MAYO CLINIC
Mayo Medical Laboratories

# Test Definition: COCRU

Cortisol/Cortisone, Free, Random, Urine

**Reporting Title:** Cortisol/Cortisone, Free, Random, U
**Performing Location:** Rochester

## Specimen Requirements:

Container/Tube: Plastic, 10 mL urine tube (Supply T068)
Specimen Volume: 5 mL
Collection Instructions: Collect a random urine specimen.

| Specimen Type | Temperature | Time |
|---|---|---|
| Urine | Frozen (preferred) | 14 days |
| | Refrigerated | 14 days |
| | Ambient | 72 hours |

## Result Codes:

| Result ID | Reporting Name | Type | Unit | LOINC® |
|---|---|---|---|---|
| RCTU | Creatinine Conc | Numeric | mg/dL | 2161-8 |
| 10328 | Cortisol/Creatinine Ratio | Numeric | mcg/g Cr | 11155-9 |
| 10329 | Cortisone/Creatinine Ratio | Numeric | mcg/g Cr | 30511-0 |

## Components:

| Test ID | Reporting Name | CPT Units | CPT Code | Always Performed | Orderable Separately |
|---|---|---|---|---|---|
| Billing only | Cortisol free | 1 | 82530 | | |
| Billing only | Quantitative, each speci | 1 | 83789 | | |
| RCTU | Creatinine Conc | | | Yes | No |
| COCOR | Cortisol, Random, U | | Profile | Yes | No |

## Reference Values:

CORTISOL
Males
0-2 years: 3.0-120 mcg/g creatinine
3-8 years: 2.2-89 mcg/g creatinine
9-12 years: 1.4-56 mcg/g creatinine
13-17 years: 1.0-42 mcg/g creatinine
> or =18 years: 1.0-119 mcg/g creatinine
Females
0-2 years: 3.0-120 mcg/g creatinine
3-8 years: 2.2-89 mcg/g creatinine
9-12 years: 1.4-56 mcg/g creatinine
13-17 years: 1.0-42 mcg/g creatinine
> or =18 years: 0.7-85 mcg/g creatinine

CORTISONE
0-2 years: 25-477 mcg/g creatinine
3-8 years: 11-211 mcg/g creatinine
9-12 years: 5.8-109 mcg/g creatinine
13-17 years: 5.4-102 mcg/g creatinine
18-29 years: 5.7-153 mcg/g creatinine
30-39 years: 6.6-176 mcg/g creatinine
40-49 years: 7.6-203 mcg/g creatinine
50-59 years: 8.8-234 mcg/g creatinine
60-69 years: 10-270 mcg/g creatinine
> or =70 years: 12-311 mcg/g creatinine

Use the conversion factors below to convert each analyte from mcg/g creatinine to nmol/mol creatinine:

Conversion factors
Cortisol: mcg/g creatinine x 413=nmol/mol creatinine
Cortisone: mcg/g creatinine x 415=nmol/mol creatinine

Cortisol molecular weight=362.5
Cortisone molecular weight=360.4
Creatinine molecular weight=149.59