Hemoglobinopathy Screening

Patients of Southeast Asian or Mediterranean descent

CBC

MCV ≥ 80 fL

No abnormality

Abnormal hemoglobin identified

Hemoglobin A2 ≤ 3.5%, Ferritin < 12 μg/L

Iron deficiency

Paternal evaluation (CBC & Hemoglobin electrophoresis) and refer for genetic counseling

MCV < 80 fL

Serum ferritin and Hemoglobin electrophoresis

Hemoglobin A2 ≤ 3.5%, Ferritin > 12 μg/L

Probable α - thalassemia

Patients of African descent

CBC and Hemoglobin electrophoresis

MCV ≥ 80 fL and normal hemoglobin electrophoresis

No abnormality

Hemoglobin A2 > 3.5%

B - thalassemia

Abnormal
References

2. NSGC Publication, 2005: Ancestry Based Carrier Screening.

Revised September 29, 2010.

Notification to Users

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.

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