

12/24/10

Tests	Results	Units	Reference Interval	Lab
CBC With Differential/Platelet				
WBC	4.6	x10E3/uL	4.0-10.5	01
RBC	5.09	x10E6/uL	4.10-5.60	01
Hemoglobin	16.1	g/dL	12.5-17.0	01
Hematocrit	46.5	%	36.0-50.0	01
MCV	91	fL	80-98	01
MCH	31.6	pg	27.0-34.0	01
MCHC	34.6	g/dL	32.0-36.0	01
RDW	12.8	%	11.7-15.0	01
Platelets	143	x10E3/uL	140-415	01
Neutrophils	54	%	40-74	01
Lymphs	32	%	14-46	01
Monocytes	10	%	4-13	01
Eos	3	%	0-7	01
Basos	1	%	0-3	01
Neutrophils (Absolute)	2.5	x10E3/uL	1.8-7.8	01
Lymphs (Absolute)	1.5	x10E3/uL	0.7-4.5	01
Monocytes(Absolute)	0.5	x10E3/uL	0.1-1.0	01
Eos (Absolute)	0.1	x10E3/uL	0.0-0.4	01
Baso (Absolute)	0.0	x10E3/uL	0.0-0.2	01
Immature Granulocytes	0	%	0-1	01
Please note reference interval change				
Immature Grans (Abs)	0.0	x10E3/uL	0.0-0.1	01
Comp. Metabolic Panel (14)				
Glucose, Serum	85	mg/dL	65-99	01
BUN	15	mg/dL	5-26	01
Creatinine, Serum	1.14	mg/dL	0.76-1.27	01
eGFR	>59	mL/min/1.73	>59	
eGFR AfricanAmerican	>59	mL/min/1.73	>59	
Note: Persistent reduction for 3 months or more in an eGFR <60 mL/min/1.73 m2 defines CKD. Patients with eGFR values >/=60 mL/min/1.73 m2 may also have CKD if evidence of persistent proteinuria is present. Additional information may be found at www.kdoqi.org				
Effective April 4, 2011, Glom Filt Rate, Estimated, will be calculated using the CK-EPI formula.				
BUN/Creatinine Ratio	13		8-27	
Sodium, Serum	140	mmol/L	135-145	01
Potassium, Serum	4.0	mmol/L	3.5-5.2	01
Chloride, Serum	100	mmol/L	97-108	01
Carbon Dioxide, Total	26	mmol/L	20-32	01
Calcium, Serum	9.6	mg/dL	8.7-10.2	01
Protein, Total, Serum	6.8	g/dL	6.0-8.5	01
Albumin, Serum	4.7	g/dL	3.5-5.5	01
Globulin, Total	2.1	g/dL	1.5-4.5	
A/G Ratio	2.2		1.1-2.5	
Bilirubin, Total	0.9	mg/dL	0.0-1.2	01
Alkaline Phosphatase, S	67	IU/L	25-150	01
AST (SGOT)	32	IU/L	0-40	01
ALT (SGPT)	30	IU/L	0-55	01
Testosterone,Free+Weakly Bound				
Testosterone, Serum	1157	H ng/dL	280-800	01
Testost., % Free+Weakly Bound	21.2	%	9.0-46.0	02

Testost., F+W Bound 245.3 ng/dL 40.0-250.0
 Dihydrotestosterone
 Dihydrotestosterone 191 ng/dL 03
 Reference Range:
 Adult Male: 30 - 85

Estradiol, Sensitive
 Estradiol, Sensitive 30 pg/mL 3-70 02
 Male Female
 0- 6 yrs. 0 - 15 0 - 15
 7-10 yrs. 0 - 15 0 - 70
 11-12 yrs. 0 - 40 10 - 300
 13-15 yrs. 0 - 45 10 - 300
 >15 yrs. 3 - 70 See Below
 Ovulating Female
 Follicular Phase 9 - 175
 Luteal Phase 44 - 196
 Periovulatory 107 - 281
 Oral Contraceptives 0 - 91
 Postmenopausal
 Treated 42 - 289
 Untreated 0 - 19

Estradiol results obtained with different assay methods cannot be used interchangeably. It is recommended that only one assay method be used consistently to monitor serial patient results.

Testosterone, Free, Direct
 Free Testosterone(Direct) 23.1 pg/mL 8.7-25.1 01
 Thyroxine (T4) Free, Direct, S
 T4,Free(Direct) 0.68 L ng/dL 0.82-1.77 01
 Dehydroepiandrosterone Sulfate
 DHEA-Sulfate 78.7 L ug/dL 88.9-427.0 01
 Prostate-Specific Ag, Serum
 Prostate Specific Ag, Serum 1.3 ng/mL 0.0-4.0 01
 Roche ECLIA methodology.

According to the American Urological Association, Serum PSA should decrease and remain at undetectable levels after radical prostatectomy. The AUA defines biochemical recurrence as an initial PSA value 0.2 ng/mL or greater followed by a subsequent confirmatory PSA value 0.2 ng/mL or greater.

Values obtained with different assay methods or kits cannot be used interchangeably. Results cannot be interpreted as absolute evidence of the presence or absence of malignant disease.

Thyroxine (T4) 3.9 L ug/dL 4.5-12.0 01
 Triiodothyronine (T3) 89 ng/dL 71-180 01
 Reverse T3 217 pg/mL 90-350 02
 Progesterone 0.5 ng/mL 0.2-1.4 01
 Triiodothyronine,Free,Serum 3.0 pg/mL 2.0-4.4 01
 Sex Horm Binding Glob, Serum 50.2 H nmol/L 14.5-48.4 01

12/23/10

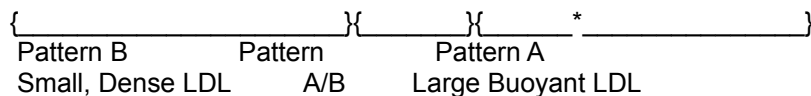
Growth Hormone, Urine 24 hr DHEA Urine

Tests	Results	Units	Reference Interval	Lab
Growth Hormone, Urine 24 hr				
Growth Hormone/Creat. Ratio	1.8	ng/g	01	
Reference Range:				
Adults (19 - 43y):				
Overnight collection	0.2 - 14.8			
24 h collection	0.2 - 13			
Growth Hormone Urine, 24 Hr	2.2	ng/24 h	01	
24 hr Creatinine, Urine	1172	mg/24h	01	
Reference Range:				
Males: 1000 - 2000				
Creatinine, Urine	38	mg/dL	01	
DHEA Urine				
DHEA Urine	0.4 L	mg/24 hrs	0.5-7.2	02

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03/09/11 Entered
 03/09/11 Last Report
 03/15/11

Tests	Results	Units	Reference Interval	Lab
VAP Cholesterol Profile				
Lipids				
LDL Cholesterol	84	mg/dL	<130 01	
HDL Cholesterol	49	mg/dL	>=40 01	
VLDL Cholesterol	13	mg/dL	<30 01	
Cholesterol, Total	147	mg/dL	<200 01	
Triglycerides	51	mg/dL	<150 01	
Non HDL Chol. (LDL+VLDL)	98	mg/dL	<160 01	
apoB100-calc	69	mg/dL	<109 01	
LDL-R (Real)-C	70	mg/dL	<100 01	
Lp(a) Cholesterol	8.0	mg/dL	<10 01	
IDL Cholesterol	6	mg/dL	<20 01	
Remnant Lipo. (IDL+VLDL3)	14	mg/dL	<30 01	
Clinical Consideration			01	
Probable Metabolic Syndrome		No	No	01
Sub-Class Information			01	
HDL-2 (Most Protective)	12	mg/dL	>10 01	
HDL-3 (Less Protective)	37	mg/dL	>30 01	
VLDL-3 (Small Remnant)	8	mg/dL	<10 01	
LDL1 Pattern A	11.0	mg/dL	01	
LDL2 Pattern A	28.4	mg/dL	01	
LDL3 Pattern B	27.3	mg/dL	01	
LDL4 Pattern B	3.7	mg/dL	01	
LDL Density Pattern	A	A	01	



Amino Acid Prof, Qn, Random Ur				
Phosphoserine,Ur	32.8	L	umol/g Creat.	50.0-535.5 02
Taurine,Ur	983.2		umol/g Creat.	37.7-1959.0 02
Phosphoethanolamine,Ur	0.0		umol/g Creat.	0.0-177.3 02
Aspartic acid,Ur	20.9		umol/g Creat.	10.8-143.5 02
Hydroxyproline,Ur	0.0		umol/g Creat.	0.0-312.1 02
Threonine,Ur	78.1		umol/g Creat.	60.7-409.8 02
Serine,Ur	201.6		umol/g Creat.	42.9-842.5 02
Asparagine,Ur	32.8	L	umol/g Creat.	35.0-491.7 02
Glutamic acid,Ur	8.2		umol/g Creat.	4.9-130.8 02
Glutamine,Ur	206.9		umol/g Creat.	74.3-1308.2 02
Sarcosine,Ur	16.9		umol/g Creat.	0.0-82.5 02
a-Amino adipic acid,Ur	28.4		umol/g Creat.	2.0-178.3 02
Proline,Ur	13.7		umol/g Creat.	11.9-270.7 02
Glycine,Ur	327.8		umol/g Creat.	201.0-6830.0 02
Alanine(a-Alanine),Ur	54.2	L	umol/g Creat.	72.6-717.3 02
Citrulline,Ur	7.7		umol/g Creat.	0.0-81.6 02
a-Amino-N-butyric acid,Ur	11.0		umol/g Creat.	4.5-128.3 02
Valine,Ur	24.7		umol/g Creat.	13.9-154.3 02
Cystine,Ur	21.5		umol/g Creat.	16.3-225.1 02

Methionine,Ur	3.9	L	umol/g Creat.	11.5-210.5	02	
Cystathionine,Ur	15.4		umol/g Creat.	7.5-113.5	02	
Isoleucine,Ur	11.8		umol/g Creat.	7.7-110.6	02	
Leucine,Ur	20.7		umol/g Creat.	10.9-167.3	02	
Tyrosine,Ur	40.8		umol/g Creat.	12.4-370.4	02	
Phenylalanine,Ur	29.6		umol/g Creat.	17.8-180.8	02	
B-Alanine,Ur	14.4		umol/g Creat.	2.9-149.8	02	
B-Aminoisobutyric acid,Ur	73.9		umol/g Creat.	14.6-518.8	02	
Homocystine,Ur	0.0	L	umol/g Creat.	15.0-30.0	02	
g-Aminobutyric acid,Ur	0.0		umol/g Creat.	0.0-31.0	02	
Tryptophan,Ur	50.8		umol/g Creat.	7.4-194.5	02	
Ornithine,Ur	13.5		umol/g Creat.	2.5-92.6	02	
Lysine,Ur	61.8		umol/g Creat.	18.2-635.0	02	
Histidine,Ur	379.8		umol/g Creat.	93.8-1767.6	02	
3-Methyl-histidine,Ur	210.8		umol/g Creat.	99.1-521.0	02	
1-Methyl-histidine,Ur	1590.0		umol/g Creat.	19.0-1958.1	02	
Carnosine,Ur	17.5		umol/g Creat.	0.0-113.9	02	
Anserine,Ur	0.0		umol/g Creat.	0.0-288.7	02	
Arginine,Ur	29.1		umol/g Creat.	6.2-91.0	02	
Creatinine,Ur	27.6		mg/dL	02		

Interpretation

02

Urine amino acid analysis reveals variations from the normal reference range for several amino acids. The pattern is not suggestive of a specific aminoacidopathy. This pattern may be due to differences in normal metabolism, patient diet, or treatment.

Results reviewed by: Suzette M. Huguenin, Ph.D., FACMG
 Director, Biochemical and Molecular Genetics
 800-345-GENE

Contact:

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To discuss these results or other testing for inborn errors of metabolism, contact our Biochemical Geneticists, Dr. Geraldine McDowell or Dr. Suzette Huguenin at 800-345-GENE.

Methodology:

Amino acids were separated by high performance liquid chromatography (HPLC) with post-column ninhydrin derivatization.

CBC With Differential/Platelet

WBC	4.7	x10E3/uL	4.0-10.5	03	
RBC	5.30	x10E6/uL	4.10-5.60	03	
Hemoglobin	16.3	g/dL	12.5-17.0	03	
Hematocrit	48.0	%	36.0-50.0	03	
MCV	91	fL	80-98	03	
MCH	30.8	pg	27.0-34.0	03	
MCHC	34.0	g/dL	32.0-36.0	03	
RDW	12.9	%	11.7-15.0	03	
Platelets	170	x10E3/uL	140-415	03	
Neutrophils	54	%	40-74	03	
Lymphs	33	%	14-46	03	
Monocytes	9	%	4-13	03	
Eos	3	%	0-7	03	
Basos	1	%	0-3	03	
Neutrophils (Absolute)	2.5	x10E3/uL	1.8-7.8	03	
Lymphs (Absolute)	1.5	x10E3/uL	0.7-4.5	03	
Monocytes(Absolute)	0.4	x10E3/uL	0.1-1.0	03	
Eos (Absolute)	0.1	x10E3/uL	0.0-0.4	03	
Baso (Absolute)	0.0	x10E3/uL	0.0-0.2	03	
Immature Granulocytes	0	%	0-1	03	
Please note reference interval change					
Immature Grans (Abs)	0.0	x10E3/uL	0.0-0.1	03	

Comp. Metabolic Panel (14)

Glucose, Serum	78	mg/dL	65-99	03
BUN	19	mg/dL	6-20	03
Creatinine, Serum	1.11	mg/dL	0.76-1.27	03
eGFR	>59	mL/min/1.73	>59	
eGFR AfricanAmerican	>59	mL/min/1.73	>59	

Note: Persistent reduction for 3 months or more in an eGFR <60 mL/min/1.73 m2 defines CKD. Patients with eGFR values >/=60 mL/min/1.73 m2 may also have CKD if evidence of persistent proteinuria is present. Additional information may be found at www.kdoqi.org

Effective April 4, 2011, Glom Filt Rate, Estimated, will be
calculated using the CK-EPI formula.

BUN/Creatinine Ratio	17		8-19	
Sodium, Serum	139	mmol/L	135-145	03
Potassium, Serum	4.1	mmol/L	3.5-5.2	03
Chloride, Serum	99	mmol/L	97-108	03
Carbon Dioxide, Total	27	mmol/L	20-32	03
Calcium, Serum	9.7	mg/dL	8.7-10.2	03
Protein, Total, Serum	7.1	g/dL	6.0-8.5	03
Albumin, Serum	4.4	g/dL	3.5-5.5	03
Globulin, Total	2.7	g/dL	1.5-4.5	
A/G Ratio	1.6		1.1-2.5	
Bilirubin, Total	1.2	mg/dL	0.0-1.2	03
Alkaline Phosphatase, S	70	IU/L	25-150	03
AST (SGOT)	16	IU/L	0-40	03
ALT (SGPT)	27	IU/L	0-55	03
Testosterone, Free+Weakly Bound				
Testosterone, Serum	1139	H ng/dL	249-836	03
Testost., % Free+Weakly Bound			% 9.0-46.0	02
Testost., F+W Bound	184.5	ng/dL	40.0-250.0	
Pregnenolone, MS				
Pregnenolone, MS	48	ng/dL	04	
Reference Range:				
Adults:	<151			

Gliadin IgG/IgA Ab Prof, EIA

Deamidated Gliadin Abs, IgA	4	units	0-19	03
Negative			0 - 19	
Weak Positive			20 - 30	
Moderate to Strong Positive			>30	
Deamidated Gliadin Abs, IgG	4	units	0-19	03
Negative			0 - 19	
Weak Positive			20 - 30	
Moderate to Strong Positive			>30	

Dihydrotestosterone

Dihydrotestosterone	246	ng/dL	04
Reference Range:			
Adult Male:	30 - 85		

Thyroxine (T4) Free, Direct, S

T4, Free(Direct)	0.75	L ng/dL	0.82-1.77	03
TSH				
TSH	0.012	L uIU/mL	0.450-4.500	03
Luteinizing Hormone(LH), S				
LH	0.1	L mIU/mL	1.7-8.6	03

ACTH, Plasma					
ACTH, Plasma	44.9	pg/mL	7.2-63.3	03	
ACTH reference interval for samples collected between 7 and 10 AM.					
Dehydroepiandrosterone Sulfate					
DHEA-Sulfate	128.7	ug/dL	88.9-427.0	03	
IGF-1					
Insulin-Like Growth Factor I	278	ng/mL	109-284	03	
Estradiol, Sensitive					
Estradiol, Sensitive	7	pg/mL	3-70	02	
		Male	Female		
	0- 6 yrs.	0 - 15	0 - 15		
	7-10 yrs.	0 - 15	0 - 70		
	11-12 yrs.	0 - 40	10 - 300		
	13-15 yrs.	0 - 45	10 - 300		
	>15 yrs.	3 - 70	See Below		
		Ovulating Female			
		Follicular Phase	9 - 175		
		Luteal Phase	44 - 196		
		Periovulatory	107 - 281		
		Oral Contraceptives	0 - 91		
		Postmenopausal			
		Treated	42 - 289		
		Untreated	0 - 19		

Estradiol results obtained with different assay methods cannot be used interchangeably. It is recommended that only one assay method be used consistently to monitor serial patient results.

Testosterone, Free, Direct					
Free Testosterone(Direct)	21.0	pg/mL	8.7-25.1	03	
Homocyst(e)ine, Plasma					
Homocyst(e)ine, Plasma	7.1	umol/L	0.0-15.0	03	
Thyroxine (T4)	5.0	ug/dL	4.5-12.0	03	
Triiodothyronine (T3)	100	ng/dL	71-180	03	
Reverse T3	238	pg/mL	90-350	02	
Progesterone	0.6	ng/mL	0.2-1.4	03	
Ferritin, Serum	110	ng/mL	30-400	03	
Triiodothyronine,Free,Serum	3.2	pg/mL	2.0-4.4	03	
Prealbumin	26	mg/dL	20-40	03	
Vitamin A, Serum	55	ug/dL	19-83	02	
Sex Horm Binding Glob, Serum		55.0 H	nmol/L	14.5-48.4	03
Cortisol - AM	16.4	ug/dL	6.2-19.4	03	

5/02/11

Volume
Patient Name
BEAN, SHAWN Sex
M

H pylori, IgM, IgG, IgA Ab Estradiol, Sensitive
Sex Horm Binding Glob, Serum Venipuncture

Tests	Results	Units	Reference Interval	Lab
H pylori, IgM, IgG, IgA Ab				
H. pylori IgG, Abs	<0.9	U/mL	0.0-0.8	01
	Negative	<0.9		
	Indeterminate	0.9 - 1.0		
	Positive	>1.0		
H. pylori, IgA ABS	<0.89	index	0.00-0.88	01
	Negative	<0.89		
	Equivocal	0.89 - 0.99		
	Positive	>0.99		
H.pylori, IgM ABS	<0.80	index	0.00-0.79	01
	Negative	<0.80		
	Equivocal	0.80 - 1.19		
	Positive	>1.19		

Current studies suggest that H. pylori IgM testing should be performed concomitantly with H. pylori IgA and/or IgG tests to support a diagnosis of Helicobacter pylori infection.

For research use only, not for use in clinical diagnostic procedures.

Estradiol, Sensitive	23	pg/mL	3-70	02
		Male Female		
		0- 6 yrs. 0 - 15 0 - 15		
		7-10 yrs. 0 - 15 0 - 70		
		11-12 yrs. 0 - 40 10 - 300		
		13-15 yrs. 0 - 45 10 - 300		
		>15 yrs. 3 - 70 See Below		
		Ovulating Female		
		Follicular Phase 9 - 175		
		Luteal Phase 44 - 196		
		Periovulatory 107 - 281		
		Oral Contraceptives 0 - 91		
		Postmenopausal		
		Treated 42 - 289		
		Untreated 0 - 19		

Estradiol results obtained with different assay methods cannot be used interchangeably. It is recommended that only one assay method be used consistently to monitor serial patient results.

Sex Horm Binding Glob, Serum 39.8 nmol/L 14.5-48.4 01
*** END OF REPORT ***
01 RN LabCorp Raritan Dir: Michael Mahoney, MD

