

PATIENT INFORMATION:

Zachary Scheel

Phone (H): (833) 753-1851

DOB: 10/18/1983

Gender: Male Age: 41

Patient ID: 64832968

STATUS: Final

Source: Quest
 Collection Date: 06/04/2025 05:50 PM UTC
 Time Reported: 06/16/2025 01:50 PM UTC
 Received: 06/16/2025 01:52 PM UTC
 Accession Number: SZ353494U
 Lab Ref #: 1370254

ORDERING PHYSICIAN:

Srinivas S Boppana, D.O.

600 Congress Avenue
 Floor 14
 Austin, TX, 78701

Test	In Range	Out Of Range	Reference Range	Lab
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FASTING: YES

FASTING: YES

GGT	Collected: 06/04/2025 05:50 PM UTC	Received: 06/04/2025 05:56 PM UTC		
GGT	18		3-95 U/L	UL
LEPTIN	Collected: 06/04/2025 05:50 PM UTC	Received: 06/04/2025 05:56 PM UTC		
LEPTIN	2.1		ng/mL	EZ

Reference Ranges for Leptin:

Adult Lean Subjects (18-71 years) with BMI range of 18-25:

Males: 0.3-13.4 ng/mL
 Females: 4.7-23.7 ng/mL

Adult Subjects (19-60 years) with BMI range of 25-30:

Males: 1.8-19.9 ng/mL
 Females: 8.0-38.9 ng/mL

Pediatric Reference Ranges for Leptin:

5-9.9 years: 0.6-16.8 ng/mL
 10-13.9 years: 1.4-16.5 ng/mL
 14-17.9 years: 0.6-24.9 ng/mL

This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics. It has not been cleared or approved by the FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

METHYLMALONIC ACID	Collected: 06/04/2025 05:50 PM UTC	Received: 06/04/2025 05:56 PM UTC		
METHYLMALONIC ACID	158		55-335 nmol/L	EZ

Serum methylmalonic acid (MMA) levels are used to diagnose and monitor several rare inborn errors of metabolism, including methylmalonic aciduria. The enzymatic conversion of MMA to succinic acid requires vitamin B12 (adenosyl-cobalamin) as a cofactor. Serum MMA levels are also used for assessing functional vitamin B12 deficiency.



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Test	In Range	Out Of Range	Reference Range	Lab
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Vitamin B12 is essential for fetal neurodevelopment, particularly early in pregnancy. Undiagnosed maternal vitamin B12 deficiency may be associated with adverse fetal/neonatal outcomes, such as neural tube defects and intrauterine growth restriction.

Quest Diagnostics utilized Multi-Modal Decomposition (MMD) analysis to establish first and second trimester-specific MMA reference intervals in pregnancy, as given below:

MMA, First trimester (<13 wks gestation): 58-167 nmol/L

MMA, Second trimester (13-23 wks gestation): 63-241 nmol/L

This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics. It has not been cleared or approved by the FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

TESTOSTERONE, FREE (DIALYSIS) AND TOTAL (MS) Collected: 06/04/2025 05:50 PM UTC Received: 06/04/2025 05:56 PM UTC

TESTOSTERONE, TOTAL, MS	607	250-1100 ng/dL	EZ
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For additional information, please refer to <http://education.questdiagnostics.com/faq/TotalTestosteroneL> CMSMS (This link is being provided for informational/educational purposes only.)

TESTOSTERONE, FREE	119.7	35.0-155.0 pg/mL	EZ
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ANA SCREEN, IFA, W/REFL TITER AND PATTERN Collected: 06/04/2025 05:50 PM UTC Received: 06/04/2025 05:56 PM UTC

ANA SCREEN, IFA	NEGATIVE	NEGATIVE	EN
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ANA IFA is a first line screen for detecting the presence of up to approximately 150 autoantibodies in various autoimmune diseases. A negative ANA IFA result suggests an ANA-associated autoimmune disease is not present at this time, but is not definitive. If there is high clinical suspicion for Sjogren's syndrome,



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Test	In Range	Out Of Range	Reference Range	Lab
testing for anti-SS-A/Ro antibody should be considered. Anti-Jo-1 antibody should be considered for clinically suspected inflammatory myopathies.				
AC-0: Negative				
International Consensus on ANA Patterns (https://doi.org/10.1515/ccim-2018-0052)				
For additional information, please refer to http://education.QuestDiagnostics.com/faq/FAQ177 (This link is being provided for informational/educational purposes only.)				

RHEUMATOID FACTOR	Collected: 06/04/2025 05:50 PM UTC	Received: 06/04/2025 05:56 PM UTC		
RHEUMATOID FACTOR	<10	<14 IU/mL		UL
THYROID PEROXIDASE AND THYROGLOBULIN ANTIBODIES	Collected: 06/04/2025 05:50 PM UTC	Received: 06/04/2025 05:56 PM UTC		
THYROGLOBULIN ANTIBODIES	<1	< or = 1 IU/mL		EN
THYROID PEROXIDASE ANTIBODIES	<1	<9 IU/mL		EN
HOMOCYSTEINE	Collected: 06/04/2025 05:50 PM UTC	Received: 06/04/2025 05:56 PM UTC		
HOMOCYSTEINE	9.0	< or = 13.5 umol/L		UL
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.				
DHEA SULFATE	Collected: 06/04/2025 05:50 PM UTC	Received: 06/04/2025 05:56 PM UTC		
DHEA SULFATE	295	61-442 mcg/dL		EN
SEX HORMONE BINDING GLOBULIN	Collected: 06/04/2025 05:50 PM UTC	Received: 06/04/2025 05:56 PM UTC		
SEX HORMONE BINDING GLOBULIN	28	10-50 nmol/L		EN
FSH	Collected: 06/04/2025 05:50 PM UTC	Received: 06/04/2025 05:56 PM UTC		
FSH	4.3	1.4-12.8 mIU/mL		UL
LH	Collected: 06/04/2025 05:50 PM UTC	Received: 06/04/2025 05:56 PM UTC		
LH	3.5	1.5-9.3 mIU/mL		UL



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Test	In Range	Out Of Range	Reference Range	Lab
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PROLACTIN Collected: 06/04/2025 05:50 PM UTC Received: 06/04/2025 05:56 PM UTC

PROLACTIN	5.5		2.0-18.0 ng/mL	UL
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ESTRADIOL Collected: 06/04/2025 05:50 PM UTC Received: 06/04/2025 05:56 PM UTC

ESTRADIOL		43 H	< OR = 39 pg/mL	UL
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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.

PSA (FREE AND TOTAL) Collected: 06/04/2025 05:50 PM UTC Received: 06/04/2025 05:56 PM UTC

PSA, TOTAL	0.6	< OR = 4.0 ng/mL	EN
PSA, FREE	0.3	ng/mL	EN
PSA, % FREE	50	>25 % (calc)	EN

PSA (ng/mL)	Free PSA (%)	Estimated(x) Probability of Cancer (as%)
0-2.5	(*)	Approx. 1
2.6-4.0 (1)	0-27 (2)	24 (3)
4.1-10 (4)	0-10	56
	11-15	28
	16-20	20
	21-25	16
	>or =26	8
>10 (+)	N/A	>50

References: (1) Catalona et al.: Urology 60: 469-474 (2002)

(2) Catalona et al.: J. Urol 168: 922-925 (2002)

Free PSA (%)	Sensitivity (%)	Specificity (%)
< or = 25	85	19



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Test	In Range	Out Of Range	Reference Range	Lab
< or = 30	93	9		
(3)Catalona et al.:JAMA 277: 1452-1455 (1997)				
(4)Catalona et al.:JAMA 279: 1542-1547 (1998)				

- (x)These estimates vary with age, ethnicity, family history and DRE results.
 (*)The diagnostic usefulness of % Free PSA has not been established in patients with total PSA below 2.6 ng/mL
 (+)In men with PSA above 10 ng/mL, prostate cancer risk is determined by total PSA alone.

The Total PSA value from this assay system is standardized against the equimolar PSA standard. The test result will be approximately 20% higher when compared to the WHO-standardized Total PSA (Siemens assay). Comparison of serial PSA results should be interpreted with this fact in mind.

PSA was performed using the Beckman Coulter Immunoassay method. Values obtained from different assay methods cannot be used interchangeably. PSA levels, regardless of value, should not be interpreted as absolute evidence of the presence or absence of disease.

AMYLASE	Collected: 06/04/2025 05:50 PM UTC	Received: 06/04/2025 05:56 PM UTC		
AMYLASE	31	21-101 U/L	UL	
LIPASE	Collected: 06/04/2025 05:50 PM UTC	Received: 06/04/2025 05:56 PM UTC		
LIPASE	31	7-60 U/L	UL	
ZINC	Collected: 06/04/2025 05:50 PM UTC	Received: 06/04/2025 05:56 PM UTC		
ZINC	86	60-130 mcg/dL	EN	

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LEAD (VENOUS)	Collected: 06/04/2025 05:50 PM UTC	Received: 06/04/2025 05:56 PM UTC		
LEAD (VENOUS)	<1.0	<3.5 mcg/dL	EN	
See Note 1				



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Test	In Range	Out Of Range	Reference Range	Lab
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Note 1

This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics. It has not been cleared or approved by the FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

OMEGACHECK(R) Collected: 06/04/2025 05:50 PM UTC Received: 06/04/2025 05:56 PM UTC

EPA+DPA+DHA	6.9	>5.4 % by wt	Z4M
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This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics Cardiometabolic Center of Excellence at Cleveland HeartLab. 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. Increasing blood levels of long-chain n-3 fatty acids are associated with a lower risk of sudden cardiac death (1). Based on the top (75th percentile) and bottom (25th percentile) quartiles of the CHL reference population, the following relative risk categories were established for OmegaCheck: A cut-off of $\geq 5.5\%$ by wt defines a population at optimal relative risk, $3.8\text{--}5.4\%$ by wt defines a population at moderate relative risk, and $\leq 3.7\%$ by wt defines a population at high relative risk of sudden cardiac death. The totality of the scientific evidence demonstrates that when consumption of fish oils is limited to 3 g/day or less of EPA and DHA, there is no significant risk for increased bleeding time beyond the normal range. A daily dosage of 1 gram of EPA and DHA lowers the circulating triglycerides by about 7-10% within 2 to 3 weeks. (Reference: 1-Albert et al. NEJM. 2002; 346: 1113-1118).

ARACHIDONIC ACID/EPA RATIO	7.3	3.7-40.7	Z4M
OMEGA-6/OMEGA-3 RATIO	6.0	3.7-14.4	Z4M
OMEGA-3 TOTAL	6.9	% by wt	Z4M
EPA	1.7	0.2-2.3 % by wt	Z4M
DPA	1.6	0.8-1.8 % by wt	Z4M
DHA	3.6	1.4-5.1 % by wt	Z4M
OMEGA-6 TOTAL	41.3	% by wt	Z4M
Cleveland HeartLab measures a number of omega-6 fatty acids with AA and LA being the two most abundant forms reported.			
ARACHIDONIC ACID	12.5	8.6-15.6 % by wt	Z4M
LINOLEIC ACID	25.9	18.6-29.5 % by wt	Z4M



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Srinivas S Boppana, D.O.600 Congress Avenue
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Austin, TX, 78701

Test	In Range	Out Of Range	Reference Range	Lab
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Enhanced PDF Report SZ353494U-1 Collected: 06/04/2025 05:50 PM UTC Received: 06/04/2025 05:56 PM UTC

Enhanced PDF Report SZ353494U- Enhanced PDF Report SZ353494U-1.pdf [See Appendix 1 for details]

1

UL	Quest Diagnostics-Sacramento - Northgate. 3714 Northgate Blvd, Sacramento, CA 95834-1617	Dir: Lorne L Holland
EZ	Quest Diagnostics/Nichols SJC-San Juan Capistrano,. 33608 Ortega Hwy, San Juan Capistrano, CA 92675-2042	Dir: Irina Maramica MD,PhD,MBA
EN	Quest Diagnostics-West Hills. 8401 Fallbrook Ave, West Hills, CA 91304-3226	Dir: Thomas J McDonald
Z4M	Cleveland HeartLab Inc.-Cleveland HeartLab Inc.. 6701 Carnegie Ave, Suite 500, Cleveland, OH 44103-4623	Dir: Mohammad Q Ansari

Range Flags Legend: H - Above high normal;



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Report Status: Final
SCHEEL, ZACHARY

Patient Information	Specimen Information	Client Information
SCHEEL, ZACHARY DOB: 10/18/1983 AGE: 41 Gender: M Fasting: Y Phone: 833.753.1851 Patient ID: 64832968 Health ID: 8573036946816018	Specimen: SZ353494U Requisition: 0139137 Lab Ref #: 1370254 Collected: 06/04/2025 / 10:50 PDT Received: 06/04/2025 / 23:01 PDT Reported: 06/16/2025 / 06:50 PDT	Client #: 73917267 MAIL992 BOPPANA, SRINIVAS FUNCTION HEALTH INC 600 CONGRESS AVE FL 14 AUSTIN, TX 78701-3263

COMMENTS: FASTING: YES

Test Name	In Range	Out Of Range	Reference Range	Lab
TESTOSTERONE, FREE (DIALYSIS) AND TOTAL (MS)				
TESTOSTERONE, TOTAL, MS	607		250-1100 ng/dL	EZ
For additional information, please refer to http://education.questdiagnostics.com/faq/TotalTestosteroneL CMSMS (This link is being provided for informational/educational purposes only.)				
TESTOSTERONE, FREE (DIALYSIS)				EZ
TESTOSTERONE, FREE	119.7		35.0-155.0 pg/mL	
This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics. It has not been cleared or approved by the FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.				
HOMOCYSTEINE	9.0		< or = 13.5 umol/L	UL
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.				
GGT	18		3-95 U/L	UL
AMYLASE	31		21-101 U/L	UL
LIPASE	31		7-60 U/L	UL
THYROID PEROXIDASE AND THYROGLOBULIN ANTIBODIES				
THYROGLOBULIN ANTIBODIES	<1		< or = 1 IU/mL	EN
THYROID PEROXIDASE ANTIBODIES	<1		<9 IU/mL	EN
LEPTIN	2.1		ng/mL	EZ

Reference Ranges for Leptin:

Adult Lean Subjects (18-71 years) with BMI range
of 18-25:

Males: 0.3-13.4 ng/mL
Females: 4.7-23.7 ng/mL

Adult Subjects (19-60 years) with BMI range
of 25-30:

Males: 1.8-19.9 ng/mL
Females: 8.0-38.9 ng/mL

Pediatric Reference Ranges for Leptin:

5-9.9 years: 0.6-16.8 ng/mL
10-13.9 years: 1.4-16.5 ng/mL



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SCHEEL, ZACHARY

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SCHEEL, ZACHARY DOB: 10/18/1983 AGE: 41 Gender: M Fasting: Y Patient ID: 64832968 Health ID: 8573036946816018	Specimen: SZ353494U Collected: 06/04/2025 / 10:50 PDT Received: 06/04/2025 / 23:01 PDT Reported: 06/16/2025 / 06:50 PDT	Client #: 73917267 BOPPANA, SRINIVAS

Test Name	In Range	Out Of Range	Reference Range	Lab
14-17.9 years:	0.6-24.9 ng/mL			

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METHYLMALONIC ACID	158		55-335 nmol/L	EZ
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Serum methylmalonic acid (MMA) levels are used to diagnose and monitor several rare inborn errors of metabolism, including methylmalonic aciduria. The enzymatic conversion of MMA to succinic acid requires vitamin B12 (adenosyl-cobalamin) as a cofactor. Serum MMA levels are also used for assessing functional vitamin B12 deficiency. Vitamin B12 is essential for fetal neurodevelopment, particularly early in pregnancy. Undiagnosed maternal vitamin B12 deficiency may be associated with adverse fetal/neonatal outcomes, such as neural tube defects and intrauterine growth restriction.

Quest Diagnostics utilized Multi-Modal Decomposition (MMD) analysis to establish first and second trimester-specific MMA reference intervals in pregnancy, as given below:

MMA, First trimester (<13 wks gestation): 58-167 nmol/L
MMA, Second trimester (13-23 wks gestation): 63-241 nmol/L

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DHEA SULFATE	295		61-442 mcg/dL	EN
SEX HORMONE BINDING GLOBULIN	28		10-50 nmol/L	EN
FSH	4.3		1.4-12.8 mIU/mL	UL
LH	3.5		1.5-9.3 mIU/mL	UL
PROLACTIN	5.5		2.0-18.0 ng/mL	UL
ESTRADIOL		43 H	< OR = 39 pg/mL	UL

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.



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Test Name	In Range	Out Of Range	Reference Range	Lab
Quest Diagnostics order code 30289-Estradiol, Ultrasensitive LC/MS/MS demonstrates negligible cross reactivity with fulvestrant.				
PSA (FREE AND TOTAL)				EN
PSA, TOTAL	0.6		< OR = 4.0 ng/mL	
PSA, FREE	0.3		ng/mL	
PSA, % FREE	50		>25 % (calc)	

PSA(ng/mL)	Free PSA(%)	Estimated(x) Probability of Cancer(as%)
0-2.5	(*)	Approx. 1
2.6-4.0(1)	0-27(2)	24(3)
4.1-10(4)	0-10	56
	11-15	28
	16-20	20
	21-25	16
	>or =26	8
>10(+)	N/A	>50

References:(1)Catalona et al.:Urology 60: 469-474 (2002)
(2)Catalona et al.:J.Urol 168: 922-925 (2002)
Free PSA(%) Sensitivity(%) Specificity(%)
< or = 25 85 19
< or = 30 93 9
(3)Catalona et al.:JAMA 277: 1452-1455 (1997)
(4)Catalona et al.:JAMA 279: 1542-1547 (1998)

- (x)These estimates vary with age, ethnicity, family history and DRE results.
(*)The diagnostic usefulness of % Free PSA has not been established in patients with total PSA below 2.6 ng/mL
(+)In men with PSA above 10 ng/mL, prostate cancer risk is determined by total PSA alone.

The Total PSA value from this assay system is standardized against the equimolar PSA standard. The test result will be approximately 20% higher when compared to the WHO-standardized Total PSA (Siemens assay). Comparison of serial PSA results should be interpreted with this fact in mind.

PSA was performed using the Beckman Coulter Immunoassay method. Values obtained from different assay methods cannot be used interchangeably. PSA levels, regardless of value, should not be interpreted as absolute evidence of the presence or absence of disease.

LEAD (VENOUS)	<1.0	<3.5 mcg/dL	EN
See Endnote 1			
ZINC	86	60-130 mcg/dL	EN

This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics. It has not been cleared or approved by the



Report Status: Final
SCHEEL, ZACHARY

Patient Information	Specimen Information	Client Information
SCHEEL, ZACHARY DOB: 10/18/1983 AGE: 41 Gender: M Fasting: Y Patient ID: 64832968 Health ID: 8573036946816018	Specimen: SZ353494U Collected: 06/04/2025 / 10:50 PDT Received: 06/04/2025 / 23:01 PDT Reported: 06/16/2025 / 06:50 PDT	Client #: 73917267 BOPPANA, SRINIVAS

Test Name	In Range	Out Of Range	Reference Range	Lab
FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.				

Endnote 1

This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics. It has not been cleared or approved by the FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.



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Immunology

Test Name	Result	Reference Range	Lab
ANA SCREEN, IFA, W/REFL TITER AND PATTERN			EN
ANA SCREEN, IFA	NEGATIVE	NEGATIVE	
<p>ANA IFA is a first line screen for detecting the presence of up to approximately 150 autoantibodies in various autoimmune diseases. A negative ANA IFA result suggests an ANA-associated autoimmune disease is not present at this time, but is not definitive. If there is high clinical suspicion for Sjogren's syndrome, testing for anti-SS-A/Ro antibody should be considered. Anti-Jo-1 antibody should be considered for clinically suspected inflammatory myopathies.</p> <p>AC-0: Negative</p> <p>International Consensus on ANA Patterns (https://doi.org/10.1515/ccIm-2018-0052)</p> <p>For additional information, please refer to http://education.QuestDiagnostics.com/faq/FAQ177 (This link is being provided for informational/ educational purposes only.)</p>			
Physician Comments:			



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Cardio IQ®

Test Name	Current		Risk/Reference Interval			Units	Historical Result & Risk
	Result & Risk		Optimal	Moderate	High		
	Optimal	Non-Optimal					
FATTY ACIDS							
OmegaCheck® Whole Blood: (EPA+DPA+DHA)	6.9		>=5.5	3.8-5.4	<=3.7	% by wt	
ARACHIDONIC ACID/EPA RATIO	7.3			3.7-40.7			
OMEGA-6/OMEGA-3 RATIO	6.0			3.7-14.4			
OMEGA-3 TOTAL	6.9					% by wt	
EPA	1.7			0.2-2.3		% by wt	
DPA	1.6			0.8-1.8		% by wt	
DHA	3.6			1.4-5.1		% by wt	
OMEGA-6 TOTAL	41.3					% by wt	
ARACHIDONIC ACID	12.5			8.6-15.6		% by wt	
LINOLEIC ACID	25.9			18.6-29.5		% by wt	

For details on reference ranges please refer to the reference range/comment section of the report.

Medical Information For Healthcare Providers: If you have questions about any of the tests in our Cardio IQ offering, please call Client Services at our Quest Diagnostics-Cleveland HeartLab Cardiometabolic Center of Excellence. They can be reached at 866.358.9828, option 1 to arrange a consult with our clinical education team.



Report Status: Final
SCHEEL, ZACHARY

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Reference Range/Comments

Analyte Name	In Range	Out Range	Reference Range	Lab
ARACHIDONIC ACID	12.5		8.6-15.6 % by wt	Z4M
ARACHIDONIC ACID/EPA RATIO	7.3		3.7-40.7	Z4M
DHA	3.6		1.4-5.1 % by wt	Z4M
DPA	1.6		0.8-1.8 % by wt	Z4M
EPA	1.7		0.2-2.3 % by wt	Z4M
EPA+DPA+DHA	6.9		>5.4 % by wt	Z4M
This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics Cardiometabolic Center of Excellence at Cleveland HeartLab. 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. Increasing blood levels of long-chain n-3 fatty acids are associated with a lower risk of sudden cardiac death (1). Based on the top (75th percentile) and bottom (25th percentile) quartiles of the CHL reference population, the following relative risk categories were established for OmegaCheck: A cut-off of $\geq 5.5\%$ by wt defines a population at optimal relative risk, 3.8-5.4% by wt defines a population at moderate relative risk, and $\leq 3.7\%$ by wt defines a population at high relative risk of sudden cardiac death. The totality of the scientific evidence demonstrates that when consumption of fish oils is limited to 3 g/day or less of EPA and DHA, there is no significant risk for increased bleeding time beyond the normal range. A daily dosage of 1 gram of EPA and DHA lowers the circulating triglycerides by about 7-10% within 2 to 3 weeks. (Reference: 1-Albert et al. NEJM. 2002; 346: 1113-1118).				
LINOLEIC ACID	25.9		18.6-29.5 % by wt	Z4M
OMEGA-3 TOTAL	6.9		% by wt	Z4M
OMEGA-6 TOTAL	41.3		% by wt	Z4M
Cleveland HeartLab measures a number of omega-6 fatty acids with AA and LA being the two most abundant forms reported.				
OMEGA-6/OMEGA-3 RATIO	6.0		3.7-14.4	Z4M

PERFORMING SITE:

EN QUEST DIAGNOSTICS-WEST HILLS, 8401 FALLBROOK AVENUE, WEST HILLS, CA 91304-3226 Laboratory Director: THOMAS MCDONALD, MD, CLIA: 05D0642827
 EZ QUEST DIAGNOSTICS/NICHOLS SJ, 33608 ORTEGA HWY, SAN JUAN CAPISTRANO, CA 92675-2042 Laboratory Director: IRINA MARAMICA, MD, PHD, MBA, CLIA: 05D0643352
 UL QUEST DIAGNOSTICS SACRAMENTO, 3714 NORTHGATE BLVD, SACRAMENTO, CA 95834-1617 Laboratory Director: LORNE L. HOLLAND, MD, CLIA: 05D0644209
 Z4M CLEVELAND HEARTLAB INC, 6701 CARNEGIE AVENUE SUITE 500, CLEVELAND, OH 44103-4623 Laboratory Director: M. QASIM ANSARI, MD, CLIA: 36D1032987