

INSTRUCTIONS FOR CORD BLOOD & CORD TISSUE COLLECTION

! Attn: Healthcare Professional
Please review this instruction
book prior to delivery.



Collect Cord Blood and Cord Tissue


Please collect both cord blood and cord tissue. In the unlikely event that cord blood cannot be collected, the cord tissue should still be collected.

CHECKLIST OF ITEMS TO COMPLETE:

- Collect Cord Blood
- Collect Cord Tissue
- Collect Maternal Blood
- Start Temperature Datalogger
- Complete Delivery Questionnaire

**Thank you for your participation in
the cord blood / cord tissue collection
procedure!**

Please contact Healthcord if you have any
questions regarding the collection procedure:

 Phone	1-877-714-6361
 Fax	1-888-655-8877
 Email	support@healthcord.com
 Main Laboratory	100 – 2806 Kingsway Vancouver BC V5R 5T5

CORD TISSUE

COLLECTION KIT SUPPLIES PROVIDED:

- Umbilical Cord Clamp (2)
- Sample Collection Container (1)
- HBSS (1 bottle, 100mL)
- Specimen Bag (1)

CORD BLOOD

COLLECTION KIT SUPPLIES PROVIDED:

- Cord Blood Collection Bag (1)
- Antiseptic Swab (2)
- Temperature Datalogger (1)
- Specimen Bag (1)
- Specimen Label

A. Collect Cord Blood (Vaginal Delivery)

STEP 1.

Deliver the infant per standard practice.

STEP 2.

Prior to expulsion of the placenta, **double-clamp and cut the umbilical cord.**

- If the placenta is delivered prior to collection, proceed according to Cesarean Delivery Instructions (page 3).
- Collect as soon as possible after cutting the umbilical cord to prevent clotting.

STEP 3.

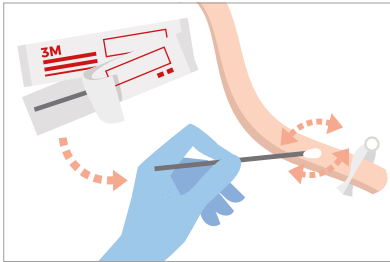
Remove the **Cord Blood Collection Bag** from the foil pouch.



STEP 4.

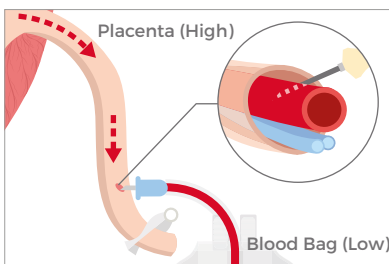
Use the **Antiseptic Swabs** to sterilize the needle insertion site.

N.B. The needle insertion site should be just above the clamp that remains on the umbilical cord.



STEP 5.

Puncture the umbilical vein at the prepared site with the bevel of the needle turned away from you. Hold the needle in place by hand or with a plastic hemostat. Arrange the bag and cord below the level of the placenta to facilitate gravity fill.

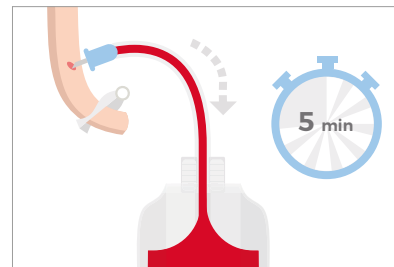


STEP 6.

Collect as much cord blood as possible via gravity-flow, aiming to fill the bag.

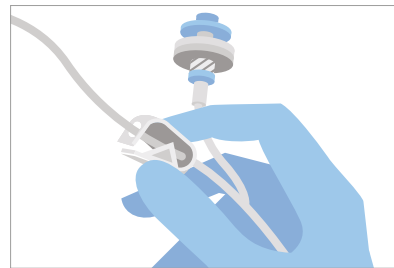
N.B. Normal collection volume is greater than 80 to 120 mL. Please aim to collect as much cord blood as possible.

- Collection takes approximately 5 minutes.
- During collection, mix the contents of the blood bag by gentle rocking.
- If the vein collapses or flow stops, sterilize an insertion site higher up on the cord. Gentle rotation, elevation or massage of the placenta or cord may improve collection volume.
- The cord will appear empty and pale when collection is complete.



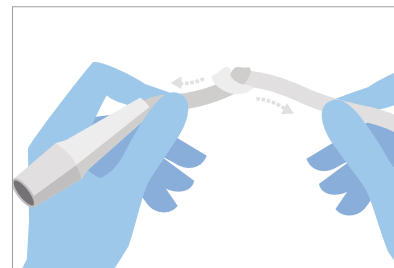
STEP 7.

Upon completion, **close the pinch clamp** leading to the bag.



STEP 8.

Tie a tight knot at the loose end of the tubing.

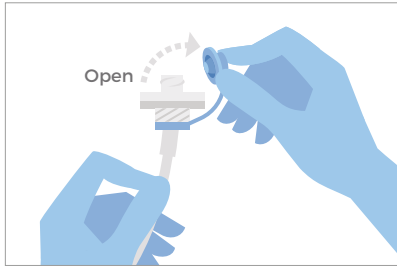


STEP 9.

Carefully slide the protective cap over the needle hub and pull the tube smoothly to retract the needle into the protective cap.

STEP 10.

Open the filtered vent. Allow the blood in the tubing to completely drain into the bag. Close the vent upon completion.



STEP 11.

Mix the bag by gentle inversion several times.

STEP 12.

Affix the **Specimen Label** to the Collection Bag and place in the **Specimen Bag**.



Collect Cord Blood (Cesarean Delivery)

STEP 1.

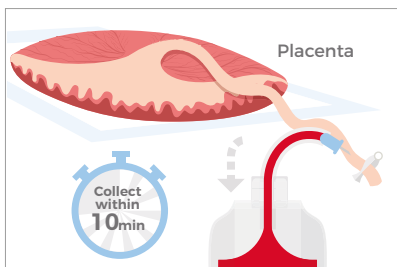
Deliver the infant per standard practice.

STEP 2.

Double-clamp and cut the umbilical cord, and place the placenta and cord in a sterile tray, bowl, or Chux pad with the fetal side down.

STEP 3.

Place the placenta on an elevated surface if possible and drape the umbilical cord out of the tray.



Next, **return to Step 3 of the Vaginal Delivery Instructions (page 2)**. If it is safe to do so, collect within 10 min of delivery to avoid clotting.

B. Collect Umbilical Cord Tissue

Please collect both cord blood and cord tissue. In the unlikely event that cord blood cannot be collected, the umbilical cord tissue should still be collected.

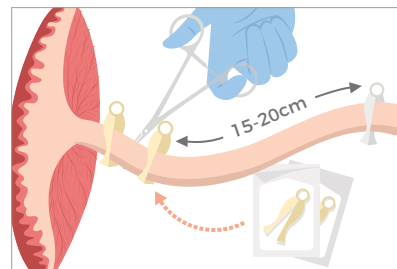
STEP 1.

After the cord blood has been collected, **double-clamp the umbilical cord** immediately adjacent to the placenta using the **Umbilical Cord Clamps** provided.

STEP 2.

Cut in between the clamps and separate the umbilical cord from the placenta.

N.B. Isolate as much umbilical cord as possible. Normal length is approx. 15 - 20 cm long.



STEP 3.

Place the umbilical cord into the **Sample Collection Container**. Do not unclamp the cord. Do not remove the white disk inside the container.



STEP 4.

Open the HBSS bottle and pour its contents into **Sample Collection Container** until it is filled.



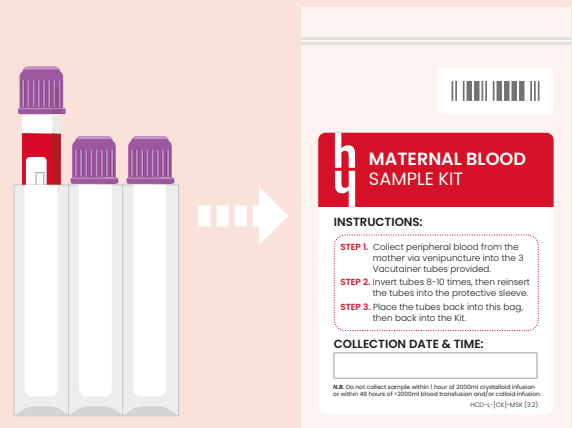
STEP 5.

Place the container into the **Specimen Bag** provided and seal. Place the sample into the Kit.

B. Collect Maternal Blood

To be performed by delivering physician or hospital lab / phlebotomy.

1. Collect peripheral blood from the mother via venipuncture into the 3 lavender-top Vacutainer tubes provided in the Maternal Blood Sample Kit.
2. Invert tubes 8 to 10 times after collection.
3. Place all three tubes back into the shipping sleeve. Place the shipping sleeve back into the bag, then place everything back into the Kit.

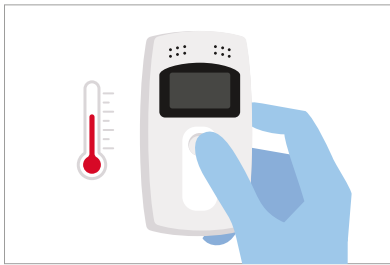


C. Package and Return to Patient

After collecting the cord blood, cord tissue and maternal blood, follow these instructions to package the sample for safe transport to Healthcord:

STEP 1.

Start the **Temperature Datalogger** by pressing the button until the ► sign appears in the display.



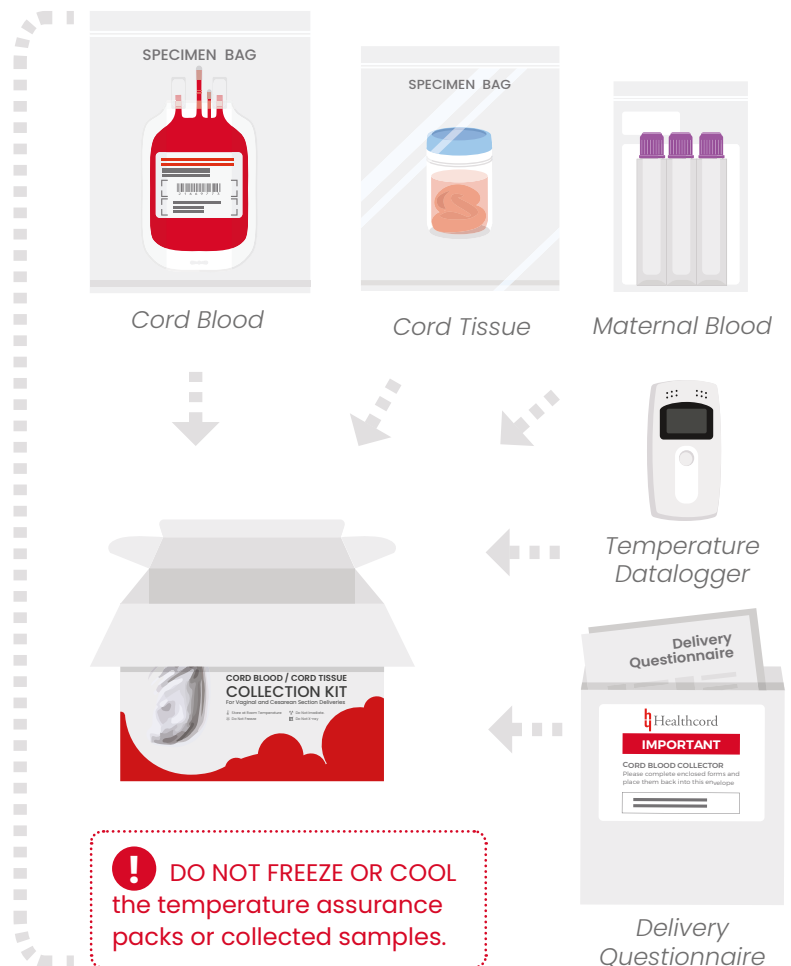
STEP 2.

Complete the **Delivery Questionnaire** and return to its envelope.



STEP 3.

Place cord blood, cord tissue, maternal blood, Temperature Datalogger, and Delivery Questionnaire into the Kit and replace the styrofoam lid.



STEP 4.

Return the Kit to the patient as soon as possible. The patient will coordinate delivery of the Kit to Healthcord.