

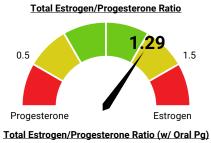
FEM: 24-Hr Comp Urine Profile + Metabolites

Patient Information	Clinician/Order Information	Sample Information						
2021 Test Female 4	Tamara Densmore	Accession# S-0223-0001827						
		Collected: 2/7/2023						
DOB: 1/26/1991 Age: 32		Received: 2/16/2023						
Gender: Female	+8773168686	Reported: 2/16/2023 11:02:27 AM						
Phone: +18773168686	Order date: 2/16/2023	Collection time: 1st 2nd 3rd 4th 5th						
Patient ID: affbb3fd		10:37 AM 2:38 PM 4:38 PM 8:38 PM 6:35 AM						
Height: N/A Weight: N/A								

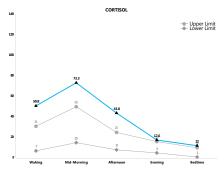
1st Day of Last Menses	Days Between Periods	Menstrual Cycles	Hysterectomy	When?	Ovaries Removed	When?	Pregnant?
N/A	N/A	N/A	N/A		N/A		N/A

Category	Туре	Delivery	Duration of Use
Hormone			

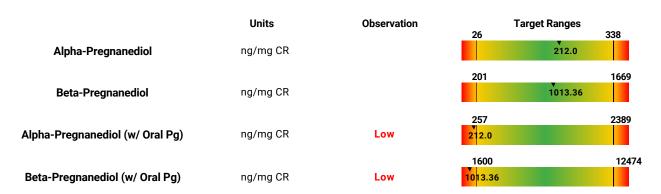
Analyte	Unit	Observation	Results	Reference Range
Alpha-Pregnanediol	ng/mg CR		212.0	26 - 338
Alpha-Pregnanediol (w/ Oral Pg)	ng/mg CR	Low	212.0	257 - 2389
Beta-Pregnanediol	ng/mg CR		1013.36	201 - 1669
Beta-Pregnanediol (w/ Oral Pg)	ng/mg CR	Low	1013.36	1600 - 12474
Total Estrogen Load	ng/mg CR		116.55	30 - 130
Estrone	ng/mg CR		5.77	1.7 - 8.5
Estradiol	ng/mg CR		2.85	0.8 - 3.3
Estriol	ng/mg CR		3.6	2.8 - 11.2
2-Hydroxyestrone	ng/mg CR	High	18.8	2 - 8.4
16a-Hydroxyestrone	ng/mg CR	High	4.73	<=1.43
4-Hydroxyestrone	ng/mg CR	High	19.54	<=1.2
Testosterone	ng/mg CR	High	16.76	2.3 - 7.8
Dihydrotestosterone	ng/mg CR	High	9.04	<=3.2
Average DHEA-S	ng/mg CR	Low	34.94	38 - 507
Free DHEA	ng/mg CR		8.61	6.1 - 17.3
Anabolic/Catabolic Ratio	Ratio		1.28	0.5 - 1.5



0.5
1.5
Progesterone Estrogen



Progesterone Markers



Estrogen Markers

	Units	Observation		rget Ranges
Total Estrogen Load	ng/mg CR		30	130 116.55
Estrone (E1)	ng/mg CR		1.7	5.77
Estradiol (E2)	ng/mg CR		0.8	3.3 2.85
Estriol (E3)	ng/mg CR		2.8	11.2

Estrogen Metabolism Markers

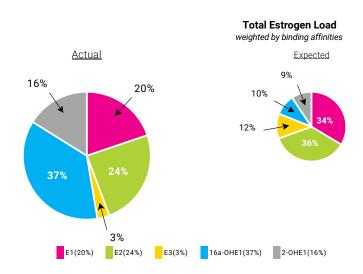
	Units	Observation	Target Ranges 2 8.4
2-Hydroxyestrone (2-OHE1)	ng/mg CR	High	18.8
16a-Hydroxyestrone (16a-OHE1)	ng/mg CR	High	< 1.43 4.73
4-Hydroxyestrone (4-OHE1)	ng/mg CR	High	< 1.2 19.54
2-Methoxyestrone (2-oMeE1)	ng/mg CR		3.1 15.8 3.51



The methylation ratio is low indicating methylation support is needed. When 2-OHE1 is very low (under 0.9), this ratio has limited interpretive value and can be ignored. Low methylation can be caused by low levels of donor methyl groups or genetic mutations in the COMT, MTHFR and other methylation markers. Phase II support, including methyl-donor supplements and dietary considerations (paleo-like), can increase methylation. If the patient is taking methyl donor supplements, make certain B-vitamins are included, when increasing methylation, to help eliminate excess methyl groups and prevent methyl trapping (most often seen in patients with compromised COMT activity).

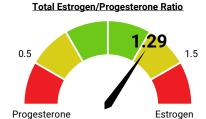


Total Estrogen Load



This patient has a normal Total Estrogen Load, with elevated 16a-OHE1. The Total Estrogen Load considers the binding affinity of each estrogen analyte at the receptor. Due to the high estrogenic strength of 16-a-OHE1, the total estrogen levels may be highe than expected (even when E1, E2 and E3 are normal/low levels). Improving Phase I metabolism, will likely lower the Total Estrogen Load value as the 16a-OHE1 improves/decreases. To examine the balance between total estrogen components, compare the "actual" chart on the left to the "expected" chart on the right, representing the pathways of estrogen metabolism and their relative ratio to one another. Then, examine the Progesterone: Estrogen ratio to determine the balance between estrogen and progesterone for the best clinical outcomes.

Estrogen/Progesterone Ratio



Only review this ratio when the patient is NOT taking oral progesterone. Estrogen and progesterone are in balance. Patients with a value of 1 are optimally balanced, >1 are balanced with a slight increase in estrogen and <1 are balanced with a slight increase in Progesterone. Maintaining balance between Progesterone and Estrogen produces optimal clinical outcomes in most patients. Patients at the high or low ends of normal (yellow zones) are approaching an imbalance which, can be improved by increasing/decreasing either estrogen or progesterone relative to one another.



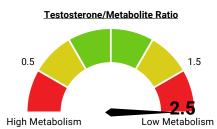


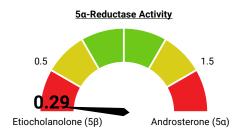
Only review this ratio when the patient IS taking oral progesterone. This patient has either too much estrogen or too little opposing progesterone. Achieving balance between estrogen and progesterone (ratio nearest 1) produces optimal clinical outcomes.



Androgen Markers



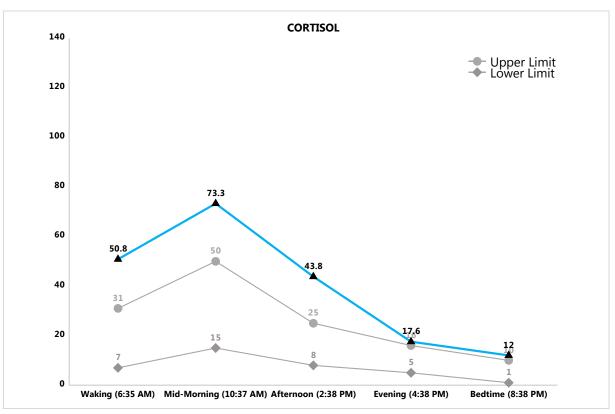


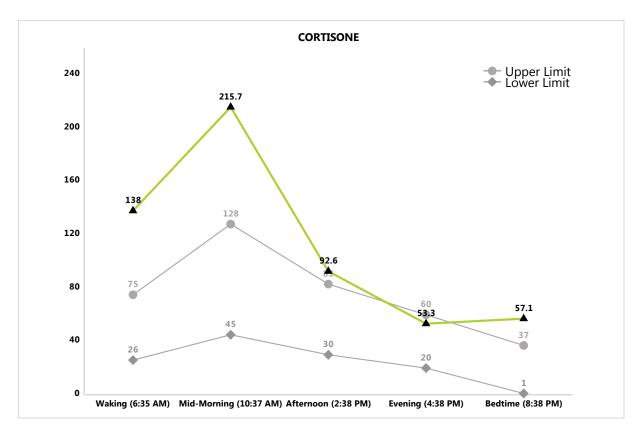


The levels of testosterone metabolites are lower than expected in relative ratio to testosterone and 5-alpha-reductase (5aR) activity is low. Some patients may experience lower androgen effect than expected for their testosterone levels because the testosterone may be "pooling" as a result of decreased metabolism. When metabolites are lower than expected with decreased 5aR activity, it can indicate increased aromatase activity resulting in increased estrogens as well. If estrogen levels are higher than expected, consider lowering aromatase activity through increased zinc, celery, Resveratrol, cruciferous vegetables or other aromatase inhibitors. DHEA supplementation can increase 5aR activity to increase downstream metabolism and decrease aromatase activity as well.

5-alpha-reductase (5aR) activity appears low but may not be clinically relevant if other 5a levels are higher than 5b levels. Confirm this value by comparing 5a-pregnanediol to 5b-pregnanediol, testosterone to 5a-DHT, and cortisol to a-THFs in this report. Low 5aR activity can be an indicator of backdoor metabolism of androgens, higher levels of aromatase activity, lower 5a-Pregnanediol or lower levels of the downstream metabolites of testosterone and cortisol. Patients who have lower 5aR activity (5aR ratio < = 0.5) may need a higher dose of testosterone during therapy, if testosterone metabolites are also low. Optimal balance exists when the ratio is nearest 1 (center).

HPA-Axis Graphs

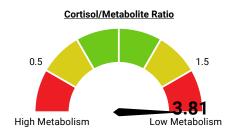






HPA-Axis Markers

	Units	Observation	Target Rang	
24-hour Cortisol	ng/mg 24hr CR	Low	19 1 <mark>7.4</mark> 6	38
24-hour Cortisone	ng/mg 24hr CR	Low	39 1 <mark>4.0</mark> 4	74
Cortisol Metabolites	ng/mg CR	Low	1160 2 <mark>44.</mark> 5	2183
Total 17-Hydroxysteroids	ng/mg CR	Low	1492 4 <mark>16.</mark> 06	2637
Free DHEA	ng/mg CR		6.1 8.61	17.3
Total 17-Ketosteroids	ng/mg CR	Low	730 2 <mark>90.</mark> 66	1522

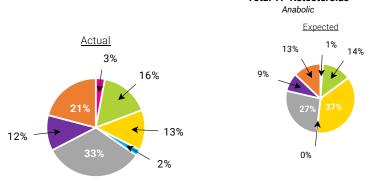


The Cortisol:Metabolite Ratio is elevated and cortisol metabolites are low. This indicates that metabolism of cortisol is decreased; resulting in a pooling effect of free-cortisol levels that can make free-cortisol appear higher than actual adrenal output (see the cortisol curve to assess adrenal function). Decreased metabolism of cortisol is often caused by hypothyroidism and certain inflammatory responses. Certain 17-Hydroxystroids are also cortisol metabolites, and as such, should be in balance with 17-Ketosteroids for optimal function (see Anabolic/Catabolic ratio)



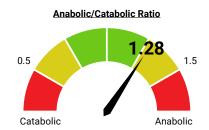
HPA-Axis Markers Continued

Total 17-Ketosteroids



11-Keto (A+E)(16%) Androsterone(13%) Androstenedione(2%) Etiocholanolone(33%)

This patient's 17-ketosteroids are low. Decreases in 17-ketosteroids can be the result of low DHEA levels, hyperthyroidism, depressed adrenal function, kidney issues, hypopituitarism or decreased testicular function. 17-ketosteroids are formed during metabolism of androgenic sex hormones (specifically DHEA) and are released by the adrenal glands (M/F) and the testes (M). To examine the balance between the 17-ketosteroids, compare the "actual" chart on the left to the "expected" chart on the right representing the relative ratios of each. 17-ketosteroids should also be in balance with 17-hydroxysteroids to achieve optimal clinical results (see anabolic/catabolic ratio).



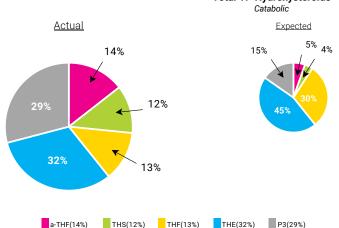
11b-OH-E(21%)

Free DHEA(3%)

11b-OH-A(12%)

This patient is balanced between anabolic steroids and catabolic steroids, creating a bio-environment for cell proliferation and tissue health to perform at optimal levels while still allowing for detoxification and responses to stress. The optimal ratio is 1 (center). When results near the low end(more catabolic - left yellow zone) or the high end (more anabolic - right yellow zone) of the normal range, the anabolic/catabolic ratio is approaching an imbalance.

Total 17-Hydroxysteroids



The results shown indicate low catabolic (17-hydroxysteroid) metabolites. This can be due to low cortisol, low cortisol metabolism or both. Other possible causes include androgen therapy, high DHEA levels, hypothyroidism, imbalances of sex hormones and other adrenal issues. The balance between anabolic and catabolic metabolites is important and can be assessed in the anabolic/catabolic ratio.



Patient Result History

Creatinine mark Temperature Temper	Analyte	Unit	2/15/2	2023 (S-022	23-0001822)	2/16/2	2/16/2023 (S-0223-0001827)		
Description	Allalyte	Offic	Observation	Results	Reference Range	Observation	Results	Reference Range	
Alpha Perganancidio Marine GR 24.225 26.238 212.0 26.338 212.0 25.7289	Creatinine	mg/dL		100.0	30 - 300		100.0	30 - 300	
Alpha Pergamaedial (w/ Oral Pg)		Estro	gen and Proge	sterone Ma	rkers				
Red = Pregnancial (w) (**Oral Pa) name of the Red = Pregnancial (w) (**Oral Pa) name of the Red = Pregnancial (w) (**Oral Pa) name of the Red = Pregnancial (**Red = Preg	Alpha-Pregnanediol	ng/mg CR		242.25	26 - 338		212.0	26 - 338	
Beta-Pregnancido (W) Oral Pg)	Alpha-Pregnanediol (w/ Oral Pg)	ng/mg CR	Low	242.25	257 - 2389	Low	212.0	257 - 2389	
Alpha Pregnanediol / Beta-Pregnanediol / Bet	Beta-Pregnanediol	ng/mg CR		1460.1	201 - 1669		1013.36	201 - 1669	
Total Estrogen Load	Beta-Pregnanediol (w/ Oral Pg)	ng/mg CR	Low	1460.1	1600 - 12474	Low	1013.36	1600 - 12474	
Estrone	Alpha-Pregnanediol / Beta-Pregnanediol Ratio	Ratio		0.77	0.5 - 1.5		0.97	0.5 - 1.5	
Estration	Total Estrogen Load	ng/mg CR	High	228.67	30 - 130		116.55	30 - 130	
Estriol	Estrone	ng/mg CR	High	11.58	1.7 - 8.5		5.77	1.7 - 8.5	
2-Hydroxyestrone	Estradiol	ng/mg CR	High	5.5	0.8 - 3.3		2.85	0.8 - 3.3	
16a-Hydroyestrone	Estriol	ng/mg CR		7.32	2.8 - 11.2		3.6	2.8 - 11.2	
A-Hydroxyestrone	2-Hydroxyestrone	ng/mg CR	High	37.5	2 - 8.4	High	18.8	2 - 8.4	
Equotient	16a-Hydroxyestrone	ng/mg CR	High	9.17	<=1.43	High	4.73	<=1.43	
2-Methoxyestrone	4-Hydroxyestrone	ng/mg CR	High	43.55	<=1.2	High	19.54	<=1.2	
2.16 Ratio (2-OHE1/15a-OHE1) Ratio Low 19.84 p=60 Low 18.67 p=60 Total Estrogen/Progesterone Ratio Ratio Low 19.84 p=60 Low 18.67 p=60 Total Estrogen/Progesterone Ratio (w/ Oral Pg) Ratio - High 7.68 0.5 - 1.5 Total Estrogen/Progesterone Ratio (w/ Oral Pg) Ratio - High 7.68 0.5 - 1.5 Total Estrogen/Progesterone Ratio (w/ Oral Pg) Ratio - High 7.68 0.5 - 1.5 Total Estrogen/Progesterone Ratio (w/ Oral Pg) Ratio - High 7.76 Windows Ratio - Windows	E Quotient	Ratio	Low	0.43	>=1	Low	0.42	>=1	
Methylation Ratio Ratio Low 19.84 ⇒=60 Low 18.67 ⇒=60 Total Estrogen/Progesterone Ratio Ratio - 1.29 0.5 - 1.5 Total Estrogen/Progesterone Ratio (w/ Oral Pg) Ratio - High 7.68 0.5 - 1.5 Testosterone ng/mg CR High 33.24 2.3 - 7.8 High 16.0 2.3 - 7.8 Dilhydrotestosterone ng/mg CR High 17.76 <=3.2	2-Methoxyestrone	ng/mg CR		7.44	3.1 - 15.8		3.51	3.1 - 15.8	
Total Estrogen/Progesterone Ratio (w/ Oral Pg)	2:16 Ratio (2-OHE1/16α-OHE1)	Ratio		4.09	>=4	Low	3.97	>=4	
Total Estrogen/Progesterone Ratio (w/ Oral Pg) Ratio Androgen Markers	Methylation Ratio	Ratio	Low	19.84	>=60	Low	18.67	>=60	
National Processor Nation	Total Estrogen/Progesterone Ratio	Ratio	-				1.29	0.5 - 1.5	
Testosterone ng/mg CR ng/mg C	Total Estrogen/Progesterone Ratio (w/ Oral Pg)	Ratio	-			High	7.68	0.5 - 1.5	
Dihydrotestosterone			Androgen I	Markers					
Testosterone Metabolites ng/mg CR	Testosterone	ng/mg CR	High	33.24	2.3 - 7.8	High	16.76	2.3 - 7.8	
Testosterone/Metabolite Ratio	Dihydrotestosterone	ng/mg CR	High	17.76	<=3.2	High	9.04	<=3.2	
Androsterone ng/mg CR Low 75.64 147 - 593 Low 38.43 147 - 593 Etiacholanolone ng/mg CR 186.08 120 - 421 S-alpha-Androstanediol ng/mg CR High 52.95 2.8 - 14.2 S-beta-Androstanediol ng/mg CR High 52.95 2.8 - 14.2 S-beta-Androstanediol ng/mg CR 40.38 14 - 54 S-free DHEA ng/mg CR 16.74 6.1 - 17.3 Average DHEA-S ng/mg CR 124.2 38 - 507 DHEA Total ng/mg CR Low 290.5 649 - 1315 S-G-Reductase Activity Ratio Low 0.3 0.5 - 1.5 Androstanedione ng/mg CR High 12.04 0 - 1.2 Migh Cortisol ng/mg CR 29.44 7 - 31 Migh-morning Cortisol ng/mg CR -	Testosterone Metabolites	ng/mg CR	High	111.09	21.9 - 70.1		60.95	21.9 - 70.1	
Etiocholanolone	Testosterone/Metabolite Ratio	Ratio	High	2.73	0.5 - 1.5	High	2.5	0.5 - 1.5	
5-alpha-Androstanediol ng/mg CR High 52.95 2.8 - 14.2 High 27.49 2.8 - 14.2 5-beta-Androstanediol ng/mg CR 40.38 14 - 54 24.42 14 2 24.42 14 - 54 24.42 14 - 54 24.42 14 - 54 24.42 14 - 54 24.42 14 - 54 24.42 14 - 54 24.42 14 - 54 24.42 14 - 54 24.42 14 - 54 24.42 14 - 54 24.42 14 - 54 24.42 14 2 24.42 14 - 54 24.42 14 24.42 14 2 24.42 14 2 24.42 14 2 24.42 14 2 24.42 14 2 24.42 14 24.42 14 2 24.42 14 2 24.42 14 2 24.42 14 2 24.42 14 2 24.42 14 24.42 14 24.42 14 24.42 14 24.42 14 24.42 14 24.42 14 24.42 14 24	Androsterone	ng/mg CR	Low	75.64	147 - 593	Low	38.43	147 - 593	
5-beta-Androstanediol ng/mg CR	Etiocholanolone	ng/mg CR		186.08	120 - 421	Low	95.31	120 - 421	
Free DHEA	5-alpha-Androstanediol	ng/mg CR	High	52.95	2.8 - 14.2	High	27.49	2.8 - 14.2	
Average DHEA-S DHEA Total ng/mg CR Low 290.5 649 - 1315 Low 183.59 649 - 1315 Sar-Reductase Activity Ratio Low 0.3 0.5 - 1.5 Low 0.29 0.5 - 1.5 Androstenedione ng/mg CR High 12.04 0 - 1.2 High 6.3 0 - 1.2 High 7 - 31 Hi	5-beta-Androstanediol	ng/mg CR		40.38	14 - 54		24.42	14 - 54	
DHEA Total ng/mg CR	Free DHEA	ng/mg CR		16.74	6.1 - 17.3		8.61	6.1 - 17.3	
5a-Reductase Activity Ratio Low 0.3 0.5 - 1.5 Low 0.29 0.5 - 1.5 Androstenedione ng/mg CR High 12.04 0 - 1.2 High 6.3 0 - 1.2 HPA - Axis Markers Waking Cortisol Mid-morning Cortisol ng/mg CR - High 50.84 7 - 31 Mid-morning Cortisol ng/mg CR - High 43.83 8 - 25 Evening Cortisol ng/mg CR - High 17.56 5 - 16 Bedtime Cortisol ng/mg CR - High 12.01 1 - 10 Waking Cortisone ng/mg CR - High 15.73 45 - 128 Mid-morning Cortisone ng/mg CR - High 21.573 45 - 128 Afternoon Cortisone ng/mg CR - High 21.573 45 - 128 Afternoon Cortisone ng/mg CR - High 91.70 42.3 Evening Cortisone ng/mg CR - Low	Average DHEA-S	ng/mg CR		124.2	38 - 507	Low	34.94	38 - 507	
Androstenedione ng/mg CR High 12.04 0-1.2 High 6.3 0-1.2 High 6.3 0-1.2 High Cortisol Ng/mg CR 29.44 7-31 High 50.84 7-31 High 73.34 15-50 Afternoon Cortisol ng/mg CR - 29.44 7-31 High 73.34 15-50 Afternoon Cortisol ng/mg CR - High 17.56 5-16 Bedtime Cortisol ng/mg CR - High 17.56 5-16 Bedtime Cortisol ng/mg CR - High 12.01 1-10 Waking Cortisone ng/mg CR - High 215.73 45-128 Afternoon Cortisone ng/mg CR - High 92.58 30-83 Evening Cortisone ng/mg CR - High 57.09 1-37 424-hour Cortisol ng/mg CR - Low 17.46 19-38 24-hour Cortisone ng/mg CR - Low 131.76 564-1194 Tetrahydrocortisol ng/mg CR - Low 33.96 36-134 11b-Hydroxyatiocholanolone ng/mg CR - Low 244.5 1160-2183	DHEA Total	ng/mg CR	Low	290.5	649 - 1315	Low	183.59	649 - 1315	
Waking Cortisol ng/mg CR 29.44 7 - 31 High 50.84 7 - 31 Mid-morning Cortisol ng/mg CR - High 73.34 15 - 50 Afternoon Cortisol ng/mg CR - High 17.56 5 - 16 Evening Cortisol ng/mg CR - High 17.56 5 - 16 Evening Cortisol ng/mg CR - High 17.56 17.56 17.56 Evening Cortisol ng/mg CR - High 17.56 17.56 17.56 Evening Cortisol ng/mg CR - High 17.56 17.56 Evening Cortisone ng/mg CR - High 17.56 18.00 26 - 75 High 215.73 45 - 128 High 27.573 High	5α-Reductase Activity	Ratio	Low	0.3	0.5 - 1.5	Low	0.29	0.5 - 1.5	
Waking Cortisol ng/mg CR 29.44 7 - 31 High 50.84 7 - 31 Mid-morning Cortisol ng/mg CR - High 73.34 15 - 50 Afternoon Cortisol ng/mg CR - High 43.83 8 - 25 Evening Cortisol ng/mg CR - High 17.56 5 - 16 Bedtime Cortisol ng/mg CR - High 12.01 1 - 10 Waking Cortisone ng/mg CR - High 13.0 26 - 75 Mid-morning Cortisone ng/mg CR - High 215.73 45 - 128 Afternoon Cortisone ng/mg CR - High 92.58 30 - 83 Evening Cortisone ng/mg CR - High 92.53 30 - 83 Evening Cortisone ng/mg CR - High 95.33 20 - 60 Bedtime Cortisone ng/mg CR - Low 17.46 19 - 38 24-hour Cortisone ng/mg CR - Low 14.04 39 - 74 <td>Androstenedione</td> <td>ng/mg CR</td> <td>High</td> <td>12.04</td> <td>0 - 1.2</td> <td>High</td> <td>6.3</td> <td>0 - 1.2</td>	Androstenedione	ng/mg CR	High	12.04	0 - 1.2	High	6.3	0 - 1.2	
Mid-morning Cortisol ng/mg CR - High 73.34 15 - 50 Afternoon Cortisol ng/mg CR - High 43.83 8 - 25 Evening Cortisol ng/mg CR - High 17.56 5 - 16 Bedtime Cortisol ng/mg CR - High 12.01 1 - 10 Waking Cortisone ng/mg CR - High 12.01 1 - 10 Waking Cortisone ng/mg CR - High 12.573 45 - 128 Mid-morning Cortisone ng/mg CR - High 215.73 45 - 128 Afternoon Cortisone ng/mg CR - High 215.73 45 - 128 Afternoon Cortisone ng/mg CR - High 215.73 45 - 128 Afternoon Cortisone ng/mg CR - Low 15.33 20 - 60 Bedtime Cortisone ng/mg CR - Low 17.46 19 - 33 24-hour Cortisone ng/mg CR - Low 17.46 19 - 38 <			HPA - Axis	Markers					
Afternoon Cortisol ng/mg CR - High 43.83 8 - 25 Evening Cortisol ng/mg CR - High 17.56 5 - 16 Bedtime Cortisol ng/mg CR - High 12.01 1 - 10 Waking Cortisone ng/mg CR 61.55 26 - 75 High 138.0 26 - 75 Mid-morning Cortisone ng/mg CR - High 215.73 45 - 128 Afternoon Cortisone ng/mg CR - High 215.73 45 - 128 Afternoon Cortisone ng/mg CR - High 215.73 45 - 128 Afternoon Cortisone ng/mg CR - High 215.73 45 - 128 Afternoon Cortisone ng/mg CR - 53.3 20 - 60 88 Evening Cortisone ng/mg CR - Low 17.46 19 - 38 Evening Cortisone ng/mg CR - Low 17.46 19 - 38 Evening Cortisone ng/mg CR - Low 14.04 39 - 74 Pregnanetriol ng/mg CR - Low 120.99	Waking Cortisol	ng/mg CR		29.44	7 - 31	High	50.84	7 - 31	
Evening Cortisol ng/mg CR - High 17.56 5 - 16 Bedtime Cortisol ng/mg CR - High 12.01 1 - 10 Waking Cortisone ng/mg CR 61.55 26 - 75 High 138.0 26 - 75 Mid-morning Cortisone ng/mg CR - High 215.73 45 - 128 Afternoon Cortisone ng/mg CR - High 92.58 30 - 83 Evening Cortisone ng/mg CR - High 57.09 1 - 37 Evening Cortisone ng/mg CR - High 57.09 1 - 37 Evening Cortisone ng/mg 24hr CR - Low 17.46 19 - 38 Evening Cortisone ng/mg 24hr CR - Low 14.04 39 - 74 Pregnanetriol ng/mg CR - Low 120.99 170 - 423 Allo-Tetrahydrocortisol ng/mg CR - Low 131.76 564 - 1194 Tetrahydrocortisone ng/mg CR - Low 131.76 564 - 1194 Tetrahydrocortisol ng/mg CR - Low 47.23 62 - 213 Th-Hydroxyandrosterone ng/mg CR - Low 33.96 36 - 134 Th-Hydroxyandrosterone ng/mg CR - Low 244.5 The Hydroxyandrosterone ng/mg CR - Low 244.5 The Hydroxyandrosterone ng/mg CR - Low 244.5 Cortisol Metabolites ng/mg CR - Low 244.5 The Hydroxyandrosterone ng/mg CR - Low 244.5	Mid-morning Cortisol	ng/mg CR	-			High	73.34	15 - 50	
Bedtime Cortisol ng/mg CR - High 12.01 1 - 10 Waking Cortisone ng/mg CR 61.55 26 - 75 High 138.0 26 - 75 Mid-morning Cortisone ng/mg CR - High 215.73 45 - 128 Afternoon Cortisone ng/mg CR - High 92.58 30 - 83 Evening Cortisone ng/mg CR - High 92.58 30 - 83 Evening Cortisone ng/mg CR - High 92.58 30 - 83 Evening Cortisone ng/mg CR - Low 14.04 39 - 78 Bedtime Cortisone ng/mg CR - Low 17.46 19 - 38 Evening Cortisone ng/mg 24hr CR - Low 14.04 19 - 38 24-hour Cortisone ng/mg CR - Low 14.04 19 - 38 24-hour Cortisone ng/mg CR - Low 14.04 19 - 38 24-hour Cortisone ng/mg CR - Low 15.05 17 - 4	Afternoon Cortisol	ng/mg CR	-			High	43.83	8 - 25	
Waking Cortisone ng/mg CR 61.55 26 - 75 High 138.0 26 - 75 Mid-morning Cortisone ng/mg CR - High 215.73 45 - 128 Afternoon Cortisone ng/mg CR - High 92.58 30 - 83 Evening Cortisone ng/mg CR - 53.3 20 - 60 Bedtime Cortisone ng/mg CR - Low 17.46 19 - 38 24-hour Cortisone ng/mg 24hr CR - Low 17.46 19 - 38 24-hour Cortisone ng/mg CR - Low 14.04 39 - 74 Pregnanetriol ng/mg CR - Low 14.04 39 - 74 Pregnanetriol ng/mg CR - Low 12.09 170 - 423 Allo-Tetrahydrocortisol ng/mg CR - Low 131.76 564 - 1194 Tetrahydrocortisone ng/mg CR - Low 131.76 564 - 1194 Tetrahydrocortisol ng/mg CR - Low 47.23 62 - 213	Evening Cortisol	ng/mg CR	-			High	17.56	5 - 16	
Mid-morning Cortisone ng/mg CR - High 215.73 45 - 128 Afternoon Cortisone ng/mg CR - High 92.58 30 - 83 Evening Cortisone ng/mg CR - 53.3 20 - 60 Bedtime Cortisone ng/mg CR - Low 17.46 19 - 38 24-hour Cortisone ng/mg 24hr CR - Low 17.46 19 - 38 24-hour Cortisone ng/mg 24hr CR - Low 14.04 39 - 74 Pregnanetriol ng/mg CR - Low 120.99 170 - 423 Allo-Tetrahydrocortisol ng/mg CR - 60.11 53 - 155 Tetrahydrodeoxycortisol ng/mg CR - Low 131.76 564 - 1194 Tetrahydrocortisol ng/mg CR - Low 52.63 369 - 795 11-Keto (Androsterone + Etiocholanolone) ng/mg CR - Low 47.23 62 - 213 11b-Hydroxyandrosterone ng/mg CR - Low 33.96 36 - 134	Bedtime Cortisol	ng/mg CR	-			High	12.01	1 - 10	
Afternoon Cortisone ng/mg CR - High 92.58 30 - 83 Evening Cortisone ng/mg CR - 53.3 20 - 60 Bedtime Cortisone ng/mg CR - High 57.09 1 - 37 24-hour Cortisol ng/mg 24hr CR - Low 17.46 19 - 38 24-hour Cortisone ng/mg 24hr CR - Low 14.04 39 - 74 Pregnanetriol ng/mg CR - Low 120.99 170 - 423 Allo-Tetrahydrocortisol ng/mg CR - 60.11 53 - 155 Tetrahydrocortisol ng/mg CR - 50.57 46 - 106 Tetrahydrocortisone ng/mg CR - Low 131.76 564 - 1194 Tetrahydrocortisol ng/mg CR - Low 52.63 369 - 795 11-Keto (Androsterone + Etiocholanolone) ng/mg CR - Low 47.23 62 - 213 11b-Hydroxyandrosterone ng/mg CR - Low 33.96 36 - 134 11b-Hydroxyetiocholanolone ng/mg CR - Low 244.5 1160 - 2183	Waking Cortisone	ng/mg CR		61.55	26 - 75	High	138.0	26 - 75	
Evening Cortisone ng/mg CR - 53.3 20 - 60 Bedtime Cortisone ng/mg CR - High 57.09 1 - 37 24-hour Cortisol ng/mg 24hr CR - Low 17.46 19 - 38 24-hour Cortisone ng/mg 24hr CR - Low 14.04 39 - 74 Pregnanetriol ng/mg CR - Low 120.99 170 - 423 Allo-Tetrahydrocortisol ng/mg CR - 60.11 53 - 155 Tetrahydrodeoxycortisol ng/mg CR - 50.57 46 - 106 Tetrahydrocortisone ng/mg CR - Low 131.76 564 - 1194 Tetrahydrocortisol ng/mg CR - Low 52.63 369 - 795 11-Keto (Androsterone + Etiocholanolone) ng/mg CR - Low 47.23 62 - 213 11b-Hydroxyandrosterone ng/mg CR - Low 33.96 36 - 134 11b-Hydroxyetiocholanolone ng/mg CR - Low 244.5 1160 - 2183	Mid-morning Cortisone	ng/mg CR	-			High	215.73	45 - 128	
Bedtime Cortisone ng/mg CR - High 57.09 1 - 37 24-hour Cortisol ng/mg 24hr CR - Low 17.46 19 - 38 24-hour Cortisone ng/mg 24hr CR - Low 14.04 39 - 74 Pregnanetriol ng/mg CR - Low 120.99 170 - 423 Allo-Tetrahydrocortisol ng/mg CR - 60.11 53 - 155 Tetrahydrodeoxycortisol ng/mg CR - 50.57 46 - 106 Tetrahydrocortisone ng/mg CR - Low 131.76 564 - 1194 Tetrahydrocortisol ng/mg CR - Low 52.63 369 - 795 11-Keto (Androsterone + Etiocholanolone) ng/mg CR - Low 47.23 62 - 213 11b-Hydroxyandrosterone ng/mg CR - Low 33.96 36 - 134 11b-Hydroxyetiocholanolone ng/mg CR - Low 244.5 1160 - 2183	Afternoon Cortisone	ng/mg CR	-			High	92.58	30 - 83	
24-hour Cortisol ng/mg 24hr CR - Low 17.46 19 - 38 24-hour Cortisone ng/mg 24hr CR - Low 14.04 39 - 74 Pregnanetriol ng/mg CR - Low 120.99 170 - 423 Allo-Tetrahydrocortisol ng/mg CR - 60.11 53 - 155 Tetrahydrodeoxycortisol ng/mg CR - 50.57 46 - 106 Tetrahydrocortisone ng/mg CR - Low 131.76 564 - 1194 Tetrahydrocortisol ng/mg CR - Low 52.63 369 - 795 11-Keto (Androsterone + Etiocholanolone) ng/mg CR - Low 47.23 62 - 213 11b-Hydroxyandrosterone ng/mg CR - Low 33.96 36 - 134 11b-Hydroxyetiocholanolone ng/mg CR - 60.82 57 - 202 Cortisol Metabolites ng/mg CR - Low 244.5 1160 - 2183	Evening Cortisone	ng/mg CR	-				53.3		
24-hour Cortisone ng/mg 24hr CR - Low 14.04 39 - 74 Pregnanetriol ng/mg CR - Low 120.99 170 - 423 Allo-Tetrahydrocortisol ng/mg CR - 60.11 53 - 155 Tetrahydrodeoxycortisol ng/mg CR - 50.57 46 - 106 Tetrahydrocortisone ng/mg CR - Low 131.76 564 - 1194 Tetrahydrocortisol ng/mg CR - Low 52.63 369 - 795 11-Keto (Androsterone + Etiocholanolone) ng/mg CR - Low 47.23 62 - 213 11b-Hydroxyandrosterone ng/mg CR - Low 33.96 36 - 134 11b-Hydroxyetiocholanolone ng/mg CR - 60.82 57 - 202 Cortisol Metabolites ng/mg CR - Low 244.5 1160 - 2183	Bedtime Cortisone	ng/mg CR	-			High	57.09		
Pregnanetriol ng/mg CR - Low 120.99 170 - 423 Allo-Tetrahydrocortisol ng/mg CR - 60.11 53 - 155 Tetrahydrodeoxycortisol ng/mg CR - 50.57 46 - 106 Tetrahydrocortisone ng/mg CR - Low 131.76 564 - 1194 Tetrahydrocortisol ng/mg CR - Low 52.63 369 - 795 11-Keto (Androsterone + Etiocholanolone) ng/mg CR - Low 47.23 62 - 213 11b-Hydroxyandrosterone ng/mg CR - Low 33.96 36 - 134 11b-Hydroxyetiocholanolone ng/mg CR - 60.82 57 - 202 Cortisol Metabolites ng/mg CR - Low 244.5 1160 - 2183	24-hour Cortisol	ng/mg 24hr CR	-			Low			
Allo-Tetrahydrocortisol ng/mg CR - 60.11 53 - 155 Tetrahydrodeoxycortisol ng/mg CR - 50.57 46 - 106 Tetrahydrocortisone ng/mg CR - Low 131.76 564 - 1194 Tetrahydrocortisol ng/mg CR - Low 52.63 369 - 795 11-Keto (Androsterone + Etiocholanolone) ng/mg CR - Low 47.23 62 - 213 11b-Hydroxyandrosterone ng/mg CR - Low 33.96 36 - 134 11b-Hydroxyetiocholanolone ng/mg CR - 60.82 57 - 202 Cortisol Metabolites ng/mg CR - Low 244.5 1160 - 2183	24-hour Cortisone	ng/mg 24hr CR	-			Low	14.04		
Tetrahydrodeoxycortisol ng/mg CR - 50.57 46 - 106 Tetrahydrocortisone ng/mg CR - Low 131.76 564 - 1194 Tetrahydrocortisol ng/mg CR - Low 52.63 369 - 795 11-Keto (Androsterone + Etiocholanolone) ng/mg CR - Low 47.23 62 - 213 11b-Hydroxyandrosterone ng/mg CR - Low 33.96 36 - 134 11b-Hydroxyetiocholanolone ng/mg CR - 60.82 57 - 202 Cortisol Metabolites ng/mg CR - Low 244.5 1160 - 2183	Pregnanetriol	ng/mg CR	-			Low			
Tetrahydrocortisone ng/mg CR - Low 131.76 564 - 1194 Tetrahydrocortisol ng/mg CR - Low 52.63 369 - 795 11-Keto (Androsterone + Etiocholanolone) ng/mg CR - Low 47.23 62 - 213 11b-Hydroxyandrosterone ng/mg CR - Low 33.96 36 - 134 11b-Hydroxyetiocholanolone ng/mg CR - 60.82 57 - 202 Cortisol Metabolites ng/mg CR - Low 244.5 1160 - 2183	Allo-Tetrahydrocortisol	ng/mg CR	-						
Tetrahydrocortisol ng/mg CR - Low 52.63 369 - 795 11-Keto (Androsterone + Etiocholanolone) ng/mg CR - Low 47.23 62 - 213 11b-Hydroxyandrosterone ng/mg CR - Low 33.96 36 - 134 11b-Hydroxyetiocholanolone ng/mg CR - 60.82 57 - 202 Cortisol Metabolites ng/mg CR - Low 244.5 1160 - 2183	Tetrahydrodeoxycortisol	ng/mg CR	-				50.57	46 - 106	
11-Keto (Androsterone + Etiocholanolone) ng/mg CR - Low 47.23 62 - 213 11b-Hydroxyandrosterone ng/mg CR - Low 33.96 36 - 134 11b-Hydroxyetiocholanolone ng/mg CR - 60.82 57 - 202 Cortisol Metabolites ng/mg CR - Low 244.5 1160 - 2183	Tetrahydrocortisone	ng/mg CR	-			Low	131.76	564 - 1194	
11b-Hydroxyandrosterone ng/mg CR - Low 33.96 36 - 134 11b-Hydroxyetiocholanolone ng/mg CR - 60.82 57 - 202 Cortisol Metabolites ng/mg CR - Low 244.5 1160 - 2183	Tetrahydrocortisol	ng/mg CR	-			Low	52.63	369 - 795	
11b-Hydroxyetiocholanolone ng/mg CR - 60.82 57 - 202 Cortisol Metabolites ng/mg CR - Low 244.5 1160 - 2183	11-Keto (Androsterone + Etiocholanolone)	ng/mg CR	-			Low	47.23	62 - 213	
Cortisol Metabolites ng/mg CR - Low 244.5 1160 - 2183	11b-Hydroxyandrosterone	ng/mg CR	-			Low	33.96	36 - 134	
• •	11b-Hydroxyetiocholanolone	ng/mg CR	-				60.82	57 - 202	
Cortisol: Metabolite Ratio - High 3.81 0.5 - 1.5	Cortisol Metabolites	ng/mg CR	-			Low	244.5	1160 - 2183	
	Cortisol: Metabolite Ratio	Ratio	-			High	3.81	0.5 - 1.5	

Performed by Physicians Lab 4850 T-Rex Ave, Suite 150, Boca Raton, FL 33431 CLIA Lic. # 10D2147002



Accession# S-0223-0001827

Analyte Unit		2/15/2	2/15/2023 (S-0223-0001822)			2/16/2023 (S-0223-0001827)		
Alldiyle	Oilit	Observation	Results	Reference Range	Observation	Results	Reference Range	
Total 17-Ketosteroids	ng/mg CR	-			Low	290.66	730 - 1522	
Total 17-Hydroxysteroids	ng/mg CR	-			Low	416.06	1492 - 2637	
Anabolic/Catabolic Ratio	Ratio	-				1.28	0.5 - 1.5	
Cortisol/Cortione 11B-HSD II	Ratio	-			High	2.45	0.4 - 1.2	

