



EPA

STANDARD OPERATING PROCEDURE

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Estimated GFR (eGFR)

Changes from previous revision
Updated table and source to 2024 KDIGO guidelines (no change to eGFR guidelines, just format/source update)

Author/Reviewer	Emma Miler
Authorised by	Emily Leach
Revision No.	3
Date of Issue	14/01/2025
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Estimated GFR (eGFR)

In line with the recommendations of the National Service Framework (NSF) for Renal Services, Clinical Biochemistry reports 'estimated GFR.' The calculation (2009 CKD-EPI) is based on the serum creatinine, age, and gender of the patient and is reported in the units ml/min/1.73 m².

N.B. NICE guidelines [NG203] (August 2021) removed the 2014 recommendation on how to adjust the CKD-EPI creatinine equation for adults of African-Caribbean or African family origin.

CURRENT CHRONIC KIDNEY DISEASE (CKD) NOMENCLATURE USED BY KDIGO

CKD is defined as abnormalities of kidney structure or function, present for a minimum of 3 months, with implications for health. CKD is classified based on Cause, Glomerular filtration rate (GFR) category (G1–G5), and Albuminuria category (A1–A3), abbreviated as CGA.

KDIGO: Prognosis of CKD by GFR and albuminuria categories				Persistent albuminuria categories		
				Description and range		
				A1	A2	A3
				Normal to mildly increased	Moderately increased	Severely increased
				<30 mg/g <3 mg/mmol	30–300 mg/g 3–30 mg/mmol	>300 mg/g >30 mg/mmol
GFR categories (ml/min/1.73 m ²) Description and range	G1	Normal or high	≥90			
	G2	Mildly decreased	60–89			
	G3a	Mildly to moderately decreased	45–59			
	G3b	Moderately to severely decreased	30–44			
	G4	Severely decreased	15–29			
	G5	Kidney failure	<15			

Green: low risk (if no other markers of kidney disease, no CKD); Yellow: moderately increased risk; Orange: high risk; Red: very high risk. GFR, glomerular filtration rate.

Source: Stevens, Paul E., et al. "KDIGO 2024 clinical practice guideline for the evaluation and management of chronic kidney disease." *Kidney international* 105.4 (2024): S117-S314.

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