





Legend

Result Value Colors

Normal

Result is within the clinical reference range

Result Value Labels

H

Above High Normal

A

Abnormal

Comments

FASTING: YES FASTING: YES

Result Value Reference Range Lab

Cardiovascular Health

Cholesterol & Triglycerides

Lipid Panel with Ratios

Cholesterol, Total

CHOLESTEROL, TOTAL	275 H 03/22/23		<200 mg/dL	SKY
TRIGLYCERIDES	03/22/23		<150 mg/dL	SKY
CHOL/HDLC RATIO	2.7 03/22/23		<5.0 (calc)	SKY
LDL/HDL RATIO	1.6 03/22/23		(calc)	SKY
Comments	Below average Risk: Average Risk: Moderate Risk: High Risk:	<2.34 2.35-4.12 4.13-5.56 >5.57		
NON HDL CHOLESTEROL	174 H 03/22/23		<130 mg/dL (calc)	SKY





Result	Value	Reference Range	Lab
Comments	-	betes plus 1 major ASCVD risk non-HDL-C goal of <100 mg/dL	
	· · · · · · · · · · · · · · · · · · ·	is considered a therapeutic	
	option.		

HDL Particles

Apolipoprotein A1 + B

APOLIPOPROTEIN A1	225 03/22/23	mg/dL	EZ
Comments	Reference Range: > or = 1	25	
	Risk Category:		
	Optimal > or = 125		
	- High <125		
	Cardiovascular event ris	c category cut points (optimal,	
	high) are based on the AM	ORIS study, Walldius G et al. J	
	Intern Med. 2004;255:188-	-205.	
APOLIPOPROTEIN B/A1 RATIO	0.47		EZ
	03/22/23		
Comments	Reference Range: <0.63		
	Risk Category:		
	Optimal <0.63		
	Moderate 0.63-0.78		
	High >0.78		
	Cardiovascular event risk	category cut points (optimal,	
	moderate, high) are based	l on the AMORIS study, Walldius G et	
	al. J Intern Med. 2004;25	55:188-205.	

Lipid Panel with Ratios

HDL CHOLESTEROL	101	> OR = 50 mg/dL	SKY
	03/22/23		

Lipoprotein Fractionation, Ion Mobility, Cardio IQ™

HDL LARGE	11801 03/22/23	>6729 nmol/L	Z4M
Comments	Relative Risk: Optimal >6729; Mode Reference Range: >6729 nmol/L.	erate 6729-5353; High <5353.	

LDL Particles





Apolipoprotein A1 + B

APOLIPOPROTEIN B	105 H 03/22/23	mg/dL	EZ
Comments	Reference	Range: <90	
	Risk Cate	gory:	
	Optimal	<90	
	Moderate	90-119	
	High	> or = 120	
	Cardiovas	cular event risk category cut points (optimal,	
	moderate,	high) are based on National Lipid Association	
	recommend	ations - Jacobson TA et al. J of Clin Lipid.	
	2015;9:12	9-169 and Jellinger PS et al. Endocr Pract.	
	2017;23(S	uppl 2):1-87.	

Lipid Panel with Ratios

LDL-CHOLESTEROL	159 H 03/22/23	mg/dL (calc)	SKY
Comments	Reference range: <100		
	-	ng/dL for primary prevention;	
	<pre>with > or = 2 CHD risk</pre>	with CHD or diabetic patients factors.	
	LDL-C is now calculate	ed using the Martin-Hopkins	
	•	a validated novel method providing the Friedewald equation in the	
	estimation of LDL-C.	2013;310(19): 2061-2068	
		stDiagnostics.com/faq/FAQ164)	

Lipoprotein Fractionation, Ion Mobility, Cardio IQ™

LDL PARTICLE NUMBER	2002 H 03/22/23	<1138 nmol/L	Z4M
Comments	Relative Risk: Optimal Reference Range: <1138	<1138; Moderate 1138-1409; High >1409. nmol/L.	
LDL SMALL	254 H 03/22/23	<142 nmol/L	Z4M
Comments	Relative Risk: Optimal Range: <142 nmol/L.	<142; Moderate 142-219; High >219. Reference	2
LDL MEDIUM	327 H 03/22/23	<215 nmol/L	Z4M





Result	Value	Reference Range	Lab
Comments	Relative Risk: Optimal Range: <215 nmol/L.	<215; Moderate 215-301; High >301. Refe	erence
LDL PATTERN	A 03/22/23	A Pattern	Z4M
Comments	Relative Risk: Optimal Pattern A.	Pattern A; High Pattern B. Reference Ra	ange:
LDL PEAK SIZE	226.7 03/22/23	>222.9 Angstrom	Z4M
Comments	· · · · · · · · · · · · · · · · · · ·		risk adult ions. ar events s being st was been ellence the U.S.

Coagulation

Fibrinogen Activity, Clauss

FIBRINOGEN ACTIVITY, CLAUSS

257 03/22/23

175-425 mg/dL

KS

Inflammation

C-Reactive Protein (CRP)

C-REACTIVE PROTEIN

0.6 03/22/23

<8.0 mg/L

KS

Metabolic & Endocrine Health

Thyroid

T3 Total





Result	Value	Reference Range	Lab
3, TOTAL	122 03/22/23	76-181 ng/dL	KS
3 Uptake			
З ИРТАКЕ	29 03/22/23	22-35 %	KS
4 (Thyroxine), Total			
4 (THYROXINE), TOTAL	8.5 03/22/23	5.1-11.9 mcg/dL	KS
REE T4 INDEX (T7)	2.5 03/22/23	1.4-3.8	KS
SH			
SH	1.43 03/22/23	0.40-4.50 mIU/L	SKY
Diabetes & Insulin F	Resistance		

GLUCOSE	83 03/22/23	65-99 mg/dL	SKY
Comments	Fasting reference interval		

Hemoglobin A1c (HgbA1C)

HEMOGLOBIN A1c	5.2 03/22/23	<5.7 % of total Hgb	KS
Comments	For the p diabetes:	urpose of screening for the presence of	
	<5.7% 5.7-6.4%	Consistent with the absence of diabetes Consistent with increased risk for diabetes (prediabetes) % Consistent with diabetes	
		y result is consistent with a decreased risk	
	-	, no consensus exists regarding use of n Alc for diagnosis of diabetes in children.	
	According	to American Diabetes Association (ADA)	





Result	Value	Reference Range	Lab
	•	Alc <7.0% represents optimal	
	control in non-pregnant diabetic patients. Different metrics may apply to specific patient populations.		
	Standards of Medical C	Care in Diabetes(ADA).	

Reproductive Hormones

DHEA Sulfate, Immunoassay

DHEA SULFATE	82 03/22/23	9-118 mcg/dL	KS
Comments	DHEA-S values fall with advancing age. For reference, the reference intervals for 31-40 year old patients are:		
	Male: 93-415 mcg/dL Female: 19-237 mcg/dL		

Estradiol

ESTRADIOL	<15 03/22/23	pg/mL	KS
Comments	Reference Range Follicular Phase: Mid-Cycle: Luteal Phase: Postmenopausal: Reference range establish population. No pre-pubert established using this as:	•	
	_	are antiginated to a males	

population. No pre-pubertal reference range established using this assay. For any patients for whom low Estradiol levels are anticipated (e.g. males, pre-pubertal children and hypogonadal/post-menopausal females), the Quest Diagnostics Nichols Institute Estradiol, Ultrasensitive, LCMSMS assay is recommended (order code 30289).

Please note: patients being treated with the drug fulvestrant (Faslodex(R)) have demonstrated significant interference in immunoassay methods for estradiol measurement. The cross reactivity could lead to falsely elevated estradiol test results leading to an inappropriate clinical assessment of estrogen status. Quest Diagnostics order code 30289-Estradiol, Ultrasensitive LC/MS/MS demonstrates negligible cross reactivity with fulvestrant.

Estrogen, Total, Serum





Result	Value	Reference Range	Lab
ESTROGEN, TOTAL, SERUM	132.6 03/22/23	pg/mL	EZ
Comments	Reference Ranges for Total Estroge	n:	
	Follicular Phase		
	(1-12 days): 90-590 pg/mL		
	Luteal Phase: 130-460 pg/mL		
	Postmenopausal: 50-170 pg/mL		
	The total estrogen assay is not re pre-pubertal children.	commended for use in	

Progesterone, Immunoassay

PROGESTERONE	<0.5 03/22/23	ng/mL	KS
Comments	Reference Ranges Female Follicular Phase Luteal Phase Post menopausal Pregnancy 1st Trimester 2nd Trimester 3rd Trimester	2.6-21.5	

Testosterone, Free (Dialysis) and Total MS

TESTOSTERONE, TOTAL, MS	31 03/22/23	2-45 ng/dL	Z3E
Comments		on, please refer to diagnostics.com/faq/FAQ165 rided for informational/educational purpo	oses only.)
	characteristics have been been cleared or approved	and its analytical performance on determined by medfusion. It has not by the FDA. This assay has been validate a valuations and is used for clinical purpos	
TESTOSTERONE, FREE	1.9 03/22/23	0.1-6.4 pg/mL	Z3E
Comments	characteristics have been cleared or approved by t	and its analytical performance on determined by medfusion. It has not be the FDA. This assay has been validated oulations and is used for clinical purpos	
	MDF		





Result	Value	Reference Range	Lab
	XXXXXX		
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Liver Health

Liver Enzymes and Function Tests

Comprehensive Metabolic Panel (CMP)

PROTEIN, TOTAL	7.2 03/22/23	6.1-8.1 g/dL	SKY
ALBUMIN	4.8 03/22/23	3.6-5.1 g/dL	SKY
GLOBULIN	2.4 03/22/23	1.9-3.7 g/dL (calc)	SKY
ALBUMIN/GLOBULIN RATIO	2.0 03/22/23	1.0-2.5 (calc)	SKY
BILIRUBIN, TOTAL	0.5 03/22/23	0.2-1.2 mg/dL	SKY
ALKALINE PHOSPHATASE	79 03/22/23	37-153 U/L	SKY
AST	20 03/22/23	10-35 U/L	SKY
ALT	15 03/22/23	6-29 U/L	SKY

Gamma Glutamyl Transferase (GGT)

GGT	14	3-65 U/L	SKY
	03/22/23		

Lactate Dehydrogenase (LD)

LD	176	120-250 U/L	SKY
	03/22/23		

Urinalysis (UA), Complete

BILIRUBIN	NEGATIVE	NEGATIVE	SKY
	03/22/23		





Result Value Reference Range Lab

Kidney & Urinary Health

Kidney Function Metabolic

Comprehensive Metabolic Panel (CMP)

UREA NITROGEN (BUN)	27 H 03/22/23	7-25 mg/dL	SKY
CREATININE	1.04 03/22/23	0.50-1.05 mg/dL	SKY
EGFR	61 03/22/23	> OR = 60 mL/min/1.73m2	SKY
Comments	The eGFR is based on the CKD-EPI 2 the new eGFR from a previous Creat result, go to https://www.kidney.ckdoqi/gfr%5Fcalculator	inine or Cystatin C	
BUN/CREATININE RATIO	26 H 03/22/23	6-22 (calc)	SKY
CALCIUM	9.5 03/22/23	8.6-10.4 mg/dL	SKY

Uric Acid

URIC ACID	4.3 03/22/23	2.5-7.0 mg/dL	SKY
Comments	Therapeutic target for gout patien	nts: <6.0 mg/dL	

Kidney & Urinalysis

Urinalysis (UA), Complete

COLOR	YELLOW 03/22/23	YELLOW	SKY
APPEARANCE	CLEAR 03/22/23	CLEAR	SKY
SPECIFIC GRAVITY	1.023 03/22/23	1.001-1.035	SKY
PH	6.0 03/22/23	5.0-8.0	SKY
GLUCOSE	NEGATIVE 03/22/23	NEGATIVE	SKY





Result	Value	Reference Range	Lab
KETONES	NEGATIVE 03/22/23	NEGATIVE	SKY
OCCULT BLOOD	NEGATIVE 03/22/23	NEGATIVE	SKY
PROTEIN	NEGATIVE 03/22/23	NEGATIVE	SKY
NITRITE	NEGATIVE 03/22/23	NEGATIVE	SKY
LEUKOCYTE ESTERASE	1+ A 03/22/23	NEGATIVE	SKY
WBC	0-5 03/22/23	< OR = 5 /HPF	SKY
RBC	NONE SEEN 03/22/23	< OR = 2 /HPF	SKY
SQUAMOUS EPITHELIAL CELLS	NONE SEEN 03/22/23	< OR = 5 /HPF	SKY
BACTERIA	FEW A 03/22/23	NONE SEEN /HPF	SKY
CRYSTALS	NONE SEEN 03/22/23	NONE SEEN /HPF	SKY
CASTS	NONE SEEN 03/22/23	NONE SEEN /LPF	SKY
YEAST	NONE SEEN 03/22/23	NONE SEEN /HPF	SKY
NOTE	See Below 03/22/23		SKY
Comments	This urine was analyzed for the property RBC, bacteria, casts, and other for Only those elements seen were repo	rmed elements.	

Electrolytes

Electrolytes

Comprehensive Metabolic Panel (CMP)

SODIUM	142 03/22/23	135-146 mmol/L	SKY
POTASSIUM	4.2 03/22/23	3.5-5.3 mmol/L	SKY





Result	Value	Reference Range	Lab
CHLORIDE	106 03/22/23	98-110 mmol/L	SKY
CARBON DIOXIDE	29 03/22/23	20-32 mmol/L	SKY

Blood Health

Iron

Iron and Total Iron Binding Capacity (TIBC)

IRON, TOTAL	62 03/22/23	45-160 mcg/dL	KS
IRON BINDING CAPACITY	318 03/22/23	250-450 mcg/dL (calc)	KS
% SATURATION	19 03/22/23	16-45 % (calc)	KS

Platelets

CBC (includes Differential and Platelets)

PLATELET COUNT	302	140-400 Thousand/uL	SKY
	03/22/23		

Red Blood Cells

CBC (includes Differential and Platelets)

RED BLOOD CELL COUNT	4.93 03/22/23	3.80-5.10 Million/uL	SKY
HEMOGLOBIN	14.9 03/22/23	11.7-15.5 g/dL	SKY
HEMATOCRIT	44.2 03/22/23	35.0-45.0 %	SKY
MCV	89.7 03/22/23	80.0-100.0 fL	SKY
MCH	30.2 03/22/23	27.0-33.0 pg	SKY
MCHC	33.7 03/22/23	32.0-36.0 g/dL	SKY





Result	Value	Reference Range	Lab
RDW	12.4 03/22/23	11.0-15.0 %	SKY
MPV	9.6 03/22/23	7.5-12.5 fL	SKY

White Blood Cells

CBC (includes Differential and Platelets)

WHITE BLOOD CELL COUNT	8.5 03/22/23	3.8-10.8 Thousand/uL	SKY
ABSOLUTE NEUTROPHILS	6605 03/22/23	1500-7800 cells/uL	SKY
ABSOLUTE LYMPHOCYTES	1377 03/22/23	850-3900 cells/uL	SKY
ABSOLUTE MONOCYTES	383 03/22/23	200-950 cells/uL	SKY
ABSOLUTE EOSINOPHILS	60 03/22/23	15-500 cells/uL	SKY
ABSOLUTE BASOPHILS	77 03/22/23	0-200 cells/uL	SKY
NEUTROPHILS	77.7 03/22/23	%	SKY
LYMPHOCYTES	16.2 03/22/23	%	SKY
MONOCYTES	4.5 03/22/23	%	SKY
EOSINOPHILS	0.7 03/22/23	%	SKY
BASOPHILS	0.9 03/22/23	%	SKY

Vitamins, Minerals & Dietary Fatty Acids

Vitamins

QuestAssureD™ 25-Hydroxyvitamin D (D2, D3), LC/MS/MS

VITAMIN D, 25-OH, TOTAL	44	30-100 ng/mL	Z3E
	03/22/23		





Result	Value	Reference Range	Lab	
Comments	common forms, 25-OHD2 a both endogenous product 25-OHD2 is an indicator diet or supplementation measurement of Total 25 indicative of Vitamin D between 20 ng/mL and 30 Optimal levels are > or Vitamin D is fat-solubl intentional ingestion of could be toxic. Studies blood levels would need there is any concern. H Bischoff-ferrari HA, et prevention of vitamin D	-OHD, with levels <20 ng/mL deficiency, while levels ng/mL suggest insufficiency. = 30 ng/mL. e and therefore inadvertent or of excessively high amounts in children and adults suggest to exceed 150 ng/mL before olick MF, Binkley NC, al. Evaluation, treatment and deficiency: an Endocrine ce guideline. J Clin Endocrinol 30.		
VITAMIN D, 25-OH, D3	http://education.QuestI	piagnostics.com/faq/FAQ199 ng/mL	Z3E	
, , -	03/22/23	J	-	
Comments	Reference range: Not established			
VITAMIN D, 25-OH, D2	<4.0 03/22/23	ng/mL	Z3E	
Comments	characteristics have been cleared or approved by the	and its analytical performance determined by medfusion. It has not been le US Food and Drug Administration. This pursuant to the CLIA regulation and is used on, please refer to agnostics.com/faq/FAQ199		

educational purposes only.)





Result	Value	Reference Range	Lab

Vitamin B12 (Cobalamin) and Folate Panel, Serum

VITAMIN B12	467 03/22/23	200-1100 pg/mL	KS
FOLATE, SERUM	15.8 03/22/23	ng/mL	KS
Comments	Reference Range		

Low: <3.4

Borderline: 3.4-5.4

Normal: >5.4

Minerals

Magnesium

MAGNESIUM 2.2 1.5-2.5 mg/dL SKY 03/22/23

Performing Laboratory Information

SKY Quest Diagnostics-Utah Laboratory

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EZ Quest Diagnostics/Nichols SJC-San Juan Capistrano,

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