

### **Venous Blood Gas Collection Process**

**This process has been prepared for LHSC nurses that have completed the process for [venipuncture competency](#) as defined by the hospital.**

Equipment for Venous Blood Gas Collection Only and with other venous specimens:

- BD A-Line Arterial Blood Collection Syringe 3 mL (HMMS 36875)
- Set Collection Safety-Lok 21Gauge tubing butterfly without Luer (HMMS 77856)
- Bag of ice\* (separate clear Plastic bag) to place labeled specimen to send if estimated time of delivery will exceed 20 minutes.

#### **Prior to starting the collection**

1. Enter Blood Gases type: Venous into PowerChart/ FirstNet.
2. Print off your lab labels and take them to the bed side.
3. Perform patient identification prior to collection.
4. Prepare the site as per [Venipuncture Self Directed Learning Package](#)

#### **When drawing a Venous Blood Gas Only**

One of **two** techniques may be used:

- Using Safety-Lok 21Gauge tubing butterfly collection set
  1. Connect the BD A-Line Arterial Syringe luer-lok to the butterfly collection set prior to venipuncture.
  2. Perform venipuncture.
  3. Draw back on the syringe slowly to obtain greater than 1 mL in the syringe. Minimally, one (1) mL is required for testing.
  4. Remove the air bubbles if present.
  5. Fasten green transport cap included in package to syringe.
  6. Discard sharp appropriately.
  7. Appropriately label the syringe.
  8. Send the specimen\* to the lab via hospital tube system.
- Use 22 Gauge Safety needle attached to BD A-Line Arterial Syringe and draw directly from the vein into the syringe. Follow steps 2. to 8. above.

#### **When drawing the Venous Gas with other venous specimens**

1. Use 21G Safety-Lok Blood Collection Set add venipuncture holder with blunt end connector.
2. Perform venipuncture.
3. Collect venous specimens in [Proper Tube Order of Draw](#). The venous gas syringe is the last specimen drawn.
4. Disconnect the venipuncture holder from the Blood Collection Set.
5. Attach the BD A-Line Arterial Syringe.
6. Draw back on the syringe slowly to obtain greater than 1 mL in the syringe. Minimally, one (1) mL is required for testing.
7. Remove the air bubbles in the syringe if present.
8. Fasten the green transport cap included in package to syringe.
9. Discard sharp appropriately.
10. Appropriately label the syringe and other specimens.
11. Put the Venous Blood Gas sample in a separate specimen\* bag with ice.
12. Send the specimens to the lab via hospital tube system.

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