
Lab Dept: Urine/Stool

Test Name: CALCIUM/CREATININE RATIO, RANDOM URINE

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

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: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 1 day

Special Instructions: [See Collection](#)

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 mL urine

Collection: 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.

Refrigerate specimen during and after collection.

Special Processing: Lab Staff: Centrifuge all specimens prior to analysis.

Patient Preparation: None

Sample Rejection: Unlabeled or mislabeled specimens

Interpretive

Reference Range: <16 years: <0.20
Adult: <0.11

Critical Values: N/A

Limitations: N/A

Methodology: Arsenazo III and Kinetic Alkaline Picrate

References: Alinity Calcium Pkg insert, Abbott Laboratories Diagnostics Division, Abbott Park, IL 60064, February 2018

CALIPER pediatric reference range database (2019) Retrieved October 3, 2019. <https://caliper.research.sickkids.ca/#/>

Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc, Hudson, OH, 5th Edition

Biorad Multiqual Assayed Chemistry Control Product Insert, Bio-Rad Laboratories, Irvine, CA 92618

Biorad Liquichek Unassayed Chemistry Control Product Insert, Bio-Rad Laboratories, Irvine, CA 92618

Biorad Liquichek Unassayed Chemistry Control (Human) product insert, Irvine, CA 92618

Clinical Significance, Dade Behring Inc., Glasgow Business Community, Mailbox 531, P.O. Box 6101, Newark, Delaware 19714

Pediatric Reference Intervals (2007) Sixth Edition, AACC Press, Washington DC

Alinity c Clinical Chemistry Calibrator Pkg Insert, Abbott Laboratories Diagnostics Division, Abbott Park, IL 60064, December 2018

Updates:

9/17/2014: Updated references.

9/27/2017: Updated lab processing.

11/9/2020: Retired method VISTA, updated for Alinity