



Adrenal Corticoids profile; urine



Order: 999999-9999



Test: X999999-9999-1

Client #: 999999

Doctors Data Inc

123 Main St.

St. Charles, IL 60174 USA

Patient: Sample Patient

Id: 999999

Age: 61 **DOB:** 01/01/1960

Sex: Female

Body Mass Index (BMI): 25

Menopausal Status: Post-menopausal

Sample Collection Date/Time

Dinnertime 12/30/2022 19:20

Bedtime 12/30/2022 22:30

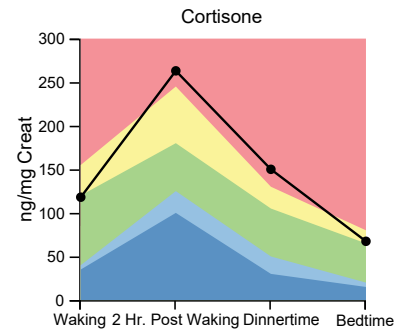
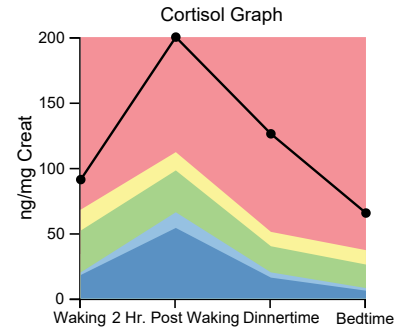
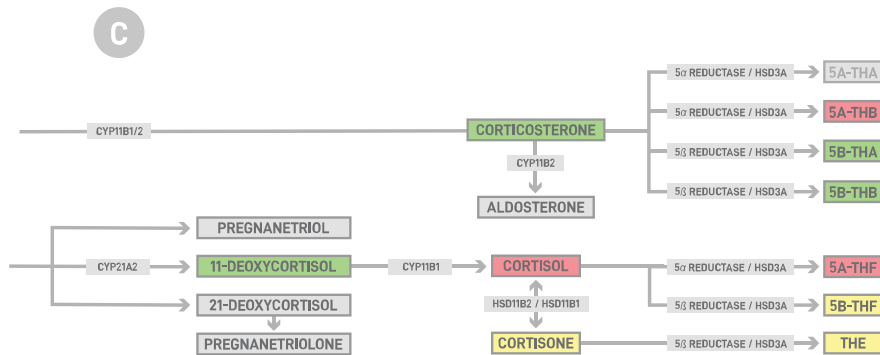
Waking 12/31/2022 07:00

2 Hr. Post Waking 12/31/2022 09:30

Collection Period Multipoint daily

Date Received 01/01/2023

Date Reported 01/02/2023



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



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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



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Corticoids

↑ 5α-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.

↑ 5α-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.