

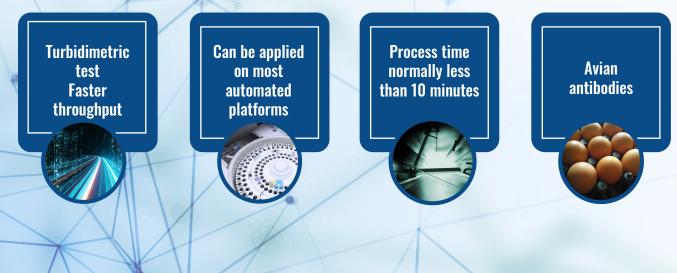
CYCTATIN C Superior Biomarker of Renal function

Cystatin C in diagnosis and therapeutic assessment of renal function

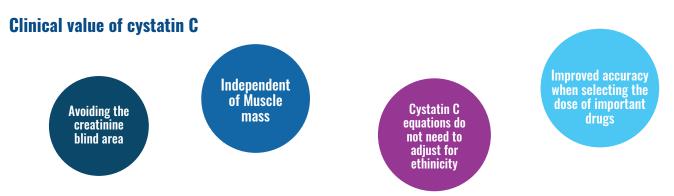
Cystatin C is an established marker for estimating glomerular filtration rate (GFR). GFR calculations performed using cystatin C are independent of protein intake, ethnicity and muscle mass. Equations that include cystatin C predict GFR more accurately than serum creatinine in children, adults, and older adults Clinical use of cystatin C is recommended in guidelines published by KDIGO and NICE.



The Cystatin C Immunoassay - Advantages



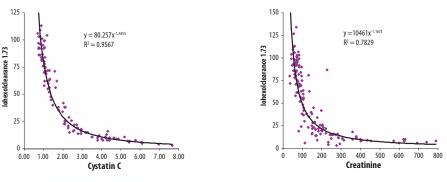
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Cystatin C in addition to creatinine

GFR can be estimated with greater accuracy if both cystatin C and creatinine are used. Cystatin C based GFR-estimating equations are superior to creatinine-based equations in predicting end-stage renal disease, cardiovascular manifestations, hospitalisation and death.

Cystatin C with stronger correlation with mGFR:



Correlation between cystatin C and iohexol clearance in 160 patient samples Correlation between creatinine and iohexol clearance in 160 patient samples

The graphs above illustrate the stronger correlation observed between cystatin C serum concentrations and iohexol clearance rates relative to that which is seen with creatinine. This improved correlation can be of clinical significance and lead to improved patient care.

GFR - Kidney Disease Classification

NKF-KDIGO Guideline; GFR Categories in Chronic Kidney Disease

Normal	Healthy kidneys - normal GFR	GFR > 90 mL/min/1.73m2
G1	Kidney damage with normal or elevated GFR	GFR > 90 mL/min/1.73m2
G21	Kidney damage and mild decrease in GFR 2	GFR of 60 - 89 mL/min/1.73m2
G3a	Mild to moderate decrease in GFR	GFR of 45 – 59 mL/min/1.73m2
G3b	Moderate to severe decrease in GFR	GFR 30 - 44 mL/min/1.73m2
G4	Severe decrease in GFR	GFR 15 – 29 mL/min/1.73m2
G5	Kidney failure - End Stage Renal Disease (ESRD)	GFR < 15 mL/min/1.73m2

1.In the absence of evidence of kidney damage, neither Stage 1 nor Stage 2 fulfill the criteria for Chronic Kidney Disease, CDK 2 .Relative to young adult level