

NEW TEST

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Cystatin and Creatinine With eGFR

3018316, GFR CYS

Specimen Requirements:

Patient Preparation:

Collect: Serum separator tube, plasma separator tube, K2EDTA, K3EDTA, or lithium heparin

Specimen Preparation: Allow serum tube to clot completely at room temperature. Separate serum or plasma from cells within 2 hours of collection. Transfer 1 mL plasma or serum or plasma to an ARUP standard transport tube. (Min: 0.2 mL)

Transport Temperature: Refrigerated.

Unacceptable Conditions: Blood collected in capillary blood collection tubes is unsuitable for use in this assay.

Remarks: Patient age and sex are required for calculation.

Stability: After separation from cells: Ambient: 7 days; Refrigerated: 7 days; Frozen: 3 months

Methodology: Quantitative Enzymatic Assay

Performed: Sun-Sat

Reported: Within 24 hours

Note:

CPT Codes: 82610; 82565

New York DOH Approval Status: This test is New York DOH approved.

Interpretive Data:

The estimated glomerular filtration rate (eGFR) was calculated using the 2021 CKD-EPI eGFR creatinine-cystatin equation. This equation is validated in individuals 18 years of age and older. Accurate estimation of GFR requires stable day-to-day filtration markers (creatinine and cystatin C). Filtration markers are influenced by non-GFR determinants, including generation from cells and diet, tubular secretion and reabsorption, and extra-renal elimination. These determinants may affect eGFR accuracy. The eGFR is normalized to a body surface area of 1.73 square meters.

GFR Category	GFR (mL/min/1.73 square meters)	Interpretation
G1	90 or greater	Normal to high*
G2	60-89	Mild decrease*
G3a	45-59	Mild to moderate decrease
G3b	30-44	Moderate to severe decrease
G4	15-29	Severe decrease
G5	14 or less	Kidney failure
		*In the absence of evidence of kidney damage, neither GFR category G1 nor G2 fulfill the criteria for CKD (Kidney Int Suppl 2013;3:1-150)

Reference Interval:

Refer to Report

Calculated GFR - \geq 60 mL/min / 1.73 square meters

HOTLINE NOTE: Refer to the Hotline Test Mix for interface build information.