

## Quest Diagnostics

## SPECIMEN INFORMATION

SPECIMEN: LV340301F  
REQUISITION: 00954919  
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                                                                                                                                                                                                                                                                                                                                                         |                |        |                            |     |
| <b>LIPID PANEL WITH RATIOS</b>                                                                                                                                                                                                                                                                                                                                       |                |        |                            |     |
| CHOLESTEROL, TOTAL                                                                                                                                                                                                                                                                                                                                                   | 137            | NORMAL | <200 mg/dL                 | 01  |
| HDL CHOLESTEROL                                                                                                                                                                                                                                                                                                                                                      | 54             | NORMAL | >40 mg/dL                  | 01  |
| TRIGLYCERIDES                                                                                                                                                                                                                                                                                                                                                        | 174            | HIGH   | <150 mg/dL                 | 01  |
| LDL-CHOLESTEROL                                                                                                                                                                                                                                                                                                                                                      | 58             | NORMAL | mg/dL (calc)               | 01  |
| Reference range: <100                                                                                                                                                                                                                                                                                                                                                |                |        |                            |     |
| Desirable range <100 mg/dL for primary prevention;<br><70 mg/dL for patients with CHD or diabetic patients<br>with > or = 2 CHD risk factors.                                                                                                                                                                                                                        |                |        |                            |     |
| LDL-C is now calculated using the Martin-Hopkins<br>calculation, which is a validated novel method providing<br>better accuracy than the Friedewald equation in the<br>estimation of LDL-C.<br>Martin SS et al. JAMA. 2013;310(19): 2061-2068<br>( <a href="http://education.QuestDiagnostics.com/faq/FAQ164">http://education.QuestDiagnostics.com/faq/FAQ164</a> ) |                |        |                            |     |
| CHOL/HDL-C RATIO                                                                                                                                                                                                                                                                                                                                                     | 2.5            | NORMAL | <5.0 (calc)                | 01  |
| LDL/HDL RATIO                                                                                                                                                                                                                                                                                                                                                        | 1.1            | NORMAL | (calc)                     | 01  |
| Below Average Risk: <2.28<br>Average Risk: 2.29-4.90<br>Moderate Risk: 4.91-7.12<br>High Risk: >7.13                                                                                                                                                                                                                                                                 |                |        |                            |     |
| NON HDL CHOLESTEROL                                                                                                                                                                                                                                                                                                                                                  | 83             | NORMAL | <130 mg/dL (calc)          | 01  |
| For patients with diabetes plus 1 major ASCVD risk<br>factor, treating to a non-HDL-C goal of <100 mg/dL<br>(LDL-C of <70 mg/dL) is considered a therapeutic<br>option.                                                                                                                                                                                              |                |        |                            |     |
| <b>IRON AND TOTAL IRON BINDING CAPACITY</b>                                                                                                                                                                                                                                                                                                                          |                |        |                            |     |
| IRON, TOTAL                                                                                                                                                                                                                                                                                                                                                          | 129            | NORMAL | 50-180 mcg/dL              | 01  |
| IRON BINDING CAPACITY                                                                                                                                                                                                                                                                                                                                                | 343            | NORMAL | 250-425 mcg/dL (calc)      | 01  |
| % SATURATION                                                                                                                                                                                                                                                                                                                                                         | 38             | NORMAL | 15-60 % (calc)             | 01  |
| <b>COMPREHENSIVE METABOLIC PANEL</b>                                                                                                                                                                                                                                                                                                                                 |                |        |                            |     |
| GLUCOSE                                                                                                                                                                                                                                                                                                                                                              | 89             | NORMAL | 65-99 mg/dL                | 01  |
| Fasting reference interval                                                                                                                                                                                                                                                                                                                                           |                |        |                            |     |
| UREA NITROGEN (BUN)                                                                                                                                                                                                                                                                                                                                                  | 12             | NORMAL | 7-25 mg/dL                 | 01  |
| CREATININE                                                                                                                                                                                                                                                                                                                                                           | 0.80           | NORMAL | 0.70-1.18 mg/dL            | 01  |
| For patients >49 years of age, the reference limit<br>for Creatinine is approximately 13% higher for people<br>identified as African-American.                                                                                                                                                                                                                       |                |        |                            |     |
| eGFR NON-AFR. AMERICAN                                                                                                                                                                                                                                                                                                                                               | 88             | NORMAL | > OR = 60<br>mL/min/1.73m2 | 01  |
| eGFR AFRICAN AMERICAN                                                                                                                                                                                                                                                                                                                                                | 102            | NORMAL | > OR = 60<br>mL/min/1.73m2 | 01  |
| BUN/CREATININE RATIO                                                                                                                                                                                                                                                                                                                                                 | NOT APPLICABLE | NORMAL | 6-22 (calc)                | 01  |
| SODIUM                                                                                                                                                                                                                                                                                                                                                               | 144            | NORMAL | 135-146 mmol/L             | 01  |
| POTASSIUM                                                                                                                                                                                                                                                                                                                                                            | 4.2            | NORMAL | 3.5-5.3 mmol/L             | 01  |
| CHLORIDE                                                                                                                                                                                                                                                                                                                                                             | 104            | NORMAL | 98-110 mmol/L              | 01  |

|                                |            |          |                      |    |
|--------------------------------|------------|----------|----------------------|----|
| CARBON DIOXIDE                 | 29         | NORMAL   | 20-32 mmol/L         | 01 |
| CALCIUM                        | 9.6        | NORMAL   | 8.6-10.3 mg/dL       | 01 |
| PROTEIN, TOTAL                 | 7.3        | NORMAL   | 6.1-8.1 g/dL         | 01 |
| ALBUMIN                        | 4.4        | NORMAL   | 3.6-5.1 g/dL         | 01 |
| GLOBULIN                       | 2.9        | NORMAL   | 1.9-3.7 g/dL (calc)  | 01 |
| ALBUMIN/GLOBULIN RATIO         | 1.5        | NORMAL   | 1.0-2.5 (calc)       | 01 |
| BILIRUBIN, TOTAL               | 0.5        | NORMAL   | 0.2-1.2 mg/dL        | 01 |
| ALKALINE PHOSPHATASE           | 73         | NORMAL   | 40-115 U/L           | 01 |
| AST                            | 52         | HIGH     | 10-35 U/L            | 01 |
| ALT                            | 44         | NORMAL   | 9-46 U/L             | 01 |
| <b>URINALYSIS, COMPLETE</b>    |            |          |                      |    |
| COLOR                          | YELLOW     | NORMAL   | YELLOW               | 01 |
| APPEARANCE                     | CLOUDY     | ABNORMAL | CLEAR                | 01 |
| SPECIFIC GRAVITY               | 1.018      | NORMAL   | 1.001-1.035          | 01 |
| PH                             | > OR = 8.5 | ABNORMAL | 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 |
| <b>CBC (INCLUDES DIFF/PLT)</b> |            |          |                      |    |
| WHITE BLOOD CELL COUNT         | 4.8        | NORMAL   | 3.8-10.8 Thousand/uL | 01 |
| RED BLOOD CELL COUNT           | 3.97       | LOW      | 4.20-5.80 Million/uL | 01 |
| HEMOGLOBIN                     | 14.2       | NORMAL   | 13.2-17.1 g/dL       | 01 |
| HEMATOCRIT                     | 40.4       | NORMAL   | 38.5-50.0 %          | 01 |
| MCV                            | 101.8      | HIGH     | 80.0-100.0 fL        | 01 |
| MCH                            | 35.8       | HIGH     | 27.0-33.0 pg         | 01 |
| MCHC                           | 35.1       | NORMAL   | 32.0-36.0 g/dL       | 01 |
| RDW                            | 12.7       | NORMAL   | 11.0-15.0 %          | 01 |
| PLATELET COUNT                 | 200        | NORMAL   | 140-400 Thousand/uL  | 01 |
| MPV                            | 9.5        | NORMAL   | 7.5-12.5 fL          | 01 |
| ABSOLUTE NEUTROPHILS           | 2530       | 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           | 1406       | NORMAL   | 850-3900 cells/uL    | 01 |
| ABSOLUTE MONOCYTES             | 466        | NORMAL   | 200-950 cells/uL     | 01 |
| ABSOLUTE EOSINOPHILS           | 346        | NORMAL   | 15-500 cells/uL      | 01 |
| ABSOLUTE BASOPHILS             | 53         | NORMAL   | 0-200 cells/uL       | 01 |
| ABSOLUTE BLASTS                | DNR        | NORMAL   | 0 cells/uL           | 01 |
| ABSOLUTE NUCLEATED RBC         | DNR        | NORMAL   | 0 cells/uL           | 01 |
| NEUTROPHILS                    | 52.7       | NORMAL   | %                    | 01 |

|                      |      |        |            |    |
|----------------------|------|--------|------------|----|
| BAND NEUTROPHILS     | DNR  | NORMAL | %          | 01 |
| METAMYELOCYTES       | DNR  | NORMAL | %          | 01 |
| MYELOCYTES           | DNR  | NORMAL | %          | 01 |
| PROMYELOCYTES        | DNR  | NORMAL | %          | 01 |
| LYMPHOCYTES          | 29.3 | NORMAL | %          | 01 |
| REACTIVE LYMPHOCYTES | DNR  | NORMAL | 0-10 %     | 01 |
| MONOCYTES            | 9.7  | NORMAL | %          | 01 |
| EOSINOPHILS          | 7.2  | NORMAL | %          | 01 |
| BASOPHILS            | 1.1  | NORMAL | %          | 01 |
| BLASTS               | DNR  | NORMAL | %          | 01 |
| NUCLEATED RBC        | DNR  | NORMAL | 0 /100 WBC | 01 |
| COMMENT(S)           | DNR  | NORMAL |            | 01 |

**Performing Laboratory Information:**

01: Quest Diagnostics-Dallas Lab, 4770 Regent Blvd, Irving TX, phone: , Director: Dr Robert L Breckenridge