

# CORD BLOOD BANK OF ARKANSAS (CBBA)

## Instructions for Cord Blood Collection

Please read all instructions carefully before collection. Contact CBBA if there are any questions or problems. A technician is on call 24 hours a day for assistance.

**IMPORTANT NOTICE:** CBBA CANNOT accept public donations from collections occurring between Friday at 3:00PM (CST) and Sunday at 3:00PM (CST) or major Holidays.

### FOR IN-UTERO DELIVERY (VAGINAL OR C-SECTION)

**NOTE:** The Collection bag is sterile and can be used for C-Section deliveries within the sterile field.

1. Verify the identification of the birth mother using a minimum of two (2) identifiers, prior to the procurement of cord blood.
2. Cord blood is collected following delivery of the infant, after the umbilical cord is cut, and while awaiting (and during) delivery of the placenta. Do not collect if the baby is less than 34 weeks gestation.
3. Remove the collection bag from its foil pouch and inner sterile wrapper.
4. Clamp as distally on the cord as possible then swab a site on the cord just proximal to the clamp with the povidone-iodine pad or swab provided in the kit using the following:

**NOTE:** If venipuncture area is touched at any time after the cord is cleansed and prior to performing the venipuncture the area must be re-scrubbed.

- Open the povidone-iodine pad or swab, and thoroughly cleanse the venipuncture area, approximately 30 seconds.
- Open the alcohol pad and carefully wipe the povidone-iodine cleansed venipuncture area.
- Allow cleansed area to dry.

5. Insert the collection needle attached to the cord blood collection bag into the cleansed area of the umbilical vein and lower the umbilical cord below the perineum.

**IMPORTANT:** The collection bag must be placed lower than the placenta to allow the blood to drain by gravity into the bag. Minimize manipulation of the umbilical cord as this will adversely affect the volume of blood obtained.

6. Allow blood to drain until the cord is blanched white or begins to slow. **Sufficient volume of cord blood is a crucial factor for its use as a transplant!** Allow as much cord blood as possible to be collected. A minimum collection volume of **160 grams (85 g actual cord blood) or more** is strongly suggested for the cord blood to be considered usable. It is not unusual for the collected cord blood volume to be above 100 cc.
7. As soon as the collection slows or stops, milk the cord upward (about 6 to 10 inches), RECLAMP AGAIN, clean the venipuncture area and re-stick the new cell rich umbilical cord site.
8. When the collection slows, **repeat** step 7 again until the cord blood supply is exhausted or the minimal collection volume is obtained. This will usually require 3 to 4 venipunctures.

**IMPORTANT:** Including the weight of the collection bag and clamp, an 85 cc collection would weigh **160 grams**. If less than 85 cc of cord blood is collected, please attempt to collect more by reinserting the needle into a newly cleansed site of the umbilical vein.

9. Following the collection (which usually takes no longer than five minutes), perform the following:
  - a) Use the needle guard and cover the needle.
  - b) Close the clamp located between the "Y" tubing connector and the needle guard.
  - c) Cut off the covered needle and dispose as required by the collection facility. **Tie a knot at the end of the tubing.**
  - d) Open the blue air vent cap and drain the blood remaining in the tubing into the collection bag.
  - e) Close the air vent and mix blood thoroughly. **Be sure the clamp is closed and the end of tubing is knotted.**
10. **Immediately** after collection write the mother's first and last name, Date of Birth, the name of the physician/collector, the name of the collection facility, and the date and time drawn on the **yellow** cord blood identification label provided.

**NOTE:** The Hospital ID label may also be used by adhering to the **yellow** cord blood label.

11. Confirm the mother's name by a minimum of 2 identifiers.
12. Verify that the mother's name on her wristband is the same as the name written on the **yellow** cord blood label.
13. **Affix the yellow identification label directly to the "Non – Labeled" side of the collection bag.** Cord blood units that are unlabeled cannot be processed.
14. Weigh the collection bag containing the cord blood. Write the weight in grams on the **yellow** cord blood label and have this information available when you notify CBBA of the delivery and cord blood collection.
15. The cord blood must remain at room temperature to ensure viability of the stem cells. **DO NOT REFRIGERATE.** Refrigeration at 4° C adversely affects the viability of the stem cells.
16. Complete the blue **Important Delivery Information Sheet, Form C.1-2**, provided in the kit. **This form is mandatory.**
17. Retrieve Form C.1-3 from the collection kit (also found on inner lid) and follow the instructions for packaging the unit and maternal blood tubes.

## FOR EX-UTERO DELIVERY

The collection may be performed after the placenta is removed from the uterus. Using the method below, collection of the umbilical cord blood can be performed up to 20 minutes after delivery of the placenta.

**IMPORTANT:** This method typically results in less blood volume collected, it is important to be diligent in collecting as much blood as possible.

1. Place the placenta and umbilical cord in a tray with the cord freely hanging down.
2. Swab a site on the cord with the povidone-iodine pads or wipes provided in the kit using the following:  
**NOTE:** If venipuncture area is touched at any time after the cord is cleansed and prior to performing the venipuncture the area must be re-scrubbed.
  - a. Open the povidone-iodine pad/swab, and thoroughly cleanse the venipuncture area, approximately 30 seconds.
  - b. Open the alcohol pad and carefully wipe the povidone-iodine cleansed venipuncture area.
  - c. Allow cleansed area to dry.
  - d. Perform the collection using Step 5-17 on page 1.

## MATERNAL BLOOD DRAW

Five\* (5) tubes have been supplied with the kit to draw the maternal blood for required infectious disease testing. The blood can be drawn during labor or shortly after birth; anytime within 48 hours of the cord blood collection.

1. Place a hospital addressograph label on each tube of the maternal blood (If hospital labels are not available, write the **mother's full first and last name and Date of Birth on the tubes**).
2. Collect the five (5) tubes, ensuring tubes are filled completely. Tubes received with insufficient volume will prevent complete testing and unit will be unacceptable.
3. Fill out the **green** label with the phlebotomist's initials, date and time of collection, and place on the absorbent tube-holder sleeve.
4. Place the tubes in the absorbent sleeve.  
\*2 red top 6 ml serum and 3 purple top 6 ml EDTA tubes

## IMPORTANT NOTIFICATION INSTRUCTIONS

**During Normal Working Hours:** Monday-Friday 8:00 AM to 3:30 PM (CST):

- Contact CBBA within two hours after the cord blood collection at 855-854-2222 or 501-766-4611 for further instructions.

**After Normal Working Hours:**

- There is a message system in place. Please follow the instructions for leaving a message and the Cord Blood Coordinator will contact you the following morning. For Saturday, Sunday and or Holidays, please call 501-766-4611.

**REMEMBER:** CBBA **CANNOT** accept **public donations** from collections occurring between **Friday at 3:00PM (CST) and Sunday at 3:00PM (CST) or major Holidays.**

**DO NOT DISCARD ANY UNIT WITHOUT FIRST TALKING TO A CBBA REPRESENTATIVE**