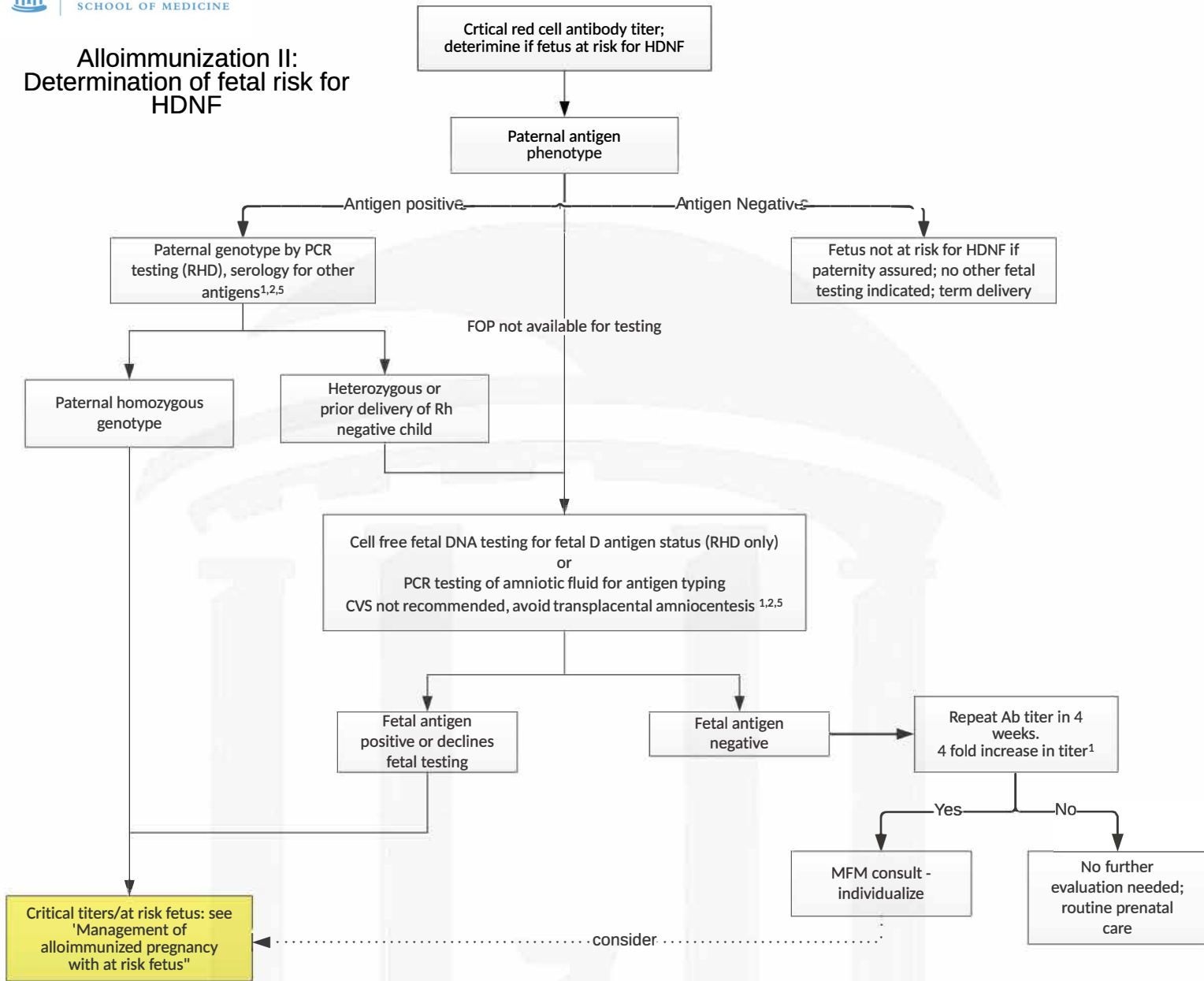


Alloimmunization II: Determination of fetal risk for HDNF



Free fetal DNA typing (currently for D antigen only)
 Sensitivity: 99.3-99.69% 1st trimester; 99.9-100% 2nd trimester
 Specificity: 96.8-98.5% 1st trimester; 98.5% 2nd trimester
 False positive or inconclusive for D antigen (D negative fetus): 1.54-1.7% 1st trimester; 1.53% 2nd trimester
 False negative (D positive fetus): 0.087-0.32% 1st trimester

Lab: www.sequenom.com
 Cost ~\$1300

Fetal DNA typing by amniocentesis:
 Sensitivity: 98.7%
 Specificity: 100%
 PPV: 100%
 NPV: 96.9%

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

- Blood Center of Wisconsin:
<https://www.bcw.edu/bcw/Diagnostics/Clinical-Areas-of-Expertise/Transfusion-Medicine/Red-Cell-Genotyping/index.htm>
- ARUP
<https://arupconsult.com/content/hemolytic-disease-newborn>

To order cell free fetal DNA for RHD fetal genotype - SensiGene (send only Monday-Thursday)

- Complete Sequenom form (www.sequenom.com), patient signs consent, please include maternal and paternal blood types
<https://www.mombaby.org/wp-content/uploads/2020/01/Sequenom-Form-Updated.pdf>
- Blood draw kit (obtain from referral testing/in genetic counselor offices)
- Draw: contact UNC referral testing: 984-974-1414
- Send to UNC referral testing – complete Epic order: 'miscellaneous DNA testing' type in 'maternal serum for cell free fetal DNA for D typing/Rh D typing – send out to Sequenom.'
- Place Sequenom form and copy of maternal insurance card with sample
- Sequenom bills the insurance

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.

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