

Maternal Fetal Medicine Clinic Staff:

1. Testing Criteria for Fetal Genotyping

- a. Fetal genotyping will be considered in cases where:
- b. The antibody is anti-D, anti-C, anti-c, anti-E, at a critical titre level, and the mother is at **16 weeks gestation** or later, OR
- c. The antibody is anti-K, regardless of titre level, and the mother is at **28 weeks gestation** or later, OR
- d. There has been a previous fetus/newborn affected by hemolytic disease of the fetus/newborn (HDFN), AND
- e. The father is heterozygous for the corresponding antigen (or unknown).

2. Request for MSP funding approval.

3. Notify Canadian Blood Services BC & Yukon, of sample collection

- a. Prior to sample collection, notify supervisors:

Name	Phone	Email
Lhevinne Ciurcovich	604-707-3449	lhevinne.ciurcovich@blood.ca
Vivian Stephens	604-707-3483	vivian.stephens@blood.ca
Heba Abukhadra	604-707-3573	Heba.abukhadra@blood.ca

- b. Provide the following details:
 - Patient’s full name and PHN
 - Date of sample collection
 - Sample collection location
- c. Forward copy of MSP approval letter by fax: 604-874-6582

4. Sample Requirements

- a. Mother: 4 X 7 mL EDTA samples
- b. Father: 1 X 7 mL EDTA sample, if testing for RhD (maternal anti-D is present)

5. Complete the International Blood Group Reference Laboratory requisition

- a. Required for mother’s sample only

6. Complete CBS – Diagnostic Services Perinatal Screen Request requisition(s)

- a. Always required for mother’s sample. Required for father sample, if testing for RhD (maternal anti-D is present).
- b. Indicate on requisition(s) **“For Fetal Genotyping. Keep Specimens at Room Temperature.”**
 - i. For mother’s requisition
 - a) Mother – Clinically Significant Antibody, for specimen collection type
 - b) Change draw instructions to draw **Four** 7mL EDTA specimens
 - ii. For father’s requisition, if testing for RhD (maternal anti-D is present)
 - a) Father, for specimen collection type

7. Complete Consent for Release of Neonatal Test Results to Canadian Blood Services

- a. Attach to International Blood Group Reference Laboratory requisition
- b. Samples not accompanied by a signed consent will not be processed**

8. Provide mother with:

- a. Completed requisitions
 - i. International Blood Group Reference Laboratory
 - ii. CBS – Diagnostic Services Perinatal Screen Request
- b. Completed Consent for Release of Neonatal Test Results to Canadian Blood Services (attached to requisition)
- c. Guidelines for hospitals for cffDNA
- d. MSP funding approval letter

9. Send parent(s) to laboratory collection site

- a. Collection can occur Monday to Wednesday only
- b. Notify CBS ASAP if predetermined sample collection date or location changes

- 10. If outside Lower Mainland, please fax Diagnostic Service the courier waybill # for tracking purposes, if applicable. Fax number: **604-874-6582**