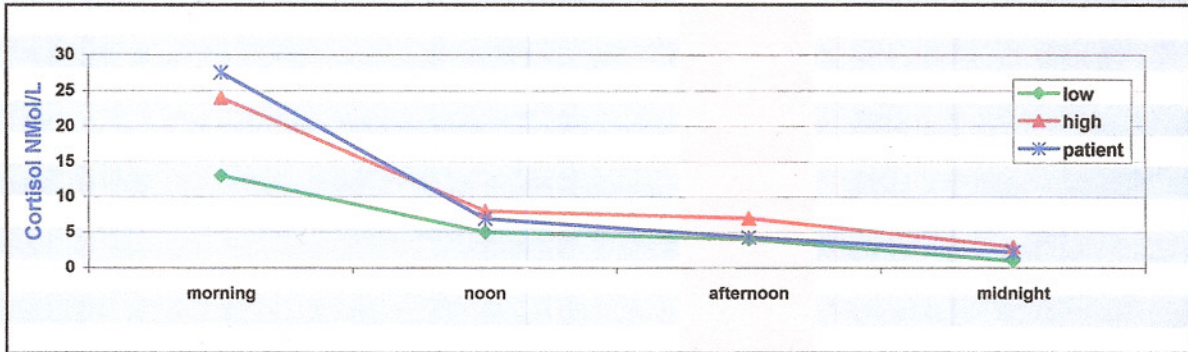


DATE COLLECTED: 02/26/08
DATE RECEIVED: 02/29/08
BHD (201)

TIME COLLECTED: 11:44
DATE REPORTED: 03/04/08

* ** FUNCTIONAL ADRENAL STRESS PROFILE ** *

	NORMAL	ABNORMAL	UNITS	NORMAL RANGE
CORTISOL				
MORNING (6:00-8:00 AM)		27.5	nM	13.0 - 24.0
NOON (12:00-1:00 PM)	6.9		nM	5.0 - 8.0
AFTERNOON (4:00-5:00 PM)	4.3		nM	4.0 - 7.0
NIGHTTIME (10:00 PM-12:00 AM)	2.2		nM	1.0 - 3.0
CORTISOL SUM	40.9		nM	23.0 - 42.0
DHEA-S AVERAGE	4.74		ng/ml	2.00 - 10.00
TOTAL CORTISOL / DHEA-S RATIO		8.6	RATIO	5.0 - 6.0



	morning	noon	afternoon	midnight
low	13	5	4	1
high	24	8	7	3
patient	27.5	6.9	4.3	2.2

The body's preferential pathway under chronic stress is called Pregnenolone Steal or Cortisol Escape. When the body is in a Chronic Stress Response pregnenolone, the precursor to all the rest of the steroidal hormones, is diverted to cortisol - cortisone. This is to the detriment of all the other steroidal hormones; i.e. progesterone, aldosterone (mineral/cortical pathway/sodium-potassium pump), DHEA and its metabolites; the sex hormones, estrogens, and testosterone. As pregnenolone is diverted to cortisol - cortisone, DHEA depletion begins. The result is an elevated Cortisol to DHEA ratio. A normal ratio is approximately 5:1 to 6:1. The ratio is obtained by dividing the cortisol sum by the DHEA-S average.