

SPECIMEN INFORMATION
 SPECIMEN: LV340301F
 REQUISITION: 37554112
 Lab ref no:

COLLECTED: 2019/02/14 12:54
 RECEIVED: 2019/02/14 12:55
 REPORTED: 2019/02/19 14:43

PATIENT INFORMATION

John, Smith
 DOB: September 11, 1984
 AGE: 20
 GENDER: Male
 FASTING: Unknown

Clinical Info:

REPORT STATUS: FINAL

ORDERING PHYSICIAN

Jane, Doe

CLIENT INFORMATION

2019-02-19 14:43:00 -0800
 Lab Testing API
 280 Madison Avenue
 Room 912, 9th Floor
 New York, NY 10016

| Test Name | Result | Flag | Reference Range | Lab |
|--|----------------|--------|----------------------------|-----|
| FASTING: YES | | | | |
| FASTING: YES | | | | |
| LIPID PANEL, STANDARD | | | | |
| CHOLESTEROL, TOTAL | 222 | HIGH | <200 mg/dL | 01 |
| HDL CHOLESTEROL | 45 | NORMAL | >40 mg/dL | 01 |
| TRIGLYCERIDES | 143 | NORMAL | <150 mg/dL | 01 |
| LDL-CHOLESTEROL | 150 | HIGH | mg/dL (calc) | 01 |
| 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 | 4.9 | NORMAL | <5.0 (calc) | 01 |
| NON HDL CHOLESTEROL | 177 | HIGH | <130 mg/dL (calc) | 01 |
| 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. | | | | |
| THYROID PANEL WITH TSH | | | | |
| T3 UPTAKE | 27 | NORMAL | 22-35 % | 01 |
| T4 (THYROXINE), TOTAL | 9.7 | NORMAL | 4.9-10.5 mcg/dL | 01 |
| FREE T4 INDEX (T7) | 2.6 | NORMAL | 1.4-3.8 | 01 |
| TSH | 0.97 | NORMAL | 0.40-4.50 mIU/L | 01 |
| COMPREHENSIVE METABOLIC PANEL | | | | |
| GLUCOSE | 140 | HIGH | 65-99 mg/dL | 01 |
| Fasting reference interval | | | | |
| For someone without known diabetes, a glucose value >125 mg/dL indicates that they may have diabetes and this should be confirmed with a follow-up test. | | | | |
| UREA NITROGEN (BUN) | 19 | NORMAL | 7-25 mg/dL | 01 |
| CREATININE | 0.90 | NORMAL | 0.70-1.25 mg/dL | 01 |
| For patients >49 years of age, the reference limit for Creatinine is approximately 13% higher for people identified as African-American. | | | | |
| eGFR NON-AFR. AMERICAN | 88 | NORMAL | > OR = 60 mL/min/1.73m2 | 01 |
| eGFR AFRICAN AMERICAN | 102 | NORMAL | > OR = 60 mL/min/1.73m2 | 01 |
| BUN/CREATININE RATIO | NOT APPLICABLE | NORMAL | 6-22 (calc) | 01 |
| SODIUM | 139 | NORMAL | 135-146 mmol/L | 01 |
| POTASSIUM | 4.2 | NORMAL | 3.5-5.3 mmol/L | 01 |

| | | | | |
|--------------------------------|-----------|--------|----------------------|----|
| CHLORIDE | 103 | NORMAL | 98-110 mmol/L | 01 |
| CARBON DIOXIDE | 28 | NORMAL | 20-32 mmol/L | 01 |
| CALCIUM | 9.6 | NORMAL | 8.6-10.3 mg/dL | 01 |
| PROTEIN, TOTAL | 7.7 | NORMAL | 6.1-8.1 g/dL | 01 |
| ALBUMIN | 4.6 | NORMAL | 3.6-5.1 g/dL | 01 |
| GLOBULIN | 3.1 | NORMAL | 1.9-3.7 g/dL (calc) | 01 |
| ALBUMIN/GLOBULIN RATIO | 1.5 | NORMAL | 1.0-2.5 (calc) | 01 |
| BILIRUBIN, TOTAL | 0.6 | NORMAL | 0.2-1.2 mg/dL | 01 |
| ALKALINE PHOSPHATASE | 75 | NORMAL | 40-115 U/L | 01 |
| AST | 16 | NORMAL | 10-35 U/L | 01 |
| ALT | 16 | NORMAL | 9-46 U/L | 01 |
| URINALYSIS, COMPLETE | | | | |
| COLOR | YELLOW | NORMAL | YELLOW | 01 |
| APPEARANCE | CLEAR | NORMAL | CLEAR | 01 |
| SPECIFIC GRAVITY | 1.018 | NORMAL | 1.001-1.035 | 01 |
| PH | 5.5 | NORMAL | 5.0-8.0 | 01 |
| GLUCOSE | NEGATIVE | NORMAL | NEGATIVE | 01 |
| REDUCING SUBSTANCES | DNR | NORMAL | NEGATIVE % | 01 |
| BILIRUBIN | NEGATIVE | NORMAL | NEGATIVE | 01 |
| KETONES | NEGATIVE | NORMAL | NEGATIVE | 01 |
| OCCULT BLOOD | NEGATIVE | NORMAL | NEGATIVE | 01 |
| PROTEIN | NEGATIVE | NORMAL | NEGATIVE | 01 |
| NITRITE | NEGATIVE | NORMAL | NEGATIVE | 01 |
| LEUKOCYTE ESTERASE | NEGATIVE | NORMAL | NEGATIVE | 01 |
| WBC | NONE SEEN | NORMAL | < OR = 5 /HPF | 01 |
| RBC | NONE SEEN | NORMAL | < OR = 2 /HPF | 01 |
| SQUAMOUS EPITHELIAL CELLS | NONE SEEN | NORMAL | < OR = 5 /HPF | 01 |
| TRANSITIONAL EPITHELIAL CELLS | DNR | NORMAL | < OR = 5 /HPF | 01 |
| RENAL EPITHELIAL CELLS | DNR | NORMAL | < OR = 3 /HPF | 01 |
| BACTERIA | NONE SEEN | NORMAL | NONE SEEN /HPF | 01 |
| CALCIUM OXALATE CRYSTALS | DNR | NORMAL | NONE OR FEW /HPF | 01 |
| TRIPLE PHOSPHATE CRYSTALS | DNR | NORMAL | NONE OR FEW /HPF | 01 |
| URIC ACID CRYSTALS | DNR | NORMAL | NONE OR FEW /HPF | 01 |
| AMORPHOUS SEDIMENT | DNR | NORMAL | NONE OR FEW /HPF | 01 |
| CRYSTALS | DNR | NORMAL | NONE SEEN /HPF | 01 |
| HYALINE CAST | NONE SEEN | NORMAL | NONE SEEN /LPF | 01 |
| GRANULAR CAST | DNR | NORMAL | NONE SEEN /LPF | 01 |
| CASTS | DNR | NORMAL | NONE SEEN /LPF | 01 |
| YEAST | DNR | NORMAL | NONE SEEN /HPF | 01 |
| COMMENTS | DNR | NORMAL | | 01 |
| NOTE | DNR | NORMAL | | 01 |
| CBC (INCLUDES DIFF/PLT) | | | | |
| WHITE BLOOD CELL COUNT | 5.8 | NORMAL | 3.8-10.8 Thousand/uL | 01 |
| RED BLOOD CELL COUNT | 5.06 | NORMAL | 4.20-5.80 Million/uL | 01 |
| HEMOGLOBIN | 15.5 | NORMAL | 13.2-17.1 g/dL | 01 |
| HEMATOCRIT | 45.0 | NORMAL | 38.5-50.0 % | 01 |
| MCV | 88.9 | NORMAL | 80.0-100.0 fL | 01 |
| MCH | 30.6 | NORMAL | 27.0-33.0 pg | 01 |
| MCHC | 34.4 | NORMAL | 32.0-36.0 g/dL | 01 |
| RDW | 12.5 | NORMAL | 11.0-15.0 % | 01 |
| PLATELET COUNT | 223 | NORMAL | 140-400 Thousand/uL | 01 |
| MPV | 9.0 | NORMAL | 7.5-12.5 fL | 01 |
| ABSOLUTE NEUTROPHILS | 3596 | 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 | 1450 | NORMAL | 850-3900 cells/uL | 01 |
| ABSOLUTE MONOCYTES | 551 | NORMAL | 200-950 cells/uL | 01 |
| ABSOLUTE EOSINOPHILS | 110 | NORMAL | 15-500 cells/uL | 01 |
| ABSOLUTE BASOPHILS | 93 | NORMAL | 0-200 cells/uL | 01 |
| ABSOLUTE BLASTS | DNR | NORMAL | 0 cells/uL | 01 |
| ABSOLUTE NUCLEATED RBC | DNR | NORMAL | 0 cells/uL | 01 |

| | | | | |
|----------------------|------|--------|------------|----|
| NEUTROPHILS | 62 | NORMAL | % | 01 |
| BAND NEUTROPHILS | DNR | NORMAL | % | 01 |
| METAMYELOCYTES | DNR | NORMAL | % | 01 |
| MYELOCYTES | DNR | NORMAL | % | 01 |
| PROMYELOCYTES | DNR | NORMAL | % | 01 |
| LYMPHOCYTES | 25.0 | NORMAL | % | 01 |
| REACTIVE LYMPHOCYTES | DNR | NORMAL | 0-10 % | 01 |
| MONOCYTES | 9.5 | NORMAL | % | 01 |
| EOSINOPHILS | 1.9 | NORMAL | % | 01 |
| BASOPHILS | 1.6 | NORMAL | % | 01 |
| BLASTS | DNR | NORMAL | % | 01 |
| NUCLEATED RBC | DNR | NORMAL | 0 /100 WBC | 01 |
| COMMENT(S) | DNR | NORMAL | | 01 |

SED RATE BY MODIFIED WESTERGRN

| | | | | |
|--------------------------------|---|--------|----------------|----|
| SED RATE BY MODIFIED WESTERGRN | 6 | NORMAL | < OR = 20 mm/h | 01 |
|--------------------------------|---|--------|----------------|----|

C-REACTIVE PROTEIN

| | | | | |
|--------------------|-----|--------|-----------|----|
| C-REACTIVE PROTEIN | 1.5 | NORMAL | <8.0 mg/L | 01 |
|--------------------|-----|--------|-----------|----|

VITAMIN D, 25-OH, TOTAL, IA

| | | | | |
|-----------------------------|----|-----|--------------|----|
| VITAMIN D, 25-OH, TOTAL, IA | 16 | LOW | 30-100 ng/mL | 02 |
|-----------------------------|----|-----|--------------|----|

Vitamin D Status 25-OH Vitamin D:

Deficiency: <20 ng/mL
 Insufficiency: 20 - 29 ng/mL
 Optimal: > or = 30 ng/mL

For 25-OH Vitamin D testing on patients on D2-supplementation and patients for whom quantitation of D2 and D3 fractions is required, the QuestAssured(TM) 25-OH VIT D, (D2,D3), LC/MS/MS is recommended: order code 92888 (patients >2yrs).

For more information on this test, go to:
<http://education.questdiagnostics.com/faq/FAQ163>
 (This link is being provided for informational/educational purposes only.)

HEMOGLOBIN A1c WITH eAG

| | | | | |
|----------------|-----|------|---------------------|----|
| HEMOGLOBIN A1c | 6.3 | HIGH | <5.7 % of total Hgb | 01 |
|----------------|-----|------|---------------------|----|

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.

For someone with known diabetes, a value <7% indicates that their diabetes is well controlled. A1c targets should be individualized based on duration of diabetes, age, comorbid conditions, and other considerations.

This assay result is consistent with an increased risk of diabetes.

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

| | | | | |
|--------------|-----|--------|--------|----|
| eAG (mg/dL) | 134 | NORMAL | (calc) | 01 |
| eAG (mmol/L) | 7.4 | NORMAL | (calc) | 01 |

MAGNESIUM, RBC

| | | | | |
|----------------|-----|--------|---------------|----|
| MAGNESIUM, RBC | 4.3 | NORMAL | 4.0-6.4 mg/dL | 03 |
|----------------|-----|--------|---------------|----|

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

Performing Laboratory Information:

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Medical Director: Elizabeth D Iole

02: Quest Diagnostics-West Hills, 8401 Fallbrook Ave, West Hills CA, phone: , Medical Director:
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03: Quest Diagnostics-Nichols Valencia, 27027 Tourney Rd, Valencia CA, phone: , Medical
Director: MD, PhD Jon Nakamoto

SAMPLE REPORT

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