



Laboratory

801 SW 16th Street, Suite 126  
 Renton, Washington 98057  
 Phone: (425) 271-8689  
 Fax: (425) 271-8674

## ComprehensivePLUS Hormone Profile

<b>Doctor ID</b> 6206		<b>Patient Name</b> Doe, Jane			
<b>Age</b> 44	<b>Sex</b> F	<b>Test ID</b> 172969	<b>Accession #</b> 5001	<b>Test Code</b> 4061	
<b>Date Collected</b>		<b>Date Received</b> 10/20/2007	<b>Date Reported</b> 10/26/2007		<b>Tech</b> dh
<b>Comments</b> Sample Report					

Doctor Name and Address:

Sample Report

Fax:

Phone:

		Amount Excreted in 24hrs	Adult Reference Range		
<b>CREATININE</b>		0.8 gm/24hr	0.5-2.0 gm/24hr		
<b>TOTAL VOLUME</b>		1500 mL			
<b>STEROID</b>	Amount Excreted in µg/24hr	Phase	Day	Female µg/24hr	
<b>ESTRONE</b>	<b>11.9</b>	Luteal	17-26	<b>3.3 - 44.6 *</b>	
		Follicular	27-11	<b>2.0 - 39</b>	
		Mid-Cycle	12-16	<b>11.0 - 46</b>	
		Post Menopausal		<b>1.0 - 7.0</b>	
<b>ESTRADIOL</b>	<b>5.5</b>	Luteal	17-26	<b>1.4 - 12.2 *</b>	
		Follicular	27-11	<b>1.0 - 23</b>	
		Mid-Cycle	12-16	<b>4.0 - 45</b>	
		Post Menopausal		<b>0 - 4</b>	
<b>ESTRIOL</b>	<b>6.5</b>	Luteal	17-26	<b>6.1 - 32.4 *</b>	
		Follicular	27-11	<b>3.0 - 48</b>	
		Mid-Cycle	12-16	<b>20 - 130</b>	
		Post Menopausal		<b>0 - 30</b>	
<b>Total Estrogens</b>	<b>23.9</b>	Luteal	17-26	<b>10.8 - 89.2 *</b>	
		Follicular	27-11	<b>7.0 - 110</b>	
		Mid-Cycle	12-16	<b>38 - 221</b>	
		Post Menopausal		<b>0 - 41</b>	
<b>Estrogen Quotient</b>	<b>0.4</b>	Estriol / (estrone + estradiol)		<b>&gt;1.0</b>	
<b>2-OH ESTRONE</b>	<b>9.8</b>	Luteal	17-26	<b>3.8 - 38.1 *</b>	
		Post Menopausal		<b>0.2 - 5.4 *</b>	
<b>16α-OH ESTRONE</b>	<b>2.8</b>	Luteal	17-26	<b>2.1 - 7.9 *</b>	
		Post Menopausal		<b>0.15 - 3.5 *</b>	
<b>2 / 16α Ratio</b>	<b>3.5</b>	Luteal	17-26	<b>1.8 - 5.5 *</b>	
		Post Menopausal		<b>0.6 - 5.0 *</b>	
<b>4-OH ESTRONE</b>	<b>1.8</b>	Luteal	17-26	<b>0.8 - 5.9</b>	
		Post Menopausal		<b>0.05 - 1.1</b>	
<b>2-METHOXYESTRONE</b>	<b>7.9</b>	Luteal	17-26	<b>2.2 - 14.4 *</b>	
		Post Menopausal		<b>0.3 - 4.1</b>	
<b>2-METHOXYESTRADIOL</b>	<b>0.9</b>	Luteal	17-26	<b>0.1 - 2.2 *</b>	
		Post Menopausal		<b>0.03 - 0.54</b>	

# ComprehensivePLUS Hormone Profile

Patient Name: Doe, Jane

Accession #: 5001 Test ID: 172969 Test Code: 4061

Adult Reference Range

STEROID	Amount Excreted in µg/24hr		Female µg/24hr
PREGNANEDIOL (progesterone metabolite)	912	Luteal	1450 - 6140 *
		Follicular	0 - 2500
		Post Menopausal	200 - 1000
DHEA	1458		100 - 2000
TESTOSTERONE	12.8		5.0 - 35.0
5α-ANDROSTANEDIOL	30.0		3.0 - 35.0
5β-ANDROSTANEDIOL	68.6		13.0 - 180.0
ANDROSTERONE	4075	HIGH	500 - 3200
ETIOCHOLANOLONE	2828		500 - 5000
PREGNANETRIOL	188		100 -1500
CORTISONE (E)	28	LOW	31-209
CORTISOL (F)	14	LOW	30-170
TETRAHYDROCORTISONE (THE)	825	LOW	1700-4200
ALLO-TETRAHYDROCORTISOL (5α-THF)	488		400-2100
TETRAHYDROCORTISOL (THF)	450	LOW	900-2600
11β-HYDROXYANDROSTERONE	150	LOW	398-1471
11β-HYDROXYETIOCHOLANOLONE	19	LOW	153-827
ALDOSTERONE	3.0		Normal Diet: 6.0-25.0 Low Salt: 17.0-44.0 High Salt: 0.0-6.0
ALLO-TETRAHYDROCORTICOSTERONE (5α-THB)	120	LOW	130-600
TETRAHYDROCORTICOSTERONE (THB)	28	LOW	30-240
11-DEHYDROTETRAHYDROCORTICOSTERONE (THA)	34	LOW	62-293

\* Reference range revised based on recent reference range study (September 28, 2006)

See our Interpretative Guide at: [www.meridianvalleylab.com](http://www.meridianvalleylab.com) > Tests > Steroids > Steroid Hormone Profiles > 24 Hour Comprehensive Steroid Hormone Profile Interpretation



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## Urinary Thyroid Evaluation

<b>Doctor ID</b> 6206		<b>Patient Name</b> Doe, Jane		
<b>Age</b> 44	<b>Sex</b> F	<b>Test ID</b> 172969	<b>Accession #</b> 5001	<b>Test Code</b> 4061
<b>Date Collected</b>	<b>Date Received</b> 10/20/2007	<b>Date Reported</b> 10/26/2007	<b>Tech</b> dh	
<b>Comments</b> Sample Report				

*Doctor Name and Address:*

Sample Report

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Fax:

Phone:

Urinary Thyroid	Amount Excreted in ng/24hr		Adult Reference Range ng/24hr
Free T3	300	Low	470 - 1750
Free T4	563		430 - 3200

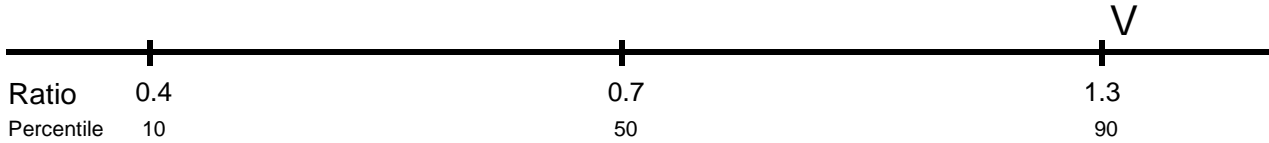
Patient Name: Doe, Jane

Accession #: 5001 Test ID: 172969 Test Code: 4061

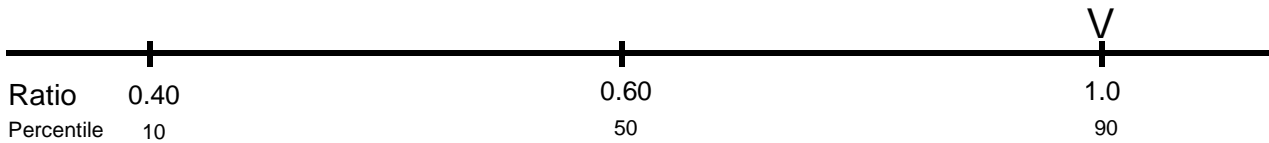
## ENZYME ACTIVITY PHENOTYPE ASSESSMENT

### 5- $\alpha$ -REDUCTASE

Androsterone/Etiocholanolone Ratio: 1.44



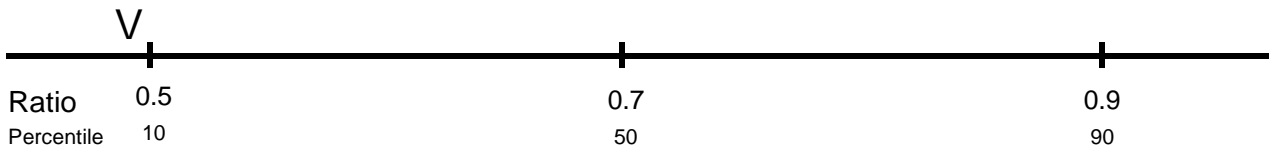
Allo-tetrahydrocortisol/tetrahydrocortisol Ratio: 1.08



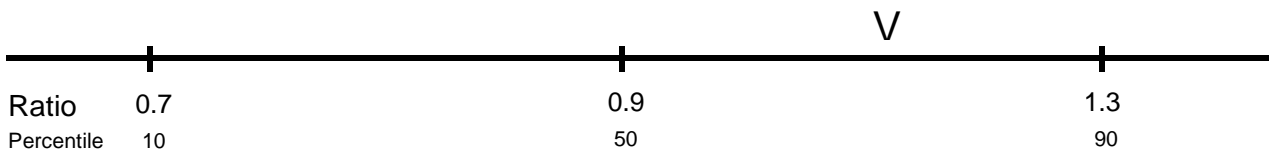
Elevated 5 $\alpha$ -reductase activity is associated with polycystic ovary syndrome and hirsutism in women, benign prostate hypertrophy and premature baldness in men, and obesity and insulin resistance in both genders. Low 5 $\alpha$ -reductase activity may result in reduced conversion of testosterone to DHT and undervirilization in males.

### 11- $\beta$ -hydroxysteroid dehydrogenase I &II

Cortisol/Cortisone Ratio: 0.48



Tetrahydrocortisol+allo-tetrahydrocortisol/Tetrahydrocortisone Ratio: 1.14



Low ratios are associated with obesity and insulin resistance

Elevated ratios are associated with low-renin hypertension, high dose licorice, and cortisol administration.