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**Patient Name:**  
**Practice:**  
**Current Provider:**  
**Encounter Date:**  
**Primary Care Physician:**

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### Lab Result Report

*All lab results received within the past 30 days*

### Lab Results

IGF BINDING PROTEIN-3		01/25/2017 08:20		
Description	Result	Flags	Range	
IGF BINDING PROTEIN-3	SENTOUT			

#### Comments

IGF BINDING PROTEIN-3:  
See separate report for results, flags and interpretations.

ESTROGENS,SERUM FRACTIONATED		01/25/2017 08:20		
Description	Result	Flags	Range	
ESTRADIOL,SERUM	22.0	N	10.0-42.0	
ESTRONE BY TANDEM MASS SPECTO	20.2	N	9.0-36.0	
TOTAL ESTROGENS(REF)	42.2	N	19.0-69.0	

#### Comments

ESTRADIOL,SERUM:  
REFERENCE INTERVAL: Estradiol by TMS

Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory ([aruplab.com](http://aruplab.com)).

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: [aruplab.com/CS](http://aruplab.com/CS)

Test Performed By: Associated Regional and University Pathologist.Inc Salt Lake City, UT

ESTRONE BY TANDEM MASS SPECTO:  
REFERENCE INTERVAL: Estrone by TMS

Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: aruplab.com/CS

Test Performed By: Associated Regional and University Pathologist.Inc Salt Lake City, UT  
TOTAL ESTROGENS(REF):  
REFERENCE INTERVAL: Estrogens Total Calculation

Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).

Performed by ARUP Laboratories,  
500 Chipeta Way, SLC,UT 84108 800-522-2787  
www.aruplab.com, Julio Delgado, MD, Lab. Director

Test Performed By: Associated Regional and University Pathologist.Inc Salt Lake City, UT

**IODINE LEVEL** 01/25/2017 08:20

Description	Result	Flags	Range
IODINE LEVEL	58.1	N	40.0-92.0

**Comments**

IODINE LEVEL:  
Values greater than 250 ug/L may indicate iodine overload.

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: aruplab.com/CS

Performed by ARUP Laboratories,  
500 Chipeta Way, SLC,UT 84108 800-522-2787  
www.aruplab.com, Julio Delgado, MD, Lab. Director

Test Performed By: Associated Regional and University Pathologist.Inc Salt Lake City, UT

**ACTH** 01/25/2017 08:20

Description	Result	Flags	Range
ACTH	12	N	7-84

**Comments**

ACTH:  
This assay is not recommended for patients receiving ACTH 1-24 medication due to negative interference.

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

**FREE T3** 01/25/2017 08:20

Description	Result	Flags	Range
FREE T3	3.28	N	2.50-4.30

**Comments**

FREE T3:  
Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

**FREE T4** 01/25/2017 08:20

Description	Result	Flags	Range
FREE T4	1.4	N	0.8-1.7

**Comments**

FREE T4:  
Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

**TSH** 01/25/2017 08:20

Description	Result	Flags	Range
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THYROID STIMULATING HORMONE 1.99 N 0.27-4.20

**Comments**

THYROID STIMULATING HORMONE:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

**TESTOSTERONE TOTAL,ADULT MALES 01/25/2017 08:20**

Description	Result	Flags	Range
TESTOSTERONE,ADULT MALES	431	N	400-1080

**Comments**

TESTOSTERONE,ADULT MALES:

Age Reference Range

14-15 (Tanner III)	100-300 ng/dL
16-19 (Tanner IV,V)	200-970
20-39	400-1080
40-59	350-890
>59	350-720

For males <14 years old, samples are sent to a Reference Lab for LC/MS assay.

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

**TESTOSTERONE,FREE,MALES 01/25/2017 08:20**

Description	Result	Flags	Range
FREE TESTOSTERONE, MALE	65	N	49-212

**Comments**

FREE TESTOSTERONE, MALE:

The concentration of free testosterone is derived from a mathematical formula based on the binding constants of testosterone to SHBG and albumin.

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

**SEX HORMONE BINDING GLOBULIN 01/25/2017 08:20**

Description	Result	Flags	Range
SEX HORMONE BINDING GLOBULIN	48	N	10-80

**Comments**

SEX HORMONE BINDING GLOBULIN:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

**ESTRADIOL 01/25/2017 08:20**

Description	Result	Flags	Range
ESTRADIOL	30.4	N	

**Comments**

ESTRADIOL:

The Elecsys Estradiol assay should not be used when monitoring estradiol levels in patients treated with the drug Fulvestrant (Faslodex) which can falsely elevate estradiol results.

To monitor these patients, estradiol testing by Tandem Mass Spectrometry is recommended.

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REFERENCE RANGES (pg/mL)  
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Male:

Prepubertal: <5

Adult: 11-38

Female -

Follicular: 14-136  
Ovulation: 73-399  
Luteal: 40-172  
Post-Menopausal: <48

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

**DEHYDROEPIANDROSTERONE SULFATE** 01/25/2017 08:20

Description	Result	Flags	Range
DEHYDROEPIANDROSTERONE SULFATE	195.9	N	89-427

**Comments**

DEHYDROEPIANDROSTERONE SULFATE:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

**PROLACTIN** 01/25/2017 08:20

Description	Result	Flags	Range
PROLACTIN	8.8	N	4.0-15.2

**Comments**

PROLACTIN:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

**LH (LUTEINIZING HORMONE SERUM)** 01/25/2017 08:20

Description	Result	Flags	Range
LUTEINIZING HORMONE,SERUM	5.9	N	

**Comments**

LUTEINIZING HORMONE,SERUM:

REFERENCE RANGES (mIU/mL)  
(Standardized to WHO 2nd IS 80/552)

Male: 1.7-8.6  
Female -  
Follicular: 2.4-12.6  
Mid-Cycle: 14.0-95.6  
Luteal: 1.0-11.4  
Post-Menopausal: 7.7-59

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

**FSH SERUM** 01/25/2017 08:20

Description	Result	Flags	Range
FSH,SERUM	5.4	N	

**Comments**

FSH,SERUM:

REFERENCE RANGES (mIU/mL)

Male: 3.7-9.5  
Female -  
Follicular: 5.4-15.7  
Mid-Cycle: 7.8-30  
Luteal: 3.7-15.9  
Post-Menopausal: 46-177

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

**HEPATIC FUNCTION PANEL** 01/25/2017 08:20

Description	Result	Flags	Range
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ALB/GLOB RATIO	2.2	N	1.0-2.4
ALBUMIN	4.5	N	3.5-5.0
ALKALINE PHOSPHATASE (TOTAL)	55	N	20-125
BILI, DIR/CONJ	< 0.2	N	0.0-0.4
BILIRUBIN TOTAL	0.4	N	0.0-1.5
GLOBULIN	2.1	N	1.8-3.6
SGOT(AST)	18	N	0-45
SGPT(ALT)	64	H	0-45
TOTAL PROTEIN	6.6	N	6.2-8.1

**Comments**

ALB/GLOB RATIO:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

ALBUMIN:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

ALKALINE PHOSPHATASE (TOTAL):

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

BILI, DIR/CONJ:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

BILIRUBIN TOTAL:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

GLOBULIN:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

SGOT(AST):

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

SGPT(ALT):

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

TOTAL PROTEIN:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

**LIPID PANEL**

01/25/2017 08:20

Description	Result	Flags	Range
CHOLESTEROL, TOTAL	192	N	140-199
HDL CHOLESTEROL	57	N	40-75
LDL-calculated	126	H	60-99
SERUM TURBIDITY	CLEAR	N	CLEAR
TRIGLYCERIDE	45	N	30-149

**Comments**

CHOLESTEROL, TOTAL:

NCEP Guidelines

ATP III	Adults	Child/Adolescent
Desirable	<200	<170
Borderline	200-239	170-199
High	>239	>199

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

HDL CHOLESTEROL:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

LDL-calculated:

NCEP Guidelines

ATP III	Adults	Child/Adolescent
Optimal	<100	<110
Borderline	130-160	>130
High	>160	

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI  
SERUM TURBIDITY:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI  
TRIGLYCERIDE:

NCEP Guidelines (Adult Treatment Panel III)

Normal <150

Borderline 150-200

High >200

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

**PSA TOTAL** 01/25/2017 08:20

Description	Result	Flags	Range
PSA	0.42	N	0-2.50

**Comments**

PSA:  
Functional Sensitivity (lower limit of detection)  
is 0.03 ng/mL.  
The PSA assay is performed using the Roche Elecsys method.  
Results obtained with different methods or kits cannot be  
used interchangeably.

Age	Reference Range
50 yrs or older	0-4.00 ng/mL
<50 yrs	0-2.50 ng/mL

99% of healthy men have PSA levels of 4.00 ng/mL or less.

Borderline 4.00 - 10.00 ng/mL

Elevated >10.00 ng/mL

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

**CBC/PLT/DIFF/INDICES** 01/25/2017 08:20

Description	Result	Flags	Range
ABSOLUTE BASO	0.1	N	
ABSOLUTE EOS	0.3	N	
ABSOLUTE LYMPH	2.3	N	
ABSOLUTE MONO	0.4	N	
ABSOLUTE PMN	3.1	N	
BASOPHILS	0.9	N	0.0-3.0
EOSINOPHILS	5.0	N	0.0-8.0
HEMATOCRIT	44.8	N	38.0-54.0
HEMOGLOBIN	15.2	N	13.5-18.0
LYMPHOCYTES	37.5	N	24.0-44.0
MCHC	34.0	N	31-36
MEAN CORPUSCULAR HEMOGLOBIN	29.2	N	27-34
MEAN CORPUSCULAR VOLUME	85.7	N	80-100
MONOCYTES	6.7	N	0.0-10.0
MPV	8.3	N	7.0-12.0
NEUTROPHILS	49.9	N	36.0-66.0
PLATELET COUNT	207	N	150-400
RDW	14.5	N	11.5-14.5
RED BLOOD CELL COUNT	5.22	N	4.6-6.2
WBC	6.2	N	4.0-11.0

## Comments

### ABSOLUTE BASO:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

### ABSOLUTE EOS:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

### ABSOLUTE LYMPH:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

### ABSOLUTE MONO:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

### ABSOLUTE PMN:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

### BASOPHILS:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

### EOSINOPHILS:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

### HEMATOCRIT:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

### HEMOGLOBIN:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

### LYMPHOCYTES:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

### MCHC:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

### MEAN CORPUSCULAR HEMOGLOBIN:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

### MEAN CORPUSCULAR VOLUME:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

### MONOCYTES:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

### MPV:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

### NEUTROPHILS:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

### PLATELET COUNT:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

### RDW:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

### RED BLOOD CELL COUNT:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

### WBC:

Test Performed By: Test Performed By: St. John Hospital Main Lab. Detroit, MI

## Testosterone

01/09/2017 21:57

Description	Result	Flags	Range
TES	401		175-781

## Comments

Items in this order include: ALT/SGPT, AST/SGOT, Testosterone

Testing performed at St. Joseph Mercy Hospital.

## AST/SGOT

01/09/2017 21:57

Description	Result	Flags	Range
AST	16		15-41

## Comments

Items in this order include: ALT/SGPT, AST/SGOT, Testosterone

Testing performed at St. Joseph Mercy Hospital.

## ALT/SGPT

01/09/2017 21:57

Description	Result	Flags	Range
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ALT 40 10-63

**Comments**

Items in this order include: ALT/SGPT, AST/SGOT, Testosterone  
Testing performed at St. Joseph Mercy Hospital.

**Lipid Panel** 01/09/2017 14:28

Description	Result	Flags	Range
C/H	3.6		0.0-4.0
CHOL	174		130-200
dHDL	48		29-71
LDLmt	116		0-130
TRIG	51		35-190
VLDL	10		0-130

**Comments**

Items in this order include: Basic Metabolic Profile, Complete Blood Count W/Auto Diff, Lipid Panel

**Complete Blood Count W/Auto Diff** 01/09/2017 14:28

Description	Result	Flags	Range
BA#	0.0		0.0-0.3
BA%	0.6		
EO#	0.1		0.0-0.5
EO%	1.8		
HCT	47.0		38.8-50.0
HGB	15.7		13.5-17.5
LY#	2.1		0.9-2.9
LY%	32.1		
MCH	28.7		27.0-35.0
MCHC	33.3		31.0-36.0
MCV	86.3		81.2-95.1
MO#	0.5		0.3-0.9
MO%	7.3		
NE#	3.8		1.7-7.0
NE%	58.2		
PLT	217		150-450
RBC	5.45		4.32-5.72
RDW	14.5		11.8-15.6
WBC	6.4		3.5-10.5

**Comments**

Items in this order include: Basic Metabolic Profile, Complete Blood Count W/Auto Diff, Lipid Panel

**Basic Metabolic Profile** 01/09/2017 14:28

Description	Result	Flags	Range
CA	9.4		8.5-10.4
CL	98.0	L	99.0-110. 0
CREA	0.80		0.60-1.20
ECO2	28.0		21.0-33.0
eGFR AFRICAN AMERICAN	138		60-255
GFR	114.24		60.00-255 .00
GLU	94		70-110
K	4.1		3.5-5.3
NA	139		135-146
UREA	13.0		8.0-21.0

**Comments**

Items in this order include: Basic Metabolic Profile, Complete Blood Count W/Auto Diff, Lipid Panel

GLU:  
Reference range based on fasting glucose. If RANDOM GLUCOSE, reference range is 70-200 mg/dl

Generated on 02/02/2017