

---

**Lab Dept:** Chemistry

**Test Name:** CYSTATIN C WITH ESTIMATED GFR

---

***General Information***

**Lab Order Codes:** CYSTC

**Synonyms:** Cystatin C

**CPT Codes:** 82610 – Cystatin C

**Test Includes:** Estimated Glomerular Filtration Rate by Cystatin C (mL/min/BSA) and Cystatin C (mg/L).

---

***Logistics***

**Test Indications:** An index of glomerular filtration rate, especially in patients where serum creatinine may be misleading (eg, very obese, elderly, or malnourished patients). Assessing renal function in patients suspected of having kidney disease. Monitoring treatment response in patients with kidney disease.

**Lab Testing Sections:** Chemistry - Sendouts

**Referred to:** Mayo Medical Laboratories (MML Test: CYSTC)

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 1- 2 days

**Special Instructions:** N/A

---

***Specimen***

**Specimen Type:** Blood

**Container:** SST (Marble, gold or red)

**Draw Volume:** 3 mL (Minimum: 1.5 mL) blood

**Processed Volume:** 1 mL (Minimum: 0.5 mL) serum

<b>Collection:</b>	Routine blood collection
<b>Special Processing:</b>	Lab Staff: Centrifuge specimen, remove serum aliquot and place into a screw-capped, round bottom, plastic vial. Ship and store at refrigerated temperatures. Forward promptly.
<b>Patient Preparation:</b>	N/A
<b>Sample Rejection:</b>	Gross hemolysis; mislabeled or unlabeled specimens

---

***Interpretive***

**Reference Range:**

CYSTATIN C (mg/L)	
Males:	
0 days – 22 years	No reference values established
23 – 29 years	0.60 – 1.03 mg/L
30 – 39 years	0.64 – 1.12 mg/L
40 – 49 years	0.68 – 1.22 mg/L
50 – 59 years	0.72 – 1.32 mg/L
60 – 69 years	0.77 – 1.42 mg/L
70 – 79 years	0.82 – 1.52 mg/L
>79 years	No reference values established
Females:	
0 days – 22 years	No reference values established
23 – 29 years	0.57 – 0.90 mg/L
30 – 39 years	0.59 – 0.98 mg/L
40 – 49 years	0.62 – 1.07 mg/L
50 – 59 years	0.64 – 1.17 mg/L
60 – 69 years	0.66 – 1.26 mg/L

70 – 80 years	0.68 – 1.36 mg/L
81 – 86 years	0.70 – 1.45 mg/L
>86 years	No reference values established
eGFR (all ages >18 years)	
>60 mL/min/BSA	
Note: eGFR will not be calculated for patients under 18 years.	

**Critical Values:**

N/A

**Limitations:**

Cystatin C: Lipemic or frozen specimens, which become turbid after thawing, may interfere with the assay.

eGFR: eGFR is not a precise measure of GFR and can be influenced by non-renal factors (eg, inflammation)

**Methodology:**

Immunturbidimetric

**References:**

[Mayo Medical Laboratories Web Page](#) January 2018

**Updates:**

11/12/2009: Reference range update, previously listed as 7.4 - 11.7 mg/dL.

1/17/2018: Updated method