## Paroxysmal Nocturnal Hemoglobinuria (PNH)







#### **Overview**

Rare, acquired hematologic disorder.

Complement-mediated hemolysis, thrombosis, bone marrow & renal failure.

### **Pregnancy Risks**

Increased maternal morbidity & mortality.

Requires multidisciplinary management.

#### **Therapies**

**Eculizumab (ECU)**: Well-studied in pregnancy.

#### Pegcetacoplan (PEG):

Newer, improved hemoglobin stabilization.



### **Case Report**

#### 24F G1 PNH

Initially on  $PEG \rightarrow ECU$ Reinstated PEG in  $3^{rd}$ trimester  $\rightarrow$  stable control



#### Anesthesia

Spinal anesthesia with intrathecal morphine, arterial line & 2 largebore IVs



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#### **Pre-op Course**

Hb: 105 g/L Plt: 126 x10<sup>9</sup>/L Last transfusion 8 wks prior to admission

Daily dalteparin for thromboprophylaxis



#### Outcome

Uncomplicated C/S, Discharge on POD3

Post-op **Hb**: 86-92 g/L **LDH** peak: 378 U/L

# Conclusions

- Neuraxial anesthesia is feasible in optimized PNH patients
- **Pegcetacoplan** may provide superior control during pregnancy
- Key considerations:
  - Continue thromboprophylaxis (e.g., dalteparin)
  - Monitor hemolysis & hematologic parameters
- Importance of **multidisciplinary planning** (Anesthesia, Hematology, Obstetrics)