

# CLINICAL LABORATORY SERVICES

3500 Gaston Avenue | Dallas, TX 75246 | (214) 555-4500

CLIA ID: 45D0987654 | CAP ID: 7654321-01

## PATIENT

CHEN, DAVID

DOB: 1985-08-14 Sex: M

MRN: DAVID\_C

## SPECIMEN

Accession: 26025-141317

Collected: 2024-10-10 07:45

Received: 2024-10-10 08:15

## ORDERING PHYSICIAN

Dr. Michelle Park

Houston Gastroenterology Assoc

Report Status: FINAL

## COMPLETE BLOOD COUNT (CBC)

Test Name	Result	Flag	Units	Reference Interval
WBC	8.2		x10 <sup>9</sup> /L	4.5-11.0
RBC	4.6		x10 <sup>12</sup> /L	4.5-5.5
Hemoglobin	13.2	L	g/dL	13.5-17.5
Hematocrit	40.1		%	38.8-50
MCV	87		fL	80-100
MCH	28.7		pg	27-33
Platelets	285		x10 <sup>9</sup> /L	150-400

## COMPREHENSIVE METABOLIC PANEL (CMP)

Test Name	Result	Flag	Units	Reference Interval
Sodium	140		mEq/L	136-145
Potassium	4.2		mEq/L	3.5-5.0
Chloride	101		mEq/L	98-106
CO2	25		mEq/L	23-29
BUN	15		mg/dL	7-20
Creatinine	1.0		mg/dL	0.7-1.3
Glucose	95		mg/dL	70-100
Calcium	9.4		mg/dL	8.5-10.5
Total Protein	7.0		g/dL	6.0-8.3
Albumin	3.8		g/dL	3.5-5.0
Total Bilirubin	0.8		mg/dL	0.1-1.2
Alkaline Phosphatase	68		U/L	44-147
AST	22		U/L	10-40
ALT	25		U/L	7-56

## INFLAMMATORY MARKERS

Test Name	Result	Flag	Units	Reference Interval
CRP (C-Reactive Protein)	18	H	mg/L	0-5
ESR (Erythrocyte Sedimentation Rate)	28	H	mm/hr	0-15

## GI-SPECIFIC MARKERS

Test Name	Result	Flag	Units	Reference Interval
Fecal Calprotectin	450	H	ug/g	<50

PRE-BIOLOGIC SCREENING - TUBERCULOSIS

Test Name	Result	Flag	Units	Reference Interval
QuantiFERON-TB Gold Plus	Negative			Negative

Comment: TB screening complete and negative. Patient cleared to initiate TNF inhibitor therapy.

PRE-BIOLOGIC SCREENING - HEPATITIS B

Test Name	Result	Flag	Units	Reference Interval
Hepatitis B Surface Antigen (HBsAg)	Non-reactive			Non-reactive
Hepatitis B Core Antibody (anti-HBc)	Non-reactive			Non-reactive
Hepatitis B Surface Antibody (anti-HBs)	>100		mIU/mL	>10 (immune)

Comment: Hepatitis B screening complete. Patient is HBV negative with immunity from prior vaccination. CLEARED for biologic therapy.

PRE-BIOLOGIC SCREENING - HEPATITIS C

Test Name	Result	Flag	Units	Reference Interval
Hepatitis C Antibody	Non-reactive			Non-reactive

THIOPURINE MONITORING

Test Name	Result	Flag	Units	Reference Interval
TPMT Genotype	*1/*1			Wild type
6-TGN (thioguanine nucleotides)	285		pmol/8x10^8 RBC	235-450 (therapeutic)
6-MMP	3200		pmol/8x10^8 RBC	<5700

Comment: Patient has achieved therapeutic 6-TGN levels, confirming adequate azathioprine exposure. Despite therapeutic drug levels, disease remains active, supporting escalation to biologic therapy.

INTERPRETATION

Pre-biologic screening complete. QuantiFERON-TB Gold negative. Hepatitis B panel indicates immunity from prior vaccination (HBsAg negative, anti-HBs positive). No contraindication to biologic therapy from infectious disease standpoint. Patient cleared for TNF-alpha inhibitor initiation.