

Authorizing Physician:

Accession Number: 230255

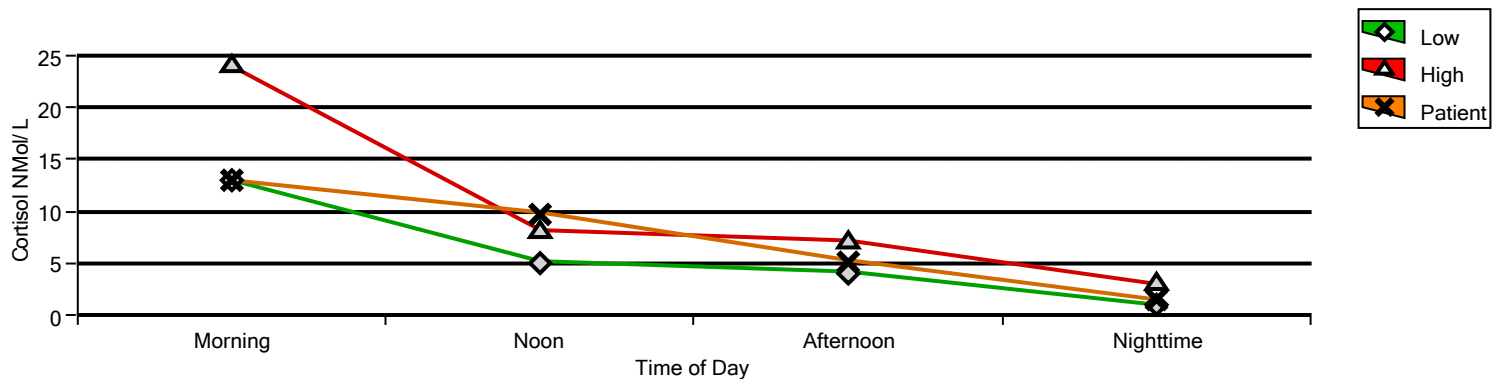
Patient:

Age: 11 Sex: Female
 Date Collected: 11/17/2011
 Date Received: 11/22/2011
 Report Date: 11/30/2011
 DOB: 02/11/2000

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Functional Adrenal Stress Profile - 201

Parameter	Result	Reference Range	Units
Cortisol - Morning (6 - 8 AM)	13.0	13.0 - 24.0	nM/L
Cortisol - Noon (12 - 1 PM)	9.7*	5.0 - 8.0	nM/L
Cortisol - Afternoon (4 - 5 PM)	5.1	4.0 - 7.0	nM/L
Cortisol - Nighttime (10 PM - 12 AM)	1.5	1.0 - 3.0	nM/L
Cortisol Sum	29.3	23.0 - 42.0	nM/L
DHEA-S Average	11.44*	2.00 - 10.00	ng/mL
Cortisol/DHEA-S Ratio	2.6*	5.0 - 6.0	Ratio



This profile is used to evaluate the adrenal glands and hormone balance. In the event of adrenal exhaustion, underlying causes must be determined through additional lab testing and investigation into environmental and lifestyle factors; while also supporting the adrenals with nutritional protocols and lifestyle modifications.

When the body is under chronic stress, pregnenolone, the precursor to all other steroidal hormones, is diverted to produce cortisol (known as pregnenolone steal or cortisol escape). This is to the detriment of all other steroidal hormones (such as DHEA and its metabolites, including progesterone, testosterone, and the estrogens). As pregnenolone is diverted to cortisol, DHEA depletion begins. The result is an elevated cortisol to DHEA ratio. A normal ratio is approximately 5:1 to 6:1.