

Lab Result Interpretation with CoT

Interpretation Framework

- **Normal vs Abnormal:** Reference range comparison
- **Pattern Recognition:** Constellation of abnormalities
- **Clinical Context:** Integrate with symptoms and history
- **Differential for Findings:** What causes this pattern?

Example: Anemia Workup

Results: Hgb 8.5, MCV 68, Ferritin 8, TIBC ↑

Step 1: Anemia confirmed (low Hgb)

Step 2: Microcytic (low MCV) → think Fe, thalassemia, chronic disease

Step 3: Low ferritin + high TIBC → iron deficiency

Step 4: Cause? → GI loss, dietary, malabsorption

Diagnosis: Iron deficiency anemia → investigate source

Integration: Labs + clinical picture = complete assessment