

MERIDIAN HEALTH LABORATORIES

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Accreditation: CAP / CLIA

Report Generated: 02/15/2026 08:42 AM

LABORATORY REPORT — COMPLETE BLOOD COUNT WITH DIFFERENTIAL

Patient Name:	Johnson, Marcus T.	DOB / Age:	08/14/1983 (42 yrs)	Sex:	Male
Patient ID:	MHL-2026-084719	Accession #:	CBC-26-0215-00341	Provider:	Dr. A. Patel NPI 124587 3096
Specimen:	Whole Blood (EDTA)	Collected:	02/15/2026 06:30 AM	Received:	02/15/2026 07:05 AM
Ordering Facility:	Springfield Primary Care, 500 Oak Ave, Springfield VA	Reported:	02/15/2026 08:42 AM		

SECTION 1 — WHITE BLOOD CELL COUNT

TEST NAME	RESULT	UNITS	REFERENCE RANGE	FLAG	NOTES
White Blood Cell Count (WBC)	11.8	10 ³ /mcL	4.5 - 11.0	H	Mildly elevated; clinical correlation advised

SECTION 2 — RED BLOOD CELL INDICES

TEST NAME	RESULT	UNITS	REFERENCE RANGE	FLAG	NOTES
Red Blood Cell Count (RBC)	4.65	M/mcL	4.20 - 5.80		
Hemoglobin (Hgb)	11.2	g/dL	13.5 - 17.5	L	Below normal range
Hematocrit (Hct)	33.6	%	41.0 - 53.0	L	Consistent with mild anemia
Mean Corpuscular Volume (MCV)	71.2	fL	80.0 - 100.0	L	Microcytic pattern
Mean Corpuscular Hemoglobin (MCH)	24.1	pg	27.0 - 33.0	L	Hypochromic
Mean Corpuscular Hemoglobin Concentration (MCHC)	31.4	g/dL	32.0 - 36.0	L	Low MCHC; iron deficiency pattern
Red Cell Distribution Width (RDW)	16.8	%	11.5 - 14.5	H	Increased anisocytosis

SECTION 3 — PLATELET INDICES

TEST NAME	RESULT	UNITS	REFERENCE RANGE	FLAG	NOTES
Platelet Count (PLT)	388	10 ³ /mcL	150 - 400		Upper normal
Mean Platelet Volume (MPV)	10.2	fL	7.5 - 12.5		

SECTION 4 — WHITE BLOOD CELL DIFFERENTIAL

TEST NAME	RESULT	UNITS	REFERENCE RANGE	FLAG	NOTES
Neutrophils (NEUT)	74.2	%	50.0 - 70.0	H	May suggest acute infection or stress
Lymphocytes (LYMPH)	16.4	%	20.0 - 40.0	L	Relative lymphopenia
Monocytes (MONO)	6.8	%	2.0 - 10.0		
Eosinophils (EOS)	1.9	%	1.0 - 6.0		
Basophils (BASO)	0.7	%	0.0 - 1.0		
Absolute Neutrophil Count (ANC)	8.76	10 ³ /mcL	1.80 - 7.70	H	Consistent with elevated WBC
Absolute Lymphocyte Count (ALC)	1.94	10 ³ /mcL	1.00 - 4.80		

SECTION 5 — RETICULOCYTE COUNT

TEST NAME	RESULT	UNITS	REFERENCE RANGE	FLAG	NOTES
Reticulocyte Count (RETIC)	2.8	%	0.5 - 2.5	H	Bone marrow responding to anemia
Absolute Reticulocyte Count (RETIC#)	130.2	10 ³ /mcL	20.0 - 115.0	H	Increased erythropoietic activity

CLINICAL INTERPRETATION (Automated Morphology Comment)

Red Cell Morphology: Microcytic, hypochromic red cells consistent with iron deficiency anemia or thalassemia trait. Elevated RDW (16.8%) suggests a mixed population or ongoing response to treatment.

White Cell Comment: Total WBC mildly elevated at $11.8 \times 10^3/\text{mcL}$ with neutrophilia (74.2%). This pattern may be associated with acute bacterial infection, physiologic stress, or early inflammatory process. Toxic granulation not detected on automated differential.

Platelet Comment: Platelet count and MPV within reference range.

Reticulocyte Comment: Elevated reticulocyte count indicates active bone marrow response. Combined with low Hgb/Hct and microcytic/hypochromic indices, findings are most consistent with iron deficiency anemia with compensatory reticulocytosis. Recommend: serum ferritin, TIBC, and peripheral smear review.

REFERENCE RANGE NOTES

Reference ranges are for adult males aged 18-65. Values may differ for females, pediatric patients, and high-altitude populations. Ranges sourced from NHANES 2017-2018 (CBC_J dataset) and CLSI EP28-A3c guidelines. Flags: H = above upper limit, L = below lower limit, HH/LL = critical value requiring immediate notification.

Electronically verified by: Dr. Patricia H. Nguyen, MD, PhD — Clinical Pathologist
Electronic signature on file. Transmitted 02/15/2026 08:42 AM.

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