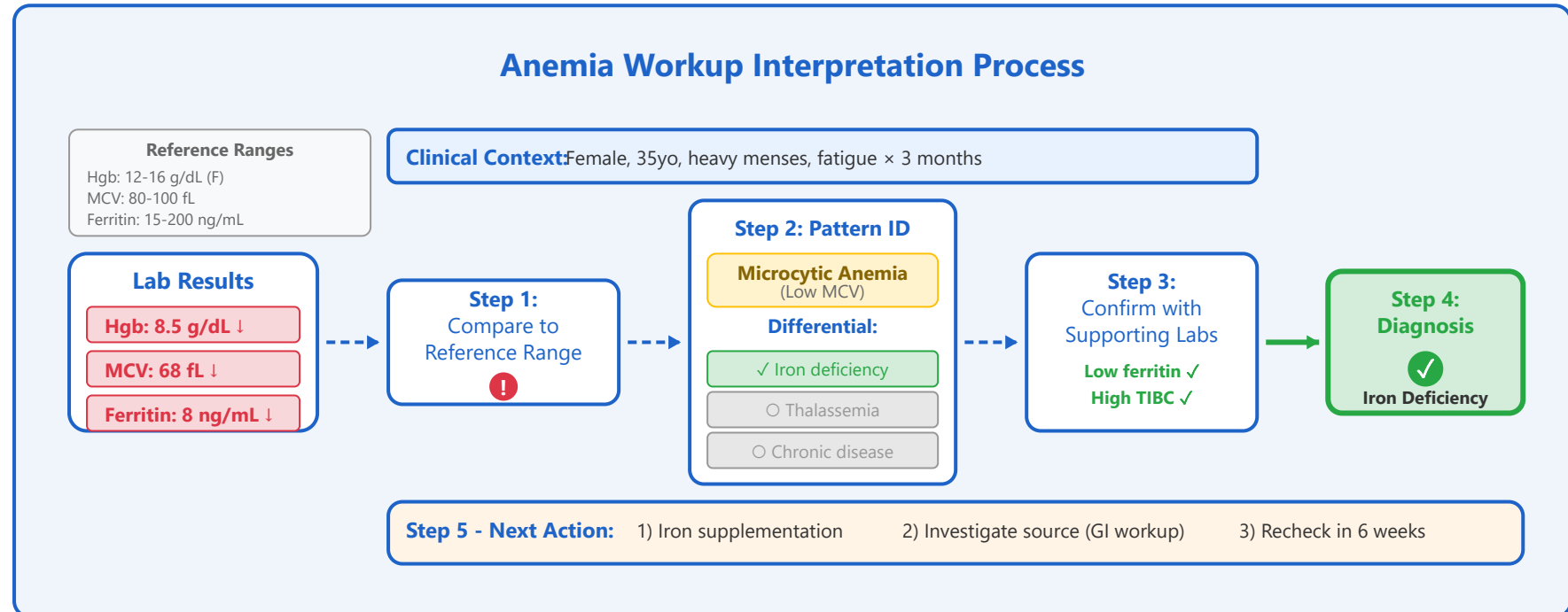


Lab Result Interpretation with CoT



CoT Reasoning Steps

Step 1: Anemia confirmed (Hgb 8.5 < 12 g/dL) → Severity: moderate

Step 2: Microcytic (MCV 68 < 80 fL) → DDx: Fe deficiency, thalassemia, chronic disease

Step 3: Low ferritin (8 ng/mL) + high TIBC → Confirms iron deficiency

Step 4: Etiology? → Female, menorrhagia likely → Consider GI loss if persists

Diagnosis: Iron deficiency anemia → Treat + investigate source

Integration: Labs + clinical picture = complete assessment