



This notice reflects an updated effective date of July 2nd, 2024, replacing a previously communicated effective date of June 20th, 2024.

Titanium/Creatinine Ratio, Random, Urine

Test ID: TIUCR

Useful for:

Monitoring exposure and elimination of titanium

Profile Information:

Test ID	Reporting Name	Available Separately	Always Performed
TICU	Titanium/Creat Ratio, U	No	Yes
CRTFR	Creatinine, Random, U	No	Yes

Methods:

TICU: Triple-Quadrupole Inductively Coupled Plasma-Mass Spectrometry (ICP-MS/MS)

CRTFR: Enzymatic Colorimetric Assay

Reference Values:

TITANIUM

0-17 years: Not established

> or =18 years: <0.4 mcg/g creatinine

CREATININE

> or =18 years old: 16-326 mg/dL

Reference values have not been established for patients who are less than 18 years of age.

Specimen Requirements:

Container/Tube: Urine Tubes, 10 mL

Preferred: Urine Tubes, 10 mL (T068)

Acceptable: Plastic, 10-mL urine tube or a clean, plastic aliquot container with no metal cap or glued insert

Specimen Volume: 7 mL

Collection Instructions: 1. Collect a random urine specimen.
2. See Metals Analysis Specimen Collection and Transport for complete instructions.

Minimum Volume: 2 mL

Specimen Stability Information:

Specimen Type	Temperature	Time
Urine	Frozen	28 days

Cautions:

Titanium is a trace metal commonly used in alloys and readily present in the environment. Thus, contamination of the collection site and of the specimen must be avoided. Failure to use metal-free collection procedures and devices may cause falsely increased results. See Specimen Required for collection and processing information.

CPT Code:

82570

83018

Day(s) Performed: Wednesday

Report Available: 1-7 days

Questions

Contact Rebekah Walsh, Laboratory Resource Coordinator at 800-533-1710.