

Cystatin C with Estimated Glomerular Filtration Rate (eGFR), Serum

Test ID: CSTCE

Useful for:

Assessing renal function in patients suspected of having kidney disease

Monitoring treatment response in patients with kidney disease

An index of glomerular filtration rate (GFR), especially in patients where serum creatinine may be misleading (eg, very obese, older adults, or malnourished patients)

Calculation of CKD-EPI cystatin C estimated GFR for patients where serum creatinine may be misleading (eg, very obese, older adults, or malnourished patients)

Methods:

Immunoturbidimetric

Reference Values:

Cystatin C:

18-49 years: 0.63-1.03 mg/L

> or =50 years: 0.67-1.21 mg/L

0-17 years: Reference values have not been established. Refer to estimated glomerular filtration rate (eGFR).

Estimated GFR:

>60 mL/min/BSA

Adult eGFR: Estimated GFR calculated using CKD-EPI Cystatin C equation.

Pediatric eGFR: Estimated GFR calculated using Schwartz Cystatin C equation.

Specimen Requirements:

Preferred: Serum gel

Acceptable: Red top

Specimen Volume: 0.5 mL

Collection Instructions:

1. Serum gel tubes should be centrifuged within 2 hours of collection.
2. Red-top tubes should be centrifuged and aliquoted within 2 hours of collection.

Minimum Volume: 0.25 mL

Specimen Stability Information:

Specimen Type	Temperature	Time
Serum	Refrigerated (preferred)	14 days
	Ambient	7 days
	Frozen	30 days

Cautions:

The estimated glomerular filtration rate (eGFR) is not a precise measure of GFR and can be influenced by nonrenal factors such as inflammation.

CPT Code:

82610

Day(s) Setup: Monday through Sunday; continuously **Analytic Time:** Same day/1 day

Questions

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