

**Duke**Medicine

Division of Cellular Therapy

DOCUMENT NUMBER: ABMT-COLL-011**DOCUMENT TITLE:**

Venipuncture Procedure

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ABMT-COLL-011 VENIPUNCTURE PROCEDURE

1 PURPOSE

- 1.1 To describe the procedure for preparing the site for venipuncture.

2 INTRODUCTION

- 2.1 To obtain peripheral venous access in patients and donors for leukapheresis who do not have a central line catheter. Venipuncture is needed to obtain inlet or return blood flow for leukapheresis when adequate blood flows are not obtained from the Central line Hickman/Vascath catheter. Venipuncture will be performed when central line catheter recirculation is suspected to increase the efficiency of the collection.

3 SCOPE AND RESPONSIBILITIES

- 3.1 This document is referenced when preparing the site for venipuncture.
- 3.2 The apheresis nurse is responsible for venipuncture.

4 DEFINITIONS/ACRONYMS

- 4.1 AABB: American Association of Blood Banks
- 4.2 IV: Intravenous
- 4.3 PPE: Personal Protective Equipment

5 MATERIALS

- 5.1 16-20 gauge IV catheter
- 5.2 IV Start Kit: containing tape, sterile gauze, Chlorhexidine swab-stick (3.15% chlorhexidine gluconate and isopropyl alcohol 70%), tourniquet and dressing
- 5.3 Catheter Extension Set

6 EQUIPMENT

- 6.1 NA

7 SAFETY

- 7.1 Follow all safety-related Standard Operating Procedures and wear all necessary Personal Protective Equipment when handling potentially hazardous blood and body fluids to include, but not limited to gloves, lab coats, scrubs, surgical masks, goggles, face shields, etc. Hand hygiene will be done before and after patient contact.

8 PROCEDURE (IV INSERTION)

- 8.1 Obtain order from physician for venipuncture.

- 8.2 Prepare the patient and family by explaining the procedure, purpose, and what is expected.
- 8.3 Gather supplies needed and wash hands.
- 8.4 Apply tourniquet and select a large vein for venipuncture.
- 8.5 Don personal protective equipment (PPE).
- 8.6 Scrub a 3-inch diameter area around the venipuncture site for 30 seconds with chlorhexidine scrub.
- 8.7 And allow the prepared site to dry for 30 second. Do not re-palpate the area once the site has been prepared.
- 8.8 Prime the extension tubing (if used) with saline if labs are not needed, otherwise attach syringe to extension tubing to obtain blood samples.
- 8.9 Insert the catheter through the skin, penetrating the wall of the vein at an angle of 15-30 degrees.
- 8.10 At first flashback of blood, advance catheter slightly. Decrease the angle of the catheter and thread the catheter into the vein.
- 8.11 Apply pressure on the vein above the insertion site with one hand and remove the stylet from catheter.
- 8.12 Aseptically attach the extension set (if used), if blood sample is not needed release the tourniquet. If blood sample is needed, slowly pull back on the syringe to obtain the amount of blood needed then release the tourniquet.
- 8.13 Secure the IV catheter with dressing and tape.
- 8.14 Flush the IV catheter with saline and document IV insertion data in computer.

9 PROCEDURE (DISCONTINUING PIV DEVICE)

- 9.1 Explain the procedure to the patient and family.
- 9.2 Don gloves and remove dressing and tape.
- 9.3 Apply pressure with 2x2 gauze at insertion site
- 9.4 Withdraw cannula and apply pressure at insertion site until bleeding stops
- 9.5 Apply Band-Aid, or 2x2 gauze with tape or coban wrap.
- 9.6 Document site and line removal.

10 RELATED DOCUMENTS/FORMS

- 10.1 NA

11 REFERENCE

- 11.1 AABB Technical Manual, Current Edition.
- 11.2 Transfusion 2011;51: 531-538
- 11.3 Duke Nursing Process Standards: Peripheral Intravenous Therapy

12 REVISION HISTORY

Revision No.	Author	Description of Change(s)
03	S. Drago	Section 3 - Defined Scope of SOP. Section 11, Revision History – Added.
04	M. Christen	Section 5 (5.3) Catheter Extension Set added Section 8 (Updated information about PIV insertion) Section 9 (Added information about Discontinuation of PIV insertion) Section 11 (Updated information regarding Duke standards)

Signature Manifest**Document Number:** ABMT-COLL-011**Revision:** 04**Title:** Venipuncture Procedure

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