



Edmonton, AB Diagnostic Services

Recommended Testing Perinatal Guidelines

CLINICAL SCENARIO	SAMPLE SUBMISSION TIMELINES
<p><u>First Pregnancy</u> ABO and Rh(D) typing Red Cell Antibody Screen</p>	Initial visit and at 26-28 weeks gestation
<p><u>Rh positive – previous report on file – antibody screen negative</u> ABO and Rh(D) typing Red Cell Antibody Screen</p>	Initial visit *
<p><u>Rh negative – antibody screen negative</u> ABO and Rh(D) typing Red Cell Antibody Screen</p>	Initial visit and at 26-28 weeks gestation (collect prior to RhIG injection)
<p><u>Clinically significant antibodies detected: non-critical result</u> ABO and Rh(D) typing Red Cell Antibody identification / exclusions Titration</p>	<p>Initial visit and monthly during 1st and 2nd trimester Every two weeks during 3rd trimester</p> <p>Frequency of sample request may be individualized as indicated on the result report.</p> <p>Paternal sample requested for ABO/Rh(D) and phenotype Referral to MFM is strongly recommended when antibody has reached a critical value or is rapidly rising. Patients with clinically significant antibodies and history of HDFN should be referred to MFM regardless of titre value.</p>
<p><u>Clinically significant antibodies with critical titres</u> ABO and Rh(D) typing Red Cell Antibody identification / exclusions</p>	<p>A clinically significant antibody is not routinely titred after a critical value has been reached (typically ≥ 16).</p> <p>The detection of anti-K is a critical result regardless of titre strength and titration is not routinely performed.</p> <p>Note: Antibody titration will be performed if requested by the health care provider.</p>
<p><u>Father</u> ABO and Rh(D) typing Red Cell Phenotyping</p>	When the mother has a clinically significant antibody the father’s specimen is requested by Canadian Blood Services for phenotyping to predict the risk of hemolytic disease of the fetus/newborn (HDFN).

*Additional samples may be submitted for patients at increased risk of allo-immunization (previous transfusion, fetal trauma or procedure, IV drug use, etc.)