ACCU | REFERENCE MEDICAL LAB
1901 E. LINDEN AVE. SUITE 4 | LINDEN, NJ 07036-1195 | (908)474-1004

FINAL REPORT

CLINICAL REPORT

Comments:

Fasting: NOT PROVIDED

**********OUT OF RANGE SUMMARY**********

Test	Result	Abnormal	Reference	Units	Previous Result	Date
% FREE PSA		16 L	25% - 99%	%	16	07/10/18
Interpret only if Total PSA is between 4.0 - 10.0 ng/mL. Clinical correlations also required. fPSA% <10% = CANCER RISK >49% fPSA% >25% = CANCER RISK <10%						

**** HEMATOLOGY ****

CBC

Test	Result	Abnormal	Reference	Units	Previous Result	Date
WBC	6.4		4.2 - 11.8	10^3/uL	6.2	07/10/18
RBC	4.60		4.4 - 5.8	10^6/uL	4.97	07/10/18
HEMOGLOBIN	14.5		13.1 - 17.1	g/dL	15.4	07/10/18
HEMATOCRIT	44		40 - 50.4	%	48	07/10/18
MCV	95		80.8 - 97.4	fL	97	07/10/18
MCH	31.4		26.6 - 33.0	pg	30.9	07/10/18
MCHC	33.1		32 - 34.9	g/dL	32.0	07/10/18
RDW	13.7		11.8 - 15.5	%	14.1	07/10/18
PLATELET	223		147 - 365	10^3/uL	256	07/10/18
MPV	9.48		6.00 - 12.00	fL	9.39	07/10/18

AUTOMATED DIFFERENTIAL

Test	Result	Abnormal	Reference	Units	Previous Result	Date
SEGMENTED %	60.9		43.7 - 73.5	%	67.5	07/10/18
SEGMENTED #	3.9		1.9 - 7.5	10^3/uL	4.2	07/10/18
LYMPHOCYTES %	32.12		17.9 - 45.1	%	27.97	07/10/18
LYMPHOCYTES #	2.1		1 - 4	10^3/uL	1.7	07/10/18
MONOCYTES %	5.7		3.8 - 10	%	3.8	07/10/18
MONOCYTES #	0.4		0.2 - 0.9	10^3/uL	0.2	07/10/18
EOSINOPHILS %	0.94		0.0 - 6.1	%	0.31	07/10/18
EOSINOPHILS #	0.06		0.0 - 0.5	10^3/uL	0.02	07/10/18
BASOPHILS %	0.36		0.0 - 0.9	%	0.46	07/10/18
BASOPHILS #	0.02		0.0 - 0.1	10^3/uL	0.03	07/10/18

****CHEMISTRY****

COMPREHENSIVE METABOLIC

Test	Result	Abnormal	Reference	Units	Previous Result	Date
SODIUM	142		136 - 145	mmol/L	139	07/10/18
POTASSIUM	4.5		3.5 - 5.1	mmol/L	3.7	07/10/18
CHLORIDE	105		98 - 107	mmol/L	99	07/10/18
CARBON DIOXIDE	26.0		17 - 32	mEq/L	24.0	07/10/18

(Continued on Next Page)

CLINICAL REPORT

Comments:

Fasting: NOT PROVIDED

****CHEMISTRY**** (Continued)

Test	Result	Abnormal	Reference	Units	Previous Result	Date
GLUCOSE	83		70 - 99	mg/dL	79	07/10/18
BUN	20		7 - 25	mg/dL	16	07/10/18
CREATININE SERUM	0.89		0.7 - 1.3	mg/dL	0.99	07/10/18
BUN/CREATININE RATIO	22		8 - 28	Ratio	16	07/10/18
BILIRUBIN,Total	0.3		0.2 - 1.0	mg/dL	0.7	07/10/18
CALCIUM	9.0		8.6 - 10.5	mg/dL	9.5	07/10/18
PROTEIN TOTAL	7.2		6.6 - 8.2	g/dL	7.9	07/10/18
ALBUMIN	4.5		3.5 - 5.7	g/dL	4.8	07/10/18
ALK.PHOSPHATASE	55		34 - 104	U/L	65	07/10/18
ALT (SGPT)	35		7 - 52	U/L	27	07/10/18
AST (SGOT)	28		11 - 39	U/L	31	07/10/18
GLOBULIN	2.7		1.8 - 4.0	g/dL	3.1	07/10/18
A/G RATIO	1.7		0.8 - 2.7	Ratio	1.5	07/10/18
GLOMERULAR FILT. RATE	99		>60	mL/min	88	07/10/18*

If African-American result is: >60
For African-American patients, the GFR should be adjusted.
Please multiply the reported value by 1.21

****THYROID****

Test	Result	Abnormal	Reference	Units	Previous Result	Date
FREE T4	0.82		0.61 - 1.12	ng/dL		

Patients with high serum biotin levels will have falsely elevated results.

****HORMONES****

Test	Result	Abnormal	Reference	Units	Previous Result	Date
DHEA-SULFATE	211.0		34.5 - 568.9	ug/dL	216.7	07/10/18
ESTRADIOL	26.9		39.8	pg/mL	22.6	07/23/18

REFERENCE RANGE:
FEMALES:
MENSTRAUATING FEMALE (by day in cycle realtive to LH peak)

FOLLICULAR PHASE	19.5 - 144.2
MIDCYCLE	63.9 - 356.7
LUTEAL	55.8 - 214.2
POSTMENOPAUSAL (untreated)	0.00 - 32.2
MALES:	0.00 - 39.8

Test	Result	Abnormal	Reference	Units	Previous Result	Date
PROGESTERONE	<0.20			ng/mL	0.31	07/10/18

Reference Range:
Males 0.27 - 0.90
Normal Females

(Continued on Next Page)

CLINICAL REPORT

Comments:

Fasting: NOT PROVIDED

****HORMONES**** (Continued)

Test	Result	Abnormal	Reference	Units	Previous Result	Date
follicular phase	0.33 - 1.20					
luteal phase	0.72 - 17.80					
mid luteal phase	6.00 - 24.00					
Postmenopausal phase	0 - 1.00					
Pregnant Females						
first trimester	9.3 - 33.2					
second trimester	29.5 - 50.0					
third trimester	83.1 - 160.0					
TESTOSTERONE TOTAL	238.02		198 - 679	ng/dL	408.97	07/10/18
NO RANGES ESTABLISHED FOR MALES BELOW 18 AND OVER 66 YEARS OLD						
NO RANGES ESTABLISHED FOR FEMALES BELOW 21 AND OVER 73 YEARS OLD						
PLEASE NOTE: THE UNITS FOR TOTAL TESTOSTERONE WAS CHANGED TO ng/dL						
TESTO FREE CALCULATED	63.00			%	88.00	07/10/18
REFERENCE RANGE:						
Males 20-50 years	24.3-110.2 %					
Females 20-46 years	0.65-10.93 %					
Post-menopausal females 47-91 years	0.23-6.80 %					
FAI (Free Androgen Index(%)= FTI (Free Testosterone Index calculated						
NO RANGES ESTABLISHED FOR MALES BELOW 20 AND OVER 50YEARS OLD.						
NO RANGES ESTABLISHED FOR FEMALES BELOW 20 AND OVER 46 YEARS OLD.						
SEX HORMONE BINDING GLOB	13.2		13.2 - 89.6	nmol/L	16.1	07/10/18
REFERENCE RANGE :						
Males 20-50 years	13.3-89.5 nmol/L					
Females 20-46 years	18.2-135.5 nmol/L					
Post-menopausal females 47-91 years	16.8-125.2 nmol/L					
NO RANGES ESTABLISHED FOR MALES BELOW 20 AND OVER 50 YEARS OLD.						
NO RANGES ESTABLISHED FOR FEMALES BELOW 20 AND OVER 91 YEARS OLD.						

****HORMONES****

Test	Result	Abnormal	Reference	Units	Previous Result	Date
PREGNENOLONE	18.3		13 - 208	ng/dL	56.6	07/10/18
This test was developed and its characteristics determined by Accu Reference Medical Lab. This test has not been cleared by the FDA. It is used for clinical purposes, it is not meant to be used as the only diagnostic method.						

PROSTATE HEALTH

Test	Result	Abnormal	Reference	Units	Previous Result	Date
PSA	1.73		0.0 - 4.0	ng/mL	2.50	07/10/18
PSA Hybritech better defines the 4.0 - 10.0 ng/mL gray zone effective						

(Continued on Next Page)

CLINICAL REPORT

Comments:

Fasting: NOT PROVIDED

PROSTATE HEALTH (Continued)

Test	Result	Abnormal	Reference	Units	Previous Result	Date
	04/06/2016. Methodology: Paramagnetic Particle Chemiluminescent Immunoassay- Beckman Diagnostics. Values obtained with different PSA assay methods cannot be used interchangeably. Do not interpret serum PSA as absolute evidence of the presence of malignant disease. PSA levels should be used concurrently with other diagnostic and clinical patient information.					
PSA FREE	0.280		0.00 - 2.30	ng/mL	0.400	07/10/18
	FREE PSA ASSAY IS ONLY VALID WHEN THE TOTAL PSA RANGE IS BETWEEN 4-10ng/mL.FREE PSA RESULTS SHOULD BE USED IN CONJUNCTION WITH OTHER DIAGNOSTIC PROCEDURES AVAILABLE FROM THE CLINICAL EVALUATION. Methodology: Paramagnetic Particle Chemiluminescent Immunoassay? Beckman Diagnostics. Values obtained with different Free PSA assay methods cannot be used interchangeably. Do not interpret serum Free PSA as absolute evidence of the presence of malignant disease. Free PSA levels should be used concurrently with other diagnostic and clinical patient information.					
% FREE PSA	16 L		25% - 99%	%	16	07/10/18
	Interpret only if Total PSA is between 4.0 - 10.0 ng/mL. Clinical correlations also required. fPSA% <10% = CANCER RISK >49% fPSA% >25% = CANCER RISK <10%					
p2PSA	7.67			pg/mL	9.77	07/10/18
PHI	36.03				38.62	07/10/18
	Probability of Prostate Cancer on Biopsy for BeckmanCoulter. PHI in Patients with PSA between 4 and 10ng/mL with normal DRE.					
	BeckmanCoulter phi Range (Hybritech Calibration)	Probability of Cancer	95% Confidence Interval			
	0 - 26.9	9.8%	5.2% - 15.4%			
	27.0 - 35.9	16.8%	11.3% - 22.2%			
	36.0 - 54.9	33.3%	26.8% - 39.9%			
	55.0+	50.1%	39.8% - 61.0%			

****VITAMINS****

Test	Result	Abnormal	Reference	Units	Previous Result	Date
VITAMIN B12	644		180 - 914	pg/mL		
	INDETERMINATE		145 - 180	pg/mL		
	DEFICIENT		<= 145	pg/ml		
	THIS ASSAY IS NOT VALIDATED FOR TESTING NEONATAL OR MYELOPROLIFERATIVE SYNDROME SPECIMENS.					
FOLATE	>23.90		5.9 - 24.8	ng/mL		

(Continued on Next Page)

CLINICAL REPORT

Comments:

Fasting: NOT PROVIDED

****METALS & MINERALS****

Test	Result	Abnormal	Reference	Units	Previous Result	Date	
			reported: 10/26/18 02:14				
COPPER							
Copper, Serum/Plasma	82		70 - 140	ug/dL			*1

INTERPRETIVE INFORMATION: Copper, Serum or Plasma
Serum copper may be elevated with infection, inflammation, stress, and copper supplementation. In females, elevated copper may also be caused by oral contraceptives and pregnancy (concentrations may be elevated up to 3 times normal during the third trimester).
Serum copper may be reduced by use of corticosteroids and zinc and by malnutrition or malabsorption.
See Compliance Statement B at www.aruplab.com/cs
Performed by ARUP Laboratories,
500 Chipeta Way, SLC,UT 84108 800-522-2787
www.aruplab.com, Julio Delgado, MD, Lab. Director

****

Test	Result	Abnormal	Reference	Units	Previous Result	Date	
			reported: 10/26/18 08:23				
Magnesium, RBC	6.0		4.2 - 6.8	mg/dL			*2

---------- ENDOFREPORT ----------

*1) Unless otherwise noted, Tests Performed at :
ARUP Laboratories, UT, 84 www.arupla
Director : Julio Delgado, MD
*2) Unless otherwise noted, Tests Performed at :
LabCorp Burlington, Burlington, NC 272153361
Director : William F Hancock, MD 8007624344

*THE FOLLOWING PREVIOUS TEST RESULTS WERE ACCOMPANIED BY FREE TEXT AND/OR CANNED COMMENTS:
GLOMERULAR FILT. RATE : 88 (07/10/18)
If African American result is: >60