

# Hummi Micro-Draw PAL Blood Draw Guidelines with Aspirating Syringes.

<p><b>Step 1 Prep Split-septum T-connector</b></p> <p>Wearing appropriate protective attire, prep the split-septum T-connector according to institutional policy.</p> 	<p><b>Step 2 Open and inspect Hummi-Micro Draw Device</b></p> <p>Open the Hummi Micro-Draw device and inspect. Make sure vent plug is in place on extension with <b>Blue</b> clamp. Make sure vent plug is in place on extension with <b>Red</b> clamp. The protective cover should be on the Hummi blunt tube.</p> 
<p><b>Step 3 Close Both Red and Blue Clamps</b></p> <p>Clamp both extension tubing clamps on the Hummi Micro-Draw.</p> <p>Close <b>Red</b> Clamp. Close <b>Blue</b> clamp.</p> 	<p><b>Step 4 Attach Syringe to Red Clamp Extension Tube</b></p> <p>Remove white vent plug from extension tube with <b>Red</b> clamp.</p> <p>Attach appropriate Aspirating Syringe to extension hub for blood sample collection.</p> 
<p><b>Step 5 Close T-connector with Slide Clamp</b></p> <p>Also clamp the split-septum T-connector tubing at this time using the attached slide clamp.</p> <p>This will stop the line flow into the arterial catheter and T-connector.</p> 	<p><b>Step 6 Insert Blunt Tube to Catheter Hub</b></p> <p>Remove the protective cover on the Hummi blunt tube.</p> <p>Hold the T-connector hub securely and SLOWLY insert the blunt tube into the T-connector split-septum at a 90 degree angle to the septum. (Keep straight on insertion)</p> 
<p><b>Step 7 Fully Insert Blunt Tube to Catheter Hub</b></p> <p>Insert the Hummi Micro-Draw blunt tube until it is FULLY inserted through the split-septum and stops with its tip resting inside the catheter hub.</p> 	<p><b>Step 8 Unclamp Blue Clamp and Allow Clearance Blood</b></p> <p>Unclamp <b>Blue</b> clamp and allow clearance blood to flow into the extension tube until it meets the white vent plug.</p> <p>Immediately close the <b>Blue</b> clamp.</p> 
<p><b>Step 9 Unclamp Red Clamp and Aspirate Blood Sample Syringe to Transfer Blood into Syringe</b></p> <p>Holding the syringe in tip down position, unclamp the <b>Red</b> clamp and aspirate the appropriate blood sample volume into the collection syringe.</p> 	<p><b>Step 10 Close Red Clamp and Remove Hummi Device From T-connector</b></p> <p>Close the <b>Red</b> clamp on the extension tubing to closed position.</p> <p>Remove the Hummi Micro-Draw device and blood sample syringe slowly from T-connector while holding the T-connector hub securely.</p> 
<p><b>Step 11 Remove Sample Syringe &amp; Unclamp T-connector</b></p> <p>Remove and cap the sample syringe and set aside for testing.</p> <p>Unclamp the slide clamp from the T-connector tubing and resume normal arterial monitoring.</p> 	<p><b>Step 12 Clean T-connector Split-septum</b></p> <p>Clean the T-connector split-septum with appropriate anti-microbial.</p> <p>Flushing at this point is optional and may not be necessary.</p> <p>Dispose of the Hummi Micro-Draw in a sharps container.</p> 

# PAL - Peripheral Arterial Line Blood Collection

## Using an Aspirating Syringe

### **Instructions for Blood Transfer and Collection into a ASPIRATING SYRINGE Using the Hummi Closed Micro-Draw Blood Transfer Device on a Peripheral Arterial Line Catheter with Split-Septum T-Connector attached.**

#### **Procedure:**

- Assemble the needed components. Hummi Micro-Draw device, desired collection device (aspirating syringes), site prep materials, labels, gloves etc.
  - Don Gloves. Prep the T-connector septum according to institutional policy and procedure.
  - Open the Hummi Micro-Draw device and inspect for damage, etc. Make sure the white vent plug is in place on the extension with Blue clamp. Make sure the white vent plug is in place on the extension with the Red clamp. The protective cover should be on the Hummi blunt tube.
  - Clamp both extension tubing clamps on the Hummi (Red and Blue) to the closed position, clamping the lines.
  - Remove the white vent plug from the extension tube with the Red clamp, and attach the appropriate size Aspirating Syringe (luer lock or luer slip) to female luer for collection of the blood sample.
  - Also clamp the T-connector tubing at this time to stop flow in the arterial line.
  - Remove the protective cover on the Hummi blunt tube, hold the T-connector hub securely and slowly insert the blunt metal tube into the T-connector septum at a 90 degree angle to the septum. (Keep straight on insertion)
  - Fully insert the Hummi blunt tube until it is entirely inserted through the septum and rests with its tip inside the catheter hub. Stop inserting once resistance is felt. **CAUTION: Do not force blunt tube once inside the catheter hub.**
  - Unclamp the Blue clamp on the extension tube and allow clearance blood to flow into the tube until it meets the white vent plug. Immediately close the Blue clamp.
  - Unclamp the Red clamp on the extension tube, hold the syringe in an upright position and aspirate appropriate volume of sample blood into the collection syringe. Re-clamp the Red clamp on the extension tubing.
  - If multiple samples are desired, remove 1<sup>st</sup> sample syringe and attach 2<sup>nd</sup> sample syringe to the female luer, unclamp Red clamp and aspirate appropriate blood sample volume and re-clamp red clamp.
  - Remove the Hummi Micro-Draw device slowly from the T-connector in a smooth withdrawal motion while holding the T-connector hub securely.
  - Remove the sample syringe from the female luer and cap the sample syringe for testing.
  - Discard the Hummi-Micro Draw device in an appropriate sharps container.
  - Clean the T-connector septum, unclamp the T-connector and resume normal arterial monitoring.
- If desired, a small amount of flush can be given to clear the catheter, but may not be necessary.