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

**Procedure:**

1. Assemble the needed components. Hummi Micro-Draw device, desired collection device (Self-Venting Syringes), site prep materials, labels, gloves etc.
2. Don Gloves. Prep the T-connector septum according to institutional policy and procedure.
3. 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.
4. Clamp both extension tubing clamps on the Hummi (Red and Blue) to the closed position, clamping the lines.
5. Remove the white vent plug from the extension tube with the Red clamp, and attach the desired size of self-venting syringe for collection of the blood sample. This syringe should be pre-set to the desired blood volume to be collected.
6. Also clamp the T-connector tubing at this time to stop flow in the arterial line.
7. 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)
8. 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 if resistance is met on initial insertion. Probe septum until opening is found. Stop insertion after blunt tube is fully seated inside the catheter hub.**
9. Holding the Hummi an tip down position, 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.
10. Holding the self-venting blood sampling syringe in tip down position, unclamp the Red clamp and allow sample blood to flow up and into the collection syringe until it fills to the desired volume.
11. Close the Red clamp on the tubing to the closed position.
12. If multiple samples are desired, remove 1st sample syringe and attach 2nd sample syringe to the female luer. Unclamp Red clamp and collect sample blood needed and re-clamp the Red clamp.
13. Holding the T-connector hub securely, slowly remove the Hummi Micro-Draw device with attached blood sample syringe in a straight and smooth withdrawal motion. Remove the sample syringe from the female luer and cap for testing.
14. Unclamp the T-connector and resume arterial pressure monitoring.
15. Clean the T-connector split-septum with appropriate anti-microbial.   
    Flushing at this point is optional and may not be necessary.
16. Discard the Hummi-Micro Draw device in an appropriate sharps container.