

NOTICE TO PHYSICIAN

*This report is produced by the AuRA statistical modeling platform and is intended solely as an informational reference for use by a licensed medical professional. It does not constitute a diagnosis, clinical opinion, or medical advice. All findings presented in this document must be independently reviewed and validated by a qualified physician before any clinical decision is made.*

PATIENT INFORMATION

|                   |                           |
|-------------------|---------------------------|
| Patient ID        | nhanes_79611              |
| Age               | 35                        |
| Sex               | M                         |
| BMI               | Not recorded              |
| Source Dataset    | nhanes                    |
| Diagnosis on File | population_survey (Z00.0) |

TESTS CONDUCTED

The following laboratory markers were included in this assessment. Markers listed as "Not ordered" were not available for this patient and were excluded from the statistical model input.

Complete Blood Count (CBC)

|                                   |         |
|-----------------------------------|---------|
| White Blood Cell Count (WBC)      | Ordered |
| Red Blood Cell Count (RBC)        | Ordered |
| Hemoglobin                        | Ordered |
| Hematocrit                        | Ordered |
| Platelet Count                    | Ordered |
| Mean Corpuscular Volume (MCV)     | Ordered |
| Mean Corpuscular Hemoglobin (MCH) | Ordered |
| Red Cell Distribution Width (RDW) | Ordered |

Inflammatory Markers

|                                      |             |
|--------------------------------------|-------------|
| Erythrocyte Sedimentation Rate (ESR) | Not ordered |
| C-Reactive Protein (CRP)             | Not ordered |

Autoantibody Panel

No autoantibody data was available for this patient.

STATISTICAL MODEL OUTPUT

|                     |                                    |
|---------------------|------------------------------------|
| Model               | Aura Hierarchical Dual-Scorer v1.0 |
| Confidence Tier     | High (>80%)                        |
| Estimated Category  | Healthy / No Autoimmune Pattern    |
| Category Confidence | 89.9%                              |

Category Probability Distribution:



|                                 |       |
|---------------------------------|-------|
| Healthy / No Autoimmune Pattern | 89.9% |
| Systemic Autoimmune             | 5.7%  |
| Gastrointestinal Autoimmune     | 2.4%  |
| Endocrine Autoimmune            | 2.0%  |

LABORATORY RESULTS

| Test           | Result | Units                | Reference Range | Flag        |
|----------------|--------|----------------------|-----------------|-------------|
| WBC            | 4.6    | ×10 <sup>3</sup> /μL | 4.5 – 11.0      |             |
| RBC            | 4.56   | ×10 <sup>6</sup> /μL | 4.2 – 5.4       |             |
| Hemoglobin     | 14.1   | g/dL                 | 12.0 – 17.5     |             |
| Hematocrit     | 41.1   | %                    | 37.0 – 52.0     |             |
| Platelet Count | 218    | ×10 <sup>3</sup> /μL | 150 – 400       |             |
| MCV            | 90.7   | fL                   | 80.0 – 100.0    |             |
| MCH            | 34.5   | pg                   | 27.0 – 33.0     | H           |
| RDW            | 12.4   | %                    | 11.5 – 14.5     |             |
| ESR            | —      | mm/hr                | —               | Not ordered |
| CRP            | —      | mg/dL                | —               | Not ordered |

CLINICAL NOTES

Summary

No autoimmune pattern detected (90% confidence). Lab values fall within normal ranges across all monitored markers.

Recommended Action

Routine follow-up with primary care physician.