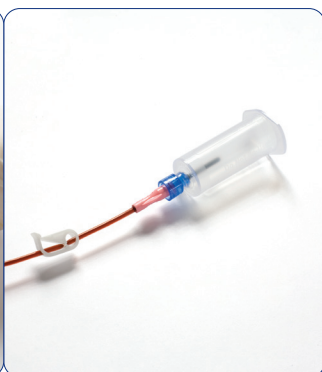


Blood collection at catheter insertion

Points to practice



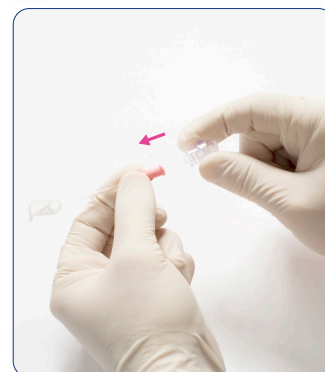
(Fig. 1)



(Fig. 2)



(Fig. 3)



(Fig. 4)

1 Collect

- Clamp extension tube and remove vent plug or connector. (Fig. 1)
- Attach the BD Vacutainer® Luer-Lok™ Access Device (LLAD) for closed system collection of blood. If not using LLAD, attach a syringe instead. (Fig. 2)
- Unclamp extension tube and collect blood.
- Clamp extension tube and remove syringe or LLAD.

2 Flush











- Attach flush syringe.
- Unclamp extension tube and flush. (Fig. 3)

3 Connect

- Clamp extension tube and remove flush syringe.
- Attach primed needle-free connector. (Fig. 4)

Consult product insert for complete instructions, warnings and cautions.

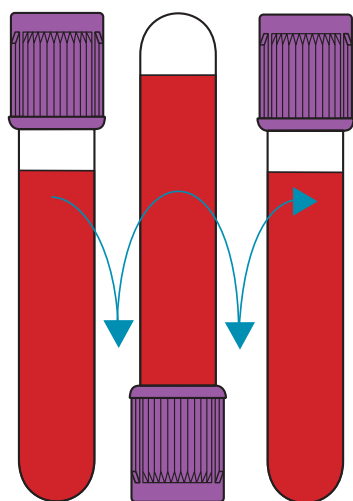
Fig. 1: Order of draw for multiple tube collections

Closure color	Collection tube	Mix by inverting
BD Vacutainer® Blood Collection Tubes (glass or plastic)		
	Blood cultures (SPS)	8 to 10 times
	Citrate tube	3 to 4 times
	– BD Vacutainer® Serum Separation Tube (SST) Gel Separator Tube	5 times
	– Serum tube	5 times (plastic), none (glass)
	– BD Vacutainer® Rapid Serum Tube (RST®)	5 to 6 times
	– BD Vacutainer® Plasma Separation Tube (PST) Gel Separator Tube with Heparin	8 to 10 times
	– Heparin tube	8 to 10 times
	– EDTA tube	8 to 10 times
	– BD Vacutainer® Plasma Preparation Tube (PPT®) Gel Separator Tube with K ₂ EDTA	8 to 10 times
	Fluoride (glucose) tube	8 to 10 times

Clinical and Laboratory Standards Institute (CLSI). Collection of Diagnostic Venous Blood Specimens. 7th ed. CLSI document GP41. Clinical and Laboratory Standards Institute, 950 West Valley Road, Suite 2500, Wayne, PA, 02017

Note: Always follow your facility's protocol for order of draw

Fig. 2: Mix tubes by inverting the recommended number of times



= 1 inversion

*The Infusion Therapy Standards of Practice recommend using peripheral IV catheters for blood collection only at the time of insertion.

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Tips for success

Blood collection from short peripheral IV catheters

Drying time of prepping agent

- Allow the cleansed site to dry thoroughly.
- Red blood cell lysis is common with exposure to antiseptic agents (particularly alcohol) not allowed to dry.

Tourniquet time

- Do not leave the tourniquet on for more than one (1) minute.

Syringe use

- Forcefully pulling the plunger back during blood collection may create enough pressure to cause hemolysis. Pull back slowly.
- Use the BD Vacutainer® Blood Transfer Device to enable the safe, closed-system, needleless transfer of venous blood from a BD Luer-Lok® Tip Syringe into evacuated blood collection tube(s).
- Do not apply pressure to the syringe plunger to accelerate the rate of transfer. Allow the tube vacuum to draw the blood from the syringe.
- Pushing the plunger when transferring blood from a syringe into a tube may cause hemolysis and needlestick injury.

Multiple tube collection

- Collect tubes in the order shown (Fig. 1), from top to bottom, to prevent cross contamination of tube additives.

Volume per tube

- Allow the natural vacuum of each tube to fill the tube with the correct blood volume to ensure the proper ratio of tube additive to blood. Fill volume is especially critical for the light blue sodium citrate tubes used for coagulation studies.

Mixing tube additive

- Gently invert each tube as they are removed from the holder and before engaging the next tube. (Fig. 2) Refer to Fig. 1 for the number of inversions per tube type.
- Vigorous mixing or shaking of the tubes may cause hemolysis.

