



63 Zillicoa Street
Asheville, NC 28801
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**SAMPLE
PATIENT**

DOB: September 23, 1944

Sex: F

MRN:

Order Number: E0040521

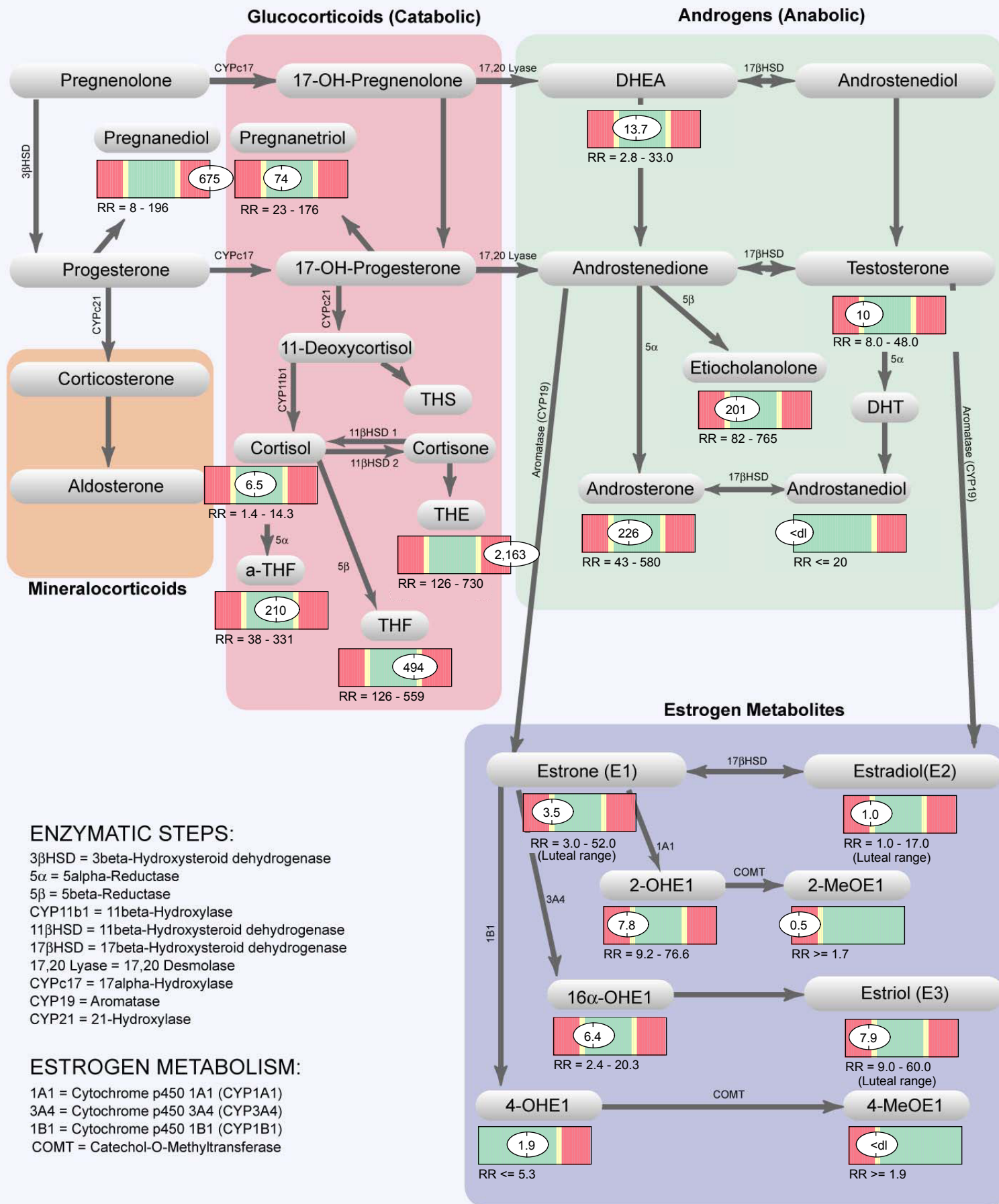
Completed: August 22, 2011

Received: August 04, 2011

Collected: August 03, 2011



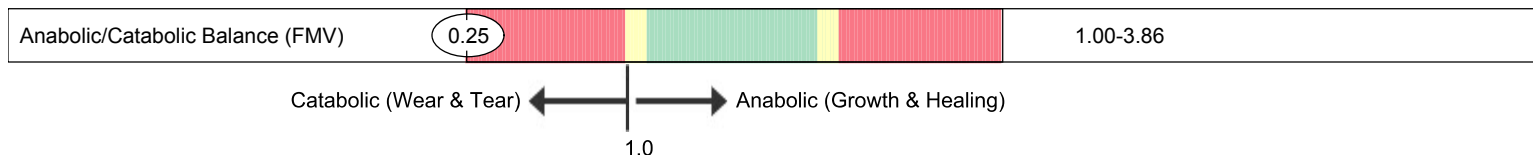
Steroidogenic Pathway At-A-Glance



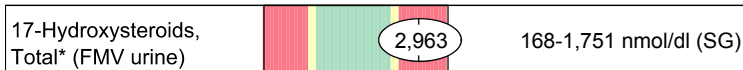
Interpretation At-A-Glance

Anabolic/Catabolic Balance

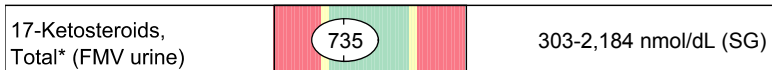
17-Ketosteroids/17-Hydroxysteroids Ratio



Catabolic



Anabolic



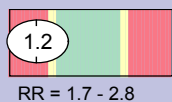
* Total values equal the sum of all measurable parts

Enzymatic Activity

Estrogen Metabolism

2-Hydroxyestrone/16 α -Hydroxyestrone Ratio

16 α -OHE1
Higher Risk of
Breast/Prostate
Cancer

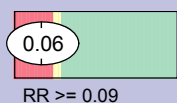


2-OHE1
Lower Risk of
Breast/Prostate
Cancer

Methylation Activity

2-Methoxyestrone/2-Hydroxyestrone Ratio

Less Methylation

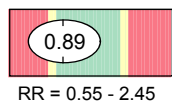


More Methylation

5 α -Reductase Activity

Etiocholanolone/Androsterone (E/A) Ratio

More 5 α -Reductase

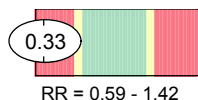


Less 5 α -Reductase

11 β -HSD Index

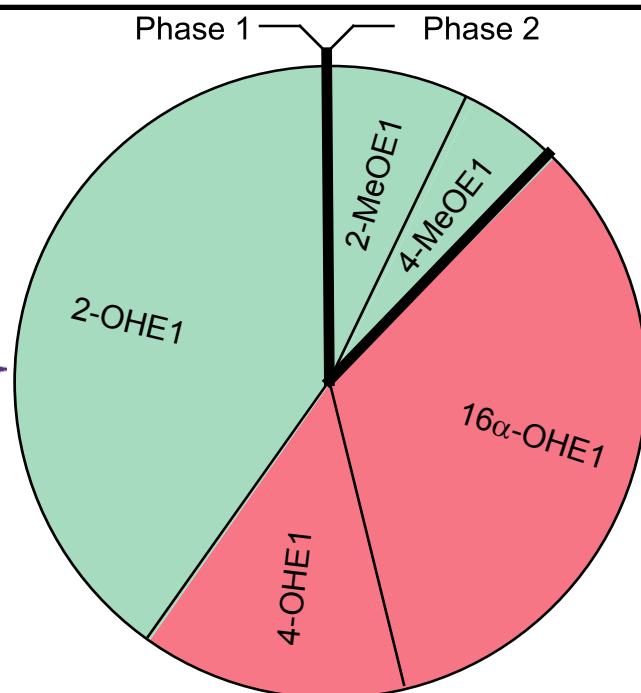
(α -THF + THF)/THE

Less Cortisol

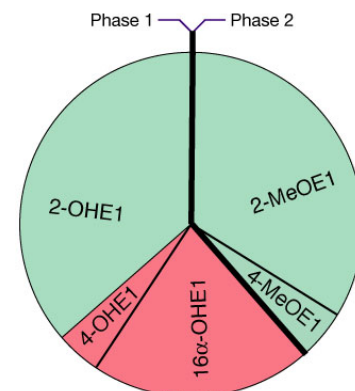


More Cortisol

Estrogen Metabolism



This sample pie-chart represents the optimal balance of estrogen metabolites. The metabolites in green are considered protective, whereas metabolites in red are associated with increased risk of auto-immune disease, breast & prostate cancer. The dark line separates Phase 1 and Phase 2 detoxification pathways.



Key

Complete Hormones (FMV)



**Genova
Diagnostics®**

Innovative Testing for Optimal Health

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Patient: **SAMPLE**

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Progesterone

Reference Range

Pregnanediol (FMV urine)	675	8-196 nmol/dL (SG)
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Androgens

17-Ketosteroids

Reference Range

DHEA (FMV urine)	13.7	2.8-33.0 nmol/dL (SG)
Androsterone (FMV urine)	226	43-580 nmol/dL (SG)
Etiocholanolone (FMV urine)	201	82-765 nmol/dL (SG)
11-Keto-androsterone (FMV urine)	<dl	40-230 nmol/dL (SG)
11-Keto-etiocholanolone (FMV urine)	71	46-258 nmol/dL (SG)
11-Hydroxy-androsterone (FMV urine)	140	43-391 nmol/dL (SG)
11-Hydroxy-etiocholanolone (FMV urine)	75	49-336 nmol/dL (SG)
17-Ketosteroids, Total* (FMV urine)	735	303-2,184 nmol/dL (SG)

* Total values equal the sum of all measurable parts

Testosterone (FMV urine)	10	8-48 nmol/dL (SG)
Androstanediol (FMV urine)	<dl	<= 20 nmol/dL (SG)

Glucocorticoids

17-Hydroxysteroids

Reference Range

Pregnanetriol (FMV urine)	74	23-176 nmol/dL (SG)
allo-Tetrahydrocortisol, a-THF (FMV urine)	210	38-331 nmol/dL (SG)
Tetrahydrodeoxycortisol (FMV urine)	22.0	<= 7.7 nmol/dL (SG)
Tetrahydrocortisone, THE (FMV urine)	2,163	126-730 nmol/dL (SG)
Tetrahydrocortisol, THF (FMV urine)	494	126-559 nmol/dL (SG)
17-Hydroxysteroids, Total*	2,963	168-1,751 nmol/dL (SG)

* Total values equal the sum of all measurable parts

Cortisol, Free (FMV urine) ♦	6.5	1.4-14.3 mcg/dL (SG)
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Estrogens

Estrogens

Reference Range

Estrone (FMV urine)*	3.5	3.0-52.0 mcg/g Creat.
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* Luteal reference range shown

Phase	Reference Range
Follicular	2-39 mcg/g Creat.
Midcycle	11-46 mcg/g Creat.
Luteal	3-52 mcg/g Creat.
Menopausal	3-52 mcg/g Creat.
Male	2-8 mcg/g Creat.

Estradiol (FMV urine)*	1.0	1.0-17.0 mcg/g Creat.
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* Luteal reference range shown

Phase	Reference Range
Follicular	1-13 mcg/g Creat.
Midcycle	4-20 mcg/g Creat.
Luteal	1-17 mcg/g Creat.
Menopausal	1-17 mcg/g Creat.
Male	1-4 mcg/g Creat.

Estriol (FMV urine)*	7.9	9.0-60.0 mcg/g Creat.
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* Luteal reference range shown

Phase	Reference Range
Follicular	3-48 mcg/g Creat.
Midcycle	20-130 mcg/g Creat.
Luteal	9-60 mcg/g Creat.
Menopausal	9-60 mcg/g Creat.
Male	2-19 mcg/g Creat.

Estrogen Metabolites

2-Hydroxyestrone (FMV urine)	7.8	9.2-76.6 mcg/g Creat.
16α-Hydroxyestrone (FMV urine)	6.4	2.4-20.3 mcg/g Creat.
4-Hydroxyestrone (FMV urine)	1.9	<= 5.3 mcg/g Creat.
2-Methoxyestrone (FMV urine)	0.5	>= 1.7 mcg/g Creat.
4-Methoxyestrone (FMV urine)	<dl	>= 1.9 mcg/g Creat.

Ratios

Anabolic/Catabolic Balance (FMV)	0.25	1.00-3.86
11β-HSD Index (FMV urine)	0.33	0.59-1.42
E/A: 5β/5α Ratio (FMV urine)	0.89	0.55-2.45
2-Hydroxyestrone/16α-Hydroxyestrone Ratio (FMV urine)	1.2	1.7-2.8
2-Methoxyestrone/2-Hydroxyestrone Ratio	0.06	>= 0.09

Additional Markers

Additional Markers	Reference Range
Triiodothyronine, T3 (FMV urine)	0.64-2.57 mcg/g Creat.

Lab Comments

The performance characteristics of all assays have been verified by Genova Diagnostics, Inc. Unless otherwise noted with ♦ as cleared by the U.S. Food and Drug Administration, assays are For Research Use Only.