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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

EN VIGILANCE

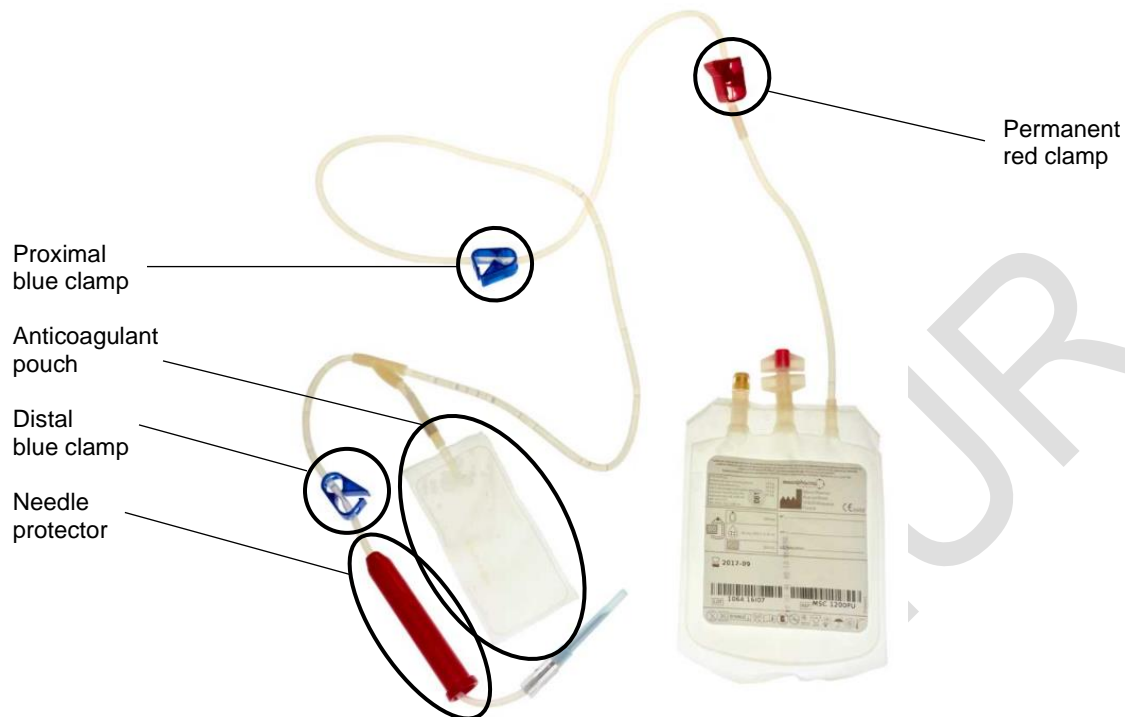


6. PROCEDURE

6.1. GENERAL

- Regarding any questions, Hema-Quebec Public Cord Blood Bank can be reached at 1-888-666-4362 p.5253.
- 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 / Écartis 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.
- 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
3	Addition of « and operating room »	The procedure is applicable to physicians of the operating room that proceed to cord blood collection following a caesarean delivery	N/A
6.1 1 st arrow	Addition of contact information for Hema-Quebec Public Cord Blood Bank	NetCord-FACT standard	NetCord-FACT Standard B3.1.6
6.1 2 nd arrow	Addition of the documentation that is used in the recruitment process of a potential cord blood donor.	Audit Citation NetCord-FACT 2022	AUD-R00121 / AEX-2806-EXP
6.4 2 nd arrow	Addition of a 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. »	Give information regarding the volume of cord blood to be collected.	N/A
References	Addition of insert revision Rev04_20201021	Update of current version	ENR-02840[5]
Reference: OC-08148			