Patient Information	Specimen Information	Client Information
HANCOCK, TENISHA **DOB: 04/21/1978 AGE: 44** Gender: F Phone: NG Patient ID: 1921649	Specimen: AL257932X Requisition: 1470072 Lab Ref #: 1172950 Collected: 10/31/2022 / 12:28 EDT Received: 11/01/2022 / 00:23 EDT Reported: 11/04/2022 / 15:40 EDT	Client #: 10485914 QATL000 DAVIS, CHENEY HUMANIZING MEDICINE 135 MAPLE ST BLDG A DECATUR, GA 30030-3953

Test Name	In Range	Out Of Range	Reference Range	Lab
HOMOCYSTEINE	6.3		<10.4 umol/L	AT
Homocysteine is increased by functional deficiency of folate or vitamin B12. Testing for methylmalonic acid differentiates between these deficiencies. Other causes of increased homocysteine include renal failure, folate antagonists such as methotrexate and phenytoin, and exposure to nitrous oxide. Selhub J, et al., Ann Intern Med. 1999;131(5):331-9.				
TSH	1.19		mIU/L Reference Range > or = 20 Years 0.40-4.50 Pregnancy Ranges First trimester 0.26-2.66 Second trimester 0.55-2.73 Third trimester 0.43-2.91	AT
T4 (THYROXINE), TOTAL	8.9		5.1-11.9 mcg/dL	AT
T4, FREE	1.3		0.8-1.8 ng/dL	AT
T3, FREE	2.9		2.3-4.2 pg/mL	AT
T3 REVERSE, LC/MS/MS	15		8-25 ng/dL	AMD
This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics Nichols Institute Chantilly, VA. It has not been cleared or approved by the U.S. Food and Drug Administration. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.				
THYROGLOBULIN ANTIBODIES	<1		< or = 1 IU/mL	AT
THYROID PEROXIDASE ANTIBODIES	1		<9 IU/mL	AT
CBC (INCLUDES DIFF/PLT)				AT
WHITE BLOOD CELL COUNT		**2.9 L**	3.8-10.8 Thousand/uL	
RED BLOOD CELL COUNT		**3.68 L**	3.80-5.10 Million/uL	
HEMOGLOBIN	12.6		11.7-15.5 g/dL	
HEMATOCRIT	37.0		35.0-45.0 %	
MCV		**100.5 H**	80.0-100.0 fL	
MCH		**34.2 H**	27.0-33.0 pg	
MCHC	34.1		32.0-36.0 g/dL	
RDW	11.1		11.0-15.0 %	
PLATELET COUNT	224		140-400 Thousand/uL	
MPV	9.8		7.5-12.5 fL	
ABSOLUTE NEUTROPHILS		**1320 L**	1500-7800 cells/uL	
ABSOLUTE LYMPHOCYTES	1279		850-3900 cells/uL	
ABSOLUTE MONOCYTES	273		200-950 cells/uL	
ABSOLUTE EOSINOPHILS	20		15-500 cells/uL	
ABSOLUTE BASOPHILS	9		0-200 cells/uL	
NEUTROPHILS	45.5		%	
LYMPHOCYTES	44.1		%	
MONOCYTES	9.4		%	
EOSINOPHILS	0.7		%	

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Test Name	In Range	Out Of Range	Reference Range	Lab
BASOPHILS	0.3		%	
FERRITIN	31		16-232 ng/mL	AT
VITAMIN B12	507		200-1100 pg/mL	AT
FOLATE, SERUM	23.9		ng/mL Reference Range Low: <3.4 Borderline: 3.4-5.4 Normal: >5.4	AT
DHEA SULFATE	65		15-205 mcg/dL	AT

DHEA-S values fall with advancing age.
For reference, the reference intervals for 31-40 year old patients are:

Male: 93-415 mcg/dL
Female: 19-237 mcg/dL

ESTRADIOL	89		pg/mL Reference Range Follicular Phase: 19-144 Mid-Cycle: 64-357 Luteal Phase: 56-214 Postmenopausal: < or = 31	AT

Reference range established on post-pubertal patient population. No pre-pubertal reference range established using this assay. For any patients for whom low Estradiol levels are anticipated (e.g. males, pre-pubertal children and hypogonadal/post-menopausal females), the Quest Diagnostics Nichols Institute Estradiol, Ultrasensitive, LCMSMS assay is recommended (order code 30289).

Please note: patients being treated with the drug fulvestrant (Faslodex(R)) have demonstrated significant interference in immunoassay methods for estradiol measurement. The cross reactivity could lead to falsely elevated estradiol test results leading to an inappropriate clinical assessment of estrogen status. Quest Diagnostics order code 30289-Estradiol, Ultrasensitive LC/MS/MS demonstrates negligible cross reactivity with fulvestrant.

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Endocrinology

Test Name	Result	Reference Range	Lab
CALCITRIOL 1,25 DIHYDROXYVITAMIN D			AMD
VITAMIN D, 1,25 (OH)2, TOTAL	50	18-72 pg/mL	
VITAMIN D3, 1,25 (OH)2	50	pg/mL	
VITAMIN D2, 1,25 (OH)2	<8	pg/mL	

Vitamin D3, 1,25(OH)2 indicates both endogenous production and supplementation. Vitamin D2, 1,25(OH)2 is an indicator of exogenous sources, such as diet or supplementation. Interpretation and therapy are based on measurement of Vitamin D,1,25(OH)2, Total.

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Physician Comments:

PERFORMING SITE:

AMD QUEST DIAGNOSTICS/NICHOLS CHANTILLY, 14225 NEWBROOK DRIVE, CHANTILLY, VA 20151-2228 Laboratory Director: PATRICK W. MASON,MD,PHD, CLIA: 49D0221801
AT QUEST DIAGNOSTICS-ATLANTA, 1777 MONTREAL CIRCLE, TUCKER, GA 30084-6802 Laboratory Director: ANDREW N YOUNG,MD,PHD, CLIA: 11D0255931

LIST OF RESULTS PRINTED IN THE OUT OF RANGE COLUMN:

WHITE BLOOD CELL COUNT	**2.9 L**	3.8-10.8 Thousand/uL	AT
RED BLOOD CELL COUNT	**3.68 L**	3.80-5.10 Million/uL	AT
MCV	**100.5 H**	80.0-100.0 fL	AT
MCH	**34.2 H**	27.0-33.0 pg	AT
ABSOLUTE NEUTROPHILS	**1320 L**	1500-7800 cells/uL	AT