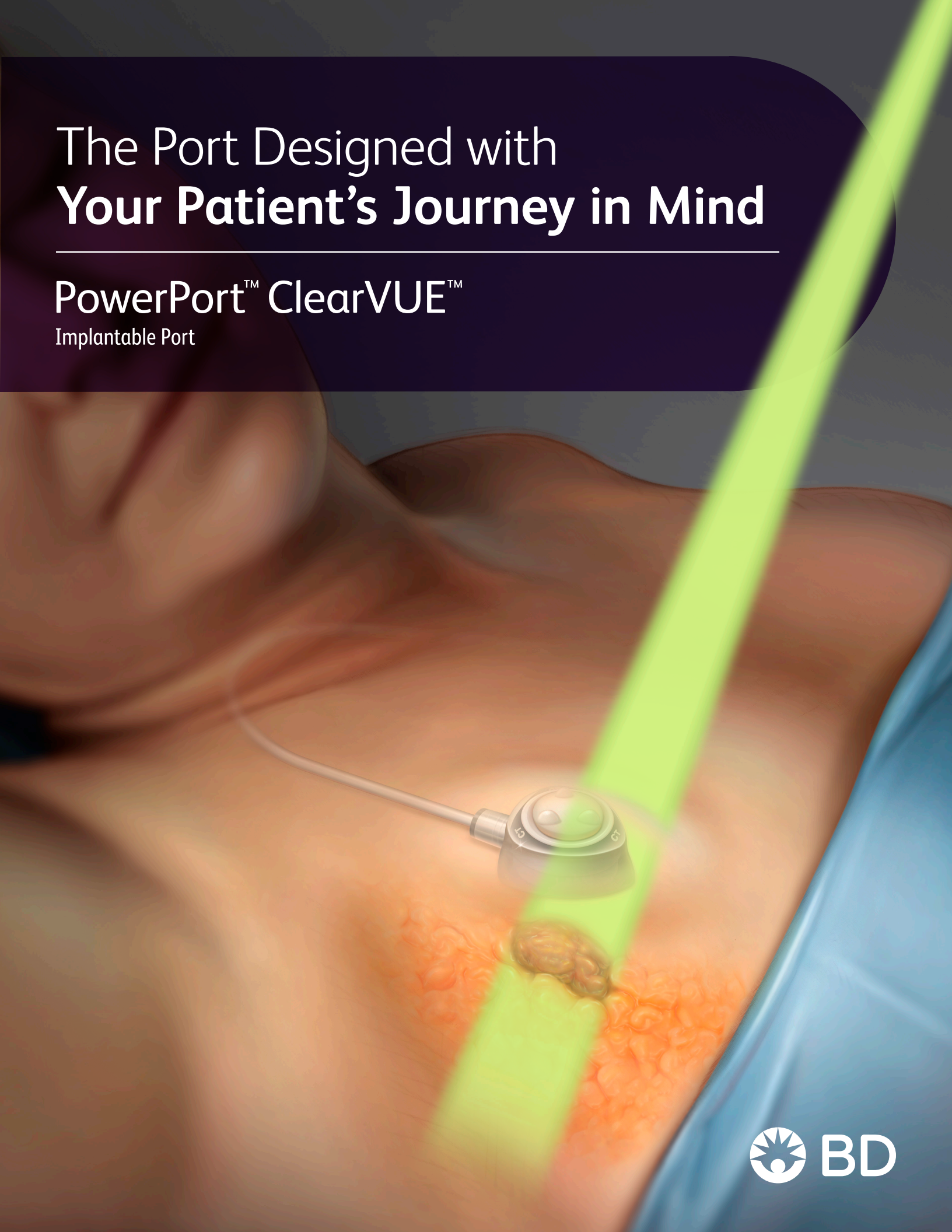
The Port Designed with **Your Patient's Journey in Mind**

PowerPort™ ClearVUE™

Implantable Port



BD

Developed to Redefine **Your Port Expectations**

Whether minimizing radiation deflection or avoiding imaging artifact, the ingenious **PowerPort™ ClearVUE™ Implantable Port** was developed to not only provide you performance at the highest levels, but also to work in conjunction with your patient's treatment journey.

The technologically advanced ClearVUE™ Ports are the **first and only** metal-free, MR safe, power-injectable port on the market.[1]

ClearVUE™ Ports give you distinct advantages in placement, enable uninterrupted imaging and treatment, and provide benefits specifically for both your care team and the patients you care for.

Simplified placement & ongoing benefits

- Ergonomic triangular shape is designed for easier insertion
- Ipsilateral placement to the treatment area
- Metal-free construction makes it MR Safe & CT compatible and minimizes imaging artifact as well as radiation therapy interference
- Durable plastic port and ChronoFlex™ Polyurethane Catheter

Efficient access & administration for your nursing team

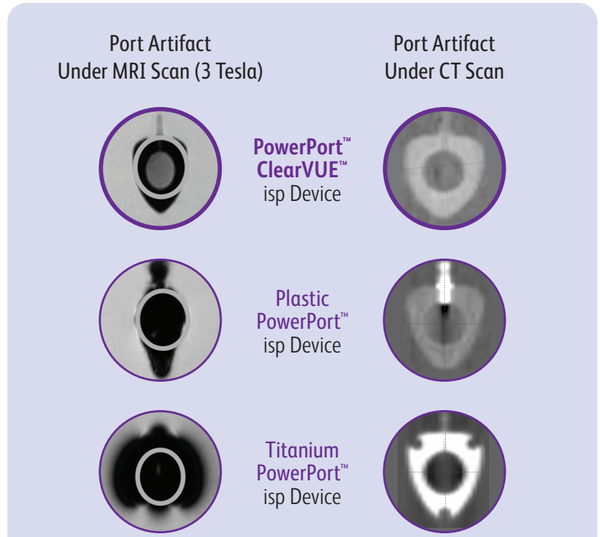
Comfort & convenience for your patients

[1] As of June 2023

View, Target, and Treat **with ClearVUE™ Ports**

Clear Imaging

The metal-free construction of ClearVUE™ Ports enables **uninterrupted imaging,** minimizing related artifact that otherwise may mask the identification of tumor growth, new cancerous lesions, or metastasized cancer during MRI, CT, and other radiographic imaging.



Targeted Radiation

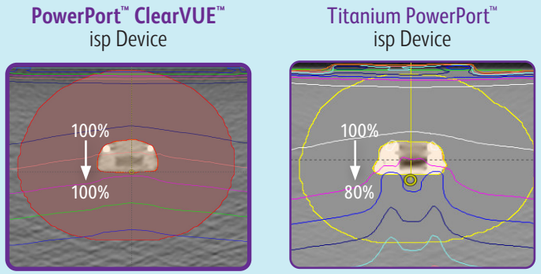
ClearVUE™ Ports are **engineered uniquely** to help you avoid reduction in overall radiation dosage through the port, minimize inadvertent healthy tissue radiation, and ultimately eliminate the need for port relocation to effectively deliver radiation therapy.[1]

In the presence of metal, radiation scatters. The **metal-free design** of ClearVUE™ Ports has demonstrated no observable back scatter, side scatter, or attenuation.[2]

[1] Compared to metal ports.

[2] Bench test data on file. BD, Tempe, AZ. Test results may not correlate to actual clinical performance. Different test methods may yield different results.

Radiation Attenuation Through a Port



Tested at 6 MV and 18 MV x-ray

Engineered with **Port Placers in Mind**

Simplified Placement

- Ergonomic triangular shape designed to facilitate port pocket insertion
- Enables port placement ipsilateral to the treatment area
- Supports right-sided port placement, which is known to have fewer complications compared to placing ports on the left

Ongoing Benefits

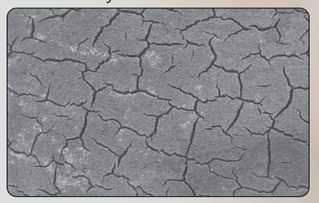
- Metal-free construction
- MR Safe and CT compatible
- Clear CT markers
- Reduced artifact for clear MRI and CT imaging[1]
- Minimal interference with radiation therapy[1]
- Durable plastic port and ChronoFlex™ Catheter
- Power-injectable at 5 mL/s at 300 psi

PowerPort™ ClearVUE™ isp &
Powerport™ ClearVUE™ Slim
Implantable Ports as viewed under x-ray imaging.

In bench top testing, polycarbonate-based polyurethanes, such as ChronoFlex™, exhibited significantly higher tensile strength and burst strength when compared to polyether-based urethanes like Tecoflex™[2].

ChronoFlex™ Polyurethane

Tecoflex™ Polyurethane



Scanning Electron microscope images of 100X magnification at 6 weeks of implantation with no exposure to Taxol or Taxotere chemotherapy.

	PowerPort™ ClearVUE™ isp Implantable Port	PowerPort™ ClearVUE™ Slim Implantable Port
Port		
Material	Plastic w/Silicone Overmold	Plastic
Profile	Intermediate	Low Profile
Legnth	25.9 mm	25.5 mm
Width	24.4 mm	21.6 mm
Height	11.9 mm	10.4 mm
Internal Volume	0.6 mL	0.4 mL
Suture Mechanisms	Silicone Overmold	Silicone-filled & Non-filled Suture Holes
Septum		
Bump Configurations	Modified & Smooth	
Diameter	13.0 mm	8.9 mm
Available Catheter Options (Attachable)		
6F ChronoFlex™ Polyurethane (1.3 mm I.D., 45 cm Length) 0.7 mL volume (0.014 mL/cm)	✓	✓
8F ChronoFlex™ Polyurethane (1.6 mm I.D., 45 cm Length) 0.9 mL volume (0.02 mL/cm)	✓	✓
Kit Configurations		
	Intermediate & Microintroducer	
	All kit configurations include StruXure™ Guidewire 0.035"	
	All kit configurations include AirGuard™ Valved Introducer	

StruXure™ Guidewire 0.035"
Designed with enhanced kink resistance to help facilitate catheter placement

AirGuard™ Valved Introducer
Minimizes blood loss and risk of air embolism

[1] Compared to metal ports. Bench test data on file. BD, Tempe, AZ. Test results may not correlate to actual performance. Different test methods may yield different results.

[2] Bench test data on file. BD, Tempe, AZ. Test results may not correlate to actual clinical performance. Different test methods may yield different results.

Designed with **Nurses in Mind**

Nurses are great patient advocates

With this role, there is an opportunity to educate patients on ports that suit their immediate and long-term needs. How can ClearVUE™ Ports help?

Created with **Patients in Mind**

Efficient Access & Administration

- Bench tested to 208 infusions and 36 power injections[1]
- Palpation bumps and triangular shape indicate power-injection and assist with septum identification
- Compatible with infusion of medications including anti-cancer medicines (chemotherapy), contrast media, IV fluids, parenteral nutrition solutions, and blood products

Training & Maintenance Resources

- Training in-services available nationwide
- PortReady™ educational material for both providers and patients
- Visit **PortReady.com** to learn more

PORT READY™

Comfort & Convenience

PowerPort™ ClearVUE™ Implantable Ports are available in two sizes to enhance patient comfort. The PowerPort™ ClearVUE™ isp is an intermediate sized port, while the PowerPort™ ClearVUE™ Slim is a low-profile port.

PowerPort™ ClearVUE™ isp

Implantable Port

- Silicone overmolded port body for a softer feel[1]
- Lightweight design
- Power-injectable

5.6 g
vs 11.8 g PowerPort™ Titanium isp Implantable Port

PowerPort™ ClearVUE™ Slim

Implantable Port

- Low-profile size allows for small incisions and port pockets
- Ideal for thin or cosmetically-minded patients
- Lightweight design
- Power-injectable

3.5 g
vs 10.0 g PowerPort™ Titanium Slim Implantable Port

[1] Bench test data on file. BD, Tempe, AZ. Test results may not correlate to actual clinical performance. Different test methods may yield different results.

[1] Compared to titanium port body

PowerPort™ ClearVUE™ isp

Implantable Port

Ordering Information

French Size	Catheter	Septum Configuration	Suture	Kit Type	Product Code
6F	ChronoFlex™	Modified Bumps	Silicone Overmold	Microintroducer	☐ 1606052
6F	ChronoFlex™	Modified Bumps	Silicone Overmold	Intermediate	☐ 1606062
6F	ChronoFlex™	Smooth Septum	Silicone Overmold	Intermediate	☐ 1666362
8F	ChronoFlex™	Modified Bumps	Silicone Overmold	Microintroducer	☐ 1608052
8F	ChronoFlex™	Modified Bumps	Silicone Overmold	Intermediate	☐ 1608062
8F	ChronoFlex™	Smooth Septum	Silicone Overmold	Intermediate	☐ 1668362

PowerPort™ ClearVUE™ Slim

Implantable Port

Ordering Information

French Size	Catheter	Septum Configuration	Suture	Kit Type	Product Code
6F	ChronoFlex™	Modified Bumps	Silicone Filled	Microintroducer	☐ 1616070
6F	ChronoFlex™	Modified Bumps	Open	Microintroducer	☐ 1616071
6F	ChronoFlex™	Modified Bumps	Silicone Filled	Intermediate	☐ 1616000
6F	ChronoFlex™	Modified Bumps	Open	Intermediate	☐ 1616001
6F	ChronoFlex™	Smooth Septum	Silicone Filled	Intermediate	☐ 1676300
6F	ChronoFlex™	Smooth Septum	Open	Intermediate	☐ 1676301
8F	ChronoFlex™	Modified Bumps	Silicone Filled	Microintoducer	☐ 1618070
8F	ChronoFlex™	Modified Bumps	Silicone Filled	Intermediate	☐ 1618000
8F	ChronoFlex™	Modified Bumps	Open	Intermediate	☐ 1618001
8F	ChronoFlex™	Smooth Septum	Silicone Filled	Intermediate	☐ 1678300
8F	ChronoFlex™	Smooth Septum	Open	Intermediate	☐ 1678301

PowerPort™ ClearVUE™ Implantable Port

Indications for Use: The PowerPort™ Implantable Port is indicated for patient therapies requiring repeated access to the vascular system. The port system can be used for infusion of medication, I.V. fluids, parenteral nutrition solutions, blood products, and for the withdrawal of blood samples. When used with a PowerLoc™ Brand Safety Infusion Set, the PowerPort™ device is indicated for power injection of contrast media. For power injection of contrast media, the maximum recommended rate is 5 mL/s.

Contraindications: 1.) Catheter insertion in the subclavian vein medial to the border of the first rib, an area which is associated with higher rates of pinch-off. Port may be placed in lateral subclavian vein based on evaluation by a qualified practitioner. **2.)** When presence of device-related infection, bacteremia, or septicemia is known or suspected. **3.)** When the patient's body size is insufficient for the size of the implanted device. **4.)** When the patient is known or is suspected to be allergic to materials contained in the device. **5.)** If severe chronic obstructive lung disease exists. **6.)** If the prospective insertion site has been previously irradiated. **7.)** If the prospective placement site has previously suffered episodes of venous thrombosis or vascular surgical procedures. **8.)** If local tissue factors will prevent proper device stabilization and/or access.

Precautions: 1.) Check patient's records, and ask patient, whether they have any known allergies to chemicals or materials that will be used during the placement procedure. **2.)** Fill (prime) the device with sterile normal saline solution to help avoid air embolism. **3.)** Carefully follow the connection technique given in the IFU to ensure proper catheter connection and to avoid catheter damage. **4.)** Care should be taken to avoid excessive force when accessing an implanted port.

Warnings: 1.) Avoid vessel perforation. **2.)** Do not power inject through a port system that exhibits signs of clavicle-first rib compression or pinch-off as it may result in port system failure. **3.)** PowerPort™ Implantable Ports are only power injectable when accessed with a PowerLoc™ Brand Safety Infusion Set. **4.)** Failure to ensure patency of the catheter prior to power injection studies may result in port system failure **5.)** Exceeding maximum flow rate may result in port system failure and/or catheter tip displacement. **6.)** PowerPort™ implantable port indication for power injection of contrast media implies the port's ability to withstand the procedure, but it does not imply appropriateness of the procedure for a particular patient nor for a particular infusion set. A suitably trained clinician is responsible for evaluating the health staus of a patient as it pertains to a power injection procedure and for evaluating the suitability of any infusion set used to access the port. **7.)** Do not exceed a 300 psi pressure limit setting on the power injection machine, or the maximum recommended flow rate on the PowerLoc™ needle, if power injecting through the PowerPort™ implantable port. **8.)** If local pain, swelling or signs of extravasation are noted during power injection, the injection should be stopped immediately. **9.)** Do not use a syringe smaller than 10 ml to access the port. Flushing occluded catheters with small syringes can create excessive pressure within the port system.

Possible Complications: The use of a subcutaneous port provides an important means of venous access for critically ill patients. However, the potential exists for serious complications, including the following: Air Embolism, Allergic Reaction, Bleeding, Brachial Plexus Injury, Cardiac Arrhythmia, Cardiac Puncture, Cardiac Tamponade, Catheter or Port Erosion Through the Skin, Catheter Embolism, Catheter Occlusion, Catheter or port-related Sepsis, Damage or Breakage due to Compression between the Clavicle and First Rib, Device Rotation or Extrusion, Endocarditis, Extravasation, Fibrin Sheath Formation, Guidewire Fragment Embolism, Hematoma, Hemothorax, Hydrothorax, Infection, including but not limited to, pocket, catheter tunnel, and/or blood stream, Inflammation, Necrosis, or Scarring of Skin Over Implant Area, Intolerance or Reaction to Implanted Device, Laceration of Vessels or Viscus, Pain at or around port pocket site, Perforation of Vessels or Viscus, Pneumothorax, Risks Normally Associated with Local or General Anesthesia, Surgery, and Post-Operative Recovery, Spontaneous Catheter Tip Malposition or Retraction, Thoracic Duct Injury, Thromboembolism, Vascular Thrombosis, Vessel Erosion.

Please consult product labels and inserts for any indications, contraindications, warnings, precautions, possible complications, and directions for use.

bd.com BD, Tempe, AZ, USA, 1 800 321 4254