

Adrenal Steroid Profile

Accession #:

Test Code: **4000**

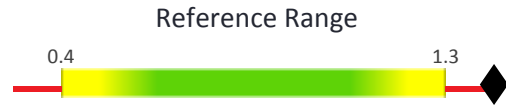
Patient Name:

Enzyme Activity Phenotype Assessment

5 α -Reductase

Andro/Etio Ratio

1.59 H



5 α -THF/THF Ratio

1.39 H



Elevated 5 α -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 5 α -reductase activity may result in reduced conversion of testosterone to DHT and undervirilization in males.

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

Cortisol/Cortisone Ratio (11 β -HSD II) **0.80**



11 β -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.

Minerals

Sodium

96

mmol/24hr



Potassium

72

mmol/24hr



Sodium/Potassium Ratio

1.3

