



Order: SAMPLE REPORT

Client #: 12345 Doctor: Sample Doctor Doctor's Data, Inc. 3755 Illinois Ave. St. Charles, IL 60174

Patient: Sample Patient Age: 10 Sex: Male

Sample Collection	Date/Time
Date Collected	03/24/2022
AM30	03/24/2022 08:00
Noon	03/24/2022 12:00
Evening	03/24/2022 17:30
Night	03/24/2022 21:10
Date Received	03/25/2022
Date Reported	03/26/2022

Analyte	Result	Unit	L	WRI	н	Optimal Range	Reference Interval
Cortisol Waking	7.0	nmol/L		\diamond		12–17	6.0-20
Cortisol AM30	9.0	nmol/L				14.0-25.0	7.0-30.0
Cortisol AM60	4.0	nmol/L	↓			10.0-18.0	4.9-22.0
CAR Rise (Calculated)	28.57	%	↓				35-60
CAR Decline (Calculated)	-42.86	%	↓				-33-0
Cortisol Noon	5.0	nmol/L		\diamond		5.0-10.0	2.1 – 14.0
Cortisol Evening	2.0	nmol/L		\diamond		2.0-5.0	1.5-8.0
Cortisol Night	0.40	nmol/L		\diamond		1.0-4.0	0.33-7.0



Hormone Comments

- The suboptimal diurnal cortisol pattern is consistent with evolving (Phase 2) HPA axis (adrenal gland) dysfunction.
- Cortisol Awakening Response (CAR) is the expected maximum rise in cortisol levels observed at 30 minutes (AM30) post awakening (approximately 35-60% above the waking value). This is followed by an expected decline sixty minutes after waking. The behavior of cortisol is a critical marker to understand the HPA axis' physiologic responsiveness and is a key indicator of HPA axis adaptability and reactivity.
- This patient's CAR Rise (the percent change from waking to AM30) does not demonstrate the expected degree of increase
- This patient's CAR Decline (the percent change from waking to AM60) dropped lower than expected.

Notes:

The current samples are routinely held three weeks from receipt for additional testing. *RI= Reference Interval, L (blue)= Low (below RI), WRI (green)= Within RI (optimal), WRI (yellow)= Within RI (not optimal), H (red)= High (above RI)* Methodology: Enzyme Immunoassay