

## Phase 2 Diagnostic Risk Layering — Martin A. Mitchell Jr.

### TIER 1 — Watchlist: Clinical Oversight Required

- eGFR = 58 / 60 — Mildly reduced kidney filtration rate
- Possible early Stage 2 CKD
- Recheck in 3 months.
- Iron (Fe) = 39 µg/dL — Below normal
- Risk of Iron Deficiency Anemia
- Review supplementation options.
- HDL Cholesterol = 19 mg/dL — Low
- Elevated cardiovascular risk
- Recommend lifestyle adjustment.
- TSH = 0.433 uIU/mL — Slightly low
- Retest full thyroid panel in 6–8 weeks.

### TIER 2 — Elevated, Context Dependent

- WBC =  $18.6 \times 10^3/\mu\text{L}$  — Likely reflects acute infection
- Retest after stabilization.
- HGB = 21.4 / HCT = 62.7 — Critically high
- Likely dehydration
- Rehydrate and retest.
- ALT = 46 U/L — Mild liver enzyme elevation
- Monitor and retest in 1–2 months.

### TIER 3 — Stable or Within Normal Limits

- Glucose = 92–110 mg/dL / HbA1c = 5.2% — Excellent glucose control.
- Vitamin D = 36.6 ng/mL — Optimal range.
- Stool Culture — Negative for pathogens.
- Vitamin B12 and Folate — Within normal range.

### TIER 4 — Pending or Genetic Review

- JAK2 Mutation — Pending
- May rule out hematologic disorders.
- Ova & Parasite Panel — Pending.