

## PATIENT INFORMATION:

**Joel Corcoran**

Phone (H): (833) 753-1851

DOB: 11/30/1980

Gender: Male Age: 44

Patient ID: 53573860

STATUS: Final

Source: Quest  
 Time Reported: 01/15/2025 12:32 AM UTC  
 Received: 01/15/2025 12:36 AM UTC  
 Accession Number: SZ624020R  
 Lab Ref #: 898850

## ORDERING PHYSICIAN:

**Joshua A Emdur, D.O.**
 600 Congress Avenue  
 Floor 14  
 Austin, TX, 78701

Test	In Range	Out Of Range	Reference Range	Lab
<b>GGT</b> Collected: 01/07/2025 06:16 PM UTC Received: 01/07/2025 06:19 PM UTC				
GGT	15		3-95 U/L	UL
<b>LEPTIN</b> Collected: 01/07/2025 06:16 PM UTC Received: 01/07/2025 06:19 PM UTC				
LEPTIN	2.3		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 FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

<b>METHYLMALONIC ACID</b> Collected: 01/07/2025 06:16 PM UTC Received: 01/07/2025 06:19 PM UTC				
METHYLMALONIC ACID	222		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. 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.



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600 Congress Avenue  
 Floor 14  
 Austin, TX, 78701

Test	In Range	Out Of Range	Reference Range	Lab
------	----------	--------------	-----------------	-----

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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**TESTOSTERONE, FREE (DIALYSIS) AND TOTAL (MS)** Collected: 01/07/2025 06:16 PM UTC Received: 01/07/2025 06:19 PM UTC

TESTOSTERONE, TOTAL, MS	465	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	75.8	35.0-155.0 pg/mL	EZ
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**ANA SCREEN, IFA, W/REFL TITER AND PATTERN** Collected: 01/07/2025 06:16 PM UTC Received: 01/07/2025 06:19 PM UTC

<b>ANA SCREEN, IFA</b>	<b>POSITIVE A</b>	<b>NEGATIVE</b>	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 positive ANA IFA result is suggestive of autoimmune disease and reflexes to titer and pattern. Further laboratory testing may be considered if clinically indicated.

For additional information, please refer to <http://education.QuestDiagnostics.com/faq/FAQ177> (This link is being provided for informational/educational purposes only.)



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Test	In Range	Out Of Range	Reference Range	Lab
<b>ANTINUCLEAR ANTIBODIES TITER AND PATTERN</b> Collected: 01/07/2025 06:16 PM UTC Received: 01/07/2025 06:19 PM UTC				

**ANA TITER****1:80 H** titer EN

A low level ANA titer may be present in pre-clinical autoimmune diseases and normal individuals.

## Reference Range

<1:40 Negative  
 1:40-1:80 Low Antibody Level  
 >1:80 Elevated Antibody Level

**ANA PATTERN****Nuclear, Speckled A** EN

Speckled pattern is associated with mixed connective tissue disease (MCTD), systemic lupus erythematosus (SLE), Sjogren's syndrome, dermatomyositis, and systemic sclerosis/polymyositis overlap.

AC-2,4,5,29: Speckled

International Consensus on ANA Patterns  
 (<https://doi.org/10.1515/cclm-2018-0052>)

**RHEUMATOID FACTOR** Collected: 01/07/2025 06:16 PM UTC Received: 01/07/2025 06:19 PM UTC**RHEUMATOID FACTOR** **25 H** <14 IU/mL UL**THYROID PEROXIDASE AND THYROGLOBULIN ANTIBODIES** Collected: 01/07/2025 06:16 PM UTC Received: 01/07/2025 06:19 PM UTC

THYROGLOBULIN ANTIBODIES &lt;1 &lt; or = 1 IU/mL EN

THYROID PEROXIDASE ANTIBODIES &lt;1 &lt;9 IU/mL EN

**HOMOCYSTEINE** Collected: 01/07/2025 06:16 PM UTC Received: 01/07/2025 06:19 PM UTC**HOMOCYSTEINE** 10.4 <11.4 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: 01/07/2025 06:16 PM UTC Received: 01/07/2025 06:19 PM UTC**DHEA SULFATE** 201 61-442 mcg/dL EN**SEX HORMONE BINDING GLOBULIN** Collected: 01/07/2025 06:16 PM UTC Received: 01/07/2025 06:19 PM UTC**SEX HORMONE BINDING GLOBULIN** 28 10-50 nmol/L EN

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## ORDERING PHYSICIAN:

**Joshua A Emdur, D.O.**

600 Congress Avenue  
 Floor 14  
 Austin, TX, 78701

Test	In Range	Out Of Range	Reference Range	Lab
FSH Collected: 01/07/2025 06:16 PM UTC Received: 01/07/2025 06:19 PM UTC				
FSH	6.6		1.4-12.8 mIU/mL	UL
LH Collected: 01/07/2025 06:16 PM UTC Received: 01/07/2025 06:19 PM UTC				
LH	5.0		1.5-9.3 mIU/mL	UL
PROLACTIN Collected: 01/07/2025 06:16 PM UTC Received: 01/07/2025 06:19 PM UTC				
PROLACTIN	5.1		2.0-18.0 ng/mL	UL
ESTRADIOL Collected: 01/07/2025 06:16 PM UTC Received: 01/07/2025 06:19 PM UTC				
ESTRADIOL	28		< 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. Quest Diagnostics order code 30289-Estradiol, Ultrasensitive LC/MS/MS demonstrates negligible cross reactivity with fulvestrant.

PSA (FREE AND TOTAL) Collected: 01/07/2025 06:16 PM UTC Received: 01/07/2025 06:19 PM UTC				
PSA, TOTAL	0.5		< OR = 4.0 ng/mL	EN
PSA, FREE	0.2		ng/mL	EN
PSA, % FREE	40		>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)



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**Joshua A Emdur, D.O.**

600 Congress Avenue  
 Floor 14  
 Austin, TX, 78701

Test	In Range	Out Of Range	Reference Range	Lab
(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.

<b>AMYLASE</b>	Collected: 01/07/2025 06:16 PM UTC	Received: 01/07/2025 06:19 PM UTC		
AMYLASE	39	21-101 U/L		UL
<b>LIPASE</b>	Collected: 01/07/2025 06:16 PM UTC	Received: 01/07/2025 06:19 PM UTC		
LIPASE	20	7-60 U/L		UL
<b>ZINC</b>	Collected: 01/07/2025 06:16 PM UTC	Received: 01/07/2025 06:19 PM UTC		
ZINC	82	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 FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

<b>LEAD (VENOUS)</b>	Collected: 01/07/2025 06:16 PM UTC	Received: 01/07/2025 06:19 PM UTC		
LEAD (VENOUS)	<1.0	<3.5 mcg/dL		EN



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Gender: Male Age: 44

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 Lab Ref #: 898850

## ORDERING PHYSICIAN:

**Joshua A Emdur,  
D.O.**600 Congress Avenue  
Floor 14  
Austin, TX, 78701

Test	In Range	Out Of Range	Reference Range	Lab
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See Note 1

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.

Enhanced PDF Report SZ624020R-1 Collected: 01/07/2025 06:16 PM UTC Received: 01/07/2025 06:19 PM UTC

Enhanced PDF Report SZ624020R- Enhanced PDF Report SZ624020R-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

Range Flags Legend: H - Above high normal; A - Abnormal;



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**Report Status: Final**  
**CORCORAN, JOEL**

Patient Information	Specimen Information	Client Information
<b>CORCORAN, JOEL</b>  <b>DOB: 11/30/1980    AGE: 44</b> Gender: M Phone: 833.753.1851 Patient ID: 53573860 Health ID: 8573036010014334	Specimen: SZ624020R Requisition: 0067113 Lab Ref #: 898850  Collected: 01/07/2025 / 10:16 PST Received: 01/07/2025 / 20:38 PST Reported: 01/14/2025 / 16:32 PST	Client #: 73917267    MAIL992 EMDUR, JOSHUA FUNCTION HEALTH INC 600 CONGRESS AVE FL 14 AUSTIN, TX 78701-3263

Test Name	In Range	Out Of Range	Reference Range	Lab
TESTOSTERONE, FREE (DIALYSIS) AND TOTAL (MS)	465		250-1100 ng/dL	EZ
For additional information, please refer to <a href="http://education.questdiagnostics.com/faq/TotalTestosteroneL">http://education.questdiagnostics.com/faq/TotalTestosteroneL</a> CMSMS (This link is being provided for informational/educational purposes only.)				
TESTOSTERONE, FREE (DIALYSIS)				EZ
TESTOSTERONE, FREE	75.8		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 FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.				
HOMOCYSTEINE	10.4		<11.4 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	15		3-95 U/L	UL
AMYLASE	39		21-101 U/L	UL
LIPASE	20		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	2.3		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



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Test Name	In Range	Out Of Range	Reference Range	Lab
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METHYLMALONIC ACID	222		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

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

<b>RHEUMATOID FACTOR</b>		<b>25 H</b>	<14 IU/mL	UL
DHEA SULFATE	201		61-442 mcg/dL	EN
SEX HORMONE BINDING GLOBULIN	28		10-50 nmol/L	EN
FSH	6.6		1.4-12.8 mIU/mL	UL
LH	5.0		1.5-9.3 mIU/mL	UL
PROLACTIN	5.1		2.0-18.0 ng/mL	UL
ESTRADIOL	28		< 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. Quest Diagnostics order code 30289-Estradiol,





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Test Name	In Range	Out Of Range	Reference Range	Lab
Ultrasensitive LC/MS/MS demonstrates negligible cross reactivity with fulvestrant. PSA (FREE AND TOTAL)				EN
PSA, TOTAL	0.5		< OR = 4.0 ng/mL	
PSA, FREE	0.2		ng/mL	
PSA, % FREE	40		>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
<b>See Endnote 1</b>			
ZINC	82	60-130 mcg/dL	EN

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Test Name	In Range	Out Of Range	Reference Range	Lab
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.



**Report Status: Final**  
**CORCORAN, JOEL**

Patient Information	Specimen Information	Client Information
<b>CORCORAN, JOEL</b>  <b>DOB: 11/30/1980    AGE: 44</b> Gender: M Patient ID: 53573860 Health ID: 8573036010014334	Specimen: SZ624020R Collected: 01/07/2025 / 10:16 PST Received: 01/07/2025 / 20:38 PST Reported: 01/14/2025 / 16:32 PST	Client #: 73917267 EMDUR, JOSHUA

### Immunology

Test Name	Result	Reference Range	Lab
ANA SCREEN, IFA, W/REFL TITER AND PATTERN			EN
<b>ANA SCREEN, IFA</b>	<b>POSITIVE</b>	NEGATIVE	
ANA IFA is a first line screen for detecting the presence of up to approximately 150 autoantibodies in various autoimmune diseases. A positive ANA IFA result is suggestive of autoimmune disease and reflexes to titer and pattern. Further laboratory testing may be considered if clinically indicated. For additional information, please refer to <a href="http://education.QuestDiagnostics.com/faq/FAQ177">http://education.QuestDiagnostics.com/faq/FAQ177</a> (This link is being provided for informational/ educational purposes only.)			
ANTINUCLEAR ANTIBODIES TITER AND PATTERN			EN
<b>ANA TITER</b>	<b>1:80 H</b>	titer	
A low level ANA titer may be present in pre-clinical autoimmune diseases and normal individuals. <div> <div>Reference Range</div> <div> <div>&lt;1:40                      Negative</div> <div>1:40-1:80                Low Antibody Level</div> <div>&gt;1:80                    Elevated Antibody Level</div> </div> </div>			
<b>ANA PATTERN</b>	<b>Nuclear, Speckled</b>		
Speckled pattern is associated with mixed connective tissue disease (MCTD), systemic lupus erythematosus (SLE), Sjogren's syndrome, dermatomyositis, and systemic sclerosis/polymyositis overlap. AC-2,4,5,29: Speckled International Consensus on ANA Patterns ( <a href="https://doi.org/10.1515/ccim-2018-0052">https://doi.org/10.1515/ccim-2018-0052</a> )			
Physician Comments:			

### PERFORMING SITE:

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