



## Adrenal Pre & Post Steroid Profile

<b>Doctor ID</b> 6206		<b>Patient Name</b> Doe, Jane		
<b>Age</b> 44	<b>Sex</b> F	<b>Date of Birth</b>	<b>Accession #</b> 5001	<b>Test Code</b> 4030
<b>Date Collected</b> 2/2/2014	<b>Date Received</b> 2/4/2014	<b>Date Reported</b> 2/10/2014	<b>Tech</b> RL	
<b>Comments</b>				

**Doctor Name and Address:**

Sample Report

Fax:

Phone:

	<b>Pre</b>		<b>Post</b>		
	Amount Excreted in 24hrs		Amount Excreted in 24hrs		Adult Reference Range
<b>CREATININE</b>	0.2 gm/24hr	LOW	0.2 gm/24hr	LOW	0.5-2.0 gm/24hr
<b>TOTAL VOLUME</b>	1500 mL		2000 mL		

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

<b>STEROID</b>	Amount Excreted in µg/24hr		Amount Excreted in µg/24hr		<b>Female</b> µg/24hr
<b>DHEA</b>	1458		1927		100-2000
<b>ANDROSTERONE</b>	4075	HIGH	5274	HIGH	500 - 3200
<b>ETIOCHOLANOLONE</b>	2828		3633		500 - 5000
<b>PREGNANETRIOL</b>	188		228		100 - 1500
<b>CORTISONE</b>	28	LOW	63		31-209
<b>CORTISOL</b>	14	LOW	35		30-170
<b>TETRAHYDROCORTISONE</b>	825	LOW	1268	LOW	1700-4200
<b>ALLO-TETRAHYDROCORTISOL</b>	488		629		400-2100
<b>TETRAHYDROCORTISOL</b>	450	LOW	793	LOW	900-2600
<b>ALDOSTERONE</b>	8		4		Normal Diet: 6-25 Low Salt: 17-44 High Salt: 0-6
<b>ALLOTETRAHYDROCORTICOSTERONE</b>	120	LOW	182		130-600
<b>TETRAHYDROCORTICOSTERONE</b>	28	LOW	40		30-240

**Patient Name:** Doe, Jane

**Accession #:** 5001      **Test ID** 526260 **Test Code:** 4030

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

**Expected changes for patients with adequate adrenal reserve:**

**DHEA ≥ 50%    Cortisol ≥ 100%**

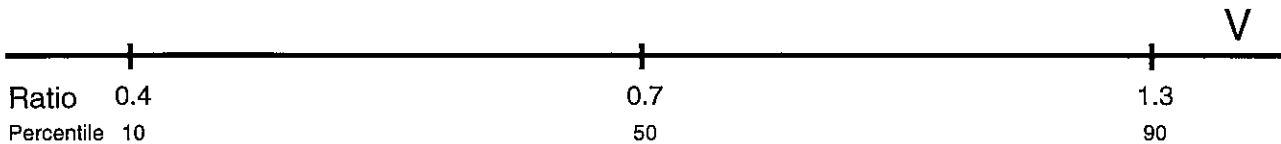
Patient Name: Doe, Jane

Accession #: 5001 Test ID 526260 Test Code: 4030

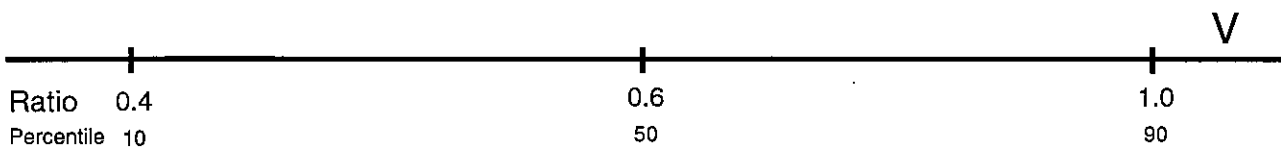
## ENZYME ACTIVITY PHENOTYPE ASSESSMENT

### 5- $\alpha$ -REDUCTASE

Androsterone/Etiocholanolone Ratio: 1.44



Allo-tetrahydrocortisol/tetrahydrocortisol Ratio: 1.08



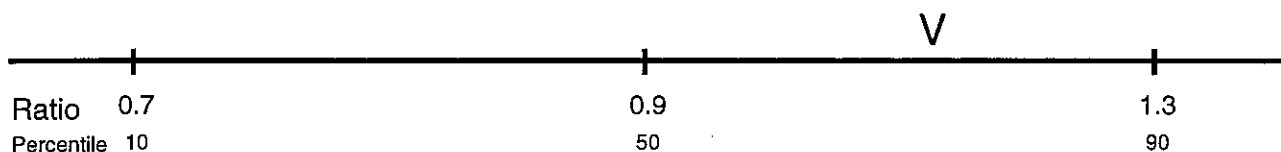
Elevated 5- $\alpha$ -reductase activity is associated with polycystic ovary syndrome and hirsutism in women, benign prostate hypertrophy and premature baldness in men, and obesity and insulin resistance in both genders. Low 5- $\alpha$ -reductase activity may result in reduced conversion of testosterone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