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**Lab Dept:** Urine/Stool

**Test Name:** CORTISOL, FREE, TIMED URINE

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***General Information***

**Lab Order Codes:** UCOT

**Synonyms:** Quantitative Urine Free Cortisol

**CPT Codes:** 82530 – Cortisol; free  
82570 – Creatinine, other source

**Test Includes:** 24 hr urine volume, Free cortisol urine in ug/24 hr, Free cortisol urine in ug/dL, Free cortisol/creatinine ratio, 24 hr creatinine in mg/24 hr and creatinine urine in mg/dL

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***Logistics***

**Test Indications:** N/A

**Lab Testing Sections:** Urine/Stool - Sendouts

**Referred to:** Esoterix, Inc

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 4 - 6 days, test set up Monday and Thursday. Assay time is 3 days.

**Special Instructions:** Submit an entire 24-hour urine collection. No preservative. Refrigerate specimen during and after collection.

Note: Starting and ending times of collection are required for a timed urine collection and must be documented electronically or on the proper request form.

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***Specimen***

**Specimen Type:** Urine, timed collection

**Container:** Plastic leakproof container (No preservative). Urine GUARD® collection container is preferred for a timed urine sample.

**Draw Volume:** Submit an entire 24-hour urine collection

**Processed Volume:** 50 mL (Minimum: 5 mL) urine

**Collection:** For timed urine collections, empty the bladder, discard the voided sample, and note the start time. Collect all urine voided for the specified time period. At the end of the period, note the finishing time, add the last voided sample to the container by emptying the bladder. Bring the refrigerated container to the lab. Make sure all specimens submitted to the laboratory are properly labeled with the patient's name, medical record number and date of birth.

**Special Processing:** Lab Staff: Add boric acid (0.5 g/100 mL) as preservative to finished collection. Mix sample well. Record 24 hour volume. Remove a 50 mL aliquot (Minimum: 5 mL) urine. Store and ship urine aliquot frozen.

**Patient Preparation:** None

**Sample Rejection:** Mislabeled or unlabeled specimens

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***Interpretive***

Reference Range:

<b>Free Cortisol, Urine ug/24 hours</b>	
Prepubertal	3 - 9
Adult Males	11 - 84
Adult Females	10 - 34
Pregnancy	16 - 80
<b>Free Cortisol, Urine ug/dL</b>	
No reference ranges available	
<b>Free Cortisol/Creatinine Ratio</b>	
Prepubertal	7 - 25
Adult Males	7 - 45
Adult Females	9 - 32
Pregnancy	14 - 59
<b>24 hr Urine Creatinine mg/24 hr</b>	

Males	800 - 2000
Females	600 - 1800
<b>Creatinine Urine mg/dL</b>	
No reference ranges provided by reference lab	

**Critical Values:**

N/A

**Limitations:**

N/A

**Methodology:**

Radioimmunoassay (RIA) after Chromatography

**References:**

[Esoterix, Inc](#) February 2015