

Patient: **SAMPLE
PATIENT**

Age: 41

Sex: F

MRN:

Order Number: 81200334

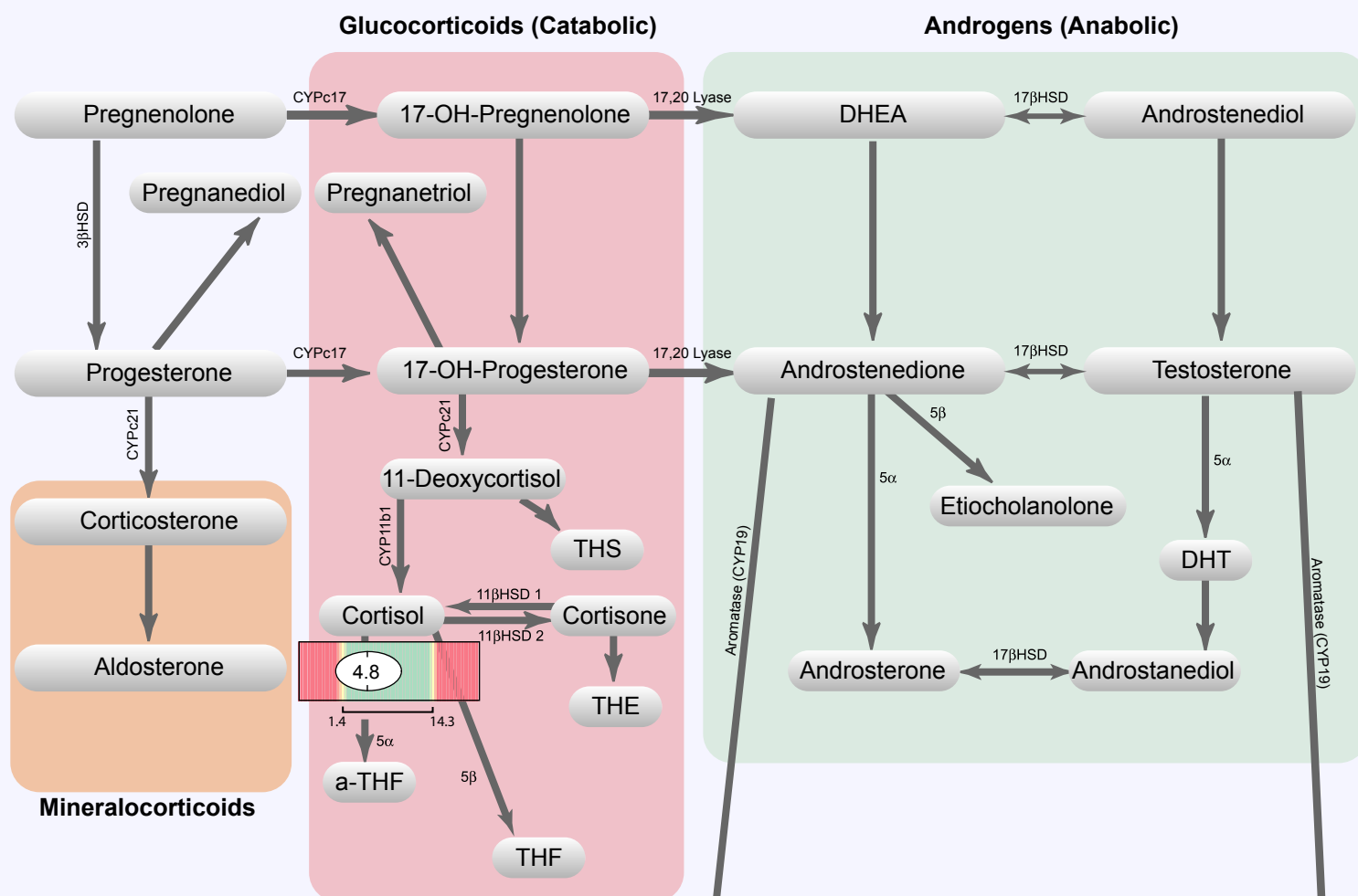
Completed: September 20, 2007

Received: September 20, 2007

Collected: September 20, 2007



Steroidogenic Pathway At-A-Glance

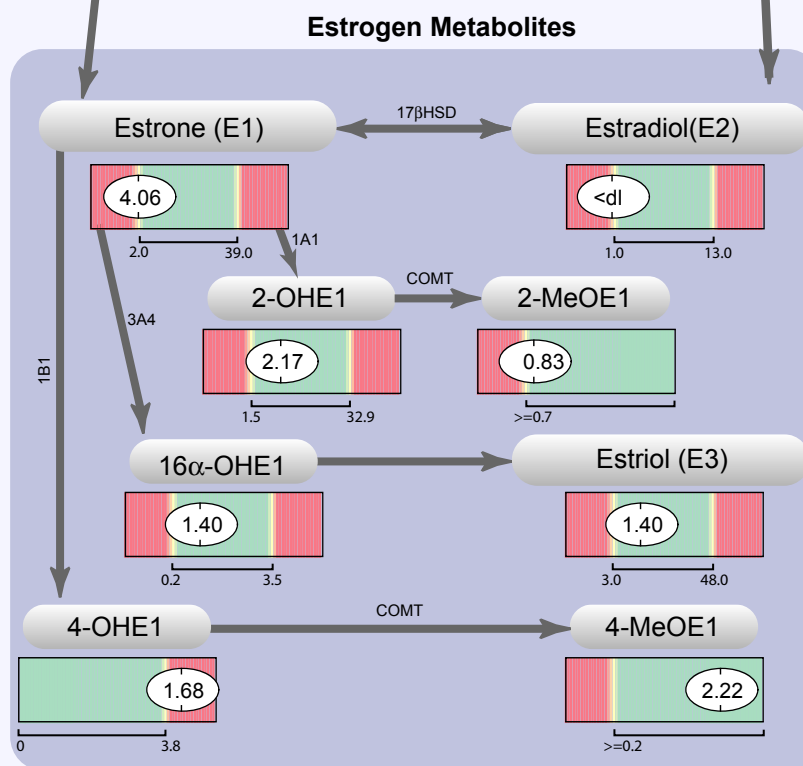


ENZYMATIC STEPS:

3 β HSD = 3beta-Hydroxysteroid dehydrogenase
5 α = 5alpha-Reductase
5 β = 5beta-Reductase
CYP11b1 = 11beta-Hydroxylase
11 β HSD = 11beta-Hydroxysteroid dehydrogenase
17 β HSD = 17beta-Hydroxysteroid dehydrogenase
17,20 Lyase = 17,20 Desmolase
CYPc17 = 17alpha-Hydroxylase
CYP19 = Aromatase
CYPc21 = 21-Hydroxylase

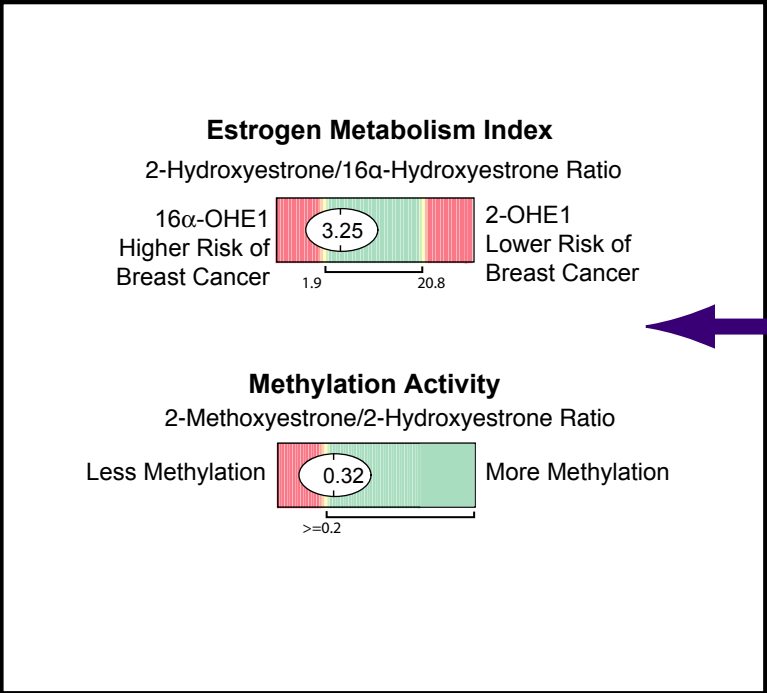
ESTROGEN METABOLISM:

1A1 = Cytochrome p450 1A1 (CYP1A1)
3A4 = Cytochrome p450 3A4 (CYP3A4)
1B1 = Cytochrome p450 1B1 (CYP1B1)
COMT = Catechol-O-Methyl-transferase

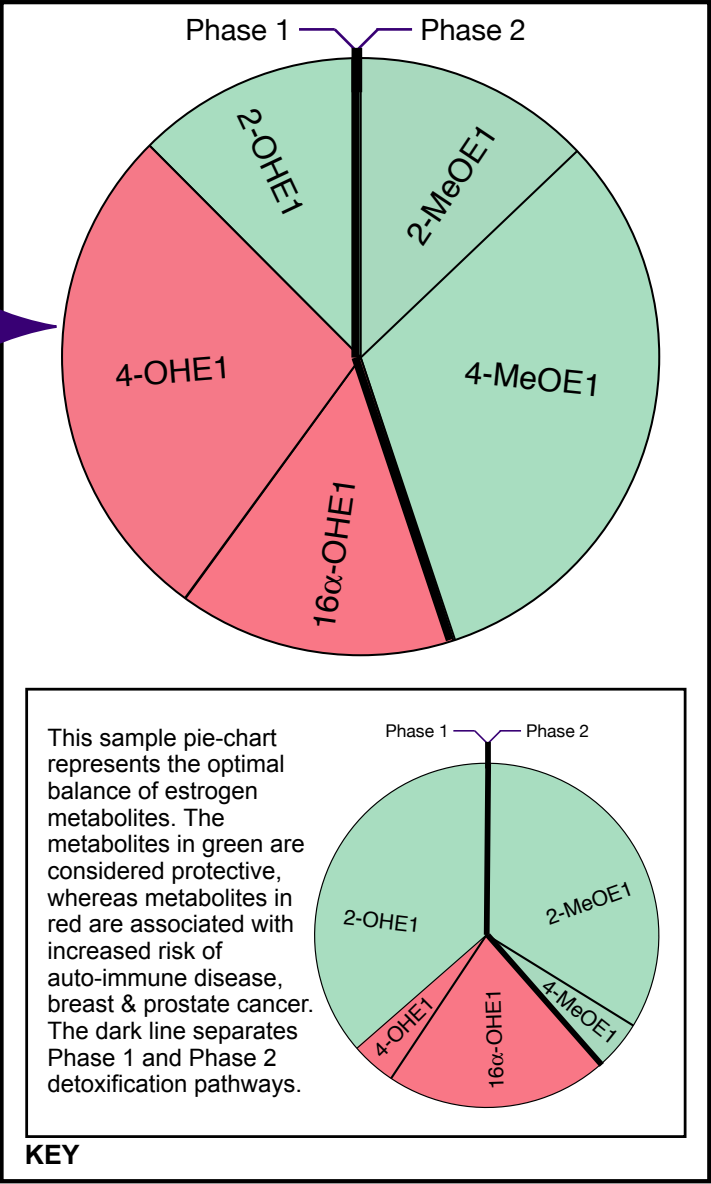


Interpretation At-A-Glance

Enzymatic Activity



Estrogen Metabolism



Patient: **SAMPLE PATIENT**

Age: 52

Sex: F

MRN:

Order Number:

Completed: November 19, 2007

Received: November 09, 2007

Collected: November 06, 2007

Estrogens

Estrogens

Reference Range

Estrone	1.98	2.0-39.0 mcg/L
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Gender	Group	Reference Range
Female	Follicular	2.0-39.0 mcg/L
	Midcycle	11.0-46.0 mcg/L
	Luteal	3.0-52.0 mcg/L
	Post-Menopausal	3.0-52.0 mcg/L
Male		2.0-8.0 mcg/L

Estradiol	0.90	1.0-13.0 mcg/L
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Gender	Group	Reference Range
Female	Follicular	1.0-13.0 mcg/L
	Midcycle	4.0-20.0 mcg/L
	Luteal	1.0-17.0 mcg/L
	Post-Menopausal	1.0-17.0 mcg/L
Male		1.0-4.0 mcg/L

Estriol	2.90	3.0-48.0 mcg/L
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Gender	Group	Reference Range
Female	Follicular	3.0-48.0 mcg/L
	Midcycle	20.0-130.0 mcg/L
	Luteal	9.0-60.0 mcg/L
	Post-Menopausal	9.0-60.0 mcg/L
Male		9.0-60.0 mcg/L

Estrogen Metabolites

2-Hydroxyestrone	4.19	1.5-32.9 mcg/L
16 α -Hydroxyestrone	0.70	0.2-3.5 mcg/L
4-Hydroxyestrone	5.68	<=3.8 mcg/L
2-Methoxyestrone	0.09	>=0.1 mcg/L
4-Methoxyestrone	6.22	>=0.2 mcg/L

Ratios

2-Hydroxyestrone/16 α -Hydroxyestrone Ratio (FMV urine)	21.55	1.9-20.8
2-Methoxyestrone/2-Hydroxyestrone Ratio (FMV urine)	6.06	>=0.1
4-Methoxyestrone/4-Hydroxyestrone Ratio (FMV urine)	3.00	>=0.05
Estriol Quotient $E3/(E1+E2)$	5.12	> 1.0

Lab Results Continued...

Additional Markers		Reference Range
Cortisol, Free ♦	<div><div></div><div>4.8</div><div></div></div>	1.4-14.3 mcg/dL (SG)
Triiodothyronine, T3 (FMV urine/Cr)	<div><div></div><div>39.65</div><div></div></div>	3.20-12.86 mcg/g Creat.

Age	Reference Range
21 to 30 yrs	2-80 microU/L (SG)
31 to 40 yrs	1-59 microU/L (SG)
41 to 50 yrs	1-60 microU/L (SG)
51 to 60 yrs	1-36 microU/L (SG)
61 to 70 yrs	1-33 microU/L (SG)
Over 70 yrs	1-26 microU/L (SG)

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.