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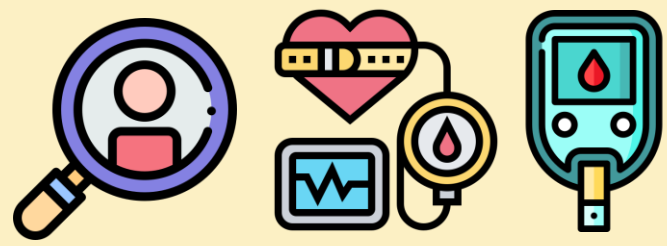
Chronic Kidney Disease (CKD) Early Identification and Intervention

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

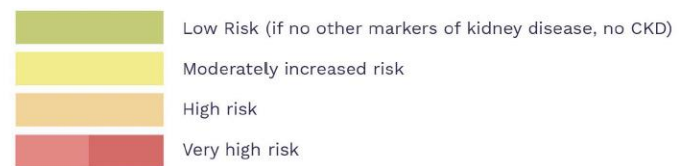


Chronic Kidney Disease (CKD) Early Identification and Intervention

Risk stratify for appropriate staging

CKD is classified based on: *Cause (C) *GFR (G) *Albuminuria (A)				Albuminuria categories		
				Description and range		
				A1	A2	A3
				Normal to mildly increased	Moderately increased	Severely increased
				<30 mg/g <3 mg/mmol	30-299 mg/g 3-29 mg/mmol	≥300 mg/g ≥30 mg/mmol
GFR categories (ml/min per 1.73 m ²) Description and range	G1	Normal or high	≥90	Screen 1	Treat 1	Treat and refer 3
	G2	Mildly decreased	60-89	Screen 1	Treat 1	Treat and refer 3
	G3a	Mildly to moderately decreased	45-59	Treat 1	Treat 2	Treat and refer 3
	G3b	Moderately to severely decreased	30-44	Treat 2	Treat and refer 3	Treat and refer 3
	G4	Severely decreased	15-29	Treat and refer* 3	Treat and refer* 3	Treat and refer 4+
	G5	Kidney failure	<15	Treat and refer 4+	Treat and refer 4+	Treat and refer 4+

*Referring clinicians may wish to discuss with their nephrology service depending on local arrangements regarding monitoring or referring.



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

Lifestyle modification (e.g., physical activity; lower sodium intake)

Smoking cessation

Optimize blood pressure control

Optimize glycemic control

SGLT2 inhibitors in diabetic

kidney disease

RAAS inhibition

Statins

Treat metabolic acidosis

Treat underlying cause of CKD

Avoid nephrotoxins (e.g., NSAIDs)

Adjust dosing of medications based on eGFR

