

ComprehensivePLUS Hormone Profile w/ Oxytocin

Doctor ID 6055		Patient Name Jane Doe HOLD		
Age 46	Sex F	Date of Birth 10/16/1963	Accession # 1500	Test Code 4009
Date Collected 9/5/2012	Date Received 9/7/2012	Date Reported 9/10/2012	Tech RL	
Comments		External ID: A12365		

Doctor Name and Address:

Sample Reports

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		Amount Excreted in 24hrs	Adult Reference Range			
CREATININE		0.8 gm/24hr	0.5-2.0 gm/24hr			
TOTAL VOLUME		1500 mL				
STEROID	Amount Excreted in µg/24hr	Phase	Day	Female µg/24hr		
ESTRONE	18.6	Luteal	17-26	3.3 - 44.6 *		
		Follicular	27-11	2.0 - 39		
		Mid-Cycle	12-16	11.0 - 46		
		Post Menopausal		1.0 - 7.0		
ESTRADIOL	3.8	Luteal	17-26	1.4 - 12.2 *		
		Follicular	27-11	1.0 - 23		
		Mid-Cycle	12-16	4.0 - 45		
		Post Menopausal		0 - 4		
ESTRIOL	6.2	Luteal	17-26	6.1 - 32.4 *		
		Follicular	27-11	3.0 - 48		
		Mid-Cycle	12-16	20 - 130		
		Post Menopausal		0 - 30		
Total Estrogens		28.6	Luteal	17-26	10.8 - 89.2 *	
			Follicular	27-11	7.0 - 110	
			Mid-Cycle	12-16	38 - 221	
			Post Menopausal		0 - 41	
Estrogen Quotient		0.3	Estriol / (estrone + estradiol)		>1.0	
2-OH ESTRONE	< 0.25	LOW	Luteal	17-26	3.8 - 38.1 *	
			Post Menopausal		0.2 - 5.4 *	
16α-OH ESTRONE	Below Detection Limit		Luteal	17-26	2.1 - 7.9 *	
			Post Menopausal		0.15 - 3.5 *	
2 / 16α Ratio		Not Calculated	Luteal	17-26	1.8 - 5.5 *	
			Post Menopausal		0.6 - 5.0 *	
4-OH ESTRONE	< 0.25	LOW	Luteal	17-26	0.8 - 5.9	
			Post Menopausal		0.05 - 1.1	
2-METHOXYESTRONE	< 0.25	LOW	Luteal	17-26	2.2 - 14.4 *	
			Post Menopausal		0.3 - 4.1	
2-METHOXYESTRADIOL	< 0.1		Luteal	17-26	0.1 - 2.2 *	
			Post Menopausal		0.03 - 0.54	

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Accession #: 1500 *Test ID* 419972 *Test Code:* 4009

STEROID	Amount Excreted in µg/24hr		Adult Reference Range	
			Female µg/24hr	
PREGNANEDIOL (progesterone metabolite)	491	Luteal	1450 - 6140 *	
			Follicular	0 - 2500
			Post Menopausal	200 - 1000
DHEA	154		100 - 2000	
TESTOSTERONE	6.2		5.0 - 35.0	
5α-ANDROSTANEDIOL	75.0	HIGH	3.0 - 35.0	
5β-ANDROSTANEDIOL	112.5		13.0 - 180.0	
ANDROSTERONE	1289		500 - 3200	
ETIOCHOLANOLONE	1243		500 - 5000	
PREGNANETRIOL	470		100 -1500	
CORTISONE (E)	77		31-209	
CORTISOL (F)	42		30-170	
TETRAHYDROCORTISONE (THE)	1444	LOW	1700-4200	
ALLO-TETRAHYDROCORTISOL (5α-THF)	429		400-2100	
TETRAHYDROCORTISOL (THF)	580	LOW	900-2600	
11β-HYDROXYANDROSTERONE	263	LOW	398-1471	
11β-HYDROXYETIOCHOLANOLONE	300		153-827	
ALDOSTERONE	15.0		Normal Diet: 6.0-25.0 Low Salt: 17.0-44.0 High Salt: 0.0-6.0	
ALLO-TETRAHYDROCORTICOSTERONE (5α-THB)	225		130-600	
TETRAHYDROCORTICOSTERONE (THB)	86		30-240	
11-DEHYDROTETRAHYDROCORTICOSTERONE (THA)	27	LOW	62-293	

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

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Urinary Oxytocin	Amount Excreted in pmol/24hr	Adult Reference Range
Oxytocin	179 Low	250 - 700 pmol/24hr

Urinary Thyroid	Amount Excreted in ng/24hr	Adult Reference Range ng/24hr
Free T3	330 Low	470 - 1750
Free T4	437	430 - 3200

Urinary Mineral	Amount Excreted in mmol/24h	Adult Reference Range mmol/24hr
Sodium	72	40 - 220
Potassium	35	25 - 150
Sodium/Potassium Ratio	2.1	1.2 - 4.8

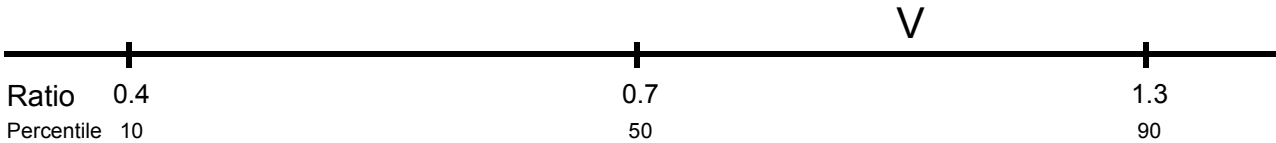
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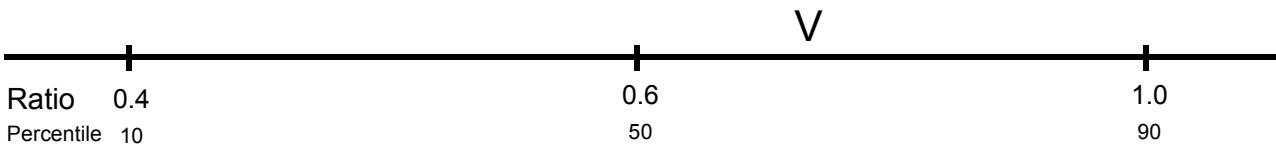
ENZYME ACTIVITY PHENOTYPE ASSESSMENT

5- α -REDUCTASE

Androsterone/Etiocholanolone Ratio: 1.04



Allo-tetrahydrocortisol/tetrahydrocortisol Ratio: 0.74



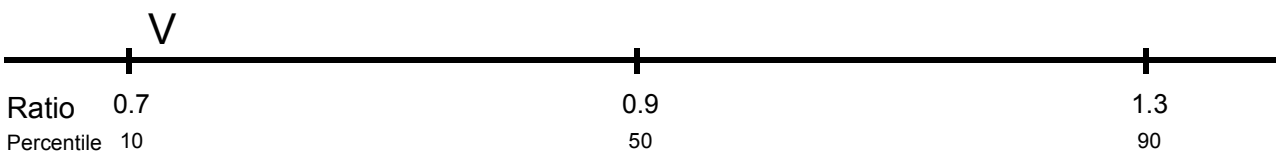
Elevated 5- α -reductase activity is associated with polycystic ovary syndrome and hirsutism in women, benign prostate hypertrophy and premature baldness in men, and obesity and insulin resistance in both genders. Low 5- α -reductase activity may result in reduced conversion of testosterone to DHT and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

11- β -hydroxysteroid dehydrogenase I &II

Cortisol/Cortisone Ratio: 0.54



Tetrahydrocortisol+allo-tetrahydrocortisol/Tetrahydrocortisone Ratio: 0.70



Low ratios are associated with obesity and insulin resistance

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