**IV Access Guidelines, Department of Radiology / CT Scan**

All IV access lines must flush well to confirm patency. This is **required** for all IV access prior to CT scan. Patients having a CT exam with IV contrast will be required to have peripheral IV access. The exception would be those patients with a CT injectable PICC, CT injectable Port, or a central line that is approved and labeled for CT pressure injections. See section below in regard to power injectable lines.

**Central Line Information**

Only power injectable central lines are an alternative option to IV access. Refer to MUSC Medical Center Policy C-75 Vascular Access Care and Management, including IV Administration Sets, IV Infusion, and IV Administration. (Pg.11)

1) Power Injectable Vascular Access Device (VAD)
   a) To prevent VAD rupture during a Radiographic Study requiring the use of a power injector, users are to:
      i) Check the labeling of each VAD for its maximum pressure and flow rate. If none is provided, assume device is NOT intended for power injection and do not use.
      ii) Ensure that the pressure limit set for the power injector does not exceed the maximum labeled pressure for the VAD.

Prior to the access and power-injection of a port, the device must be positively identified by radiology staff as approved for power injection by one of the following identifiers:

1) Manufacturer’s card, arm bracelet, or key tag
2) Sticker identifying the device in the patient charts operative nursing note at time of placement
3) Image- “CT” embedded in power-injectable devices
   a) Technologists reviews prior MUSC images, if concerns or questions call supervising radiologist
   b) If no prior images are available, obtain image of appropriate anatomical area and radiologist to dictate images for port identification
      i) Order must be placed to create accession number for dictation

Some lines that are allowed:

- Bard Power Port with proper power injectable access line
- Arrow pressure injectable CVC
- PFM CT Ports with proper Power injectable access line
- Bard Power PICC
- Cook Spectrum central lines and PICC lines
- Navilyst/Angiodynamics
- Bard Trialysis 3 lumen non-tunneled dialysis catheter
- Bard Power Hickman
- Bard Power Line
- Medcomp Pro-Line

We cannot use central lines that are not rated for pressure injections of 300 PSI or greater. The following central/access lines have a 25 PSI limitation and cannot be used by CT for power injection due to the viability of the materials used to manufacture these lines. These manufacturers do not support the use of power injectors with their product:

- Hickman
- Groshong
• Broviac
• Introducers (micropuncture kit)
• Vas cath

Other IV Access Information

EJ access: must flush well and produce blood return. If the patient needs an arterial study, a peripheral IV line should be placed. If an EJ lines are used, it must be at a rate of no more than 2 mL/sec at a reduced PSI of 150.

Deep Brachial IV: must flush well in intended injection position and produce blood return in the injection position.

Lower Extremity IV access: IV placement in a lower extremity may be used for routine studies and may be injected 2 mL/sec.