

CORD BLOOD & CORD TISSUE COLLECTION INSTRUCTIONS

STEP 1

CORD BLOOD COLLECTION: VAGINAL AND CESAREAN

Cord blood collection can begin at the start of the third stage of labour, immediately after delivery of the infant. The cord blood will be collected into a 200ml blood collection bag containing CPD anticoagulant.

Sampling Procedure

- 1a. After the infant is born, cut the cord as close to the infant as normal procedure permits.
- 1b. Choose a site 4-6 inches from the cut end of the umbilical cord for drawing the blood.
- 1c. Wipe the site with gauze to remove blood. Use an chlorhexidine swab to clean the entire width of the cord within 4 inches of the chosen puncture site. After cleaning the site, do not allow secretions, non sterile items, or maternal blood, to contaminate the puncture site.
- 1d. Close clamps (3) and (7), the permanent red clamp must remain open. **ATTENTION:** once the red clamp (9) has been closed it cannot be reopened.
- 1e. Ensure there are no kinks in the collection line.
- 1f. Gently mix the CPD with the collected umbilical cord blood (a mixer may be used during collection).
- 1g. Remove the needle cap by turning the cap to break the seal. Pull the cap straight off, taking care not to touch the needle.
- 1h. Perform venepuncture on the appropriately disinfected lower portion of the umbilical vein.
- 1i. Open clamps (3) and (7). Allow the collection bag to fill via gravity. Whilst filling, gently rotate the bag to mix the blood with the anticoagulant.
- 1j. When blood flow decreases, massage the umbilical cord to recover the last mls of blood. Close clamps (3) and (7).
- 1k. Volume indicators on the back of the bag provide an estimate of the collected volume.
- 1l. Remove the needle (1) and employ the SECUVAM needle guard (2). The needle is fully engaged in the SECUVAM when needle hub is visible in the SECUVAM (2) window.

Rinsing the collection line into collection bag

- 1m. Snap the breakaway cannula (4) to the rinsing pouch making sure the clamps (3) and (7) are closed.
- 1n. Open clamp (7).
- 1o. Roll the rinsing pouch (6) up on itself, emptying the 8ml of CPD anticoagulant into the collection line.
- 1p. Close clamp (7).

Addition of additional anticoagulant into collection bag

- 1q. This step is recommended if the volume collected is over 150ml. (If volume collected is less than 150ml proceed to Step 3).
- 1r. Position clamp (7) close to connection (5).
- 1s. Strip the collection line (5) towards the collection bag (8) with the aid of the closed clamp (7) pushing the anticoagulant into the collection bag (8).
- 1t. Repeat this operation three times.

End of procedure

- 1u. Gently agitate the bag to mix the blood with the CPD.
- 1v. Close the red permanent clamp (9) above the safety ring (10).
- 1w. If using a sealer, seal the tube above the red permanent clamp (9). Disconnect the collection line from the collection bag.
- 1x. Discard all sharps, umbilical cord, placenta etc. according to the appropriate biohazard procedures. Use of the inlet and outlet connections (11) and injection site (12) must be done under a laminar flow hood.

STEP 2

CORD TISSUE COLLECTION: VAGINAL AND CESAREAN

Cord Tissue collection can begin once the cord blood collection has been completed. Be sure to "milk" the cord completely of any blood remaining. The blood is considered a contaminant and may affect the quality of the tissue. The cord tissue will be collected in a plastic collection cup.

- 2a. Once the cord blood has been completely drained from the cord, the cord will be transparent.
- 2b. Cut the cord to provide the maximum length of cord tissue. (We will need a minimum length of 5 inches but please try to provide the maximum length possible).
- 2c. Place the cord into the empty collection cup provided. It should fit if wound around, but it is also acceptable to cut it into pieces in order to get the maximum amount in the cup.
- 2d. Close the lid of the collection cup tightly, ensuring that the cord tissue is fully enclosed in the cup.
- 2e. Write time and date of collection on label provided and affix to collection cup.
- 2f. Place the collection cup into the plastic bag provided. Return sealed bag into the compartment in the padded shipping box.
- 2g. Confirm that the cord blood bag is in the box.

STEP 3

LABELLING AND PREPARING FOR SHIPMENT

- 3a. Complete the enclosed Delivery Information Form.
- 3b. Close the collection kit, ensuring all contents- cord blood, cord tissue, maternal blood tubes and Delivery Information Form are there, and return the collection kit to the parents to arrange pickup.
- 3c. Complete the enclosed Delivery Information Form.
- 3d. Remind patient or family member (father, partner) to call us to arrange a courier pickup immediately after collection at 01379 844045.

