

Prenatal Cell-free DNA Testing for Fetal RhD Genotyping

- I. Prenatal cell-free DNA testing for fetal RhD genotyping is considered **medically necessary** when:
 - A. The member is pregnant, **AND**
 - B. The member is confirmed to be RhD negative, **AND**
 - C. The member is not planning to undergo amniocentesis, **AND**
 - D. One of the following:
 1. The member's practice setting is experiencing Rho(D) immune globulin (RhIG) shortages, **OR**
 2. There is documentation of an unknown or heterozygous RhD genotype in the biological father of the fetus.
- II. Prenatal cell-free DNA testing for fetal RhD genotyping is **investigational** for all other indications.

DEFINITIONS

1. **Prenatal Cell-free DNA Testing** is a screening test that is used to determine the risk of specific genetic disorders by analyzing traces of cell-free DNA (cfDNA) in a pregnant woman's blood.
2. **Rho(D) immune globulin (RhIG)** is a medication that is used to help manage and treat Rh-negative pregnancies

REFERENCES

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2. “Paternal and Fetal Genotyping in the Management of Alloimmunization in Pregnancy”. Clinical Practice Update from The American College of Obstetricians and Gynecologists (ACOG).
https://journals.lww.com/greenjournal/abstract/2024/08000/acog_clinical_practice_update__paternal_and_fetal.34.aspx. Published August 2024.
3. Rego S, Ashimi Balogun O, Emanuel K, et al. Cell-Free DNA Analysis for the Determination of Fetal Red Blood Cell Antigen Genotype in Individuals With Alloimmunized Pregnancies. *Obstet Gynecol*. 2024;144(4):436-443.
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