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Accession #:
Patient Name:
Date of Birth:
Age: Gender:
Practitioner:
City/State/Country
Phone: Fax:

Collected:
Received:
Reported:
Tech:

CompletePlus Hormone Profile (Dried Urine)

Comments: 8am, 10:45am, 2:45pm, 10pm

Creatinine: **82** **mg/dL**

Estrogens

Reference Ranges

Postmenopausal women on hormones, or cycling women collecting during the luteal phase, refer to the luteal reference range.

Postmenopausal women not taking hormones, refer to the post-menopausal reference range

Amount excreted in µg/g Creatinine			Luteal	Post-Menopausal
Estrone (E1)	**19.0**		4.4 – 27.9	0.8 – 5.6
Estradiol (E2)	**6.2**		1.9 – 8.3	0 – 3.2
Estriol (E3)	**5.5**		4.3 – 24.1	0 – 5.5
Total (E1 + E2 + E3)	**30.8**		13.8 – 55.3	0 – 25
Phase I Metabolites				
2-OH Estrone	**19.8**		3 – 32.7	0.2 – 4.3
16α-OH Estrone	**0.7**		1.8 – 11.2	0.1 – 2.81
4-OH Estrone	**1.18**		0.3 – 3.2	0 – 0.9
2/16 Ratio	**29.7**	**H**	2 – 6	1.5 – 4.5
Phase II Metabolites				
2-Methoxyestrone	**2.47**		1 – 9	0.2 – 2.5
2-Methoxyestradiol	**0.19**		0.3 – 1.2	0 – 0.4

Other Reference Ranges	Estradiol	Estradiol	Estriol	Estrogen Total	Pregnanediol
Follicular	2.0-39	1.0-23	30.-48	7.0-110	0-2500
Mid-Cycle	11.0-46	4.0-45	20-130	N/A	N/A

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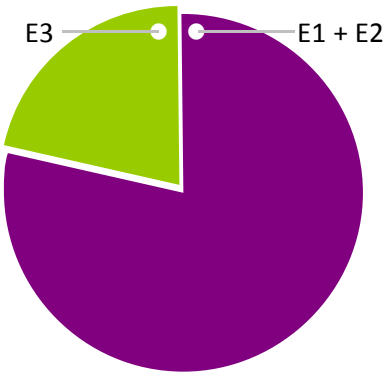
Estrogen Ratios

Estrogen Ratios

Estrogen Quotient: 0.22

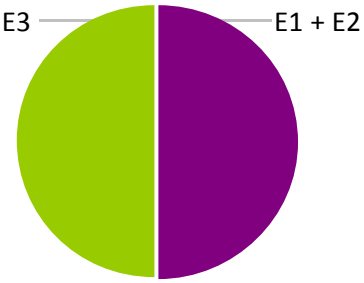
E3/(E1+E2)

Patient Result



Reference Range

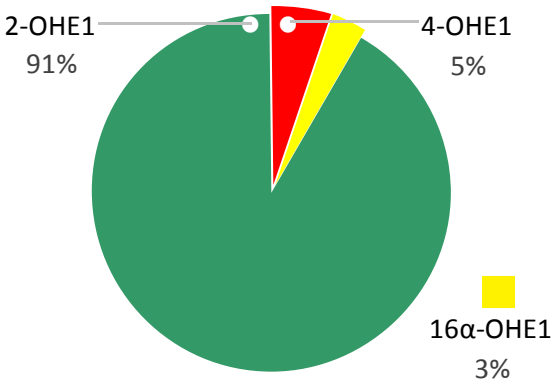
>1



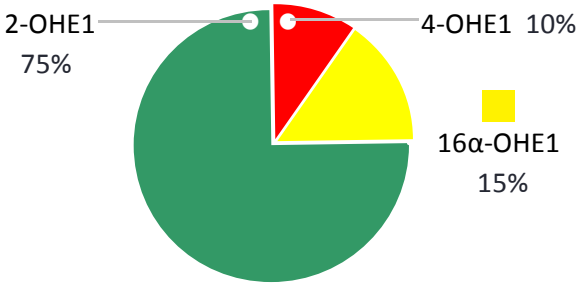
Patients with an EQ>1 have a higher survival rate after breast cancer, and may be at decreased risk for developing breast cancer. EQ often declines as women enter menopause.

Estrogen Hydroxylation

Patient Result



Reference Range



2-OHE1, a Phase I liver metabolite of estrone is considered protective. 16α-OHE1 is a Phase I metabolite of estrone that has some duality: it is potentially carcinogenic and it is important for building bone. Therefore, very high levels and very low levels are both undesireable. High levels suggest a need for measures to improve estrogen detoxification. Low absolute levels may increase risk of osteopenia.

4-OHE1 is a highly carcinogenic Phase I metabolite. Low levels are desireable.

Methylation Ratio: 0.12

Patient Result

Reference Range

0.25 - 0.75

A comparison of 2-MethoxyE1 with 2-OHE1 allows insight into methylation pathways. In patients, with ratios less than 25%, consider further testing for methylation defects.

Progesterone

	µg/g Creatinine	Reference Ranges: Luteal	Reference Ranges: Post-Menopausal
5β-Pregnanediol	**923**	689 – 3871	167 – 537

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Androgens

	µg/g Creatinine		Reference Ranges
DHEA	**754**		100 – 1333
Androsterone	**1111**		636 – 2327
Etiocholanolone	**1911**		630 – 3006
Andro/Etio (5α-reductase)	**0.6**		0.6 – 2.2
Testosterone	**6.9**		3 – 12.2
DHT	**1.7**		0.3 – 2.9
5α-Androstanediol	**343**	**H**	4 – 33
5β-Androstanediol	**343**	**H**	8 – 122

Glucocorticoids

	µg/g Creatinine		Reference Ranges
Pregnanetriol	**825**		140 – 1293
Cortisone (E)	**92**		39 – 143
Cortisol (F)	**74**		32 – 121
Cortisol/Cortisone (11ß-HSD II)	**0.8**		0.5 – 1.2
Tetrahydrocortisone (THE)	**1482**		1112 – 3475
Allo-Tetrahydrocortisol (5α-THF)	**451**		443 – 1651
Tetrahydrocortisol (THF)	**756**		585 – 1631
Adrenal Reserve (THE+5α-THF+THF)	**2688**	**L**	2908 – 5535
5α-THF/THF (5α-reductase)	**0.6**		0.6 – 1.6
11β-Hydroxyandrosterone	**445**		251 – 1013
11β-Hydroxyetiocholanolone	**297**		47 – 481

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Mineralocorticoids

	µg/g Creatinine		Reference Ranges
Allo-Tetrahydrocorticosterone (5α-THB)	**130**		105 – 412
Tetrahydrocorticosterone (THB)	**65**		32 – 166
11-Dehydrotetrahydrocorticosterone (THE)	**51**		46 – 231

Melatonin

	µg/g Creatinine		Reference Ranges
6-Sulfatoxymelatonin (1st Morning)	**16.2**	**L**	17.7 – 84.4

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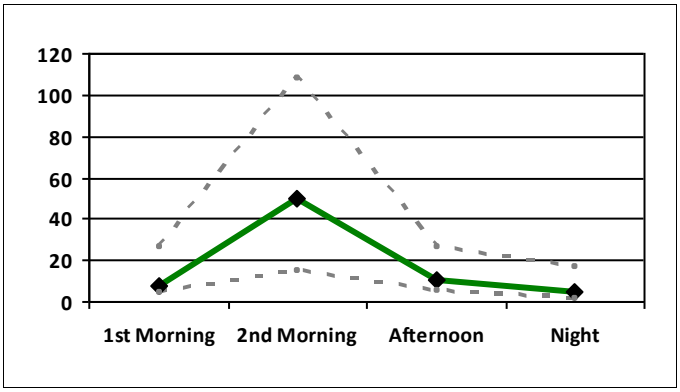
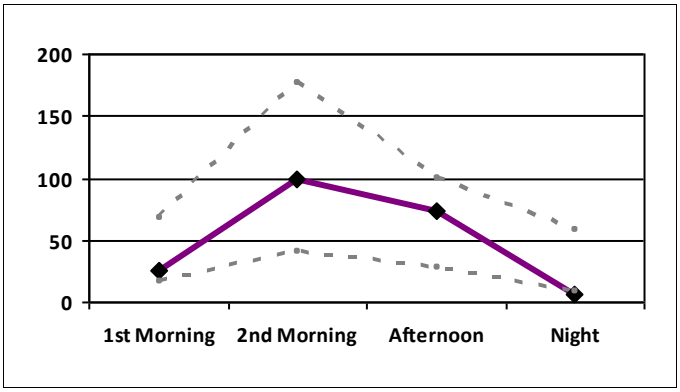
4-Point Cortisol and Cortisone

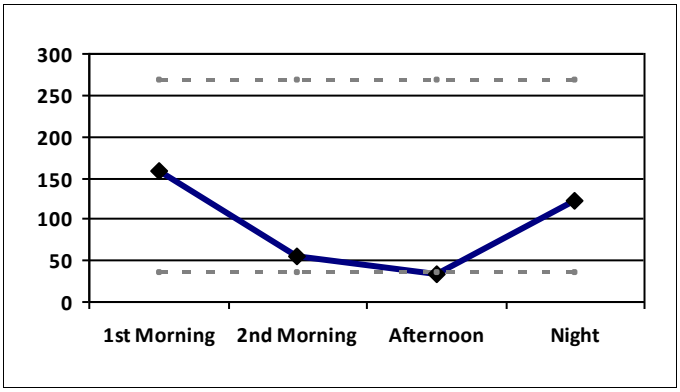
Cortisol	µg/g		Range
1st Morning	8.0		4.4 - 26.9
2nd Morning	50.1		15.5 - 108
Afternoon	10.3		6.2 - 26.7
Night	4.7		1.8 - 17.7



Cortisone	µg/g		Range
1st Morning	24.9		18.2 - 69.3
2nd Morning	99.4		41 - 177.1
Afternoon	73.1		28.4 - 101.3
Night	6.0	L	10.3 - 58.8



Creatinine	mg/dL		Range
1st Morning	159		35 - 270
2nd Morning	56		35 - 270
Afternoon	33	L	35 - 270
Night	123		35 - 270



..... Upper and lower limits of reference range.