

# Maine Medical

PARTNERS

## Women's Health

*A department of Maine Medical Center*

### Antenatal Treatment of Fetal Alloimmune Thrombocytopenia

#### General:

- a. No more severe than index case
- b. Intracranial hemorrhage (ICH) risk 7-26%
  - i. 80% antepartum
  - ii. 42% prior to 30 weeks' gestation
- c. Higher risk
  - i. Prior ICH
  - ii. Prior ICH second trimester
- d. Overall mortality rate 1-10%
- e. Long-term complications 14-26%
  - i. Neurologic sequelae
  - ii. Cerebral palsy
  - iii. Cortical blindness
  - iv. Mental retardation

#### Determine incompatibility:

- a. Mom 1b/1b
- b. Dad 1a/1a or 1a/1b
- c. Sister with incompatibility
- d. Others
  - i. 4a and 4b
  - ii. 5a and 5b
- e. Fetal amniocentesis
  - i. Option if father is heterozygous

#### Maternal Prenatal Management:

- a. No aspirin or nonsteroidal anti-inflammatories
- b. Planned delivery

#### Standard Risk: Previous child with low platelets, no ICH

1. 20 weeks IVIG 1 gram per kg per week
2. 32 weeks IVIG 2 grams per kg per week, prednisone 0.5 mg per kg per day
3. 37-38 weeks
  - a. Scheduled cesarean delivery following a completed course of betamethasone

#### High Risk: Previous child ICH third trimester or at birth

1. 12 weeks IVIG 2 grams per kg per week
2. 20 weeks IVIG 2 grams per kg per week
3. 28 weeks IVIG 2 grams per kg per week, prednisone 0.5 mg per kg per day

4. 35-36 weeks
  - a. Scheduled cesarean delivery following a completed course of betamethasone

Highest Risk: Previous child ICH in second trimester

1. 12 weeks IVIG 2 grams per kg per week
2. 20 weeks IVIG 2 grams per kg per week, prednisone 1 mg per kg per day
3. 35-36 weeks
  - a. Scheduled cesarean delivery following a completed course of betamethasone

References:

1. Pacheco LD, et al. Obstet Gynecol 2011;118:1157-63.
2. Espinoza JP, et al. Rev Obstet Gynecol 2013;6:e15-321.
3. ACOG Practice Bulletin #166. Thrombocytopenia in Pregnancy. September 2016.