

PeaceHealth Laboratory

123 International y
Springfield, OR 97477

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1-800-826-3616

USHA HONEYMAN DC ND
1368 NW LINCOLN AVE
CORVALLIS, OR 97330-2650

ACCT. NO. EA34168647
COLLECT. 04/03/13 17:00
RECEIVED 04/03/13 23:05
REPORTED 04/04/13 14:48

Fax: 915417548698
PATIENT MARTIN, JOYCE
PT I.D.
SEX F AGE 57Y
Pt. Phone: 541.990.9994
FINAL REPORT page 1

85982

Req#: 17261546

DOB 07/13/55

Test Procedure	Results	Reference Range
COMPREHENSIVE METABOLIC PANEL		Lab No:100
SODIUM	139	135-145 mEq/L
POTASSIUM	4.6	3.5-5.2 mEq/L
CHLORIDE	107	95-109 mEq/L
CO2 CONTENT	25	22-31 mEq/L
ANION GAP	7	3-12
GLUCOSE	173 H	70-99 mg/dL
BUN	7 L	8-20 mg/dL
CREATININE	0.6	0.44-1.03 mg/dL
PROTEIN, TOTAL	6.9	6.2-8.4 g/dL
ALBUMIN	3.5	3.5-5.0 g/dL
GLOBULIN	3.4	2.2-3.6 g/dL
CALCIUM	8.9	8.6-10.2 mg/dL
BILIRUBIN, TOT	0.4	0.1-1.2 mg/dL
ALKALINE PHOS	86	30-110 IU/L
ALT	48	14-54 IU/L
AST	36	15-41 IU/L
GFR (MDRD equation)	>60	>60 mL/min/1.73m2
GFR BLACK (MDRD equation)	>60	>60 mL/min/1.732m2
FASTING STATUS	UNKNOWN	

Test Procedure	Results	Reference Range
ESTRADIOL	28	Lab No:100 pg/mL Female: Post-menopausal: <20-40 Non-Pregnant: Mid follicular: 27-122 Mid luteal: 49-291 Peri-ovulatory: 95-433

** CONTINUED ON NEXT PAGE **

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Test Procedure	Results	Reference Range
PROGESTERONE	1.71	ng/mL Non-pregnant females Mid-follicular: 0.31 - 1.52 Mid-luteal: 5.16 - 18.56 Post menopausal: <0.08 - 0.78 Pregnancy First trimester: 4.73 - 50.74 Second trimester: 19.41-45.30

Lab No:100

Test Procedure	Results	Reference Range
TESTOSTERONE, TOTAL AND FREE		Lab No:100
SEX HORMONE BINDING GLOBULIN	34.1	30-135 nmol/L
TESTOSTERONE, TOTAL	33	<10-50 ng/dL
FREE TESTOSTERONE	6.3 H	0.6-3.8 pg/mL
TESTOSTERONE, % FREE	<u>1.9</u>	0.4-2.4 %

NOTE:

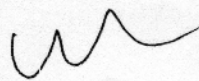
TESTOSTERONE, FREE

To convert to pmol/L, multiply pg/mL by 3.47.

The concentration of Free Testosterone is derived from a mathematical expression based on constants for the binding of testosterone to sex hormone binding globulin (SHBG).

Free testosterone levels are not reliable in situations where large amounts of steroids are binding to SHBG, such as in women during pregnancy and in men during treatment inducing

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Test Procedure Results Reference Range
high levels of dihydrotestosterone (transdermal and oral
testosterone).

ALBUMIN 3.5 3.5-5.0 g/dL Lab No:100

VITAMIN D,25-HYDROXY 44.9 32.0-80.0 ng/mL Lab No:100

Reference Ranges: Vitamin D-25 Hydroxy
<10 ng/mL severe deficiency
10-19 ng/mL mild to moderate deficiency
20-31 ng/mL hypovitaminosis*
32-80 ng/mL optimum levels
>100 ng/mL possible toxicity

*hypovitaminosis D range represent Vitamin D levels in the normal
range but may be found in patients with depleted body stores of
Vitamin D and where PTH levels can be slightly elevated.

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DOB 07/13/55

Test Procedure
MTHFR 2 MUTATIONS

Results

Reference Range

Lab No: 100

C677T MUTATION
A1298C MUTATION

HETEROZYGOUS
HETEROZYGOUS

SEE DETAIL
SEE DETAIL

POSITIVE FOR COMPOUND HETEROZYGOTE MTHFR MUTATIONS C677T AND A1298C

One copy of the MTHFR gene mutation C677T was detected and one copy of the MTHFR gene mutation A1298C was detected. This genotype is predicted to be associated with increased plasma homocysteine levels and an increased risk for coronary heart disease and venous thrombosis as well as for toxicity from medications affecting folate metabolism.

Mutations in the MTHFR gene (C677T and A1298C) correlate with reduced enzyme activity; however, only homozygotes for C677T or compound heterozygotes for C677T/A1298C have significantly elevated plasma homocysteine levels and increased risk for premature cardiovascular disease. These individuals may also show toxicity from medications (i.e. methotrexate) that affects folate metabolism.

Appropriate use of this test requires medical interpretation and counseling within the overall clinical care of the individual patient.

Methodology: PCR and solid phase electrochemical detection (voltammetry).

** END OF PATIENT REPORT **

