



3703 Camino del Rio South 100-A San Diego, CA, 92108 619-450-5870 - Phone

619-450-6023 - Fax CLIA# 05D2027247 - Director: David J. Smith, MD

Patient: Acc #: AL-BLD-11307

Patient #: Birth:

Doctor: MD David J. Smith Age: 63 years Collection Date: 04/05/2019 11:41

Gender: Female Received in Lab: 04/05/2019 11:42

BLOOD WELLNESS TESTING

Test Name	Result	Units	Flag	Reference Range
COMPLETE BLOOD COUNT (CBC)				
WBC	11.7	10(3)/mcL	High	4.1 - 10.9
LYM	3.3	10(3)/mcL		0.6 - 4.1
MID	1.10	10(3)/mcL		0.02 - 1.80
GRA	7.3	10(3)/mcL		2.0 - 7.8
LYM%	28.0	%		10.0 - 58.5
MID%	9.8	%		0.1 - 24.0
GRA%	62.2	%		37.0 - 92.0
RBC	4.2	10(6)/mcL		4.2 - 6.3
HGB	12.7	g/dL		12.0 - 18.0
HCT	39.7	%		37.0 - 51.0
MCV	94.0	fL		80.0 - 97.0
MCH	30.1	pg		26.0 - 32.0
MCHC	32.0	g/dL		31.0 - 36.0
RDW	13.1	%		11.5 - 14.5
PLT	379	10(3)/mcL		140 - 440
MPV	8.5	fL		0.0 - 49.9

WELLNESS SUBPANEL - BLOOD				
Cholesterol (Total)	224.0	mg/dL		199.0 - 240.0
Triglycerides	125.0	mg/dL		1.0 - 200.0
HDL (High-Density Lipoprotein)	52.0	mg/dL		40.0 - 60.0
Direct LDL(DLDL)	149.0	mg/dL		80.0 - 190.0
Estradiol	<10.0	pg/mL	Low	10.0 - 649.0
Folate	8.6	ng/mL		7.0 - 20.0
Insulin	11.0	uU/mL		1.0 - 300.0
Lactate Dehydrogenase (LDH)	194.0	U/L		125.0 - 243.0
Progesterone	<0.1	ng/mL		0.0 - 0.2
Free Triiodothyronine (FT3)	2.0	pg/mL		1.7 - 5.1
Total Triiodothyronine (TT3)	0.6	ng/mL	Low	0.8 - 2.0
Free Thyroxine (FT4)	0.8	ng/dL		0.7 - 1.5
Total Thyroxine (TT4)	7.0	mcg/dL		4.5 - 12.5
Thyroid Stimulating Hormone (TSH)	5.6441	uIU/mL		0.4000 - 64.0000
T-Uptake	26.0	%		20.0 - 37.0
Ferritin	29.97	ng/mL		20.00 - 200.00
Vitamin B12	284.0	pg/mL		200.0 - 915.0

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Test Name	Result	Units	Flag	Reference Range
COMPLETE METABOLIC PANEL				
Albumin BCP	3.9	g/dL		3.4 - 6.0
Calculated Globulin (CG)	2.4	g/dL		1.9 - 3.7
A/G Ratio	1.6			1.0 - 2.5
Alkaline Phosphatase	74.0	U/L		55.0 - 135.0
Alanine Aminotransferase (ALT)	18.0	U/L		7.0 - 45.0
Aspartate Aminotransferase (AST)	14.0	U/L		8.0 - 43.0
Bilirubin (Total)	0.300	mg/dL		0.200 - 1.200
Calcium	9.2	mg/dL		8.4 - 10.2
Chloride	107.0	mmol/L		98.0 - 113.0
Potassium	4.2	mmol/L		3.5 - 5.1
Sodium	140.0	mmol/L		136.0 - 145.0
Creatinine	0.81	mg/dL		0.60 - 1.10
Carbon Dioxide (CO2)	21.0	mEq/L	Low	23.0 - 31.0
Blood Glucose	66	mg/dL	Low	80 - 115
Total Protein	6.3	g/dL		4.4 - 8.0
Urea (BUN) - Blood Urea Nitrogen	14.0	mg/dL		9.8 - 20.1
BUN/Creatinine Ratio (BCR)	17			6 - 22
eGFR calculated (Female)	78	mL/min/1.73m2		60 - 120
AA eGFR calculated (Female)	91	mL/min/1.73m2		60 - 120

Comments:

This test was performed at Alcala Testing and Analysis Services (CLIA# 05D2027247).

PLEASE NOTE:

BLOOD WELLNESS TESTING (Venipuncture WHOLE BLOOD and SERUM): ATAS provides clients with a Serum Separator Tube (SST) for serum collections and a 4 mL EDTA/Lavender tube for whole blood collections.

Order of draw is Serum (SST tube) then collect whole blood with the EDTA/Lavender tube. While all EDTA/Lavender tubes are optimized to contain 1.5 mg EDTA/ ml of whole blood, the minimum whole blood volume to draw suggested by the vendor (BD) is at least a 90% draw volume - that is a minimum of 3.6 mL whole blood per 4 mL EDTA/Lavender tube. Whole blood specimens drawn with less volume may clot and be rejected if clots are observed in the tube.

Anti-coagulated samples are required for many of the laboratory tests that are performed on a daily basis to assess and monitor patients. When these samples clot, they must be rejected and have to be recollected. Results are delayed, in turn delaying timely treatment of patients.

What causes clotted specimens? The top three causes of clotted samples are:

1. Leaving blood in a syringe too long before placing in tubes - syringes have no anticoagulant in them. When blood is drawn from a vein or a line, coagulation begins almost immediately.

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blood is t 3. Impropring inside of anticoag	of placing blood in tubes such as varansferred to a tube. Removing the per mixing of anti-coagulated tubes the tube while the blue top tube harmonist is properly mixed with the latermittently until filled to prevent	ne clot is prohibite is (primarily lavender as a liquid anticoagu blood components t	d ; it will not stop he and blue top tube alant. The tubes ne	emostasis and will affect results. s). The anticoagulant in the laven eed to be inverted at least 10 tir	der tube is sprayed onto the nes to make sure that the
<u>Notes:</u>					
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Reviewed By: _____

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