



Chronic Kidney Disease (CKD) Early Identification and Intervention

CKD causes a global burden



CKD disproportionately affects socially disadvantaged populations

Determine At-Risk Individuals and Populations



Screen for CKD in individuals with hypertension, diabetes, and/or cardiovascular disease

Consider other factors including

Demographics, older age, race/ ethnicity
Other systemic diseases that impact
kidneys
Genetic risk factors
Environmental exposures

Screening and Diagnosis of CKD





Measure kidney function

Serum creatinine Serum Cystatin C if available for more accurate staging

Measure kidney injury

Urine albumin-to-creatinine ratio (UACR)
Urine dipstick if UACR not available







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Risk stratify for appropriate staging

				Persistent albuminuria categories Description and range		
Prognosis of CKD by GFR and albuminuria categories: KDIGO 2012			A1	A2	А3	
			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 m²) 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			
U	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.

Use the KDIGO "heat map" to stage CKD based on estimated glomerular filtration rate (eGFR) and UACR

Individualized Re-screening

Based on individualized risk of progression

Risk reduction for CKD & CVD progression and complications























