

Adrenocortex Stress Profile (Saliva)

Patient: **SAMPLE**
PATIENT

Order Number:

Completed: October 16, 2007

Age: 49

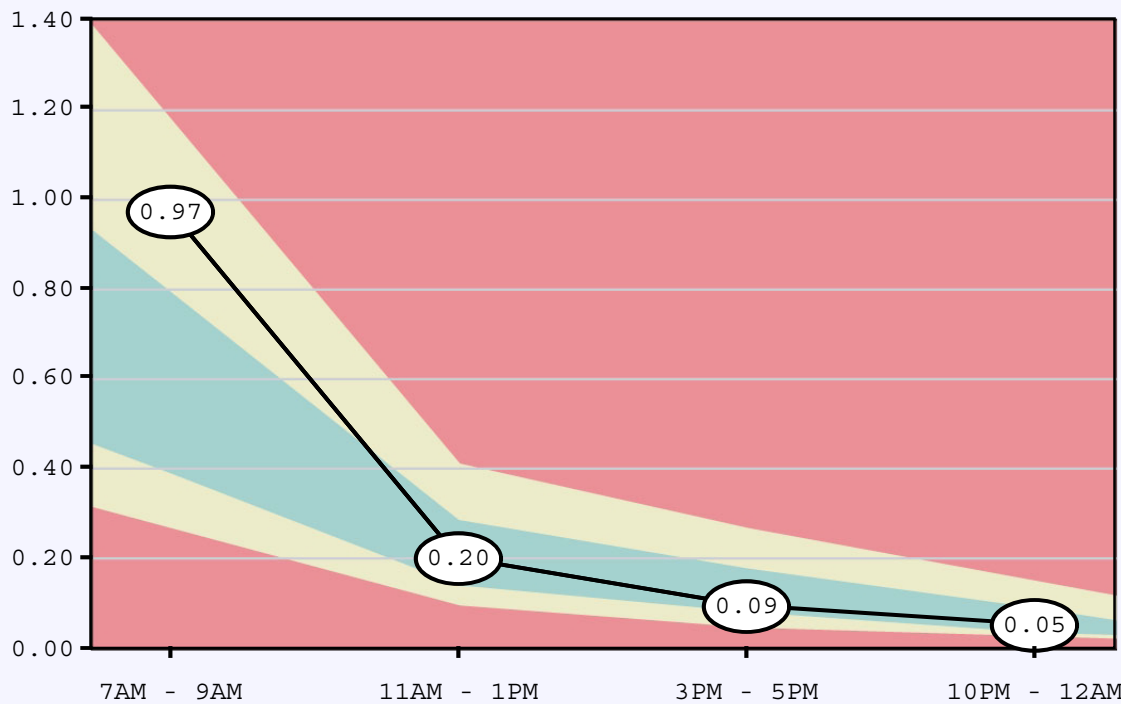
Received: October 12, 2007

Sex: M

Collected: October 09, 2007

MRN:

Salivary Cortisol and DHEA



Cortisol[♦]

Reference Range

1 Hour After Rising
7AM - 9AM:

0.27-1.18 mcg/dL

11AM - 1PM:

0.10-0.41 mcg/dL

3PM - 5PM:

0.05-0.27 mcg/dL

10PM - 12AM:

0.03-0.14 mcg/dL

Hormone	Reference Range	Reference Range
DHEA 7am - 9am	212	71-640 pg/mL
DHEA: Cortisol Ratio/10,000	219	115-1,188

Commentary

Please note that effective October 2007 reference ranges for the following analytes have changed. Cortisol: 1 Hour After Rising from 0.27-2.06 to 0.27-1.18 mcg/dL; 11AM-1PM from 0.03-0.77 to 0.10-0.41 mcg/dL; 3PM-5PM from 0.03-0.56 to 0.05-0.27 mcg/dL; 10PM-12AM from 0.03-0.50 to 0.03-0.14 mcg/dL. DHEA: 1 Hour After Rising from 14-277 to 71-640 pg/mL. DHEA/Cortisol Ratio (X10,000): from 35-435 to 115-1188.

The performance characteristics of all assays have been verified by Genova Diagnostics, Inc. Unless otherwise noted

Commentary

with ♦ as cleared by the U.S. Food and Drug Administration, assays are For Research Use Only.

Commentary is provided to the practitioner for educational purposes, and should not be interpreted as diagnostic or treatment recommendations. Diagnosis and treatment decisions are the responsibility of the practitioner.

For the patient:

This profile measures the levels of cortisol and DHEA and provides an evaluation of how cortisol levels differ throughout the day. Cortisol levels typically peak shortly after rising and are at their lowest after the onset of sleep.

Cortisol is involved in many important functions in your body, including the metabolism and utilization of proteins, carbohydrates and fats, your body's response to physiological or psychological stress, and the control of inflammation and proper blood sugar levels. Cortisol also helps maintain proper blood pressure, normal nerve and brain activity and normal heart and immune function. DHEA also plays a role in the metabolism of protein, carbohydrates and fats, and works with cortisol to help maintain proper blood sugar levels. DHEA helps regulate body weight, blood pressure and immune function, and is used by the body to make the hormones, testosterone and estradiol.

Too much or too little of cortisol or DHEA can lead to illness, and it is important that these two hormones be in balance with each other.

For the physician:

In this profile, the 7-9 AM cortisol level is within the reference range. Because cortisol levels are typically at their peak shortly after awakening, morning cortisol may be a good indicator of peak adrenal gland function. Morning cortisol levels within reference range suggest a component of normal adrenal function with regard to peak circadian activity.

The 11 AM-1 PM cortisol level is within the reference range. Mid-day cortisol levels may be a good indication of adaptive adrenal gland function since they represent the adrenal glands' response to the demands of the first few hours of the day. Mid-day cortisol levels within reference range suggest a component of normal adrenal function in regard to adaptive response.

The 3-5 PM cortisol level is within the reference range. Afternoon cortisol levels may be a good indication of the adrenal glands' ability to help regulate blood sugar, since they represent a postprandial sample. Afternoon levels within the reference range suggest normal adrenal function, especially in the area of glycemic control.

The 10 PM-12 AM cortisol level is within the reference range. Late-night cortisol levels may be a good indication of baseline adrenal gland function since they typically represent the lowest level during the day. Normal late-night cortisol levels suggest normal adrenal function with regard to baseline circadian activity.

DHEA is within the reference range. Proper levels contribute to the ideal metabolism of proteins, carbohydrates and fats, including efficient glycemic control.

The ratio of DHEA to cortisol is normal. This ratio indicates a relative balance of the adrenal output of androgens and cortisol. Both of the hormones are released in response to ACTH from the pituitary and a normal ratio indicates a balanced function of the hypothalamic-pituitary-adrenal axis.

A pattern showing both cortisol and DHEA levels within the reference range suggests normal function of the zona fasciculata and the zona reticularis at this time. This pattern is consistent with a normal response to physiological or psychological stress and a normal relationship between the glucose conservation, gluconeogenic and catabolic activity of cortisol, and the glycolytic and anabolic activity of DHEA.