



# Laboratory Service Manual

**Lab Dept:** Urine/Stool

**Test Name:** **CALCIUM/CREATININE RATIO, RANDOM URINE**

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## ***General Information***

**Lab Order Codes:** CCRA

**Synonyms:** Ca/Creat ratio, Random Urine

**CPT Codes:** 82340 – Calcium; urine quantitative, timed  
82570 – Creatinine, other source

**Test Includes:** Urine calcium in mg/dL, Urine creatinine in mg/dL, Calcium/creatinine ratio

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## ***Logistics***

**Test Indications:** The amount of calcium excreted into the urine is a measure of renal function, intestinal absorption, skeletal resorption, renal filtration and dietary intake.

**Lab Testing Sections:** Chemistry

### **Phone Numbers:**

Minneapolis: 612-813-6280

Saint Paul: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 1 day

**Special Instructions:** 1.0 mL minimum from a random urine collection. Refrigerate specimen during and after collection.

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## ***Specimen***

**Specimen Type:** Urine, random collection

**Container:** Plastic leakproof container (No preservative)

**Draw Volume:** 2-4 mL from a random urine collection

**Processed Volume:** Minimum: 1.0 mL urine



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<b>Collection:</b>	A random urine sample may be obtained by voiding into a urine cup and is often performed at the laboratory. Make sure all specimens submitted to the laboratory are properly labeled with the patient's name, medical record number and date of birth.
<b>Special Processing:</b>	Lab Staff: Acidify calcium aliquot before analysis to a pH of 1 - 2 with 6N HCL.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Unlabeled or mislabeled specimens

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## ***Interpretive***

**Reference Range:** There are no reference values established for random specimens.

**Critical Values:** N/A

**Limitations:** N/A

**Methodology:** O-Cresolphthalein Complexone/Colorimetric; Alkaline Picrate/Kinetic

**Contraindications:** N/A

**References:** Tietz (1999) Clinical Guide to Laboratory Tests, 3<sup>rd</sup> ed, Philadelphia, WB Saunders Company, pp 1404-1405

Dimension Calcium Flex Insert, P/N 717123.002 Rev I 6/00

Dimension Creatinine Flex Insert, P/N 717033.002 Rev G 10/99