Warning: Hemostasis valve must be occluded at all times to reduce the risk of air embolism or hemorrhage. If catheter introduction is delayed, temporarily cover valve opening with sterile gloved finger until obturator is inserted. Use Arrow obturator, either included with this product or sold separately, to occlude hemostasis valve assembly. This will ensure that leakage does not occur and inner seal is protected from contamination.
- Hold access device in place and reposition catheter contamination shield so that distal hub is approximately five inches (12.7 cm) from hemostasis valve.
- 25. Hold proximal hub of catheter contamination shield in place. Disengage distal

hub from inner feed tube by pulling forward. Advance distal hub forward toward hemostasis valve assembly. Hold assembly in place.

 Press distal hub of catheter contamination shield over assembly cap. Twist to lock (refer to Figure 7).



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- Orient slot in hub with locking pin on assembly cap.
- Slide hub forward over cap and twist.
- 27. While maintaining catheter position lock the catheter in place:
 - a. If using a catheter contamination shield with a Tuohy-Borst adapter, grasp insertion catheter through front portion of catheter contamination shield and hold in place while repositioning Tuohy-Borst adapter end as desired.
- Precaution: Do not reposition Tuohy-Borst adapter end on insertion catheter once moved to this final position.
 - Tighten Tuohy-Borst adapter by pressing down on cap and simultaneously turning clockwise to secure hub to catheter. Gently pull insertion catheter to verify securement.
- A Precaution: Do not overtighten Tuohy-Borst adapter to reduce the risk of lumen constriction or insertion catheter damage.
 - Tuohy-Borst adapter end of catheter contamination shield should be secured with sterile tape to inhibit insertion catheter movement (refer to Figure 8).
- Precaution: Do not apply tape to the transparent sheathing on the shield to reduce the risk of tearing material.

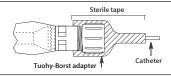


Figure 8

- b. If using a catheter contamination shield with a TwistLock adapter, twist the upper half of the distal hub in dockwise direction to lock catheter in place. Reposition proximal end of catheter shield as desired. Twist upper and lower halves in opposite directions to lock in place. Test the adapter by gently tugging on the catheter to ensure a secure grip on the catheter (refer to Figure 9).
- A Precaution: Do not reposition proximal hub once locked in final position.

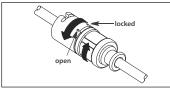


Figure 9

Secure Device:

- 28. Use triangular juncture hub with side wings as primary securement site.
- Precaution: Do not secure directly to the outside diameter of the device to reduce the risk of cutting or damaging the device or impeding device flow.
- 29. Ensure insertion site is dry before applying dressing per manufacturer's instructions.
- Precaution: Maintain the insertion site with regular, meticulous redressing using aseptic technique.
- 30. Document procedure per institutional policies and procedures.

Care and Maintenance:

Dressing:

Dress according to institutional policies, procedures, and practice guidelines. Change immediately if the integrity becomes compromised e.g. dressing becomes damp, soiled, loosened or no longer occlusive.

Catheter Patency:

Maintain device patency according to institutional policies, procedures and practice guidelines. All personnel who care for patients with central venous devices must be knowledgeable about effective management to prolong device's dwell time and prevent injury.

Catheter Removal from Access Device Procedure:

- 1. Position patient as clinically indicated to reduce risk of potential air embolus.
- Unlock catheter contamination shield from access device and withdraw catheter from access device. Temporarily cover valve opening with sterile-gloved finger until obturator is inserted. Apply obturator cap.
- Warning: Hemostasis valve must be occluded at all times to reduce the risk of air embolism or hemorrhage.

Access Device Removal Procedure:

- 1. Position patient as clinically indicated to reduce risk of potential air embolus.
- 2. Remove dressing.
- Precaution: To reduce the risk of cutting device, do not use scissors to remove dressing.
- 3. Remove securement from device, if applicable.
- A Precaution: Be careful not to cut the access device.
- 4. Ask patient to take a breath and hold it if removing jugular or subclavian insertion.
- 5. Remove device (and catheter, if applicable) slowly, pulling it parallel to the skin.
- Apply direct pressure to site until hemostasis is achieved followed by an ointment based occlusive dressing.
- Warning: Residual catheter track remains an air entry point until site is epithelialized. Occlusive dressing should remain in place for at least 24 hours or until site appears epithelialized.
- Document removal procedure including confirmation that entire device has been removed per institutional policies and procedures.

For reference literature concerning patient assessment, clinician education, insertion technique, and potential complications associated with this procedure, consult standard textbooks, medical literature, and Arrow International LLC website: www.teleflex.com

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	Symbol Glossary: Symbols are in compliance with ISO 15223-1. Some symbols may not apply to this product. Refer to product labeling for symbols that apply specifically to this product.									
\triangle	MD	Ĩ		2	STERNE	STERILEEO	Single sterile barrier system with protective packaging inside			
Caution	Medical device	Consult instructions for use	Contains a medicinal substance	Do not reuse	Do not resterilize	Sterilized by ethylene oxide				
\bigcirc	*	Ť	\otimes	LAREX	25°C (77°F)	REF	LOT	\Box		
Single sterile barrier system	Keep away from sunlight	Keep dry	Do not use if package is damaged	Not made with natural rubber latex	Store below 25°C (77°F). Avoid excessive heat above 40°C (104°F)	Catalogue number	Lot number	Use by		
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