

Report	Result	Ref. Range	Units		Status	Lab
TESTOSTERONE, TOTAL, LC/MS/MS	330	250-1100	ng/dL		Final	SLI
TESTOSTERONE, FREE	47.6	46.0-224.0	pg/mL		Final	SLI
<b>TESTOSTERONE,BIOAVAILABLE</b>	<b>93.7</b>	<b>110.0-575.0</b>	<b>ng/dL</b>	<b>Low</b>	<b>Final</b>	<b>SLI</b>
SEX HORMONE BINDING GLOBULIN	29	10-50	nmol/L		Final	SLI
ALBUMIN,SERUM	4.3	3.6-5.1	g/dL		Final	SLI

Report	Result	Ref. Range	Units		Status	Lab
PSA, TOTAL	0.6	< OR = 4.0				

Note to Patient				The results of your recent lab tests are within normal limits. V		
Report	Result	Ref. Range	Units			
ESTRADIOL	31	< OR = 39	pg/mL	Normal		Final

Report	Result	Ref. Range	Units		Status	Lab
LH	1.7	1.5-9.3	mIU/mL	Normal	Final	EN

Report	Result	Ref. Range	Units		Status	Lab
FSH	2.1	1.6-8.0	mIU/mL	Normal	Final	EN

Report	Result	Ref. Range	Units		Status	Lab
VITAMIN B12	463	200-1100	pg/mL	Normal	Final	EN

Report	Result	Ref. Range	Units		Status	Lab
<b>WHITE BLOOD CELL COUNT</b>	<b>3.7</b>	<b>3.8-10.8</b>	<b>Thousand/uL</b>	<b>Low</b>	<b>Final</b>	<b>EN</b>
RED BLOOD CELL COUNT	4.65	4.20-5.80	Million/uL	Normal	Final	EN
HEMOGLOBIN	14.6	13.2-17.1	g/dL	Normal	Final	EN
HEMATOCRIT	42.4	38.5-50.0	%	Normal	Final	EN
MCV	91.2	80.0-100.0	fL	Normal	Final	EN
MCH	31.4	27.0-33.0	pg	Normal	Final	EN
MCHC	34.4	32.0-36.0	g/dL	Normal	Final	EN
RDW	13.4	11.0-15.0	%	Normal	Final	EN
PLATELET COUNT	192	140-400	Thousand/uL	Normal	Final	EN
MPV	11.0	7.5-12.5	fL	Normal	Final	EN
ABSOLUTE NEUTROPHILS	1739	1500-7800	cells/uL	Normal	Final	EN
ABSOLUTE LYMPHOCYTES	1262	850-3900	cells/uL	Normal	Final	EN
ABSOLUTE MONOCYTES	577	200-950	cells/uL	Normal	Final	EN
ABSOLUTE EOSINOPHILS	111	15-500	cells/uL	Normal	Final	EN
ABSOLUTE BASOPHILS	11	0-200	cells/uL	Normal	Final	EN
ABSOLUTE NUCLEATED RBC	0	0	cells/uL	Normal	Final	EN
NEUTROPHILS	47		%	Normal	Final	EN

LYMPHOCYTES	34.1		%	Normal	Final	EN
MONOCYTES	15.6		%	Normal	Final	EN
EOSINOPHILS	3.0		%	Normal	Final	EN
BASOPHILS	0.3		%	Normal	Final	EN

Report	Result	Ref. Range	Units		Status	Lab
T3, FREE	3.1	2.3-4.2	pg/mL	Normal	Final	EN

Report	Result	Ref. Range	Units		Status	Lab
T4, FREE	1.4	0.8-1.8	ng/dL	Normal	Final	EN

Report	Result	Ref. Range	Units		Status	Lab
TSH	3.53	0.40-4.50	mIU/L	Normal	Final	EN

Report	Result	Ref. Range	Units		Status	Lab
	24	30-100	ng/mL	Low	Final	SLI
VITAMIN D, 25-OH, TOTAL	<p>25-OHD3 indicates both endogenous production and supplementation. 25-OHD2 is an indicator of exogenous sources, such as diet or supplementation. Therapy is based on measurement of Total 25-OHD, with levels &lt;20 ng/mL indicative of Vitamin D deficiency, while levels between 20 ng/mL and 30 ng/mL suggest insufficiency. Optimal levels are &gt; or = 30 ng/mL.</p>					
	24	SEE BELOW	ng/mL		Final	SLI
	Reference Range: Not established					
VITAMIN D, 25-OH, D3						
VITAMIN D, 25-OH, D2	<4	SEE BELOW	ng/mL		Final	SLI
	Reference Range: Not established					

Report	Result	Ref. Range	Units		Status	Lab
	5.7	<5.7	% of total Hgb	High	Final	EN
HEMOGLOBIN A1C	<p>For someone without known diabetes, a hemoglobin A1c value between 5.7% and 6.4% is consistent with prediabetes and should be confirmed with a follow-up test.</p>					

Note to Patient				I am not sure why your liver is irritated, we may want to retest, I		
Report	Result	Ref. Range	Units		Status	Lab
GLUCOSE	88	65-99	mg/dL	Normal	Final	EN
	Fasting reference interval					
UREA NITROGEN (BUN)	24	7-25	mg/dL	Normal	Final	EN
CREATININE	1.45	0.60-1.35	mg/dL	High	Final	EN
EGFR NON-AFR. AMERICAN	56	> OR = 60	mL/min/1.73m2	Low	Final	EN
EGFR AFRICAN AMERICAN	65	> OR = 60	mL/min/1.73m2	Normal	Final	EN
BUN/CREATININE RATIO	17	6-22	(calc)	Normal	Final	EN
SODIUM	137	135-146	mmol/L	Normal	Final	EN
POTASSIUM	4.8	3.5-5.3	mmol/L	Normal	Final	EN
CHLORIDE	101	98-110	mmol/L	Normal	Final	EN
CARBON DIOXIDE	23	20-31	mmol/L	Normal	Final	EN
CALCIUM	9.5	8.6-10.3	mg/dL	Normal	Final	EN
PROTEIN, TOTAL	6.9	6.1-8.1	g/dL	Normal	Final	EN
ALBUMIN	4.4	3.6-5.1	g/dL	Normal	Final	EN
GLOBULIN	2.5	1.9-3.7	g/dL (calc)	Normal	Final	EN
ALBUMIN/GLOBULIN RATIO	1.8	1.0-2.5	(calc)	Normal	Final	EN
BILIRUBIN, TOTAL	0.6	0.2-1.2	mg/dL	Normal	Final	EN
ALKALINE PHOSPHATASE	39	40-115	U/L	Low	Final	EN
AST	58	10-40	U/L	High	Final	EN
ALT	125	9-46	U/L	High	Final	EN

Note to Patient			This looks pretty good
Report	Result	Ref. Range	Units
CHOLESTEROL, TOTAL	203	<200	mg/dL
HDL CHOLESTEROL	60	>40	mg/dL
TRIGLYCERIDES	143	<150	mg/dL
LDL-CHOLESTEROL	117		mg/dL (calc)
	Reference range: <100		
	Desirable range <100 mg/dL for primary prevention; <70 mg/dL for patients with CHD or diabetic patients with > or = 2 CHD risk factors.		
	LDL-C is now calculated using the Martin-Hopkins calculation, which is a validated novel method providing better accuracy than the Friedewald equation in the estimation of LDL-C. Martin SS et al. JAMA. 2013;310(19): 2061-2068 (http://education.QuestDiagnostics.com/faq/FAQ164)		
CHOL/HDL-C RATIO	3.4	<5.0	(calc)
NON HDL CHOLESTEROL	143	<130	mg/dL (calc)

For patients with diabetes plus 1 major ASCVD risk factor, treating to a non-HDL-C goal of <100 mg/dL (LDL-C of <70 mg/dL) is considered a therapeutic option.