3.

**POWER INJECTION**

**Power Injection Procedure:**

1. **Access the PowerPort* Safety Infusion Set Family device.** Make certain that needle tip is seated firmly within the port.

2. **Warning:** The PowerPort device is only power injectable when accessed with a PowerLoc* Safety Infusion Set. Make certain that needle tip is seated firmly within the port.

3. **Check for Septum-Proximal Device:** If Septum-Proximal Device should be used, select Septum-Proximal Device and proceed to power injection protocol.

4. **Flushing Volumes for Endovascular Ports:**

   - **Filter:** 100 U/mL
   - **Volume (mL)**
   - **Before each injection**
   - **After each injection**
   - **Exceeding the maximum flow rate may result in port system failure.**

5. **Important Information:**

   - **A PowerPort* Safety Infusion Set Family* device MUST always be used.**
   - **Patient must be hydrated to body temperature prior to power injection.**
   - **PowerLoc* device to prevent damage to the port system.**
   - **Warning:** Failure to warm contrast media should be warmed to body temperature (per lumen)

6. **PowerPort Devices Under X-ray:**

   - **Safety Precautions:**
   - **Devices Under X-ray:**
   - **M.R.I.* Devices**
   - **Titanium Device**

7. **Recommended Flushing Volumes:**

   - **Open-Ended Catheter Flushing Volumes (per lumen):**
   - **Where tubing or port set is being used.**
   - **Flow Rate:**
   - **Intravenous:**
   - **Following:**

8. **Reservoir Volumes:**

   - **Port Reservoir (ml)**
   - **Before each injection**
   - **After each injection**

9. **Accessing Implantable Ports:**

   - **Single Lumen:**
   - **Double Lumen:**
   - **Vascular Access:**
   - **Interventional:**

10. **Flushing Volumes:**

    - **PowerPort Device Volume (ml)**
    - **PowerPort Device Flow Rate (ml/sec)**
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11. **Recommended Flushing Volumes:**

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13. **Accessing Implantable Ports:**

    - **Single Lumen:**
    - **Double Lumen:**
    - **Vascular Access:**
    - **Interventional:**

14. **Guidelines for CT Technologist**

    - **Indications For Use:**
    - **PowerPort* Implantable Port is indicated for patient therapies requiring repeated access to the vascular system.**
    - **Port system can be used for infusion of medications, I.V. fluids, parenteral nutrition solutions, blood products, and for the withdrawal of blood samples.**
    - **When used with the PowerLoc* Safety Infusion Set Family device, the PowerPort* device is indicated for power injection of contrast media.**
    - **For power injection of contrast media, the maximum recommended infusion rate is 5 ml/sec.**

15. **This device is contraindicated for 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.**

All materials are bioocompatible, can be used with virtually all injectable solutions and are safe with CECT.

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**Accessing Implantable Ports**

1. **Procedure:**

   - **Perform proper site preparation.**
   - **Locate port septum by palpation.**
   - **Identify palpation bumps on the septum, arranged in a triangle.**
   - **Check-inspect the rate of safety infusion at set CT settings.**

2. **Device Under X-ray:**

   - **Safety Precautions:**
   - **Devices Under X-ray:**
   - **M.R.I.* Devices**
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3. **Recommended Flushing Volumes:**

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