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**Reporting Title:** Creatinine Clearance**Performing Location:** Rochester**Necessary Information:**

1. 24-Hour volume is required.
2. Patient's height in centimeters and weight in kilograms are required.

**Specimen Requirements:**

Both serum and urine are required. Serum must be collected no earlier than 72 hours before start of urine collection and no later than 72 hours after urine collection is completed.

Specimen Type: Serum

Collection Container/Tube:

Preferred: Serum gel

Acceptable: Red top

Submission Container/Tube: Plastic vial

Specimen Volume: 1 mL

Collection Instructions:

1. Centrifuge and aliquot serum into plastic vial.
2. Label specimen as serum.

Specimen Type: Urine

Supplies: Sarstedt 5 mL Aliquot Tube (T914)

Specimen Volume: 5 mL

Collection Instructions:

1. Collect urine for 24 hours.
2. Refrigerate specimen within 4 hours of completion of 24-hour collection.
3. Label specimen as urine.

Additional Information: For multiple collections see Urine Preservatives-Collection and Transportation for 24-Hour Urine Specimens

**Specimen Minimum Volume:**

Serum: 0.5 mL

Urine: 1 mL

**Forms:**

If not ordering electronically, complete, print, and send a Renal Diagnostics Test Request (T830) with the specimen.

**Urine Preservative Collection Options:**

Note: The addition of preservative or application of temperature controls must occur within 4 hours of completion of the collection.

Ambient Preferred  
Refrigerate OK  
Frozen OK  
50% Acetic Acid OK  
Boric Acid OK  
Diazolidinyl Urea OK  
6M Hydrochloric Acid OK  
6M Nitric Acid OK  
Sodium Carbonate OK  
Thymol OK  
Toluene No

Specimen Type	Temperature	Time	Special Container
Serum	Refrigerated (preferred)		
	Frozen		
Urine	Refrigerated (preferred)		
	Ambient		
	Frozen		

**Ask at Order Entry (AOE) Questions:**

Test ID	Question ID	Description	Type	Reportable
CRCU	VL52	Volume	Plain Text	Yes
CRCU	TM54	Time	Plain Text	Yes
CRCU	W2	Weight	Plain Text	No
CRCU	HT1	Height	Plain Text	No

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
CRTSA	Creatinine, S	Numeric	mg/dL	2160-0
	<b>Also used by tests: CRTS1</b>			
EGFR1	Estimated GFR (eGFR)	Numeric	mL/min/BSA	98979-8
	<b>Also used by tests: CRTS1</b>			

Result ID	Reporting Name	Type	Unit	LOINC®
CRE_U	Creatinine, U <b>Also used by tests: CRCU</b>	Numeric	mg/dL	20624-3
TM54	Time <b>Also used by tests: CRCU</b>	Numeric	h	13362-9
VL52	Volume <b>Also used by tests: CRCU</b>	Numeric	mL	3167-4
CRCL1	Creatinine Clearance <b>Also used by tests: CRCU</b>	Numeric	mL/min/BSA	12195-4

LOINC and CPT codes are provided by the performing laboratory.

### Supplemental Report:

No

### Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
CRTS1	Creatinine with eGFR, S			Yes	Yes
CRCU	Creatinine, U			Yes	No

### CPT Code Information:

82575

### Reference Values:

#### CREATININE CLEARANCE

Males:

0-18 years: Not established

19-75 years: 77-160 mL/min/body surface area (BSA)

> or =76 years: Not established

Females:

0-17 years: Not established

18-29 years: 78-161 mL/min/BSA

30-39 years: 72-154 mL/min/BSA

40-49 years: 67-146 mL/min/BSA

50-59 years: 62-139 mL/min/BSA

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60-72 years: 56-131 mL/min/BSA  
> or =73 years: Not established

CREATININE, URINE:  
Reported in units of mg/dL

CREATININE, SERUM

Males:

0-11 months: 0.17-0.42 mg/dL  
1-5 years: 0.19-0.49 mg/dL  
6-10 years: 0.26-0.61 mg/dL  
11-14 years: 0.35-0.86 mg/dL  
> or =15 years: 0.74-1.35 mg/dL

Females:

0-11 months: 0.17-0.42 mg/dL  
1-5 years: 0.19-0.49 mg/dL  
6-10 years: 0.26-0.61 mg/dL  
11-15 years: 0.35-0.86 mg/dL  
> or =16 years: 0.59-1.04 mg/dL

Estimated glomerular filtration rate (eGFR)

> or =18 years old: > or =60 mL/min/BSA

eGFR calculated using the 2021 CKD-EPI creatinine equation

Note: eGFR results will not be calculated for patients younger than 18 years old.