

Magnesium/Creatinine Ratio, Random, Urine

Test ID: MAGRU

Useful for:

Assessing the cause of abnormal serum magnesium concentrations

Determining whether nutritional magnesium loads are adequate

Calculating urinary calcium oxalate and calcium phosphate supersaturation and assessing kidney stone risk

Profile Information:

Test ID	Reporting Name	Available Separately	Always Performed
MCTR1	Magnesium/Creat Ratio, Random, U	No	Yes
MGCO	Magnesium, Random, U	No	Yes
CRETR	Creatinine, Random, U	No	Yes

Methods:

Magnesium: Colorimetric Endpoint Assay

Creatinine: Enzymatic Colorimetric Assay

Reference Values:

1 month-<12 months: 0.10-0.48 mg/mg creat

12 months-<24 months: 0.09-0.37 mg/mg creat

24 months-<3 years: 0.07-0.34 mg/mg creat

3 years-<5 years: 0.07-0.29 mg/mg creat

5 years-<7 years: 0.06-0.21 mg/mg creat

7 years-<10 years: 0.05-0.18 mg/mg creat

10 years-<14 years: 0.05-0.15 mg/mg creat

14 years-<18 years: 0.05-0.13 mg/mg creat

18 years-83 years: 0.04-0.12 mg/mg creat

Reference values have not been established for patients who are less than 1 month or greater than 83 years of age.

Specimen Requirements:

Collection Container/Tube:	Plastic urine container
Submission Container/Tube:	Plastic 5 mL tube or plastic aliquot container with no metal cap or glued insert.
Specimen Volume:	4 mL
Collection Instructions:	Collect a random urine specimen with no preservative.
Minimum Volume:	1 mL

Specimen Stability Information:

Specimen Type	Temperature	Time
Urine	Refrigerate (preferred)	14 days
	Ambient	72 hours
	Frozen	30 days

Cautions:

Urinary magnesium excretion must be interpreted with caution during periods of intravenous magnesium infusion.

CPT Codes:

83735
82570

Day(s) Setup: Monday through Sunday

Analytic Time: Same day/1 day

Questions

Contact Nancy Benson, Laboratory Technologist Resource Coordinator at 800-533-1710.