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	harvard_00227
Age	43
Sex	F
BMI	Not recorded
Source Dataset	harvard
Diagnosis on File	Rheumatoid Arthritis (M06.9)

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)	*Not ordered*
Red Blood Cell Count (RBC)	*Not ordered*
Hemoglobin	*Not ordered*
Hematocrit	*Not ordered*
Platelet Count	*Not ordered*
Mean Corpuscular Volume (MCV)	*Not ordered*
Mean Corpuscular Hemoglobin (MCH)	*Not ordered*
Red Cell Distribution Width (RDW)	*Not ordered*

Inflammatory Markers

Erythrocyte Sedimentation Rate (ESR)	Ordered
C-Reactive Protein (CRP)	Ordered

Autoantibody Panel

An autoantibody panel was included. Results are in Section 5.

STATISTICAL MODEL OUTPUT

Model	Aura Hierarchical Dual-Scorer v1.0
Confidence Tier	High (>80%)
Estimated Category	Systemic Autoimmune
Category Confidence	95.8%
Estimated Disease	Reactive Arthritis
Disease Model Confidence	77.1%

Category Probability Distribution:

Systemic Autoimmune	**95.8%**
Healthy / No Autoimmune Pattern	3.7%
Endocrine Autoimmune	0.3%
Gastrointestinal Autoimmune	0.2%

LABORATORY RESULTS

Test	Result	Units	Reference Range	Flag
WBC	—	$\times 10^3/\mu L$	—	Not ordered
RBC	—	$\times 10\blacksquare/\mu L$	—	Not ordered
Hemoglobin	—	g/dL	—	Not ordered
Hematocrit	—	%	—	Not ordered
Platelet Count	—	$\times 10^3/\mu L$	—	Not ordered
MCV	—	fL	—	Not ordered
MCH	—	pg	—	Not ordered
RDW	—	%	—	Not ordered
ESR	**34**	mm/hr	0.0 – 20.0	**H**
CRP	**12.7**	mg/dL	0.0 – 1.0	**H**

AUTOANTIBODY PANEL

Test	Result
ANA	Negative
Anti-dsDNA	Negative
HLA-B27	Positive
Anti-Sm	Not tested
Anti-Ro/SSA	Not tested
Anti-La/SSB	Positive
RF (Rheumatoid Factor)	29.8 IU/mL
Anti-CCP	Not tested
Complement C3	162.0 mg/dL
Complement C4	53.0 mg/dL

CLINICAL NOTES

Summary

Systemic autoimmune pattern detected (96% confidence). Findings are consistent with systemic inflammation — consider evaluation for lupus, rheumatoid arthritis, Sjögren's syndrome, or related conditions.

Recommended Action

Referral to Rheumatology. Consider: ANA panel, anti-dsDNA, RF, anti-CCP, complement levels (C3/C4), joint X-rays.