Patient Information	Specimen Information	Client Information
EPSTEIN, JEFFREY **DOB: 01/20/1953 AGE: 65** Gender: M Phone: 561.366.0084 Patient ID: 19530120MJE Health ID: 8573003290851249	Specimen: MR839110N Requisition: 0006872 Collected: 11/23/2018 Received: 11/23/2018 / 21:23 EST Reported: 11/24/2018 / 06:36 EST	Client #: 78300020 56W5265 MOSKOWITZ, BRUCE W BRUCE MOSKOWITZ, MD Attn: NATIONWIDE ACCOUNT 1411 N FLAGLER DR STE 7100 WEST PALM BEACH, FL 33401-3418

Test Name	In Range	Out Of Range	Reference Range	Lab
PROTEIN, TOTAL AND PROTEIN ELECTROPHORESIS				
PROTEIN, TOTAL, SERUM				MI
PROTEIN, TOTAL	7.1		6.1-8.1 g/dL	
LIPID PANEL, STANDARD				
CHOLESTEROL, TOTAL		**216 H**	<200 mg/dL	MI
HDL CHOLESTEROL		**23 L**	>40 mg/dL	MI
TRIGLYCERIDES		**935 H**	<150 mg/dL	MI
LDL-CHOLESTEROL			mg/dL (calc)	MI
LDL cholesterol not calculated. Triglyceride levels greater than 400 mg/dL invalidate calculated LDL results.				
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		**9.4 H**	<5.0 (calc)	MI
NON HDL CHOLESTEROL		**193 H**	<130 mg/dL (calc)	MI
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.				
COMPREHENSIVE METABOLIC PANEL				MI
GLUCOSE		**111 H**	65-99 mg/dL Fasting reference interval	
For someone without known diabetes, a glucose value between 100 and 125 mg/dL is consistent with prediabetes and should be confirmed with a follow-up test.				
UREA NITROGEN (BUN)	20		7-25 mg/dL	
CREATININE	0.95		0.70-1.25 mg/dL	
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	84		> OR = 60 mL/min/1.73m2	
eGFR AFRICAN AMERICAN	97		> OR = 60 mL/min/1.73m2	
BUN/CREATININE RATIO	NOT APPLICABLE		6-22 (calc)	
SODIUM	138		135-146 mmol/L	
POTASSIUM	4.4		3.5-5.3 mmol/L	
CHLORIDE	105		98-110 mmol/L	

Patient Information	Specimen Information	Client Information
EPSTEIN, JEFFREY **DOB: 01/20/1953 AGE: 65** Gender: M Patient ID: 19530120MJE Health ID: 8573003290851249	Specimen: MR839110N Collected: 11/23/2018 Received: 11/23/2018 / 21:23 EST Reported: 11/24/2018 / 06:36 EST	Client #: 78300020 MOSKOWITZ, BRUCE W

Test Name	In Range	Out Of Range	Reference Range	Lab
CARBON DIOXIDE	24		20-32 mmol/L	
CALCIUM	9.9		8.6-10.3 mg/dL	
PROTEIN, TOTAL	7.1		6.1-8.1 g/dL	
ALBUMIN	4.4		3.6-5.1 g/dL	
GLOBULIN	2.7		1.9-3.7 g/dL (calc)	
ALBUMIN/GLOBULIN RATIO	1.6		1.0-2.5 (calc)	
BILIRUBIN, TOTAL	0.7		0.2-1.2 mg/dL	
ALKALINE PHOSPHATASE	60		40-115 U/L	
AST	23		10-35 U/L	
ALT	36		9-46 U/L	
HEMOGLOBIN A1c		**5.7 H**	<5.7 % of total Hgb	MI
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.				
URIC ACID	6.9		4.0-8.0 mg/dL	MI
Therapeutic target for gout patients: <6.0 mg/dL				
TSH	2.44		0.40-4.50 mIU/L	MI
T4 (THYROXINE), TOTAL	7.6		4.9-10.5 mcg/dL	MI
FREE T4 INDEX (T7)	2.3		1.4-3.8	
T3 UPTAKE	30		22-35 %	MI
SED RATE BY MODIFIED				MI
WESTERGREN	11		< OR = 20 mm/h	
CBC (INCLUDES DIFF/PLT)				MI
WHITE BLOOD CELL COUNT	6.0		3.8-10.8 Thousand/uL	
RED BLOOD CELL COUNT	5.28		4.20-5.80 Million/uL	
HEMOGLOBIN	15.4		13.2-17.1 g/dL	
HEMATOCRIT	44.3		38.5-50.0 %	
MCV	83.9		80.0-100.0 fL	
MCH	29.2		27.0-33.0 pg	
MCHC	34.8		32.0-36.0 g/dL	
RDW	13.0		11.0-15.0 %	
PLATELET COUNT	273		140-400 Thousand/uL	
MPV	10.6		7.5-12.5 fL	
ABSOLUTE NEUTROPHILS	2892		1500-7800 cells/uL	
ABSOLUTE LYMPHOCYTES	2298		850-3900 cells/uL	
ABSOLUTE MONOCYTES	492		200-950 cells/uL	
ABSOLUTE EOSINOPHILS	270		15-500 cells/uL	
ABSOLUTE BASOPHILS	48		0-200 cells/uL	
NEUTROPHILS	48.2		%	
LYMPHOCYTES	38.3		%	
MONOCYTES	8.2		%	

Patient Information	Specimen Information	Client Information
EPSTEIN, JEFFREY **DOB: 01/20/1953 AGE: 65** Gender: M Patient ID: 19530120MJE Health ID: 8573003290851249	Specimen: MR839110N Collected: 11/23/2018 Received: 11/23/2018 / 21:23 EST Reported: 11/24/2018 / 06:36 EST	Client #: 78300020 MOSKOWITZ, BRUCE W

Test Name	In Range	Out Of Range	Reference Range	Lab
EOSINOPHILS	4.5		%	
BASOPHILS	0.8		%	
IRON AND TOTAL IRON BINDING CAPACITY				MI
IRON, TOTAL	91		50-180 mcg/dL	
IRON BINDING CAPACITY	336		250-425 mcg/dL (calc)	
% SATURATION	27		15-60 % (calc)	
PSA, TOTAL	0.6		< OR = 4.0 ng/mL	MI

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.

Patient Information	Specimen Information	Client Information
EPSTEIN, JEFFREY **DOB: 01/20/1953 AGE: 65** Gender: M Patient ID: 19530120MJE Health ID: 8573003290851249	Specimen: MR839110N Collected: 11/23/2018 Received: 11/23/2018 / 21:23 EST Reported: 11/24/2018 / 06:36 EST	Client #: 78300020 MOSKOWITZ, BRUCE W

Endocrinology

Test Name	Result	Reference Range	Lab
VITAMIN D,25-OH,TOTAL,IA	24 L	30-100 ng/mL	MI

```
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.)

Physician Comments:

PENDING TESTS:

PROTEIN ELECTROPHORESIS	FERRITIN
HS CRP	VITAMIN B12
HOMOCYSTEINE	C-REACTIVE PROTEIN
CALCIUM, IONIZED	MERCURY, BLOOD
IMMUNOFIXATION, SERUM	TESTOSTERONE, FREE (DIALYSIS) AND TOTAL,MS
URINALYSIS, COMPLETE	

PERFORMING SITE:

MI QUEST DIAGNOSTICS-MIAMI, 10200 COMMERCE PARKWAY, MIRAMAR, FL 33025-3938 Laboratory Director: JULIE L FRIEDMAN,MD, CLIA: 10D0277334