

SECTION 1: PATIENT DEMOGRAPHICS

PATIENT ID harvard_03190	AGE 37	SEX F	BMI N/A
SOURCE DATASET harvard	TRUE DIAGNOSIS Reactive Arthritis	ICD-10 M02.9	CATEGORY Systemic

SECTION 2: PREDICTION

SYSTEMIC AUTOIMMUNEConfidence: **95.8%** · High (>80%)**✓ CORRECT**

CATEGORY	PROBABILITY
Systemic Autoimmune	95.8%
Healthy	3.7%
Endocrine Autoimmune	0.3%
Gastrointestinal	0.2%

Predicted Disease: Reactive Arthritis **Disease Confidence:** 76.2%

SECTION 3: LAB PANEL

MARKER	VALUE	UNIT	REF RANGE	FLAG	Z-SCORE
WBC	—	$\times 10^3/\mu\text{L}$	—	MISSING	—
RBC	—	$\times 10^3/\mu\text{L}$	—	MISSING	—
Hemoglobin	—	g/dL	—	MISSING	—
Hematocrit	—	%	—	MISSING	—
Platelets	—	$\times 10^3/\mu\text{L}$	—	MISSING	—
MCV	—	fL	—	MISSING	—
MCH	—	pg	—	MISSING	—
RDW	—	%	—	MISSING	—
ESR	23	mm/hr	0.0–20.0	H	—
CRP	12.7	mg/dL	0.0–1.0	H	3.26

SECTION 4: AUTOANTIBODY PANEL

MARKER	RESULT
ANA	Not Tested
Anti-dsDNA	Positive

HLA-B27	<i>Not Tested</i>
Anti-Sm	Negative
Anti-Ro/SSA	<i>Not Tested</i>
Anti-La/SSB	Positive
RF	1.1 IU/mL
Anti-CCP	29.3 U/mL
C3	<i>Not Tested</i>
C4	42.0 mg/dL

SECTION 5: CLINICAL INTERPRETATION

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.

Patient-Friendly Explanation

Your results suggest patterns seen in conditions like lupus or rheumatoid arthritis. These are treatable — early evaluation matters.

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