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1. PURPOSE

To describe the cord blood collection procedure

2. SCOPE

All cord blood collections

3. RESPONSIBILITIES

Maternity ward and operating room physicians

4. REQUIRED MATERIAL

- Collection bag

5. IDENTIFIERS

N/A

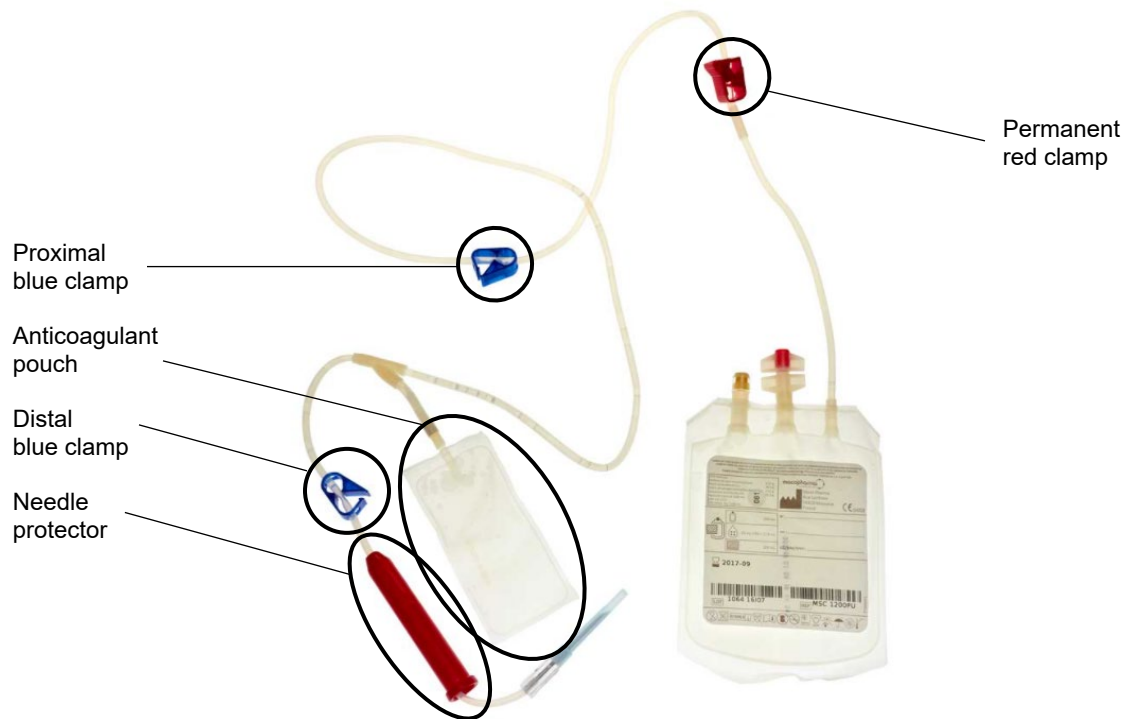


6. PROCEDURE

6.1. GENERAL

- Regarding any questions, Hema-Quebec Public Cord Blood Bank can be reached by:
 - Phone: 1-888-666-4362 p.5253;
 - Email: sangdecordon.partenaire@hema-quebec.qc.ca.
- While recruiting a potential cord blood donor, use the folder provided by Hema-Quebec that contains the PUB-00058 *Information guide on cord blood donation* (PUB-00057).
- The collection techniques must not jeopardize the health and safety of the mother and baby.
 - For mothers delivering at less than 34 weeks of gestation, the cord blood collection may be performed if the maternity ward physician considers it safe.
- A minimum of two collections per trained physician per year must be performed to remain qualified. Hema-Quebec will perform a quarterly follow-up to this effect.
- All materials required for the cord blood collection must be on a sterile field prior to use.
- The collection bag must only be manipulated aseptically.
- Collection may take a few minutes, and is performed after the delivery of the infant, and before delivery of the placenta.
- When handling the collection bag, pay special attention to the needle protector to prevent it from sliding against the needle.

Attention: Once the red clamp has been closed, it cannot be re-opened.



6.2. EVALUATION OF THE MOTHER

- Evaluate if the mother presents:
 - signs of infection such as fever (over 39°C);
 - evidence of parenteral drug use.
- If so, do not perform collection and document the reason in the « Commentaires / Écarts aux procédures » section of *Collecte de sang de cordon* form.

6.3. UMBILICAL CORD DISINFECTION

- After the birth of the baby, place a sterile field on the mother's perineal area and place the umbilical cord on this field.
- Open the plastic bag containing the collection bag and remove only the tubing.
- Visually inspect the collection bag and the tubing to ensure it is in good condition.
 - Return all defective material to Hema-Quebec.
- Close the blue clamps.

- Wipe the puncture site if the perineal area or umbilical cord are soiled.
- Disinfect the cord unidirectionally.

6.4. COLLECTION

- Insert needle into the umbilical vein.



- Open the blue clamps and lower the collection bag to allow the cord blood to flow by gravity.
Note: A blood cord unit that is more than 85 mL will have better odds to attain qualification. However, all units collected must be sent to Hema-Quebec, without exception.
- After all the cord blood has been drained, milk the cord from the placenta towards the clamp.
- Close the blue clamps, then withdraw the needle from the vein.
- Push the needle protector up to make sure it covers the needle and lock it into position.
- Break the cannula from the anticoagulant pouch.
- Open the proximal blue clamp.
- Roll the anticoagulant pouch up onto itself to empty the anticoagulant into the collection line.
- Close the proximal blue clamp and the permanent red clamp.
- Hand the blood bag over to the nurse.
- In section 2 of the *Collecte de sang de cordon* form (or the *Collecte de Sang de Cordon Dirigé*), sign with your name and medical license number.
- In the event that the collection must be interrupted or if any problems arise during collection, document details in the « Commentaires / Écarts aux procédures » section of *Collecte de sang de cordon* form.



7. APPENDICES

N/A

8. REFERENCES

- Cord blood collection bag REF MSC1200PU MacoPharma NOTEURO121 (Rev03_20190611 and Rev04_20201021)

9. LIST OF MODIFICATIONS

SECTION	MODIFICATIONS	JUSTIFICATION	ORIGIN OF INFORMATION
6.1 1 st arrow	Replacement of “at” with “by phone” Addition of “Email : sangdecordon.partenaire@hema-quebec.qc.ca”	Update of communication means.	S/O
6.3 5 th arrow	Addition of “Wipe the puncture site if the perineal area or umbilical cord are soiled”	To remove possible contaminants before disinfection. The step is already performed by the physicians recovering cord blood as it is a good practice.	S/O

Reference: OC-09329