Clinical & Research Laboratory PO BOX 389662, Tukwila, WA 98138-0662 Tel: (425) 251-0596 CLIA License # 50D0630141

Test	Description	Re	sult	<b>Ref Values</b>			
ASI	Adrenal Stress Index					Fig	ure 1. Circadian Cortisol Profile
ТАР	Free Cortisol Rhythm					30	
	07:00 - 08:00 AM	11	Depressed	13-24 nM		25 -	
	11:00 - Noon	4	Depressed	5-10 nM	(Mu	20	$\sim N_{\odot}$
	04:00 - 05:00 PM	4	Normal	3-8 nM	isol (i	20 -	
	11:00 - Midnight	3	Normal	1-4 nM	Cort	15 -	
					Free	10 -	
	Cortisol Burden:	22		23 - 42		_	and the second sec
	The cortisol burden reflects the area under the cortisol curve. This is an indicator of overall cortisol exposure, where high values favor a catabolic					0	
	state, and low values are sign of adrenal deterioration.						8 AM NOON 4 PM Midnight

#### 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.

Remarks: Depressed morning cortisol, < 13 nM, is suggestive of marginal HPA (Hypothalamic-Pituitary-Adrenal) performance. Normal rhythms exhibit highest cortisol value for the day at 7 - 8 AM.



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



Test Description Result Ref Values
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Example of restoration Plan

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

#### **Example- Cortisol Augmentation or Licorice Supplementation**

Observed Cortisol Value(nM)	Intake Time	Typical Cortisol Dose	R- Whole Licorice Extract Glycyrrhizic Acid Content	
Morning Value				
10-13		5mg		
5-9	6-7AM	7.5mg	10-15mg	
less than 5		12.5mg		
Noon Value		7.5 m a	5-10mg	
less than 4	11AM-12PM	7.5mg		
Afternoon Value	2.40M	Ema	5 10mg	
less than 3	3-4 P W	ong	5-TUMB	

\*Do not use licorice in overtly hypertensive individuals. Do not exceed a total daily dose of 25-35mg of glycyrrhizic acid. Re-test by 8th week of use. Avoid use of licorice in pregnant women.

#### Example of DHEA Augmentation: Male

Weekly Protocol	O	Sublingual DHEA	
	AM Dosage	PM Dosage	Daily Dosage
1st week	5mg	None	5mg <i>once</i> a day
2nd week	5mg	5mg	5mg <b>twice</b> a day
3rd week	10mg	5mg	
4th week	10mg	10mg	7mg <i>twice</i> a day
5th-12th week	15mg 10mg		
13th week		Retest DHEA	

**Note:** DHEA augmentation not applicable in cases of Testosterone & Estrogen associated diseases. Patient-specific treatments to be determined by healthcare providers.

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 supplementation
- c. Botanical adaptogen supplementation.

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



## Diagnos-Techs, Inc. Clinical & Research Laboratory PO BOX 389662, Tukwila, WA 98138-0662

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Code	Test Name	Values	Provisional Ranges
<u>STP</u>	Saliva Thyroid Study		
fTSH	Thyroid stimulating hormone	41 Normal	Borderline Low: 20-25 nIU/ml Normal: 26-85 nIU/ml Borderline High: 86-120 nIU/ml
	The Time elapsed between collection optimal number of days for sample s TSH values unless samples were refri phone the lab for questions.	n and receipt of specimen exceeded the stability which may lead to under estimate of gerated/ frozen in the interim. Physicians	
fT4	L-Thyroxine The Time elapsed between collection optimal number of days for sample s values unless samples were refrigera the lab for questions.	0.16 Low n and receipt of specimen exceeded the stability which may lead to under estimate of T4 ted/ frozen in the interim. Physicians phone	Normal: 0.17-0.42 ng/dl
fT3	Triiodo-thyronine	0.35 Normal	Borderline Low: 0.21-0.27 pg/ml Normal: 0.28-1.10 pg/ml
TPO	Thyroid Microsomal Ab, SIgA The Time elapsed between collection optimal number of days for sample s TPO values unless samples were refr phone the lab for questions.	Negative n and receipt of specimen exceeded the stability which may lead to under estimate of igerated/ frozen in the interim. Physicians	Normal: Negative

Test	Description	Resul	t	Ref Values
P17-OH	17-OH Progesterone	69	Normal	Adults Optimal: 22-100 pg/ml Borderline: 101-130 pg/ml Elevated: >130 pg/ml
	Figure 5. Adrenal Steroid Syn	thesis Pa	thway	$\begin{array}{c} \mbox{Mineral Corticoid}\\ \mbox{Pathway} \end{array} \qquad \mbox{Glucocorticoid}\\ \mbox{Pathway} \end{array} \qquad \mbox{Androgen}\\ \mbox{Pathway} \end{array} \qquad \mbox{Androgen}\\ \mbox{Pathway} \end{array} \qquad \mbox{Androgen}\\ \mbox{Presenve} \end{array} \qquad \mbox{Androgen}\\ \mbox{Pregnenolone} \qquad \mbox{Androgen}\\ \mbox{Pregnenolone} \qquad \mbox{Androgen}\\ \mbox{Pregnenolone} \qquad \mbox{Androgen}\\ \mbox{Pregnenolone} \qquad \mbox{Androgen}\\ \mbox{Androgen}\\ \mbox{Androsenverse}\\ \mb$
				Corticosterone Cortisol Figure 5.
				→ The preferential pathway under stress shunts pregnenolone into cortisol at the expense of DHEA.
				Aldosterone

MR2S	Total Salivary SlgA	11	Depressed
IVIDZO	TOLAT SATIVALY SIGA	11	Depresseu

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

1- Excessive chronic cortisol output causes a reduction in the number of SIgA producing immunocytes. Appropriate restorative treatments have been shown to produce incremental improvements in SIgA.

2- Excessive sympathetic activity causes inhibition of SIgA release from the mucosal immunocytes.

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 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.

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.

3. Production of SIgA is adversely affected by stress which is mediated by increased cortisol and/or catecholamine levels.

FI4	Gliadin Ab, SIgA	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).

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Code	Test Name	Result / Notes	Reference Values/Key
AND	Androstenedione	156	Borderline Low: 100-150 pg/ml Normal: 151-350 pg/ml Borderline High: 351-450 pg/ml
DHT	Dihydrotestosterone	47	Male (40-49 yrs): 52-123 pg/ml
	Previous Age Bracket : 30 - 39 years h Next Age Bracket : 50 - 59 years has v	as values 22 - 72 pg/ml values  51 - 107 pg/ml	
E1	Estrone	13	Normal for Age: 30-58 pg/ml
FI1	Milk (Casein) Ab. SIgA	Negative	Normal: Negative.
FI3	Egg (Albumin) Ab. SIgA	Negative	Normal: Negative.
FSH	Follicle Stimulating Hormone	47	Normal All Ages: <125 ulU/mL
GP6S	Toxoplasma Ab, SIgA (Saliva)	Negative	
LH	Luteinizing Hormone	22	Normal All Ages: 10-25 ulU/mL
P1	Progesterone	27	Male ( adult ): 5-95 pg/ml
TRIC	Trichinella spiralis SIgA	Not detected	Normal Result: Not detected
TTF	Free Testosterone	41	Male (31-40 yrs): 50-80 pg/ml

Diagnosis Code: Not Provided To The Lab.

Please Note: All examples of patient treatment or therapy are for illustrative and/or educational purpose. Use this reportontext of the clinical picture before initiating hormone or other therapies.

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