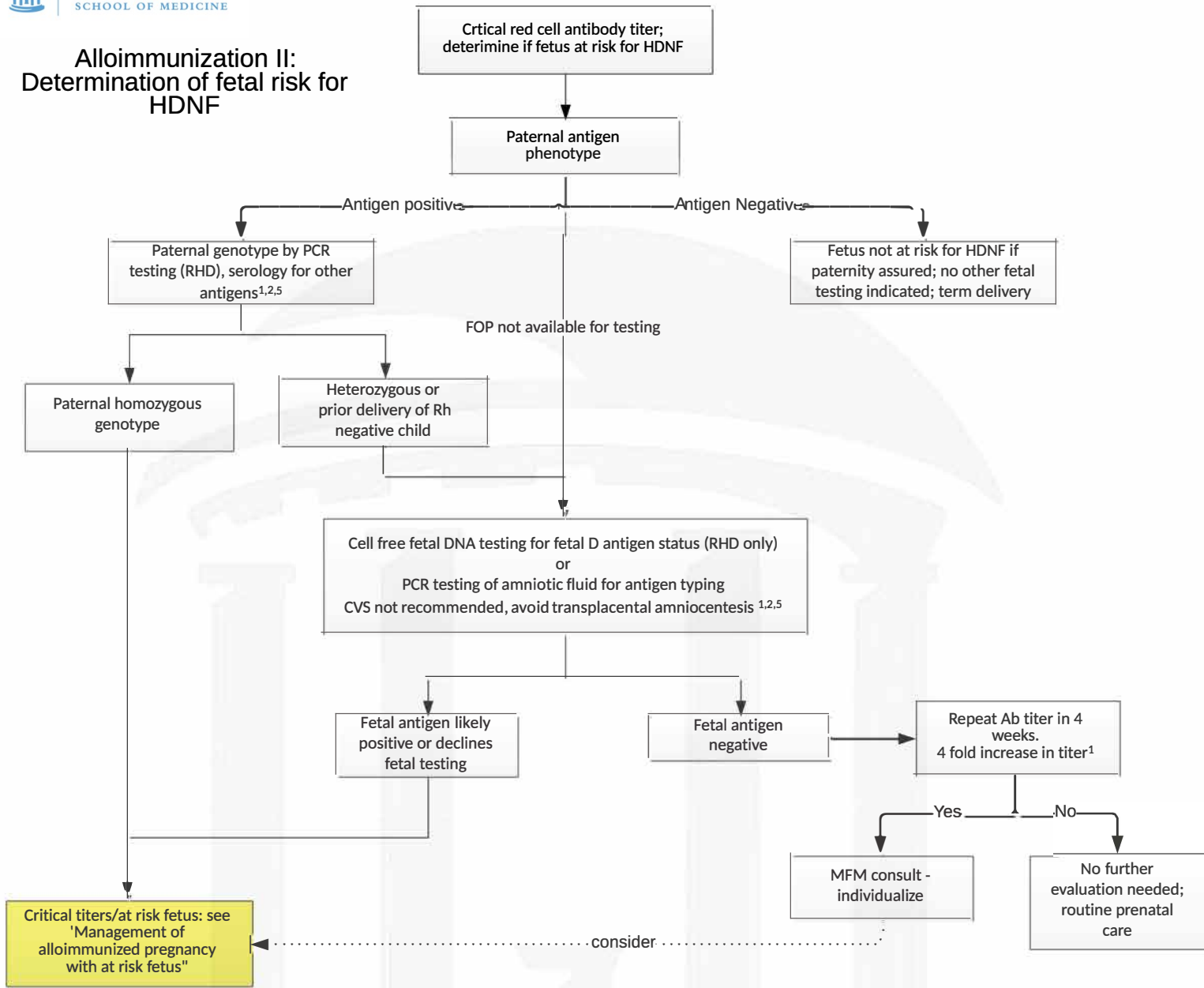


# Alloimmunization II: Determination of fetal risk for HDNF



Free fetal DNA typing (currently for D antigen only)  
Data on test performance is limited

Lab: <https://unityscreen.com/>

**Fetal DNA typing by amniocentesis:**

Sensitivity: 98.7%  
Specificity: 100%  
PPV: 100%  
NPV: 96.9%

MATERNAL PHENOTYPE	FETAL PHENOTYPE	FETAL GENOTYPE	UNITY™ FETAL Rh(D) NIPT RESULT	CLINICAL ACTION
<b>Rh negative</b>	Rh negative	<i>RHD</i> gene deletion	negative	Anti-D prophylaxis is not indicated
	Rh negative	<i>RHD</i> psi	negative	
	Rh negative	<i>RHD-CE-D</i> hybrid	negative	
<b>Rh weak D</b>	Rh negative	<i>RHD</i> rare mutation	likely positive	Anti-D prophylaxis is indicated
	Rh weak D	weak D type 1, 2, 3, etc.	likely positive	
	Rh negative	<i>RHD</i> gene present	likely positive	
<b>Rh positive</b>	Rh negative or positive	n/a	likely positive	If maternal RhD-genotyping is not performed, Anti-D prophylaxis is indicated
<b>Rh positive</b>	Rh negative or positive	n/a	likely positive	Anti-D prophylaxis is not indicated

To order paternal and/or fetal genotype testing send out lab at UNC via testing using one of the labs below

- Versiti Blood Center of Wisconsin:  
<https://versiti.org/medical-professionals/products-services/diagnostic-labs/3872>
- ARUP  
<https://arupconsult.com/content/uhemolytic-disease-newborn>

Cell free fetal DNA for RHD fetal genotype is available through the Unity Complete NIPS test with RhD)

- This test will automatically include NIPT for aneuploidy. It can also be ordered to include carrier screening for CF, SMA, HBB, HBA1, and HBA2 with reflex single-gene NIPT.
- To coordinate, we recommend placing 'Ambulatory referral to reproductive genetics' and having patient scheduled with genetic counseling and the genetic counselor will review all options, coordinate testing, address questions regarding cost / billing and follow-up with results.
- If you choose to bypass genetic counselor - order is LAB11431 "Billion To One Complete Panel". Requisition form is required. Call UNC referral testing: 984-974-1414 for further assistance.

*These algorithms are designed to assist the primary care provider in the clinical management of a variety of problems that occur during pregnancy. They should not be interpreted as a standard of care, but instead represent guidelines for management. Variation in practices should take into account such factors as characteristics of the individual patient, health resources, and regional experience with diagnostic and therapeutic modalities. The algorithms remain the intellectual property of the University of North Carolina at Chapel Hill School of Medicine. They cannot be reproduced in whole or in part without the expressed written permission of the school.*

[www.mombaby.org](http://www.mombaby.org)