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CHRONIC KIDNEY DISEASE (CKD)

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, GFR category (G1–G5), and Albuminuria category (A1–A3), abbreviated as CGA.1 These 3 components of the classification system are each critical in the assessment of people with CKD and help enable determination of severity and risk. Listed below are reference tables describing each component. Note that while the definition of CKD includes many different markers of kidney damage and is not confined to decreased GFR and albumin-to-creatinine ratio (ACR) >30 mg/g [>3 mg/mmol], the classification system is based on the 2 dimensions of GFR and degree of albuminuria.

GFR category	GFR (ml/min per 1.73 m2)	Terms
G1	≥90	Normal or High
G2	60–89	Mildly Decreased
G3a	45–59	Mildly to Moderately Decreased
G3b	30–44	Mildly to Severely Decreased
G4	15–29	Severely Decreased
G5	<15	Kidney Failure

KDIGO 2024 Clinical Practice Guideline for the Evaluation and Management of Chronic Kidney Disease
Kidney Disease: Improving Global Outcomes (KDIGO) CKD Work Group et al.
Kidney International, Volume 105, Issue 4, S117 – S314

Acute Kidney Injury (AKI)

1. Increase in serum creatinine by 0.3 mg/dL or more (26.5 µmol/L or more) within 48 hours

2. Increase in serum creatinine to 1.5 times or more than the baseline of the prior 7 days

3. Urine volume less than 0.5 mL/kg/h for at least 6 hours

Pereira M, Rodrigues N, Godinho I, Gameiro J, Neves M, Gouveia J, Costa E Silva Z, Lopes JA. Acute kidney injury in patients with severe sepsis or septic shock: a comparison between the 'Risk, Injury, Failure, Loss of kidney function, End-stage kidney disease' (RIFLE), Acute Kidney Injury Network (AKIN) and Kidney Disease: Improving Global Outcomes (KDIGO) classifications. Clin Kidney J. 2017 Jun;10(3):332-340. [PMC free article] [PubMed]

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