

Adrenal Hormone Report; saliva



Order: SAMPLE

Client #: 12345

Doctor: Sample Doctor, MD

Doctors Data Inc. 3755 Illinois Ave. St. Charles, IL 60174 Patient: Sample Report

Age: 58 Sex: Female

Body Mass Index (BMI): N/A

Menopausal Status: Post-Menopausal

 Sample Collection
 Date/Time

 Date Collected
 10/01/2018

 AM30
 10/01/2018 0800

 Noon
 10/01/2018 2100

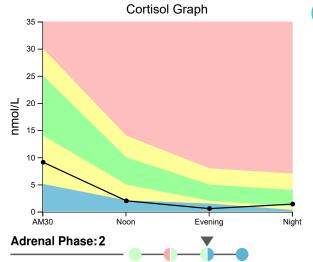
 Evening
 10/01/2018 1200

 Night
 10/01/2018 1700

 Date Received
 10/03/2018

 Date Reported
 10/05/2018

Analyte	Result	Unit	L	WRI	н	Optimal Range	Reference Interval
Cortisol AM30	9.1	nmol/L	\rightarrow			14.0 - 25.0	5.1 - 30.0
Cortisol Noon	2.0	nmol/L	+			5.0 - 10.0	2.1 - 14.0
Cortisol Evening	0.57	nmol/L	+		:	2.0 - 5.0	1.5 - 8.0
Cortisol Night	1.4	nmol/L		\rightarrow		1.0 - 4.0	0.33 - 7.0
DHEA*	110	pg/mL		\rightarrow			106 - 300





Hormone Comments:

Diurnal cortisol pattern and reported symptoms are consistent with evolving (Phase 2) HPA axis (adrenal gland) dysfunction.

Notes

RI= Reference Interval, L (blue)= Low (below RI), WRI (green)= Within RI (optimal), WRI (yellow)= Within RI (not optimal), H (red)= High (above RI) The current samples are routinely held three weeks from receipt for additional testing.

*This test was developed and its performance characteristics determined by Doctor's Data, Inc. The FDA has not approved or cleared this test; however, FDA clearance or approval is not currently required for clinical use. The results are not intended to be used as the sole means for clinical diagnosis or patient management decisions.

Methodology: Enzyme Immunoassay



Order: 999999-9999

Client #: 12345

Doctor: Sample Doctor, MD

Doctor's Data, Inc. 3755 Illinois Ave. St. Charles, IL 60174 Patient: Sample Report

Age: 58 Sex: Female

Body Mass Index (BMI): N/A

Sample Collection Date/Time 10/01/2018

Date Collected Wake Up Time

0557 First morning

Date Received Date Reported

Collection Time

Collection Period 10/03/2018 10/05/2018

Analyte	Result	Unit per Creatinine	L	WRI	н	Reference Interval
Serotonin	55	μg/g				60 - 125
Dopamine	155	μg/g				125 - 250
Norepinephrine	14	μg/g				22 - 50
Epinephrine	8.5	μg/g				1.6 - 8.3
Norepinephrine / Epinephrine ratio	1.6					< 13
Glutamate	5.2	nmol/g				12.0 - 45.0
Gamma-aminobutyrate (GABA)	2.8	nmol/g		<u> </u>		2.0 - 5.6
Glycine	640	nmol/g				450 - 2200
Histamine	68	μg/g				14 - 44
Phenethylamine (PEA)	80	nmol/g				32 - 84
Creatinine	125	mg/dL		<u> </u>		30 - 225



Neurotransmitter Comments:

- Urinary neurotransmitter levels provide an overall assessment of the body's ability to make and break down neurotransmitters and are representative of whole body levels. They are required for neurotransmission throughout the body. Direct assessment of neurotransmitter levels and metabolism in the central nervous system is not clinically feasible and approximately twenty percent of the total urinary levels are derived from the brain. The enzymes, cofactors and precursors in neurotransmitter metabolism in general are the same in the periphery and in the central nervous system. Therefore, alterations in urinary neurotransmitter levels assessed in urine provide important clinical information, and may be associated with many symptoms including cognitive and mood concerns, diminished drive, fatigue and sleep difficulties, cravings, addictions and pain.
- Low serotonin may contribute to mood concerns including anxiety, OCD, depression, anger and a sense of discontentment. Low serotonin may also be associated with poor sleep quality and appetite changes, as well as chronic fatigue, rheumatoid arthritis, and over-all lassitude. Failure to regenerate tetrahydrobiopterin [BH4], an essential cofactor for serotonin synthesis, may decrease serotonin levels, and could be reflected in urine. BH4 regeneration may be supported by folates, vitamin B3, C, molybdenum and zinc. Additionally, production of serotonin requires vitamin D, iron and vitamin B6. Tryptophan is the essential precursor of serotonin. 5-HTP may increase serotonin, and L-theanine may affect serotonin function.
- Low norepinephrine may be associated with depression and mood changes as well as fatigue, difficulty concentrating, decreased ability to stay focused on tasks and diminished sense of personal/professional drive. Norepinephrine is converted from dopamine requiring vitamin C, copper and B3, and L-tyrosine is an amino acid precursor. L-theanine and Mucuna pruriens may modulate norepinephrine effects.
- Elevated epinephrine may be associated with stress response and contributory to anxiety, agitation, irritability, insomnia and hypertension. Epinephrine levels may be elevated in patients in association with exercise prior to the urine collection. Metabolism of epinephrine requires vitamins B2, B3, SAMe, magnesium, and iron. L-theanine may modulate epinephrine effects.
- Low glutamate may be associated with depression, increased addictive tendencies including food seeking behaviors, and can contribute to mental fatigue and diminished mental stimulation. L-glutamine is a precursor amino acid.
- Elevated histamine may be associated with allergy-like symptoms, gastro-intestinal concerns, skin itch/inflammation (pruritis), increased wakefulness and insomnia, and has been demonstrated in gastrointestinal blastocystis infections. Levels may be elevated due to use of histamine-releasing medications, consumption of allergenic and sulfite-rich foods and/or histamine-rich foods, dysbiotic bacterial production in the intestine and zinc deficiency. High urine (and blood) histamine levels have been associated with cluster and cyclic headaches. Break down of histamine requires SAMe and copper.
- Considerations to address the demonstrated imbalances beyond the identified co-factors and amino acid precursors may include dosage adjustments if indicated, as well as nervine and adaptogenic herbs, methylation support, vitamin D, and gastrointestinal health optimization.

Notes:

