Test Name	Result	Flag	Reference Range	La
COMPREHENSIVE METABOLIC PANEL W	/EGFR			
GLUCOSE	100	HIGH	65-99 mg/dL	
Fasting reference interval				
For someone without known dia between 100 and 125 mg/dL is prediabetes and should be con follow-up test.	consistent with	le		
UREA NITROGEN (BUN)	16	NORMAL	7-25 mg/dL	
CREATININE	1.04	NORMAL	0.60-1.35 mg/dL	
eGFR NON-AFR. AMERICAN	95	NORMAL	> OR = 60 mL/min/1.73m2	
eGFR AFRICAN AMERICAN	110	NORMAL	> OR = 60 mL/min/1.73m2	
BUN/CREATININE RATIO	NOT APPLICABLE	NORMAL	6-22 (calc)	
SODIUM	139	NORMAL	135-146 mmol/L	
POTASSIUM	4.2	NORMAL	3.5-5.3 mmol/L	
CHLORIDE	101	NORMAL	98-110 mmol/L	
CARBON DIOXIDE	31	NORMAL	20-32 mmol/L	
CALCIUM	9.8	NORMAL	8.6-10.3 mg/dL	
PROTEIN, TOTAL	7.4	NORMAL	6.1-8.1 g/dL	
ALBUMIN	4.9	NORMAL	3.6-5.1 g/dL	
GLOBULIN	2.5	NORMAL	1.9-3.7 g/dL (calc)	
ALBUMIN/GLOBULIN RATIO	2.0	NORMAL	1.0-2.5 (calc)	
BILIRUBIN, TOTAL	0.9	NORMAL	0.2-1.2 mg/dL	
ALKALINE PHOSPHATASE	53	NORMAL	36-130 U/L	
AST	17	NORMAL	10-40 U/L	
ALT	24	NORMAL	9-46 U/L	
/itamin D, 25-Hydroxy, Total, I	mmunoassay			
VITAMIN D,25-OH, TOTAL, IA	21	LOW	30-100 ng/mL	
Vitamin D Status 25-OH Vitam:	in D:			
Deficiency: <20 ng/mL				
Insufficiency: 20 - 29 ng/mL				
Optimal: > or = 30 ng/mL				
For 25-OH Vitamin D testing of D2-supplementation and paties of D2 and D3 fractions is red 25-OH VIT D, (D2,D3), LC/MS/N code 92888 (patients >2yrs). See Note 1	nts for whom quantitat quired, the QuestAssum	eD(TM)		
Note 1				
For additional information, p	please refer to			
http://education.QuestDiagnos (This link is being provided educational purposes only.)	stics.com/faq/FAQ199			
TESTOSTERONE, FREE AND TOTAL, L	C/MS/MS			

For additional information, please refer to
http://education.questdiagnostics.com/faq/
TotalTestosteroneLCMSMSFAQ165
(This link is being provided for informational/
educational purposes only.)

This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics Nichols Institute Chantilly, VA. It has not been cleared or approved by the U.S. Food and Drug Administration. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

TESTOSTERONE, FREE	127.8	NORMAL	35.0-155.0 pg/mL	02
This test was developed and :	, <u> </u>			
characteristics have been det	termined by Quest			
Diagnostics Nichols Institute	e Chantilly, VA. 1	It has		
not been cleared or approved	by the U.S. Food	and Drug		
Administration. This assay ha	as been validated	pursuant		
to the CLIA regulations and :	is used for clinio	cal		
purposes.				

#### ESTRADIOL, REBASELINE

ESTRADIOL	33	NORMAL	< OR = 39 pg	/mL 01
Reference range established	ł on post-pubertal	patient		
population. No pre-pubertal	. reference range			
established using this assa	y. For any patient	ts for		
whom low Estradiol levels a	re anticipated (e	.g. males,		
pre-pubertal children and h	ypogonadal/post-me	enopausal		
females), the Quest Diagnos	tics Nichols Insti	itute		
Estradiol, Ultrasensitive,	LCMSMS assay is re	ecommended		
(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.

### HEMOGLOBIN A1c

HEMOGLOBIN A1c	4.7	NORMAL	<5.7 % of total Hgb	01
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

NORMAL

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.

## CBC (INCLUDES DIFF/PLT)

WHITE BLOOD CELL COUNT	5.9	NORMAL	3.8-10.8 Thousand/uL	01
RED BLOOD CELL COUNT	5.84	HIGH	4.20-5.80 Million/uL	01
HEMOGLOBIN	18.0	HIGH	13.2-17.1 g/dL	01
HEMATOCRIT	51.2	HIGH	38.5-50.0 %	01
MCV	87.7	NORMAL	80.0-100.0 fL	01
MCH	30.8	NORMAL	27.0-33.0 pg	01
MCHC	35.2	NORMAL	32.0-36.0 g/dL	01
RDW	13.5	NORMAL	11.0-15.0 %	01
PLATELET COUNT	278	NORMAL	140-400 Thousand/uL	01
MPV	9.6	NORMAL	7.5-12.5 fL	01
ABSOLUTE NEUTROPHILS	3511	NORMAL	1500-7800 cells/uL	01
ABSOLUTE BAND NEUTROPHILS	DNR	NORMAL	0-750 cells/uL	01
ABSOLUTE METAMYELOCYTES	DNR	NORMAL	0 cells/uL	01
ABSOLUTE MYELOCYTES	DNR	NORMAL	0 cells/uL	01
ABSOLUTE PROMYELOCYTES	DNR	NORMAL	0 cells/uL	01
ABSOLUTE LYMPHOCYTES	1841	NORMAL	850-3900 cells/uL	01
ABSOLUTE MONOCYTES	425	NORMAL	200-950 cells/uL	01
ABSOLUTE EOSINOPHILS	83	NORMAL	15-500 cells/uL	01
ABSOLUTE BASOPHILS	41	NORMAL	0-200 cells/uL	01
ABSOLUTE BLASTS	DNR	NORMAL	0 cells/uL	01
ABSOLUTE NUCLEATED RBC	DNR	NORMAL	0 cells/uL	01
NEUTROPHILS	59.5	NORMAL	%	01
BAND NEUTROPHILS	DNR	NORMAL	%	01
METAMYELOCYTES	DNR	NORMAL	%	01
MYELOCYTES	DNR	NORMAL	%	01
PROMYELOCYTES	DNR	NORMAL	%	01
LYMPHOCYTES	31.2	NORMAL	%	01
REACTIVE LYMPHOCYTES	DNR	NORMAL	0-10 %	01
MONOCYTES	7.2	NORMAL	%	01
EOSINOPHILS	1.4	NORMAL	%	01
BASOPHILS	0.7	NORMAL	%	01
BLASTS	DNR	NORMAL	%	01
NUCLEATED RBC	DNR	NORMAL	0 /100 WBC	01
COMMENT(S)	DNR	NORMAL		01
LIPID PANEL (CHOL, HDL-CHOL, LDL-	-CHOL, TGL)			
CHOLESTEROL, TOTAL	229	HIGH	<200 mg/dL	01
HDL CHOLESTEROL	47	NORMAL	> OR = 40 mg/dL	01
TRIGLYCERIDES	61	NORMAL	<150 mg/dL	01
LDL-CHOLESTEROL	166	HIGH	mg/dL (calc)	01

FREE T4 INDEX (T7)	2.7	NORMAL	1.4-3.8	01
T4 (THYROXINE), TOTAL	7.8	NORMAL	4.9-10.5 mcg/dL	01
T-4 (THYROXINE), TOTAL				
T3 UPTAKE T3 UPTAKE	34	NORMAL	22-35 %	01
CHOL/HDLC RATIO NON HDL CHOLESTEROL For patients with diabetes factor, treating to a non-H (LDL-C of <70 mg/dL) is con option.	DL-C goal of <100	mg/dL	<5.0 (calc) <130 mg/dL (calc)	01 01
LDL-C is now calculated usi calculation, which is a val better accuracy than the Fr estimation of LDL-C. Martin SS et al. JAMA. 2013 (http://education.QuestDiag	idated novel metho iedewald equation ;310(19): 2061-200	od providing in the 68		
Desirable range <100 mg/dL <70 mg/dL for patients with with > or = 2 CHD risk fact	CHD or diabetic			
Reference range: <100				

# Performing Laboratory Information:

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