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| Center for Human Phenomic Science | University of Pennsylvania Health System | CHPS SOP 05 |
| Standard Operating Procedure | Obtaining Blood Samples from a Peripheral IV | Page 1 of 3 |

PURPOSE: To provide guidelines for safe and effective intravenous line placement and blood draws.

SCOPE: CHPS trained personnel.

RESOURCES:

1. Peripheral Intravenous Access Considerations for Center for Human Phenomic Science Research Participants: HUP Policy 4B-02-24.
2. Peripheral Intravenous Therapy: HUP Policy 4B-02-02.
3. Central Venous Access Device, Nursing Management of the Patient: HUP Policy 4B-02-09
4. Central Line Blood Draws: HUP Policy 4B-02-18
5. Transfusion of Blood and Blood Products: HUP Policy 4B-02-04

PROCEDURE:

Please refer to the above nursing policies for procedural details.

- (1) If sampling is unsuccessful, apply a tourniquet several inches above the catheter site and reattempt. (Limit tourniquet time to 1 minute to reduce hemolysis, which can cause inaccurate blood test results)
- (2) Attach the syringe to a blood transfer device. Insert the specimen vacuum laboratory tube into the blood transfer device, allowing the device's needle to pierce the tube's rubber top, drawing the required amount of blood into the tube.
- (3) Repeat the procedure for the remaining specimens, using a new sterile syringe each time.

- (4) Disinfect the SmartSite extension cap, using vigorous mechanical scrubbing by twisting back and forth a minimum of ten times with 70% Isopropyl alcohol. Allow the solution to dry.
- (5) Flush the catheter with 10 ml of 0.9% sodium chloride.
- (6) Resume any infusion or attach Curod end cap to SmartSite extension cap.
- (7) Discard supplies, remove gloves, and perform hand hygiene. Document the procedure in the patient's record.

Supersedes Blood Draws and IVs, 11/201, 11/01/2018, 3/17/2022

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