

CORTISOL, FREE, RANDOM, URINE
#500003

NOTE: The testing and reporting is equivalent to Rochester test Cortisol, Free, Random, Urine (82920)

USEFUL FOR: Determination of cortisol concentration in random urine specimens may be used to investigate suspected hypercortisolism when a 24-hour collection is prohibitive (ie, pediatric).

METHODOLOGY: Creatinine: Enzymatic Colorimetric Assay
Cortisol: Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)

REFERENCE VALUES:

Males

0-2 years: 3.0-120 ug/g creatinine
3-8 years: 2.2-89 ug/g creatinine
9-12 years: 1.4-56 ug/g creatinine
13-17 years: 1.0-42 ug/g creatinine
> or =18 years: 1.0-119 ug/g creatinine

Females

0-2 years: 3.0-120 ug/g creatinine
3-8 years: 2.2-89 ug/g creatinine
9-12 years: 1.4-56 ug/g creatinine
13-17 years: 1.0-42 ug/g creatinine
> or =18 years: 0.7-85 ug/g creatinine

SPECIMEN REQUIREMENTS: 5 mL from a random urine collection. Send specimen refrigerate in a plastic, 13-mL urine tube.

CAUTIONS:

- This test has limited usefulness in the evaluation of adrenal insufficiency.
- Random urine cortisol results are less reliable than results obtained from properly collected and complete 24-hour urine specimens, which are not affected by diurnal variations in cortisol levels.
- 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.
- LC-MS/MS methodology eliminates analytical interferences including carbamazepine (Tegretol) and synthetic corticosteroids.
- Random urine specimens may yield falsely elevated values when patients have a high urinary output.
- Renal disease (decreased clearance) may cause falsely low values.
- Values may be elevated to twice normal in 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

500003 CORTISOL, FREE, RANDOM, U

MML MML TEST SETUP INFORMATION

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PRINT NORMALS (# CODED)	PERFORM SITE *
500003 (PROFILE)			CORTISOL, FREE, RANDOM, U			
500014	5/13/2009		CREATININE, RANDOM, U			NEL
			TRANSPORT TEMP : FROZEN\REFRIG OK\AMBIENT LOCALS OK			
			500017 CREATININE CONC			
			EXPECT RESULTS OF FORM : SHOULD BE A 1, 2, 3, OR 4 DIGIT WHOLE NUMBER			
			UNITS: MG/DL			
500015	7/22/2009		CORTISOL, RANDOM, U			NEL
			TRANSPORT TEMP : FROZEN\REFRIG OK\AMBIENT OK WITH PRESERVATIVE			
			500024 CORTISOL/CREATININE RATIO			
			UNITS: UG/G CR			
			NO SEX			
			No AGE :			; #N500024N
			1D TO 2Y :	3.0-120		; 3.0-120
			3Y TO 8Y :	2.2-89		; 2.2-89
			9Y TO 12Y :	1.4-56		; 1.4-56
			13Y TO 17Y :	1.0-42		; 1.0-42
			18Y TO 150Y :			; #N500024
			MALE			
			No AGE :			; #N500024M
			1D TO 2Y :	3.0-120		; 3.0-120
			3Y TO 8Y :	2.2-89		; 2.2-89
			9Y TO 12Y :	1.4-56		; 1.4-56
			13Y TO 17Y :	1.0-42		; 1.0-42
			18Y TO 150Y :	1.0-119		; 1.0-119
			FEMALE			
			No AGE :			; #N500024F

MML TEST SETUP INFORMATION

ORDER CODE	EFF DATE	TC	TITLE	CHECKING NORMALS	PERFORM PRINT NORMALS (# CODED)	SITE *
500003	(CONTINUED)					
		500024	CORTISOL/CREATININE RATIO (CONTINUED)			
			1D TO 2Y	: 3.0-120	; 3.0-120	
			3Y TO 8Y	: 2.2-89	; 2.2-89	
			9Y TO 12Y	: 1.4-56	; 1.4-56	
			13Y TO 17Y	: 1.0-42	; 1.0-42	
			18Y TO 150Y	: 0.7-85	; 0.7-85	
		500027	CORTISOL, U			
			UNITS: UG/H			
			NO SEX			
			ALL AGES :		; NOT ESTABLISHED	
			MALE			
			ALL AGES :		; NOT ESTABLISHED	
			FEMALE			
			ALL AGES :		; NOT ESTABLISHED	
		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			

*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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MESSAGES USED AS NORMALS

MML CODE	TEXT
N500024	1.0-119 (MALES) 0.7-85 (FEMALES)
N500024F	3.0-120 (<2 Y) 2.2-89 (3-8 Y) 1.4-56 (9-12 Y) 1.0-42 (13-17 Y) 0.7-85 (>=18 Y)

N500024M 3.0-120 (<2 Y)
2.2-89 (3-8 Y)
1.4-56 (9-12 Y)
1.0-42 (13-17 Y)
1.0-119 (>=18 Y)

N500024N MALES:
3.0-120 (<2 Y)
2.2-89 (3-8 Y)
1.4-56 (9-12 Y)
1.0-42 (13-17 Y)
1.0-119 (>=18 Y)

FEMALES:
3.0-120 (<2 Y)
2.2-89 (3-8 Y)
1.4-56 (9-12 Y)
1.0-42 (13-17 Y)
0.7-85 (>=18 Y)

TOTAL OF 4 NORMALS CODES

*** END OF REPORT ***



LABORATORY SERVICE REPORT

1-800-533-1710

PATIENT NAME NECORTEST, 0-2		PATIENT NUMBER		AGE 1M	SEX M	ACCESSION # G9131899
ORDERING PHYSICIAN		CLIENT ORDER #			ACCOUNT # LIAISONS	
COLLECTION 07/16/09 09:05 A	RECEIVED	REPORT PRINTED 07/28/09 09:22 A		SPECIMEN INFORMATION DATE OF BIRTH:		
DATE TIME	DATE TIME	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, Random, U				
Creatinine Conc	100	mg/dL		NEL
Cortisol/Creatinine Ratio	60	ug/g Cr	3.0-120	NEL
Cortisol, U	0.60	ug/h	Not established	NEL
Collection Duration	12	h		NEL
Urine Volume	120	mL		NEL

* 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 NECORTEST, 0-2	ORDER STATUS Final	COLLECTION DATE AND TIME 07/16/09 09:05 A
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Specimen receipt and report times are in CST/CDT

REPRINT

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