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Acc	ession # 12-AASI				Received : 01/30/20 Completed: 01/30/20 Reported : 02/06/20	12 12 12
DI DI 662	AGNOS-TECHS, INC. AGNOS TECHS 20 S 192ND PL # J-104				Results For: FEMALE PATIENT Age:35 Sex:Female Dx Code:Not Provided	
KE US	ENT WA 98032 SA Tel: 425-251-0596 1	Fax: 425-25	51-0637		Patient's Tel: Specimen Collected:01/28/2012	
Test	Description	Result		<b>Ref Values</b>		
ASI	Adrenal Stress Index (	Original)			30 Figure 1. Circadian Cortisol Profile	
ТАР	Free Cortisol Rhythm					
	06:00 - 08:00 AM	20	Normal	13-24 nM	<b>e</b> <sup>25</sup>	
	11:00 - 1:00 PM	8	Normal	5-10 nM		

3-8 nM

1-4 nM

**Cortisol Load:** 36 **23 - 42 nM** The cortisol load reflects the area under the cortisol curve. This is a

6

2

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.

Normal

Normal

#### Figure 2.

04:00 - 05:00 PM

10:00 - Midnight

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



Figure 2.

Accessi	ion: 12-AASI			Continue Results For: PATIENT, FEMALE
Test	Description	Result	<b>Ref Values</b>	
DHEA	Debydroeniandrostero	one Free IDHEA + DHF	CA-SI	30 Figure 3. Cortisol-DHEA Correlation
DILA	Pooled Value	6 Normal	Adults (M/F): 3-10 ng/ml	25 - 3 2 1
	Figure 3 shows your Reference zone Individuals with value average values of cor Falling in the reference low cortisol at any sp	r cortisol-DHEA corr es in this zone usually tisol to DHEA for the ce zone does not prech ecific time on the circa	relation was in: display a balance in the day. ude the occurrence of high or adian.	<i>CORTISOL-DHEA CORRELATION SPECTRUM</i> 1. Adapted to stress. 2. Adapted with DHEA slump. 3. Maladapted Phase I. 4. Maladapted Phase I. 5. Non-adapted, Low Reserves 6. High DHEA. 7. Adrenal Fatigue.
ISN	<b>Insulin</b> Fasting	4 Normal	Normal: 3-12 uIU/mL	Figure 4a. Insulin Levels
	Non-Fasting	10 Normal	Optimal: 5-20 uIU/mL	25 - 20 -
	Why Test for Insulin Insulin activity is afferent stress with cortisol electron functional insulin response hyperinsulin response and overproduction lectron	ected by the stress and evation antagonizes in istance. Furthermore, o es to carbohydrate inta ead to pancreatic exhan	15 - 10 - 5 - 0 Fasting Insulin Non-Fasting Insulin	
	Basic facts about insu	ılin values.	Figure 4b. Serum Insulin - Time Curve	
	Fasting: This insulin Non Fasting: This ins sample collection. Se	value is elevated in cas ulin value varies with e figure 4b. Adapted, l	30 eigen 20 20 20 20 20 20 20 20 20 20	
	For an after meal insu- what is equivalent to sample collection. Ex juice OR 1 cup of coo of corn flakes snack.	angles: 2 slices of whoked oatmeal and 1 cu	10 0 0 0 0 0 0 0 0 0 0 0 0 0	

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collection.

Minutes after 50g carb. intake

Shaded area is optimal period of post-prandial

Figure 5.

The preferential pathway under

stress shunts pregnenolone into cortisol at the expense of DHEA. 21-Hydroxylase enzyme, may be deficient with high 17-OHP.

Accessi	DII: 12-AASI		Continue Results Foi. FATIENT, FEMAL
Test	Description	Result	Ref Values
P17-OH	17-OH Progesterone	60 Normal	Adults Optimal: 22-100 pg/ml Borderline: 101-130 pg/ml Elevated: >130 pg/ml
	Figure 5. Adrenal Stero	id Synthesis Pathway	Mineral Corticoid PathwayGlucocorticoid PathwayAndrogen Pathway $\downarrow$

#### 20 MB2S **Total Salivary SIgA** Borderline

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

Aldosteron

Corticosterone

CH2OH

0

#### Basic Facts About SIgA

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.

HOH 0

Cortisol

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.



### Effect of Emotion on SIgA Release Figure 6.

Accession: 12-AASI Continue Results For: PATIENT			Continue Results For: PATIENT, FEMALI
Test	Description	Result	<b>Ref Values</b>
FI4	Gliadin Ab, SIgA (Saliva)	6 Negative	Borderline: 13-15 U/ml Positive: >15 U/ml
			<ul> <li><u>Notes on Gliadin Ab Test</u></li> <li>Gliadins are polypeptides found in wheat, rye, oat, barley, and other grain glutens, and are toxic to the intestinal mucosa in susceptible individuals.</li> <li>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.</li> <li>Scan J. Gastroenterol 29:248(1994)</li> </ul>

#### **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

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Test	Description	Result	<b>Ref Values</b>	

COURTESY INTERPRETATION of test and technical support are available upon request, to Physicians Only