# Xcela® Power Injectable PICC

# Guidelines for Power Injection

**NOTE:** Refer to Directions for Use for complete instructions.

#### 1. CONFIRM CATHETER FOR POWER INJECTABILITY



## 2. PROGRAM POWER INJECTOR

Verify power injector is appropriately programmed and does not exceed catheter maximum flow rate limits.

Warning: The maximum pressure of power injectors used with the Xcela PICC must not exceed 300 psi. Power injector's pressure limiting (safety cut-off) feature may not prevent over pressurization of occluded catheter. Exceeding maximum flow rate may result in catheter failure and/or catheter tip

#### Viscosity

	Length (cm)	.0 cP* Flow Rate (mL/sec)	11.8 Length (cm)	-
4FSL	45	4	45	4
4FSL	55	4	55	3.5
5FSL	55	5	55	5
5FDL	45	5	45	5
5FDL	55	5	55	4
6FDL	55	5	55	5

Bench testing supports the variation in flow rates between 9.0 and

All testing was performed using body temperature medium.
\*Maximum flow rate data obtained from 60 cm length catheters

\*\*Maximum flow rate on catheter label based upon 11.8 cP testing

displacement. Catheter indication for power injection of contrast media implies the catheter's ability to withstand this procedure. It does not imply that this procedure is appropriate for a particular patient. A trained clinician is responsible for evaluating the status of a patient for a power injection procedure.

## 3. WARM CONTRAST MEDIA

Warm contrast media to body temperature.

**Warning:** Failure to warm contrast media to body temperature prior to power injection study may result in catheter failure.

## 4. INSPECT CATHETER

Inspect catheter for damage.

## 5. ASPIRATE BLOOD

Attach syringe, open clamp and aspirate until blood return. Close clamp, and remove and discard used syringe.



#### Technical Support

for this product and other Navilyst Medical Vascular Access Products is available 24 hours a day by calling:

Vascular Access Products Reference Line 800.513.6876

#### 6. FLUSH LUMEN

Attach syringe filled with 10 mL sterile normal saline, open clamp and vigorously flush lumen. Close clamp, detach syringe and discard.

**Warning:** Failure to ensure catheter patency prior to power injection studies may result in catheter failure.

Precaution: If a needleless

connector is attached to catheter hub, ensure that it will sustain power injection.



#### 7. CONNECT TO POWER INJECTOR

Attach power injector to selected lumen hub per manufacturer's recommendations, and open clamp.







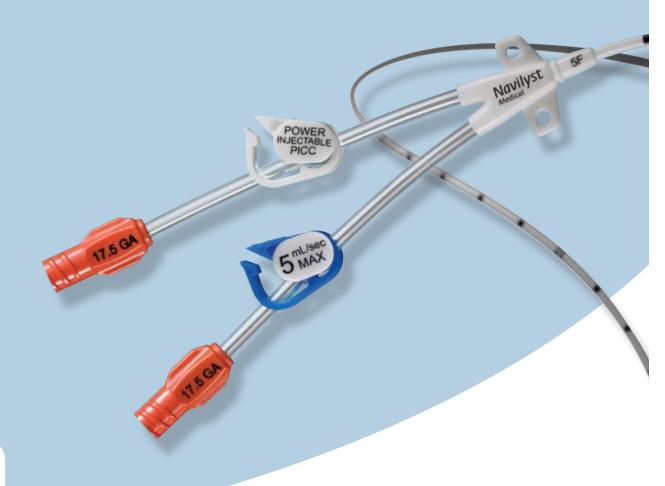
#### 8. COMPLETE STUDY AND DISCONNECT POWER INJECTOR

Complete power injection study taking care not to exceed maximum flow rate limit. Disconnect the power injector.

**Precaution:** It is recommended that institutional protocols be considered for all aspects of catheter use. Bench testing has demonstrated that the Xcela Power Injectable PICC is capable of withstanding five power injections, which could reasonably occur during a 90-day catheter indwelling period.

## 9. FLUSH AND FINISH

Flush the Xcela PICC with 20 mL sterile normal saline.





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INDICATIONS: The Xcela Power Injectable PICC is indicated for short or long-term peripheral access to the central venous system for intravenous therapy, including but not limited to, the administration of fluids, medications and nutrients; the sampling of blood; and for power injection of contrast media.

CONTRAINDICATIONS: Venous thrombosis in any portion of the vein to be catheterized; conditions that impede venous return from the extremity such as paralysis or lymphedema after mastectomy; orthopedic or neurological conditions affecting the extremity; anticipation or presence of dialysis grafts or other intraluminal devices; hypercoagulopathy unless considerations are made to place the patient on anticoagulation therapy; pre-existing skin surface or subsurface infection at or near the proposed catheter insertion site; anatomical distortion of the veins from surgery, injury or trauma; anatomical irregularities (structural or vascular) which may compromise catheter insertion or catheter care procedures.

WARNINGS: Do not use the catheter with chemicals that are incompatible with any of its accessories, as catheter damage may occur; failure to warm contrast media to body temperature prior to power injection may result in catheter failure; failure to ensure patency of the catheter prior to power injection studies may result in catheter failure; power injector's pressure limiting (safety cut-off) feature may not prevent over pressurization of occluded catheter; exceeding the maximum allowable flow rate may result in catheter failure; and/or catheter tailure and/or catheter indication for power injection of contrast media implies the catheter's ability to withstand this procedure, but does not imply appropriateness of this procedure for a particular patient. A trained clinician is responsible for evaluating the health status of a patient as it pertains to a power injection procedure; the maximum pressure of power injectors used with the power injectable PICC must not exceed 300 psi.

ADVERSE EVENTS: Potential complications include, but are not limited to catheter dislodgement, embolism, fragmentation, migration, or rupture; air embolism; drug or contrast medium extravasation, or precipitate; intolerance reaction to contrast media.

PRECAUTIONS: Actione and polyethylene glycol-containing ointments should not be used with polyurethane catheters, as these may cause failure of the device; if resistance is met while attempting to flush catheter, follow institutional protocol for occluded catheters; it is recommended that institutional protocols be considered for all aspects of catheter use. Bench testing has demonstrated that the Xcela Power Injectable PICC is capable of withstanding five power injections, which could reasonably occur during a 90-day catheter indwelling period; refer to Directions for Use for complete instructions.

CAUTION: Federal Law (USA) restricts this device to sale by or on the order of a physician.

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