

Laboratory Report

Comprehensive Panel – Alfa Labs

Shadia Osman Abdalgafar Elsaim

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Abnormal – Requiring Attention (10)

Test	Result	Reference	Status	Clinical Significance
WBC	2.5 x10 ³ /μL	4-11	LOW	Leucopenia
ANC	0.7 x10 ³ /μL	2-7	CRITICAL	Moderate neutropenia
Lymphocytes	52% %	20-45%	HIGH	Relative lymphocytosis
Monocytes	19% %	1-10%	HIGH	Relative monocytosis
Urea	12 mg/dL	17-43	LOW	Below reference. Low urea can indicate low protein intake or liver issues. Consistent with sarcopenia pattern.
Creatinine	0.45 mg/dL	0.63-1.16	LOW	Below reference – consistent with sarcopenia (low muscle mass).
Uric Acid	1.9 mg/dL	2.6-6	LOW	Below reference. Low uric acid consistent with poor nutritional status.
Magnesium	1.8 mg/dL	1.9-2.5	LOW	Below reference. Low Mg worsens seizures. Supplementation recommended.
Zinc	43 μg/dL	50-120	LOW	Below reference. Zinc deficiency impairs immune function and wound healing.
Vitamin B12 (cyanocobalamin)	987 pg/mL	180-914	HIGH	Slightly elevated – likely from supplementation. Not clinically concerning.

Normal – Reassuring (13)

Test	Result	Comment
Hemoglobin	12.3 g/dL	Normal
Hematocrit	36.7 %	Normal
Platelets	150 x10 ³ /μL	Normal
RBC	4.25 x10 ⁶ /μL	Normal.
MCV	86.4 fL	Normal.
MCH	28.9 pg	Normal.
MCHC	33.5 g/dL	Normal.
RDW	13.2 %	Normal.
Calcium	8.8 mg/dL	At lower end of normal range.

Test	Result	Comment
Phosphorus	3.9 mg/dL	Normal.
Ferritin	75.8 ng/mL	Normal iron stores.
Folic Acid	13.07 ng/ml	Normal folate status.
Vitamin D	35.9 ng/mL	Sufficient. Maintain supplementation.

Notes

Full panel: CBC, chemistry, hormones, immunology, and urine analysis. Urine culture: No growth.