
Lab Dept: Urine/Stool

Test Name: PROTEIN/CREATININE RATIO, RANDOM URINE

General Information

Lab Order Codes: UPCR

Synonyms: Protein Creatinine Ratio, Random Urine

CPT Codes: 84155 – Protein; total, except refractometry
82570 – Creatinine; other source

Test Includes: Urine protein concentration in mg/dL, Urine Creatinine concentration in mg/dL, Protein/ Creatinine Ratio in mg/mg

Logistics

Test Indications: The kidney glomeruli behave as ultrafilters for plasma proteins. Urine total protein can be used to test the effects of treatment in diabetes, nephrotic syndrome and in disease processes where proteinuria is possible. Quantifying proteinuria accurately and precisely is vital in monitoring disease activity in patients

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: N/A

Specimen

Specimen Type: Urine, random collection, early morning collection preferred

Container: Plastic leakproof container (No preservatives)

Draw Volume: 1 - 3 mL from a random urine collection

Processed Volume: Minimum: 0.5 mL urine

Collection: A random urine sample may be obtained by voiding into a urine cup and

is often performed at the laboratory. 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: Aliquot a minimum of 0.5 mL urine. Store at refrigerated temperatures.

Patient Preparation: None

Sample Rejection: Unlabeled or mislabeled specimens

Interpretive

Reference Range: <0.2 mg/mg

Critical Values: N/A

Limitations: N/A

Methodology: Pyrogallol Red-Molybdate; Enzymatic creatinine reaction

References: Siemens Dimension Vista® UCFP Flex® reagent cartridge Instructions for Use, Siemens Healthcare Diagnostics, PN 781026.001 – US Rev G Issue Date 2014-07-14

Siemens Dimension Vista® UCFP Calibrator Instructions for Use, Siemens Healthcare Diagnostics, PN 761260.001 – US, Rev D, 10/2012

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

Biorad Liquichek Spinal Fluid Control Product insert, Bio-Rad Laboratories

Biorad Liquichek Urine Chemistry Control Product insert, Bio-Rad Laboratories, Irvine, CA 92618

EZCR Flex® reagent cartridge insert sheet PN 717270.003 Issue Date 2011-03-07 Rev. C

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

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

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

Updates:

9/16/2014: Updated references.