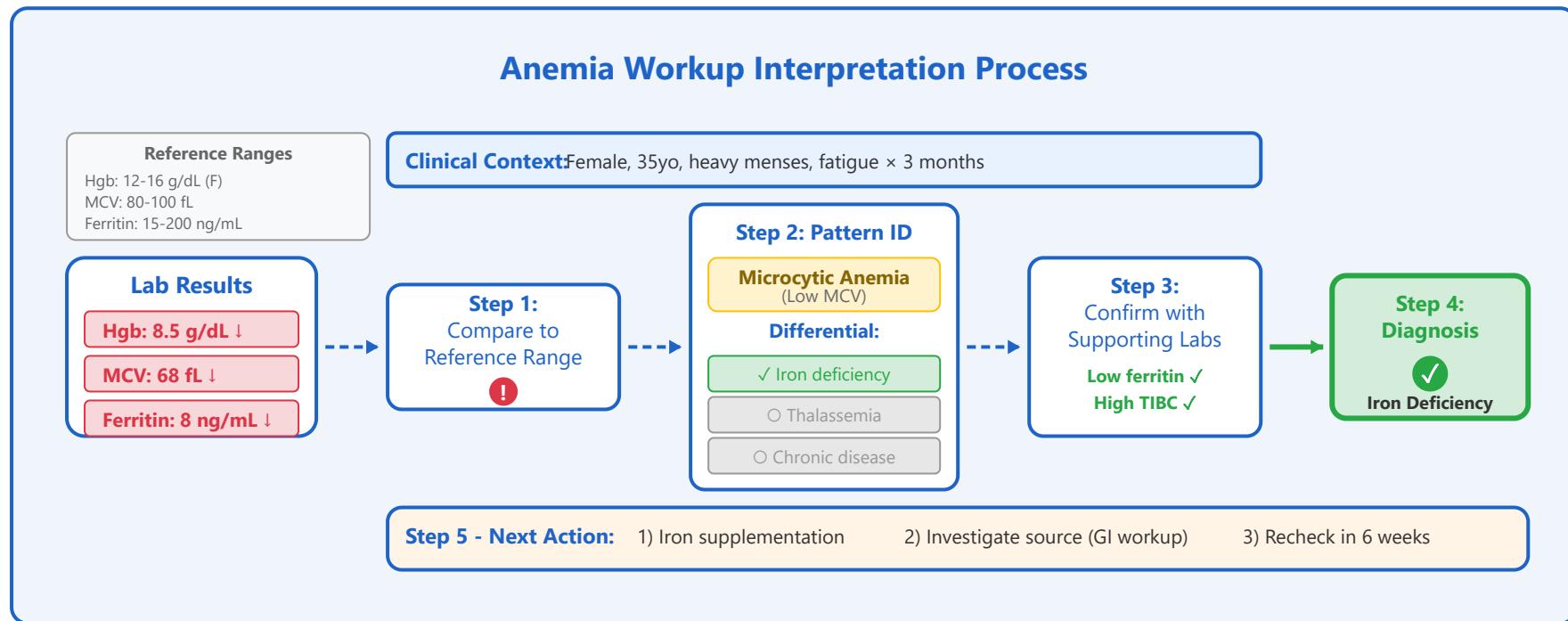


## Lab Result Interpretation with CoT



### 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