

CORTISOL, FREE, URINE

#500012

NOTE: The testing and reporting is equivalent to Rochester test Cortisol, Free, Urine (8546)

USEFUL FOR:

- Preferred screening test for Cushing's syndrome
- Diagnosis of pseudo-hyperaldosteronism due to excessive licorice consumption

METHODOLOGY: Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)

REFERENCE VALUES:

0-2 years: not established

3-8 years: 1.4-20 ug/24 hours

9-12 years: 2.6-37 ug/24 hours

13-17 years: 4.0-56 ug/24 hours

>= 18 years: 3.5-45 ug/24 hours

SPECIMEN REQUIREMENTS: 5 mL from a 24-hour urine collection. Add 10 g of boric acid as a preservative at the start of collection. See "Urine Preservatives" in Special Instructions for multiple collections. Send specimen refrigerated in a plastic, 13-mL urine tube.

NOTE: 24-Hour volume is required on request form for processing.

CAUTIONS:

- This test has limited usefulness in the evaluation of adrenal insufficiency.
- Acute stress (including hospitalization and surgery), alcoholism, depression, and many drugs (eg, exogenous cortisone, anticonvulsants) can obliterate normal diurnal variation, affect response to suppression/stimulation tests, and increase baseline levels.
- This methodology (liquid chromatography-tandem mass spectrometry [LC-MS/MS]) eliminates analytical interferences including carbamazepine (Tegretol) and synthetic corticosteroids.
- Renal disease (decreased excretion) may cause falsely low 24-hour urinary free cortisol values.
- Improper collection may alter results. For example, a missed morning collection may result in false-negative tests; an extra morning collection (ie, >24 hours) may give false-positive results.
- Twenty-four hour urinary free cortisol values may be elevated to twice the upper limit of the normal range during pregnancy.
- Patients with exogenous Cushing's syndrome caused by ingestion of hydrocortisone will not have suppressed cortisol values.

LIST FEE: \$ 173.80

CPT CODE: 82530

ANALYTIC TIME: 2 days

DAY(S) SET UP: Mon – Friday, Varies

QUESTIONS: Contact your Mayo Medical Laboratories' Regional Manager
Mary Erath, Mayo Medical Laboratories' Technologist Support
Telephone: 800-533-1710



TEST DEFINITION

7/28/2009

MML NAME/ORDER CODE CROSS-REFERENCE
CODE NAME

500012 CORTISOL, FREE, U

MML MML TEST SETUP INFORMATION

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PRINT NORMALS (# CODED)	PERFORM SITE *
500012	7/22/2009		CORTISOL, FREE, U			NEL
			TRANSPORT TEMP : REFRIG\FROZEN OK\AMBIENT WITH PRESERVATIVE OK			
			500029 COLLECTION DURATION			
			EXPECT RESULTS OF FORM : SHOULD BE 1-2 DIGITS			
			POSSIBLE RESULT VALUES INCLUDE : 24,RANDOM,RANDOM			
			UNITS: H			

			500031 URINE VOLUME			
			EXPECT RESULTS OF FORM : SHOULD BE A 1, 2, 3, 4, OR 5 DIGIT WHOLE NUMBER			
			POSSIBLE RESULT VALUES INCLUDE : DNR			
			UNITS: mL			

			500012 CORTISOL, U			
			UNITS: UG/24 H			
			NO SEX			
			No AGE	:		; #N500012
			1D TO 2Y	:		; NOT ESTABLISHED
			3Y TO 8Y	:	1.4-20	; 1.4-20
			9Y TO 12Y	:	2.6-37	; 2.6-37
			13Y TO 17Y	:	4.0-56	; 4.0-56
			18Y TO 150Y	:	3.5-45	; 3.5-45
			MALE			
			No AGE	:		; #N500012
			1D TO 2Y	:		; NOT ESTABLISHED
			3Y TO 8Y	:	1.4-20	; 1.4-20
			9Y TO 12Y	:	2.6-37	; 2.6-37
			13Y TO 17Y	:	4.0-56	; 4.0-56

MML MML TEST SETUP INFORMATION

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PERFORM PRINT NORMALS (# CODED)	SITE *
500012	(CONTINUED)					
		500012	CORTISOL, U (CONTINUED)			
			18Y TO 150Y	: 3.5-45		; 3.5-45
			FEMALE			
			No AGE	:		; #N500012
			1D TO 2Y	:		; NOT ESTABLISHED
			3Y TO 8Y	: 1.4-20		; 1.4-20
			9Y TO 12Y	: 2.6-37		; 2.6-37
			13Y TO 17Y	: 4.0-56		; 4.0-56
			18Y TO 150Y	: 3.5-45		; 3.5-45

*PERFORMING SITE LEGEND

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 NEL MAYO MEDICAL LABORATORIES NEW ENGLAND LAB DIRECTOR: LYNN A. CHERYK, PH.D.
 160 DASCOMB ROAD
 ANDOVER, MA 01810
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MML MESSAGES USED AS NORMALS

CODE	TEXT
N500012	NOT ESTABLISHED (<=2 Y)
	1.4-20 (3-8 Y)
	2.6-37 (9-12 Y)
	4.0-56 (13-17 Y)
	3.5-45 (>=18 Y)

TOTAL OF 1 NORMALS CODES

*** END OF REPORT ***



LABORATORY SERVICE REPORT

1-800-533-1710

PATIENT NAME TEST, U1		PATIENT NUMBER		AGE 1	SEX	ACCESSION # G9131909
ORDERING PHYSICIAN		CLIENT ORDER #				ACCOUNT # LIAISONS
COLLECTION 07/16/09	RECEIVED 07/16/09 09:27 A	REPORT PRINTED 07/28/09 09:24 A		SPECIMEN INFORMATION DATE OF BIRTH:		
DATE	TIME	DATE	TIME			
Test Client Attn: Mayo Liaisons 200 First Street SW Rochester, MN 55905 507-284-8202						

TEST REQUESTED	HI LO	REF RANGE	PERFORM SITE *
Cortisol, Free, U			
Collection Duration	24	h	NEL
Urine Volume	1000	mL	NEL
Cortisol, U	20	ug/24 h	NEL
		Not established	

* PERFORMING SITE

NEL	Mayo Medical Laboratories New England 160 Dascomb Road Andover, MA 01810	Lab Director: Lynn A. Cheryk, Ph.D.
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PATIENT NAME TEST, U1	ORDER STATUS Final	COLLECTION DATE AND TIME 07/16/09
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Specimen receipt and report times are in CST/CDT

REPRINT

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