

Alloimmunization

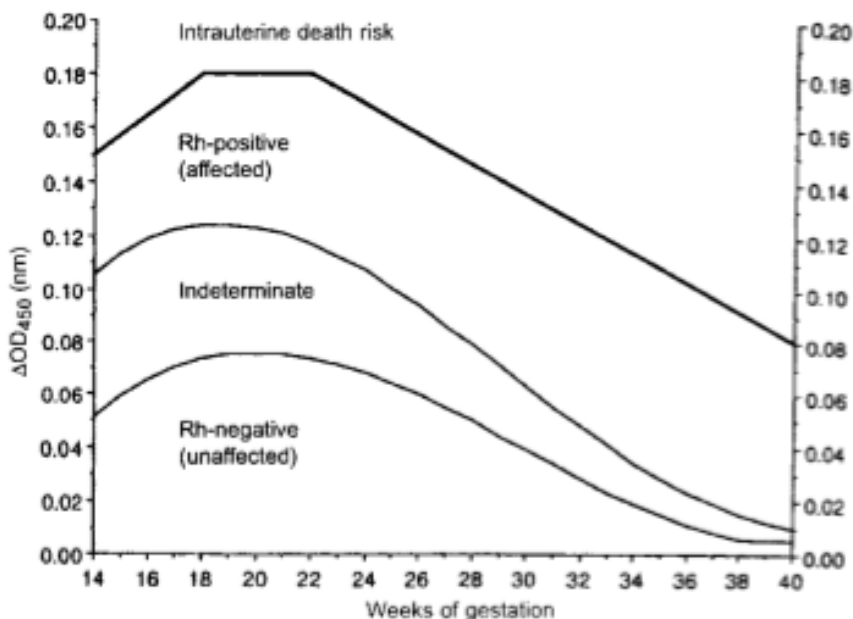
Physical Examination / Labs:

- Mom is rh negative and asymptomatic

Orders:

Diagnosis	Orders
Antibody +	<input type="checkbox"/> Antibody titer <input type="checkbox"/> Father of baby type and screen <input type="checkbox"/> PUBS or amniocentesis for fetal blood type
Titer 1:16 or less	<input type="checkbox"/> Perform titers q 4 weeks
Titer >1:32, or second Immunized pregnancy, Kell antibody	<input type="checkbox"/> Weekly to bi-weekly MCA Doppler <ul style="list-style-type: none"> ○ 18 weeks if previously affected pregnancy ○ 24 weeks others <input type="checkbox"/> If MCA >1.5 MOM do amniocentesis for OD450, plot on Liley curve <ul style="list-style-type: none"> ○ Transfuse in zone 3 ○ Deliver if zone 3 and lungs mature ○ Repeat amniocentesis q 10d – 2 weeks if zone one or two <input type="checkbox"/> Include fetal lung maturity studies if >32 weeks <input type="checkbox"/> Consider phenobarbital 30mg po tid x 1 week <input type="checkbox"/> NICU consultation <input type="checkbox"/> NST/AFI at 32 weeks

Liley curve:



CC: None

Updated: 8/2/2011

History:

- Previous blood transfusion
- History of infant with hydrops

Necessary Documentation:

- Obstetrics history, including hemorrhage, external version, when she received rhogam
- Type and screen
- Antibody titer
- Ultrasound: MCA, r/o hydrops

Notes:

- No need to continue testing if father of baby does not have antigen in question
- Severity of response in Kell sensitized patients does not correlate to titer
- Antibodies associated with HDFN:
 - Rh: D, E, c, C, C^w, e
 - Kell: K₁, K₂^{a,k}, J_s, J_{sb}
 - Duffy: Fy^a
 - MNS: M, S, s, N
 - Kidd: Jk^a
 - Di^a, Di^b, PP₁P₈, Far, Good, Lan, LW, M^a, U, W^r^a, Z^d

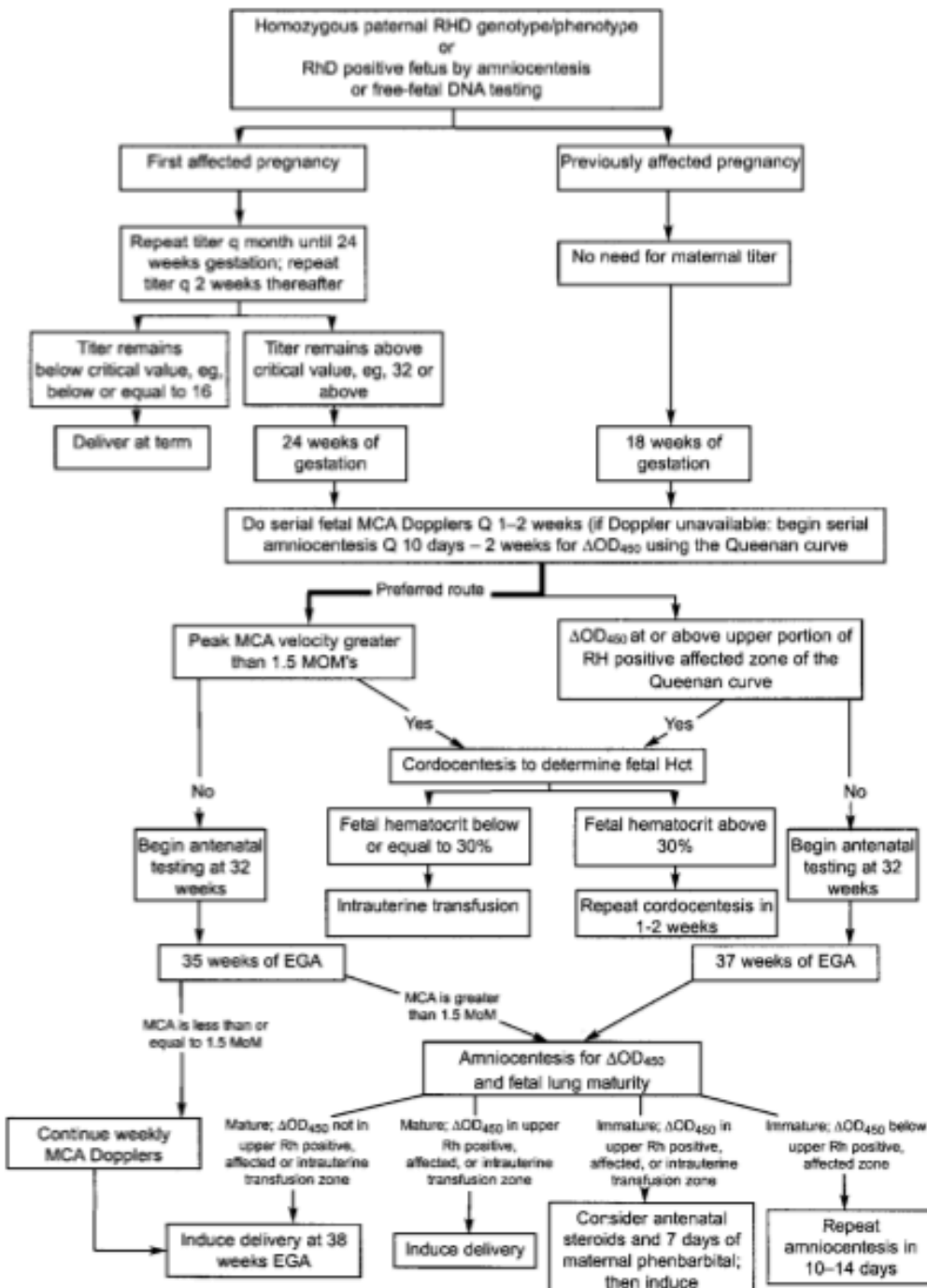


Fig. 6. Algorithm for the overall management of the pregnant patient with RhD alloimmunization. Rh, rhesus; MCA, middle cerebral artery; MoM, multiple of the median; Hct, hematocrit; EGA, estimated gestational age. *Moise. Rhesus Alloimmunization in Pregnancy. Obstet Gynecol 2008.*

Reference:

- Moise, K. Management of Rhesus Alloimmunization in Pregnancy. Clinical Expert Series. (Obstet Gynecol 2008;112:164–76)

This document is intended for educational purposes only. It does not reflect standard of care, and is not to replace clinical judgment, or expertise. It also does not represent policy for Women's Health at ARMC or RCRM.