

**TEST CHANGE**

**Cortisol/Cortisone Urine Free by LC-MS/MS**

0092100, CORTURATIO

**Specimen Requirements:**

**Patient Preparation:**

**Collect:** 24-hour or random urine. Refrigerate 24-hour specimen during collection.

**Specimen Preparation:** Transport one 4 mL aliquot of urine. (Min: 1 mL) Record total volume and collection time interval on transport tube and test request form.

**Transport Temperature:** Refrigerated.

**Unacceptable Conditions:** Room temperature specimens. Acidified specimens or specimens with preservatives.

**Remarks:**

**Stability:** Ambient: Unacceptable; Refrigerated: 1 week; Frozen: 1 month

**Methodology:** Quantitative [High-Performance-Liquid Chromatography-Tandem Mass Spectrometry](#)

**Performed:** Sun-Sat

**Reported:** 1-~~5~~4 days

**Note:** Reference intervals for children are based on literature from Taylor R.L. et al., Validation of a High-Throughput Liquid Chromatography-Tandem Mass Spectrometry Method for Urine Cortisol and Cortisone. Clinical Chemistry 2002; 48:1511-19.  
\*The ratio of the concentrations of cortisol to cortisone will not be evaluated if the cortisol concentration is less than 5 microg/L.

**CPT Codes:** 82530; 83789

**New York DOH Approval Status:** This test is New York DOH approved.

**Interpretive Data:**

Per 24h calculations are provided to aid interpretation for collections with a duration of 24 hours and an average daily urine volume. For specimens with notable deviations in collection time or volume, ratios of analytes to a corresponding urine creatinine concentration may assist in result interpretation.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Reference Interval:

Test Number	Components	Reference Interval		
	Creatinine, Urine - per 24h			
		Age	Male (mg/d)	Female (mg/d)
		3-8 years	140-700	140-700
		9-12 years	300-1300	300-1300
		13-17 years	500-2300	400-1600
		18-50 years	1000-2500	700-1600
		51-80 years	800-2100	500-1400
		81 years and older	600-2000	400-1300
	Cortisol/Cortisone Ratio	18 years and older: 0.15-0.50		
	Cortisol, Urine Free - ratio to CRT			
		Age	Male (ug/g CRT)	Female (ug/g CRT)
		Prepubertal	Less than 25	Less than 25
		18 years and older	Less than 32	Less than 24
		Pregnancy	Not Applicable	Less than 59
	Cortisol, Urine Free - per 24h			
		Age	Male (ug/24 h)	Female (ug/24 h)
		3-8 years	Less than or equal to 18	Less than or equal to 18
		9-12 years	Less than or equal to 37	Less than or equal to 37
		13-17 years	Less than or equal to 56	Less than or equal to 56
		18 years and older	Less than or equal to 60	Less than or equal to 45