

Test	Description	Result	Ref Values	
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ASI Adrenal Stress Index (Original) - Saliva

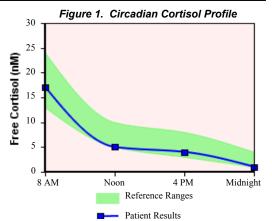
TAP Free Cortisol Rhythm - Saliva

Cortisol Load:	27		22 - 46 nM
10:00 - Midnight	1	Normal	1-4 nM
04:00 - 05:00 PM	4	Normal	3-8 nM
11:00 - 1:00 PM	5	Normal	5-10 nM
06:00 - 08:00 AM	17	Normal	13-24 nM
Tice Cortisor Knythin - Sanva			

The cortisol load reflects the area under the cortisol curve. This is an indicator of overall cortisol exposure, where high values favor a catabolic state, and low values are sign of adrenal deterioration.

Figure 2.

The Cortisol release inducers fall into 4 broad categories shown in the adjacent flowchart. Long term adrenal axis maintenance and restoration, require optimization of all the cortisol inducers.



The Inducers of Cortisol Release

Inducers below must be individually examined for successful restoration of adrenals.

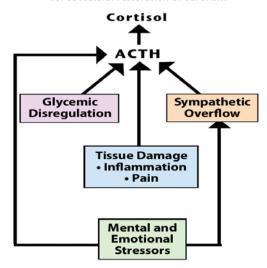


Figure 2.

Test Description Result Ref Values

DHEA Dehydroepiandrosterone Free [DHEA + DHEA-S]

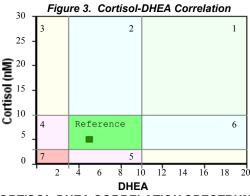
Pooled Value 5 Normal Adults (M/F): 3-10 ng/ml

Figure 3 shows your cortisol-DHEA correlation was in:

Reference zone

Individuals with values in this zone usually display a balance in the average values of cortisol to DHEA for the day.

Falling in the reference zone does not preclude the occurrence of high or low cortisol at any specific time on the circadian.



CORTISOL-DHEA CORRELATION SPECTRUM

- 1. Adapted to stress.
- 2. Adapted with DHEA slump.
- 3. Maladapted Phase I.
- 4. Maladapted Phase II.
- 5. Non-adapted, Low Reserves
- 6. High DHEA.
- 7. Adrenal Fatigue.

ISN Insulin - Saliva

Fasting <3 Normal: 3-12 uIU/mL

Non-Fasting <3 Depressed Optimal: 5-20 uIU/mL

Depressed Non Fasting insulin within four hours after meal. This may be caused by a small carbohydrate load in the preceding challenge meal or a reduction in pancreatic insulin release or synthesis. Consider a closer examination of challenge meal composition to rule out pre-diabetic tendencies.

Why Test for Insulin?

Insulin activity is affected by the stress and cortisol responses. Chronic stress with cortisol elevation antagonizes insulin, and may cause functional insulin resistance. Furthermore, chronic hypercortisol causes hyperinsulin responses to carbohydrate intake. Chronic insulin resistance and overproduction lead to pancreatic exhaustion.

Basic facts about insulin values.

Fasting: This insulin value is elevated in cases of insulin resistance.

Non Fasting: This insulin value varies with type of meal and time of sample collection. See figure 4b. Adapted, Br. J. Nutr. 2003, 90:853 For an after meal insulin, instruct patient to eat 50g of carbohydrate or what is equivalent to 200 calories about 45-90 minutes before noon sample collection. Examples: 2 slices of white bread and 1 cup of orange juice OR 1 cup of cooked oatmeal and 1 cup of orange juice OR 2 ounces of corn flakes snack.



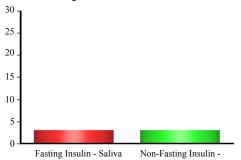
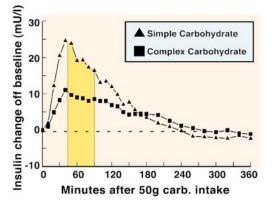


Figure 4b. Serum Insulin - Time Curve



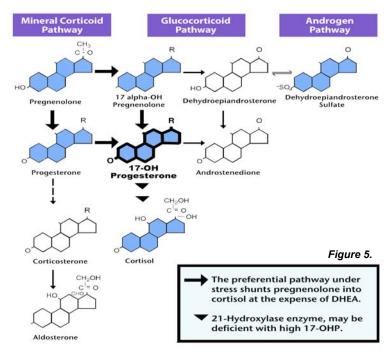
Shaded area is optimal period of post-prandial collection.

Test	Description	Resu	ılt	Ref Values
Р17-ОН	17-OH Progesterone	94	Normal	Adults

Optimal: 22-100 pg/ml

Borderline: 101-130 pg/ml Elevated: >130 pg/ml

Figure 5. Adrenal Steroid Synthesis Pathway



MB2S Total Salivary SIgA 10 Depressed

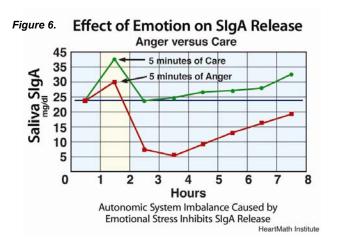
A depressed mucosal SIgA may be attributed to one or more of the following reasons:

- 1- Excessive chronic cortisol output causes reduction in SIgA production due to low counts of SIgA immunocytes. Appropriate restorative treatments have been shown to produce incremental improvements in SIgA.
- 2- A short imbalance in sympathetic to parasympathetic activity rapidly inhibits SIgA release from the mucosal immunocytes for several hours.
- 3- Chronic deficits in cortisol and/or DHEA levels.
- 4- Possible systemic deficit in capacity to produce IgA an inherited problem. Rule out possibility with a serum IgA test. A normal finding rules out this possibility.

Normal: 25-60 mg/dl Borderline: 20-25 mg/dl

Basic Facts About SlgA

- 1. Secretory IgA (SIgA) is secreted by the various mucosal surfaces. It is mostly a dimeric molecule. Less than 2% of Saliva is of serum origin. The secretory component of SIgA stabilizes it against enzymatic and bacterial degradation.
- 2. The main functions of SIgA include Immune Exclusion, Viral and Toxin Neutralization, Plasmid Elimination, and Inhibition of Bacterial Colonization. SIgA immune complexes are not inflamatory to the mucosal surfaces.



Test	Description	Resu	lt	Ref Values
FI4	Gliadin Ab, SIgA (Saliva)	<1	Negative	Borderline: 13-15 U/ml
				Positive: >15 U/ml
				Notes on Gliadin Ab Test
				Gliadins are polypeptides found in wheat, rye, oat, barley, and
				other grain glutens, and are toxic to the intestinal mucosa in
				susceptible individuals.
				Healthy adults and children may have a positive antigliadin test
				because of subclinical gliadin intolerance. Some of their symptoms
				include mild enteritis, occasional loose stools, fat intolerance,
				marginal vitamin and mineral status, fatigue, or accelerated
				osteoporosis.
				Scan J Gastroenterol 29:248(1994)

Example of restoration Plan

All Examples of Restoration Plans are for Illustrative/Educational Purpose Only. Actual report data should be used within clinical context.

To improve SIgA levels consider two aspects:

- 1) Reduction in suppression when applicable:
 - a. Optimize cortisol/DHEA balance
 - b. Balance sympathetic/parasympathetic activity
 - c. Rule out inherited IgA production deficit
- 2) Production Enhancement may include:
 - a. Exercise program
 - b. Vitamin E complex e.g. wheat germ oil
 - c. Botanical adaptogen supplementation

	Ref Values	Result	Description	Test
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COURTESY INTERPRETATION of test and technical support are available upon request, to Physicians Only