Work-Up of SUSPECTED INHERITED ANEMIA in NEW IMMIGRANTS

1. Variable clinical presentation
   Screening blood work show anemia?
   - NO: Observe and follow
   - YES: Increased red cell turnover?

2. Increased red cell turnover?
   - NO: Hypoproliferative anemia
   - YES: Direct antiglobulin test positive?

3. Direct antiglobulin test positive?
   - NO: Observ and follow
   - YES: Blood smear show red cell fragments?

4. Blood smear show red cell fragments?
   - NO: Referral to CCMB Hematology
   - YES: Hemoglobin electrophoresis OR gene testing positive for hemoglobin disorder?

5. Hemoglobin electrophoresis OR gene testing positive for hemoglobin disorder?
   - NO: Referral to CCMB Hematology
   - YES: Clinical phenotype and testing suggest trait?

6. Clinical phenotype and testing suggest trait?
   - NO: Refer to Genetics for family counseling
   - YES: Referral to CCMB Hematology

Markers of increased red cell turnover:
- ↑LDH
- ↓Haptoglobin
- ↑Bilirubin
- ↑Reticulocyte count

Hypoproliferative anemia

Auto immune hemolytic anemia
- Referral to CCMB Hematology

Microangiopathic hemolytic anemia
- Referral to CCMB Hematology

Red cell membranopathy
- Referral to CCMB Hematology

Red cell enzymopathy
- Referral to CCMB Hematology

Refer to Genetics for family counseling

Recommendations for family counseling:
- Referral to CCMB Hematology

Pathways are subject to clinical judgment and actual practice patterns may not always follow the proposed steps in this pathway.