



Pre Comprehensive & Post Adrenal Hormone

Doctor ID 6206		Patient Name Doe, Jane		
Age 44	Sex F	Date of Birth	Accession # 5001	Test Code 4035
Date Collected 2/2/2014	Date Received 2/4/2014	Date Reported 2/10/2014	Tech RL	
Comments				

Doctor Name and Address:

Sample Report

Fax:

Phone:

Pre
Amount Excreted in 24 hrs

Post
Amount Excreted in 24 hrs **Adult Reference Range**

CREATININE	0.2 gm/24hr LOW	0.3 gm/24hr LOW	0.5-2.0 gm/24hr
TOTAL VOLUME	1500 mL	2000 mL	

If Creatinine Value is out of normal range, results may be affected.

STEROIDS	Amount Excreted in µg/24hr	Phase	Day	Female µg/24hr
ESTRONE	11.9	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	5.5	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	6.5	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	23.9	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	0.4	Estriol / (estrone + estradiol)		>1.0

* Reference range revised based on the reference range study in September, 2006

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Patient Name: Doe, Jane

Accession 5001 Test ID: 526259 Test Code: 4035

Adult Reference Range

STEROIDS	Amount Excreted in $\mu\text{g}/24\text{hr}$		Adult Reference Range	
			Female $\mu\text{g}/24\text{hr}$	
PREGNANEDIOL (progesterone metabolite)	912		Luteal Follicular Post Menopausal	1450 - 6140 * 0 - 2500 200 - 1000
	Pre		Post	
	Amount Excreted in $\mu\text{g}/24\text{hr}$		Amount Excreted in $\mu\text{g}/24\text{hr}$	
DHEA	1458		1927	100 - 2000
TESTOSTERONE	12.8		Not Applicable	5.0 - 35
ANDROSTERONE	4075	HIGH	5274	HIGH 500 - 3200
ETIOCHOLANOLONE	2828		3633	500 - 5000
PREGNANETRIOL	188		228	100 - 1500
CORTISONE	28	LOW	63	31-209
CORTISOL	14	LOW	35	30-170
TETRAHYDROCORTISONE	825	LOW	1268	LOW 1700-4200
ALLO-TETRAHYDROCORTISOL	488		629	400-2100
TETRAHYDROCORTISOL	450	LOW	793	LOW 900-2600
ALDOSTERONE	7.5		3.7	Normal Diet: 6.0-25.0 Low Salt: 17.0-44.0 High Salt: 0.0-
ALLOTETRAHYDROCORTICOSTERONE	120	LOW	182	130-600
TETRAHYDROCORTICOSTERONE	28	LOW	40	30-240

% Change

DHEA	+	32.12	%	PREGNANETRIOL	+	21.81	%
ETIOCHOLANOLONE	+	28.47	%	CORTISONE	+	125.24	%
ANDROSTERONE	+	29.43	%	CORTISOL	+	157.41	%
				TETRAHYDROCORTISOL	+	76.30	%
				ALLO-TETRAHYDROCORTISOL	+	29.09	%
				TETRAHYDROCORTICOSTERONE	+	53.72	%
				ALLO-TETRAHYDROCORTICOSTERONE	+	51.88	%

Expected changes for patients with adequate adrenal reserve:

DHEA \geq 50% Cortisol \geq 100%

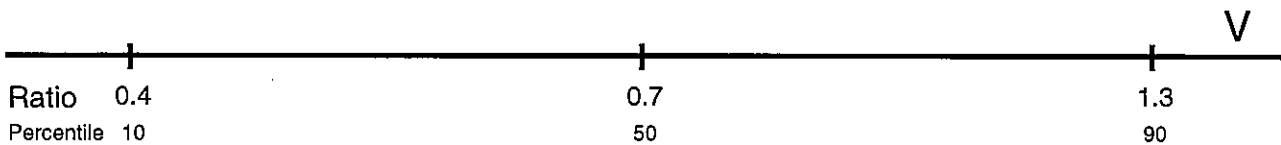
Patient Name: Doe, Jane

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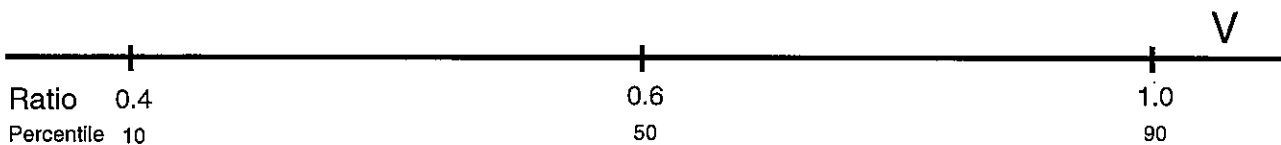
ENZYME ACTIVITY PHENOTYPE ASSESSMENT

5- α -REDUCTASE

Androsterone/Etiocholanolone Ratio: 1.44



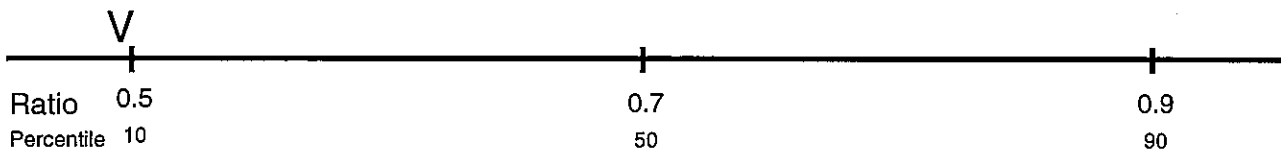
Allo-tetrahydrocortisol/tetrahydrocortisol Ratio: 1.08



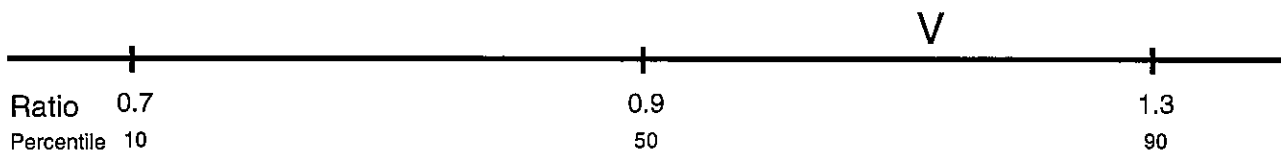
Elevated 5- α -reductase activity is associated with polycystic ovary syndrome and hirsutism in women, benign prostate hypertrophy and premature baldness in men, and obesity and insulin resistance in both genders. Low 5- α -reductase activity may result in reduced conversion of testosterone to DHT and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

11- β -hydroxysteroid dehydrogenase I & II

Cortisol/Cortisone Ratio: 0.48



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.