

6839 Fort Dent Way, Ste 206 Tukwila, WA 98188

tel 206.209.4200 • 855.405.TEST (8378) fax 206.209.4211

Patient Name: Date of Birth:

Accession #:

Gender:

Collected: Received: Reported:

Tech:

Doctor ID:

Test: 4992

Phone: Fax:

DU Essential Hormone Profile



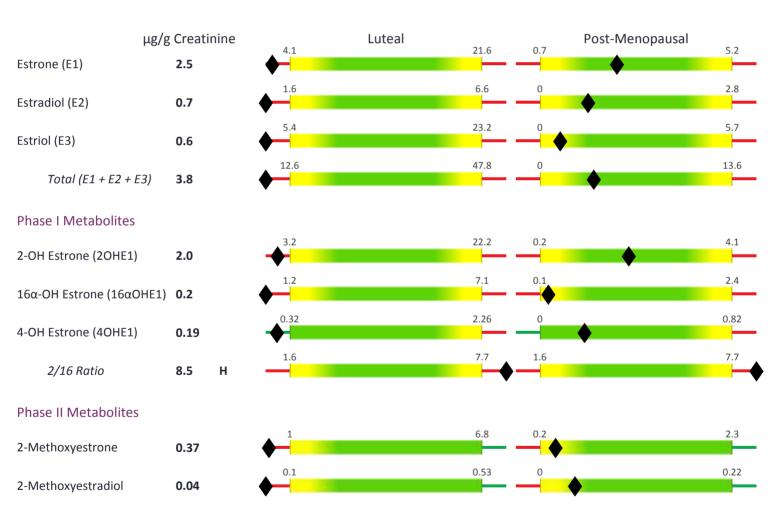
Comments:

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 postmenopausal reference range



Other	Reference	Ranges
	Follicular	

	•
Follicular	2.0-39
Mid-Cycle	11.0-46

Estrone

Estradiol
1.0-23
4.0-45

Pregnanediol 0-2500 N/A



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Estrogen Ratios

Estrogen Ratios

Estrogen Quotient: 0.2

E3/(E1+E2)

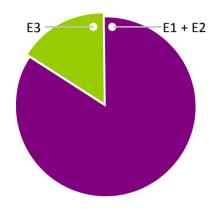
Patient Result

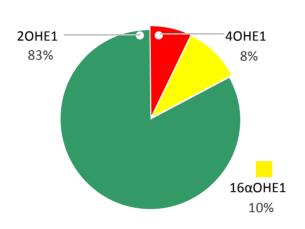


Patient Result

Methylation Ratio: 0.18 2-Methoxyestrone/20HE1

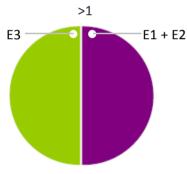
Patient Result



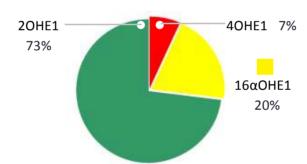




Reference Range



Reference Range



Reference Range 0.2 - 0.65



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.

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 levels may increase risk of osteopenia.

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

A comparison of 2-Methoxyestrone with 20HE1 allows insight into methylation pathways. If the methylation ratio is on the low end of the reference range, consider adding supplements to improve methylation. If needed, consider further testing for methylation defects.

Progesterone





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Enzyme Activity Phenotype Assessment



Elevated 5α -reductase activity is associated with Polycystic Ovarian Syndrome (PCOS) and hirsutism in women, Benign Prostatic Hyperplasia (BPH) and premature baldness in men, and obesity and insulin resistance in both genders. Low 5α -reductase activity may result in reduced conversion of testosterone to DHT and undervirilization in males.

11β-HSD II (11β-hydroxysteroid dehydrogenase II)

Cortisol/Cortisone Ratio (116-HSD II) 0.79



 11β -HSD II is predominantly a renal enzyme. It inactivates cortisol in order to prevent competitive binding to mineralocorticoid receptors. Its activity can be measured by the ratio of cortisol/cortisone. An elevated ratio (toward right on the graph) indicates suppressed enzyme activity, and may be clinically related to stress, hypertension, high dose licorice, cortisol administration, or insulin resistance.

Other Analytes Melatonin μg/g Creatinine Reference Range 84.4 6-Sulfatoxymelatonin (1st Morning) 17.0 L **Thyroid** μg/g Creatinine Reference Range 266 Free T3 570 341 1524 Free T4 913 mg/g Creatinine Reference Range 0.6 Kynurenic 0.74 Xanthurenic 0.36

