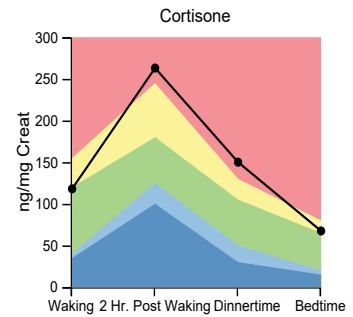
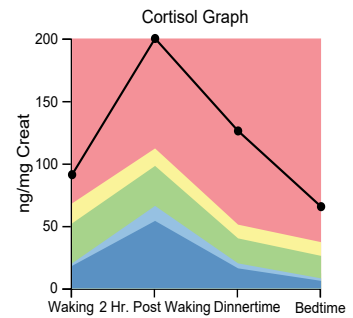
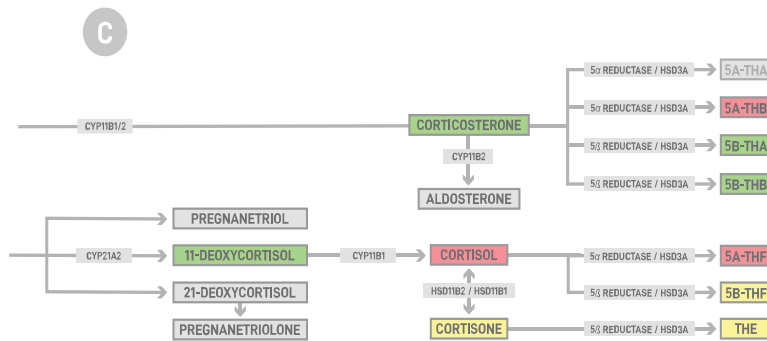


TEST NAME: Adrenal Corticoids Profile

Adrenal Corticoids profile; urine



Free Cortisol and Cortisone	Result	Unit	L	WRI	H	Reference Interval
Cortisol Waking	91.0	ng/mg Creat				18 – 68
Cortisol Waking+2hrs	265	ng/mg Creat				54 – 112
Cortisol Dinnertime	126	ng/mg Creat				16 – 51
Cortisol Bedtime	65.4	ng/mg Creat				6 – 37
Cortisol/day	(F) 130	ng/mg Creat/Day				30 – 90
Cortisone Waking	118	ng/mg Creat				35 – 155
Cortisone Waking+2hrs	263	ng/mg Creat				100 – 245
Cortisone Dinnertime	150	ng/mg Creat				30 – 130
Cortisone Bedtime	67.4	ng/mg Creat				15 – 80
Cortisone/day	(E) 145	ng/mg Creat/Day				60 – 165
Creatinine Waking	68.5	mg/dL				30 – 225
Creatinine Waking+2hrs	115	mg/dL				30 – 225
Creatinine Dinnertime	93.4	mg/dL				30 – 225
Creatinine Bedtime	116	mg/dL				30 – 225
Creatinine/day	104	mg/dL/Day				30 – 225

TEST NAME: Adrenal Corticoids Profile

Adrenal Corticoids profile; urine

Corticoid Metabolites and DHEA	Result	Unit	L	WRI	H	Reference Interval
Corticosterone (B)	27.7	ng/mg Creat/Day		▲		10 – 47
Tetrahydrodehydrocorticosterone (5B-THA)	111	ng/mg Creat/Day		▲		46 – 220
5β-Tetrahydrocorticosterone (5B-THB)	202	ng/mg Creat/Day		▲		65 – 240
5α-Tetrahydrocorticosterone (5A-THB)	515	ng/mg Creat/Day			▲	160 – 430
11-Deoxycortisol (11-DOC)	0.949	ng/mg Creat/Day		▲		0.35 – 1.8
5α-Tetrahydrocortisol (5A-THF)	1320	ng/mg Creat/Day			▲	200 – 1300
5β-Tetrahydrocortisol (5B-THF)	2470	ng/mg Creat/Day			▲	900 – 2600
Tetrahydrocortisone (THE)	3210	ng/mg Creat/Day			▲	1180 – 4000
Dehydroepiandrosterone (DHEA)	33.9	ng/mg Creat/Day		▲		10 – 120
Dehydroepiandrosterone Sulfate (DHEAS)	173	ng/mg Creat/Day		▲		35 – 300
Ratios and Calculations	Result	Unit	L	WRI	H	Reference Interval
DHEA+DHEAS	207	ng/mg Creat/Day			▲	62 – 283
THE+5A-THF+5B-THF (Metabolized Cortisol)	7000	ng/mg Creat/Day			▲	2500 – 7900
5A-THF+5B-THF/THE (Cortisol/Cortisone Metabolites)	1.17			▲		0.7 – 1.4
Cortisol/Cortisone (11B HSD activity)	0.891				▲	0.4 – 0.8
5A-THF/5B-THF ratio (alpha vs beta metabolism)	0.537			▲		0.4 – 1.4

TEST NAME: Adrenal Corticoids Profile

Commentary

Corticoids



5 α -Tetrahydrocorticosterone (5A-THB)

5A-THB is a terminal metabolite of corticosterone. This metabolite along with the other terminal metabolites can be used to determine metabolism of corticosterone. While research in elevations of single terminal metabolites is limited, assessment of metabolism may provide more information regarding enzyme activity.



Cortisol (F)

Cortisol is the main glucocorticoid released from the adrenal gland in response to stress. Elevated levels of cortisol have been reported in cases of Cushing's disease, malnutrition, early life stress, hypothyroidism, depression, alcoholism, PCOS, obesity, and critical illness. Additionally, exogenous exposure to glucocorticoids prior to testing may be a source of cortisol elevations.



5 α -Tetrahydrocortisol (5A-THF)

5A- THF is a terminal metabolite of cortisol metabolized via 5 alpha reductase. Combining all the terminal metabolites can be used to estimate metabolized cortisol. While research into single terminal metabolite elevations is limited, it may have more clinical relevance when assessed in combination with the daily output of free cortisol.



Cortisol/Cortisone (11B HSD activity)

Cortisol / cortisone ratio measures activity of HSD11B2 activity and assessment of tissue specific concentration of cortisol, which normally cannot be measured without a biopsy. An elevated ratio indicates suppressed enzyme activity or a low conversion rate of cortisol to cortisone. This can be seen in stress, hypertension, metabolic syndrome, insulin resistance, PCOS, depression, with cortisol supplementation, or high licorice doses.