Quest Diagnostics

SPECIMEN INFORMATION
SPECIMEN:
REQUISITION:
Lab ref no:

COLLECTED: 10/19/2022 11:11AM PDT
RECEIVED: 10/20/2022 09:44PM PDT
REPORTED: 10/25/2022 01:56PM PDT

PATIENT INFORMATION
Name
DOB:
AGE:
GENDER:
FASTING:

REPORT STATUS: FINAL
ORDERING PHYSICIAN
Name
CLIENT INFORMATION
Private MD Labs

Test Name	Result	Flag	Reference Range	Lab
FASTING: YES				
hs-CRP				
HS CRP	0.3	NORMAL	mg/L	02
Reference Range Optimal <1.0 Jellinger PS et al. Endocr Pract.2017;23(Suppl 2):1-87. For ages >17 Years: hs-CRP mg/L Risk According to AHA/CDC Guidelines <1.0 Lower relative cardiovascular risk. 1.0-3.0 Average relative cardiovascular risk. 3.1-10.0 Higher relative cardiovascular risk. Consider retesting in 1 to 2 weeks to exclude a benign transient elevation in the baseline CRP value secondary to infection or inflammation. >10.0 Persistent elevation, upon retesting, may be associated with infection and inflammation.				
Comprehensive Metabolic Panel				
GLUCOSE	77	NORMAL	65-99 mg/dL	02
Fasting reference interval				
UREA NITROGEN (BUN)	20	NORMAL	7-25 mg/dL	02
CREATININE	1.29	HIGH	0.60-1.24 mg/dL	02
EGFR	79	NORMAL	> OR = 60 mL/min/1.73m2	02
The eGFR is based on the CKD-EPI 2021 equation. To calculate the new eGFR from a previous Creatinine or Cystatin C result, go to https://www.kidney.org/professionals/ kdoqi/gfr%5Fcalculator				
BUN/CREATININE RATIO	16	NORMAL	6-22 (calc)	02
SODIUM	139	NORMAL	135-146 mmol/L	02
POTASSIUM	4.2	NORMAL	3.5-5.3 mmol/L	02
CHLORIDE	104	NORMAL	98-110 mmol/L	02
CARBON DIOXIDE	28	NORMAL	20-32 mmol/L	02
CALCIUM	9.8	NORMAL	8.6-10.3 mg/dL	02
PROTEIN, TOTAL	6.7	NORMAL	6.1-8.1 g/dL	02
ALBUMIN	4.8	NORMAL	3.6-5.1 g/dL	02
GLOBULIN	1.9	NORMAL	1.9-3.7 g/dL (calc)	02
ALBUMIN/GLOBULIN RATIO	2.5	NORMAL	1.0-2.5 (calc)	02
BILIRUBIN, TOTAL	0.7	NORMAL	0.2-1.2 mg/dL	02
ALKALINE PHOSPHATASE	50	NORMAL	36-130 U/L	02
AST	42	HIGH	10-40 U/L	02
ALT	45	NORMAL	9-46 U/L	02
Estradiol, Ultrasensitive, LC/MS				
ESTRADIOL,ULTRASENSITIVE, LC/MS	95	HIGH	< OR = 29 pg/mL	01

This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics Nichols Institute San Juan Capistrano. It has not been cleared or approved by FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

Sex Hormone Binding Globulin (SHBG)

SEX HORMONE BINDING GLOBULIN	13	NORMAL	10-50 nmol/L	02

T3, FREE

T3, FREE	3.3	NORMAL	2.3-4.2 pg/mL	02

Testosterone, Free (Dialysis) and Total, MS

TESTOSTERONE, TOTAL, MS	1291	HIGH	250-1100 ng/dL	03

For additional information, please refer to http://education.questdiagnostics.com/faq/TotalTestosteroneLCMSMS (This link is being provided for informational/ educational purposes only.)

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TESTOSTERONE, FREE	493.0	HIGH	35.0-155.0 pg/mL	03

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DHEA SULFATE, IMMUNOASSAY

DHEA SULFATE	320	NORMAL	74-617 mcg/dL	02

Ferritin (serum)

FERRITIN	137	NORMAL	38-380 ng/mL	02

FSH (Follicle Stimulating Hormone)

FSH	<0.7	LOW	1.6-8.0 mIU/mL	02

Gamma Glutamyl Transferase (GGT)

GGT	13	NORMAL	3-70 U/L	02

HEMOGLOBIN A1c

HEMOGLOBIN A1c	4.7	NORMAL	<5.7 % of total Hgb	02

For the purpose of screening for the presence of diabetes:

<5.7% Consistent with the absence of diabetes
5.7-6.4% Consistent with increased risk for diabetes (prediabetes)
> or =6.5% Consistent with diabetes

This assay result is consistent with a decreased risk of diabetes.

Currently, no consensus exists regarding use of hemoglobin A1c for diagnosis of diabetes in children.

According to American Diabetes Association (ADA) guidelines, hemoglobin A1c <7.0% represents optimal control in non-pregnant diabetic patients. Different metrics may apply to specific patient populations. Standards of Medical Care in Diabetes(ADA).

PSA, TOTAL

PSA, TOTAL	0.33	NORMAL	< OR = 4.00 ng/mL	02

The total PSA value from this assay system is standardized against the WHO standard. The test result will be approximately 20% lower when compared to the equimolar-standardized total PSA (Beckman Coulter). Comparison of serial PSA results should be interpreted with this fact in mind.

This test was performed using the Siemens chemiluminescent method. Values obtained from different assay methods cannot be used interchangeably. PSA levels, regardless of value, should not be interpreted as absolute evidence of the presence or absence of disease.

URINALYSIS, COMPLETE

COLOR	YELLOW	NORMAL	YELLOW	02
APPEARANCE	CLEAR	NORMAL	CLEAR	02
SPECIFIC GRAVITY	1.013	NORMAL	1.001-1.035	02
PH	8.0	NORMAL	5.0-8.0	02
GLUCOSE	NEGATIVE	NORMAL	NEGATIVE	02
BILIRUBIN	NEGATIVE	NORMAL	NEGATIVE	02
KETONES	NEGATIVE	NORMAL	NEGATIVE	02
OCCULT BLOOD	NEGATIVE	NORMAL	NEGATIVE	02
PROTEIN	NEGATIVE	NORMAL	NEGATIVE	02
NITRITE	NEGATIVE	NORMAL	NEGATIVE	02
LEUKOCYTE ESTERASE	NEGATIVE	NORMAL	NEGATIVE	02
WBC	NONE SEEN	NORMAL	< OR = 5 /HPF	02
RBC	NONE SEEN	NORMAL	< OR = 2 /HPF	02
SQUAMOUS EPITHELIAL CELLS	NONE SEEN	NORMAL	< OR = 5 /HPF	02
TRANSITIONAL EPITHELIAL CELLS	DNR	NORMAL	< OR = 5 /HPF	02
RENAL EPITHELIAL CELLS	DNR	NORMAL	< OR = 3 /HPF	02
BACTERIA	NONE SEEN	NORMAL	NONE SEEN /HPF	02
CALCIUM OXALATE CRYSTALS	DNR	NORMAL	NONE OR FEW /HPF	02
TRIPLE PHOSPHATE CRYSTALS	DNR	NORMAL	NONE OR FEW /HPF	02
URIC ACID CRYSTALS	DNR	NORMAL	NONE OR FEW /HPF	02
AMORPHOUS SEDIMENT	DNR	NORMAL	NONE OR FEW /HPF	02
CRYSTALS	DNR	NORMAL	NONE SEEN /HPF	02
HYALINE CAST	NONE SEEN	NORMAL	NONE SEEN /LPF	02
GRANULAR CAST	DNR	NORMAL	NONE SEEN /LPF	02
CASTS	DNR	NORMAL	NONE SEEN /LPF	02
YEAST	DNR	NORMAL	NONE SEEN /HPF	02
COMMENTS	DNR	NORMAL		02
NOTE		NORMAL		02

This urine was analyzed for the presence of WBC, RBC, bacteria, casts, and other formed elements. Only those elements seen were reported.

INSULIN

INSULIN	1.3	NORMAL	uIU/mL	02

Reference Range < or = 19.6

Risk:
Optimal < or = 19.6
Moderate NA
High >19.6

Adult cardiovascular event risk category cut points (optimal, moderate, high) are based on Quest Diagnostics population data from 12/2011.

This insulin assay shows strong cross-reactivity for some insulin analogs (lispro, aspart, and glargine) and much lower cross-reactivity with others (detemir, glulisine).

LUTENIZING HORMONE				
LH	<0.2	LOW	1.5-9.3 mIU/mL	02
MAGNESIUM				
MAGNESIUM	2.0	NORMAL	1.5-2.5 mg/dL	02
CBC (includes Differential and Platelets)				
WHITE BLOOD CELL COUNT	4.6	NORMAL	3.8-10.8 Thousand/uL	02
RED BLOOD CELL COUNT	6.02	HIGH	4.20-5.80 Million/uL	02
HEMOGLOBIN	18.0	HIGH	13.2-17.1 g/dL	02
HEMATOCRIT	53.6	HIGH	38.5-50.0 %	02
MCV	89.0	NORMAL	80.0-100.0 fL	02
MCH	29.9	NORMAL	27.0-33.0 pg	02
MCHC	33.6	NORMAL	32.0-36.0 g/dL	02
RDW	12.2	NORMAL	11.0-15.0 %	02
PLATELET COUNT	187	NORMAL	140-400 Thousand/uL	02
MPV	10.8	NORMAL	7.5-12.5 fL	02
ABSOLUTE NEUTROPHILS	2525	NORMAL	1500-7800 cells/uL	02
ABSOLUTE BAND NEUTROPHILS	DNR	NORMAL	0-750 cells/uL	02
ABSOLUTE METAMYELOCYTES	DNR	NORMAL	0 cells/uL	02
ABSOLUTE MYELOCYTES	DNR	NORMAL	0 cells/uL	02
ABSOLUTE PROMYELOCYTES	DNR	NORMAL	0 cells/uL	02
ABSOLUTE LYMPHOCYTES	1518	NORMAL	850-3900 cells/uL	02
ABSOLUTE MONOCYTES	414	NORMAL	200-950 cells/uL	02
ABSOLUTE EOSINOPHILS	92	NORMAL	15-500 cells/uL	02
ABSOLUTE BASOPHILS	51	NORMAL	0-200 cells/uL	02
ABSOLUTE BLASTS	DNR	NORMAL	0 cells/uL	02
ABSOLUTE NUCLEATED RBC	DNR	NORMAL	0 cells/uL	02
NEUTROPHILS	54.9	NORMAL	%	02
BAND NEUTROPHILS	DNR	NORMAL	%	02
METAMYELOCYTES	DNR	NORMAL	%	02
MYELOCYTES	DNR	NORMAL	%	02
PROMYELOCYTES	DNR	NORMAL	%	02
LYMPHOCYTES	33.0	NORMAL	%	02
REACTIVE LYMPHOCYTES	DNR	NORMAL	0-10 %	02
MONOCYTES	9.0	NORMAL	%	02
EOSINOPHILS	2.0	NORMAL	%	02
BASOPHILS	1.1	NORMAL	%	02
BLASTS	DNR	NORMAL	%	02
NUCLEATED RBC	DNR	NORMAL	0 /100 WBC	02
COMMENT(S)	DNR	NORMAL		02
Prolactin				
PROLACTIN	10.4	NORMAL	2.0-18.0 ng/mL	02
Iron, and Total Iron Binding Capacity Total				
IRON, TOTAL	141	NORMAL	50-195 mcg/dL	02
IRON BINDING CAPACITY	332	NORMAL	250-425 mcg/dL (calc)	02
% SATURATION	42	NORMAL	20-48 % (calc)	02
Lipid Panel, Standard				
CHOLESTEROL, TOTAL	99	NORMAL	<200 mg/dL	02
HDL CHOLESTEROL	33	LOW	> OR = 40 mg/dL	02
TRIGLYCERIDES	59	NORMAL	<150 mg/dL	02
LDL-CHOLESTEROL	52	NORMAL	mg/dL (calc)	02

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/HDLC RATIO	3.0	NORMAL	<5.0 (calc)	02
NON HDL CHOLESTEROL	66	NORMAL	<130 mg/dL (calc)	02

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.

T4 FREE, (FT4)

T4, FREE	0.9	NORMAL	0.8-1.8 ng/dL	02

TSH

TSH	1.78	NORMAL	0.40-4.50 mIU/L	02