## **TYPE 2 DIABETES AND CHRONIC KIDNEY DISEASE**





T2D remains the leading cause of CKD Approximately 30-40% of patients





than T2D alone, including a higher risk of cardiovascular morbidity and all-cause mortality



CKD screening in people with T2D

How? UACR and eGFR

In the early stages of CKD, there are typically no symptoms, so screening is vital

Frequency? At least once a year, up to 4 times a year dependent on presence of other risk factors e.g. hypertension/CVD

G1

G2

G3a

G3b

G4

Normal or high

Mildly decreased

Severely decreased

Mildly to moderately decreased

Mildly to severely decreased

	A1	A2	А3	
	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	
≥90	Screen (1)	Treat (1)	Treat and refer (3)	
0-89	Screen (1)	Treat (1)	Treat and refer (3)	
5–59	Treat (1)	Treat (2)	Treat and refer (3)	
0-44	Treat (2)	Treat and refer (3)	Treat and refer (3)	
5–29	Treat and refer (3)	Treat and refer (3)	Treat and refer (4+)	
<15	Treat and refer (4+)	Treat and refer (4+)	Treat and refer (4+)	

Albuminuria categories Description and range

Diagnosis and classification of CKD in people with T2D

CKD is defined as persistent (for at least 3 months) eGFR < 60 mL/min/1.73 m<sup>2</sup>, albuminuria (ACR ≥30 mg/g), or other markers of kidney damage.

Low risk (if no other markers of kidney disease, no CKD) Moderately increased risk



	G5	Kidney failure	<15	Treat and refer (4+)	Treat and refer (4+)	Treat and refer (4+)		
Numbers: Indicate how often (per year) you should be screening or monitoring. Monitor, treat, or refer: Indicates the recommended course of action. CKD is classified based on Cause (C). GFR (G). Albuminuria (A).								

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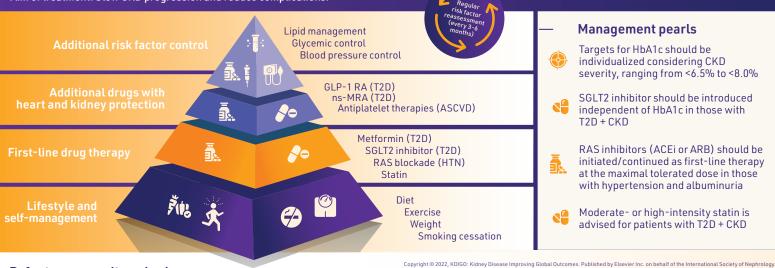
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## Management of T2D + CKD in primary care

Aim of treatment: Slow CKD progression and reduce complications.



## Management pearls

Targets for HbA1c should be individualized considering CKD severity, ranging from <6.5% to <8.0%

SGLT2 inhibitor should be introduced independent of HbA1c in those with T2D + CKD

RAS inhibitors (ACEi or ARB) should be initiated/continued as first-line therapy at the maximal tolerated dose in those with hypertension and albuminuria

Moderate- or high-intensity statin is advised for patients with T2D + CKD

Refer to or consult nephrology

Consult/refer to nephrology if:



Unexplained decline in









Developing a treatment plan and primary care practitioner not confident in the recommended first-line treatment

eGFR (≥5 mL/min/1.73m²) over 12 months or sudden decline over days to weeks

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— (K+)<sup>↑</sup> ——











