CMP with Estimated GFR (CPT-80053); Thyroid Panel w/TSH; Testosterone, Free and Total (includes SHBG) (CPT- 84403,84270); CBC with Diff; Sed Rate (ESR); Lipid Profile; Uric Acid; Magnesium; Vitamin B12; Folate; Hemoglobin A1C; PSA; CRP (C-Reactive Protein); Rheumatoid (RA) Factor; Anti Nuclear Antibody (ANA) Reflex; Helicobacter Pylori Ab, IgG; RPR Reflex to T.pallidum Ab, Total; Homocysteine; Urinalysis Reflex; Lyme Ab, Wstrn Blt IgG,IgM no bands; Vitamin D (25-Hydroxy); ANA Titer and Pattern; Ammonia; Cytomegalovirus Ab, IgG; Epstein-Barr Virus Antibody Panel I

Result Name	Normal	Abnormal	Limits	Lab
CMP with Estimated GFR				
Sodium	143		135-145 mEq/L	SLN
Potassium	4.2		3.5-5.3 mEq/L	SLN
Chloride	104		96-112 mEq/L	SLN
CO2	25		19-32 mEq/L	SLN
Glucose	90		70-99 mg/dL	SLN
BUN	12		6-23 mg/dL	SLN
Creatinine	0.95		0.40-1.50 mg/dL	SLN
Bilirubin, Total	0.8		0.3-1.2 mg/dL	SLN
Alkaline Phosphatase	56		39-117 U/L	SLN
AST/SGOT	14		0-37 U/L	SLN
ALT/SGPT	13		0-53 U/L	SLN
Total Protein	7.0		6.0-8.3 g/dL	SLN
Albumin	4.4		3.5-5.2 g/dL	SLN
Calcium	9.3		8.4-10.5 mg/dL	SLN
Est GFR, African American	>60		>60 mL/min	SLN
Est GFR, NonAfrican American	>60		>60 mL/min	SLN
Thyroid Panel with TSH				
T4	8.9		5.0-12.5 ug/dL	SLN
T3 Uptake	33.7		22.5-37.0 %	SLN
Free Thyroxine Index	3.0		1.0-3.9	SLN
TSH	2.512		0.350-4.500 uIU/mL	SLN
Testosterone, Free and Total (includes SHBG)				
Testosterone, Total	610.25		ng/dL	SLN

*** Please note change in reference range(s). ***

Tanner Stage	Male	Female
I	< 30 ng/dL	< 10 ng/dL
II	< 150 ng/dL	< 30 ng/dL

CMP with Estimated GFR (CPT-80053); Thyroid Panel w/TSH; Testosterone, Free and Total (includes SHBG) (CPT- 84403,84270); CBC with Diff; Sed Rate (ESR); Lipid Profile; Uric Acid; Magnesium; Vitamin B12; Folate; Hemoglobin A1C; PSA; CRP (C-Reactive Protein); Rheumatoid (RA) Factor; Anti Nuclear Antibody (ANA) Reflex; Helicobacter Pylori Ab, IgG; RPR Reflex to T.pallidum Ab, Total; Homocysteine; Urinalysis Reflex; Lyme Ab, Wstrn Blt IgG,IgM no bands; Vitamin D (25-Hydroxy); ANA Titer and Pattern; Ammonia; Cytomegalovirus Ab, IgG; Epstein-Barr Virus Antibody Panel I

Result Name	Normal	Abnormal	Limits	Lab
III	100-320 ng/dL		< 35 ng/dL	
IV	200-970 ng/dL		15-40 ng/dL	
V	250-890 ng/dL		10-70 ng/dL	
Sex Hormone Binding Globulin	56		nmol/L	SLN
Testosterone, Free	92.7		pg/mL	SLN
The concentration of free testosterone is derived from a mathematical expression based on constants for the binding of testosterone to sex hormone-binding globulin and albumin.				
Testosterone, % Free	1.5		%	SLN
CBC with Diff				
WBC		**3.3 L**	**4.0-10.5 K/uL**	**SLN**
RBC	5.27		4.22-5.81 MIL/uL	SLN
Hemoglobin	15.4		13.0-17.0 g/dL	SLN
Hematocrit	47.6		39.0-52.0 %	SLN
MCV	90.3		78.0-100.0 fL	SLN
MCH	29.2		26.0-34.0 pg	SLN
MCHC	32.4		30.0-36.0 g/dL	SLN
RDW	12.6		11.5-15.5 %	SLN
Platelet Count		**135 L**	**150-400 K/uL**	**SLN**
Granulocyte %	43		43-77 %	SLN
Absolute Gran		**1.4 L**	**1.7-7.7 K/uL**	**SLN**
Lymph %	44		12-46 %	SLN
Absolute Lymph	1.5		0.7-4.0 K/uL	SLN
Mono %	8		3-12 %	SLN
Absolute Mono	0.3		0.1-1.0 K/uL	SLN
Eos %	3		0-5 %	SLN
Absolute Eos	0.1		0.0-0.7 K/uL	SLN

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Result Name	Normal	Abnormal	Limits	Lab	
Baso %	1		0-1 %	SLN	
Absolute Baso	0.0		0.0-0.1 K/uL	SLN	
Smear Review	Criteria for review not met				SLN
Sed Rate (ESR)	1		mm/hr	SLN	
Lipid Profile					
Cholesterol	121		0-200 mg/dL	SLN	

ATP III Classification:

< 200	mg/dL	Desirable
200 - 239	mg/dL	Borderline High
> 240	mg/dL	High

Triglyceride	56		<150 mg/dL	SLN	
HDL Cholesterol	53		>39 mg/dL	SLN	
Total Chol/HDL Ratio	2.3		Ratio	SLN	
VLDL Cholesterol (Calc)	11		0-40 mg/dL	SLN	
LDL Cholesterol (Calc)	57		0-99 mg/dL	SLN	

Total Cholesterol/HDL Ratio:CHD Risk

Coronary Heart Disease Risk Table

	Men	Women
1/2 Average Risk	3.4	3.3
Average Risk	5.0	4.4
2 X Average Risk	9.6	7.1
3 X Average Risk	23.4	11.0

Use the calculated Patient Ratio above and the CHD Risk table to determine the patient's CHD Risk.

ATP III Classification (LDL):

< 100	mg/dL	Optimal
100 - 129	mg/dL	Near or Above Optimal

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Result Name		Normal	Abnormal	Limits	Lab
130 - 159	mg/dL		Borderline High		
160 - 189	mg/dL		High		
> 190	mg/dL		Very High		
Uric Acid		4.2		4.0-7.8 mg/dL	SLN
Magnesium		1.8		1.5-2.5 mg/dL	SLN
Vitamin B12		594		211-911 pg/mL	SLN
Folate		8.0		ng/mL	SLN

Reference Ranges
Deficient: 0.4 - 3.3 ng/mL
Indeterminate: 3.4 - 5.4 ng/mL
Normal: > 5.4 ng/mL

Hemoglobin A1C					
Hemoglobin A1C		5.3		<5.7 %	SLN

According to the ADA Clinical Practice Recommendations for 2011, when HbA1c is used as a screening test:

>=6.5% Diagnostic of Diabetes Mellitus (if abnormal result is confirmed)

5.7-6.4% Increased risk of developing Diabetes Mellitus

References:Diagnosis and Classification of Diabetes Mellitus,Diabetes Care,2011,34(Suppl 1):S62-S69 and Standards of Medical Care in Diabetes - 2011,Diabetes Care,2011,34 (Suppl 1):S11-S61.

Estimated Average Glucose		105		<117 mg/dL	SLN
PSA		0.34		0.10-4.00 ng/mL	SLN

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Result Name	Normal	Abnormal	Limits	Lab
Test Methodology: Hybritech PSA				
CRP (C-Reactive Protein)	0.0		<0.6 mg/dL	SLN
Rheumatoid (RA) Factor	< 20		0-20 IU/mL	SLN
Anti Nuclear Antibody (ANA) Reflex				
Anti Nuclear Antibody (ANA)		**POS ABN**	**NEGATIVE**	**SLN**
ANA Titer and Pattern				
ANA Titer	NEG		<1:40	SLN

Reference Ranges:
1:40 - 1:80 Weakly positive, usually not clinically significant.
> or = to 1:160 Result may be clinically significant.
Due to differences in methodologies, results may differ between the ANA screen and the Reflex IFA titer and pattern.

ANA Pattern				SLN

Pattern not applicable due to a negative titer result.

Helicobacter Pylori Ab, IgG	0.9		ISR	SLN

No significant level of IgG antibody to H. pylori detected.

ISR = Immune Status Ratio

< 0.90 ISR	Negative
0.91-1.09 ISR	Equivocal
>= 1.10 ISR	Positive

The above results were obtained with the Immulite 2000 H. pylori IgG EIA. Results obtained from other manufacturer's assay methods may not be used interchangeably.

RPR Reflex to T.pallidum Ab, Total

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Result Name	Normal	Abnormal	Limits	Lab
RPR	NON REAC		NON REAC	SLN
Homocysteine	10.1		4.0-15.4 umol/L	SLN
Urinalysis Reflex				
Color	YELLOW		YELLOW	SLN
Appearance	CLEAR		CLEAR	SLN
Specific Gravity	1.020		1.005-1.030	SLN
pH	6.0		5.0-8.0	SLN
Glucose	NEG		NEG mg/dL	SLN
Bilirubin	NEG		NEG	SLN
Ketone	NEG		NEG mg/dL	SLN
Blood	NEG		NEG	SLN
Protein	NEG		NEG mg/dL	SLN
Urobilinogen	0.2		0.0-1.0 mg/dL	SLN
Nitrite	NEG		NEG	SLN
Leukocyte Esterase	NEG		NEG	SLN
Cytomegalovirus Ab, IgG		**0.93 H**	**<0.90**	**SLN**

Result	Interpretation
<0.90	Negative for anti-CMV IgG antibody
> 0.90 to <1.10	Equivocal
> 1.10	Positive for anti-CMV IgG antibody

A positive result indicates that the patient has antibodies to CMV. It does not differentiate between an active or past infection. The clinical diagnosis must be interpreted in conjunction with the clinical signs and symptoms of the patient.

Epstein-Barr Virus Antibody Panel I				
EBV VCA IgG	0.16		ISR	SLN

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Result Name	Normal	Abnormal	Limits	Lab
EBV VCA IgM	0.16		ISR	SLN
EBV NA IgG	0.06		ISR	SLN
EBV EA IgG	0.48		ISR	SLN

ISR = Immune Status Ratio

<= 0.90 ISR	Negative
0.91-1.09 ISR	Equivocal
>= 1.10 ISR	Positive

Clinical Stage	VCA IgG	VCA IgM	EBV NA	EA
Susceptibility	-	-	-	-
Very Early Infection	+/-	+/-	-	-
Established Infection	+	+	-	+/-
Recent Infection	+	+	+/-	+/-
Past Infection	+	-	+	+/-

+/- means positive or negative (not 'weak')
High persisting antibody levels may be present in Burkitt's lymphoma and nasopharyngeal carcinoma.

Lyme Ab, Wstrn Blt IgG,IgM no bands

Lyme Disease Ab IgG, WB	Negative	Negative	SLN

IgG Positive: Any five of the following ten bands: 18, 23, 28, 30, 39, 41, 45, 58, 66, 93 kDa.
IgG Negative: Any pattern that does not meet the IgG positive criteria.

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Result	Name	Normal	Abnormal	Limits	Lab
	Lyme Disease Ab IgM, WB	Negative	Negative		SLN
	IgM Positive: Any two of the following three bands: 23, 39, 41 kDa. IgM Negative: Any pattern that does not meet the IgM positive criteria.				
	A positive IgM test result alone is not recommended for use in determining active disease due to a high likelihood of a false-positive result in persons with illness greater than 1 month duration. The CDC recommends testing by the EIA antibody test, followed by the Western Blot confirmatory test only when the EIA test is positive.				
	Ammonia	Test Not Performed		16-53 umol/L	SLN
	Proper collection of samples to be analyzed for plasma Ammonia is essential. The Ammonia content of whole blood increases rapidly at room temperature. Plasma should be removed from red blood cells and frozen immediately after venipuncture.				
	NO FPO RECEIVED				
	Vitamin D (25-Hydroxy)	**26**	**L**	**30-89 ng/mL**	**SLN**
	This assay accurately quantifies Vitamin D, which is the sum of the 25-Hydroxy forms of Vitamin D2 and D3. Studies have shown that the optimum concentration of 25-Hydroxy Vitamin D is 30 ng/mL or higher. Concentrations of Vitamin D between 20 and 29 ng/mL are considered to be insufficient and concentrations less than 20 ng/mL are considered				

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Result Name	Normal	Abnormal	Limits	Lab

to be deficient for Vitamin D.

Legend:

SLN---------->

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