

# **Interpreting patient results** with the National Kidney Foundation risk map<sup>1</sup>

Nearly 40 million US adults have chronic kidney disease (CKD) and may require additional testing and follow-up to optimally manage their conditions. To aid your practice, the National Kidney Foundation and Kidney Disease: Improving Global Outcomes (KDIGO) initiative have developed a risk map and follow-up testing guidelines.

## Inputs needed

and

### **Kidney profile**



Serum creatinine with estimated glomerular filtration rate (eGFR): stage of CKD

Urine albumin-creatinine ratio (uACR): kidney damage

Guidelines recommend annual eGFR and uACR testing in all patients with:

- Existing CKD
- Diabetes
- Hypertension
- Family history of CKD
- Other risk factors for CKD

# 2 Using the risk map

Map your patient's results on the National Kidney Foundation risk map to determine:

- Patient's CKD stage
- Annual frequency to repeat eGFR and uACR testing
- When to confirm eGFR
- When to refer to a nephrologist

			Albuminuria categories and ACR ranges (mg/g creatinine)		
			Normal to mildly increased	Moderately increased	Severely increased
		¥	<30	30-300	>300
CKD stage and eGFR range (mL/min/1.73 $m^2$ )	1 and 2	≥60	1	1	2,R
	ЗA	45-59	1,C	2	
	3B	30-44	2		
	4	15-29			≥4,R
	5	<15	≥4,R	≥4,R	≥4,R

- Low risk: monitor yearly if evidence of kidney damage (eg, indicated by imaging or biopsy). The NKDEP recommends that actual values above 60 mL/ min/1.73m<sup>2</sup> be reported only as >60 due to variability near the upper limit of the reference range.
- Moderately high risk: monitor yearly
- High risk: monitor 2 times yearly
- Very high risk: monitor 3 times yearly
- Very high risk: monitor ≥4 times yearly

# 3 Follow-up testing for complications

KDIGO and the National Kidney Foundation provide the following evidence-based suggestions for testing for complications and comorbidities:

•	<b>CKD stage 1-2</b>	<b>CKD stage 3A</b>	CKD stage 3B	<b>CKD stage 4-5</b>		
	(eGFR ≥ 60)	(eGFR 45-59)	(eGFR 30-44)	(eGFR ≤ 29)		
uACR < 30		Lipid panel annually     HbA1c as needed for     glycemic control     Hemoglobin at least annually     Carbon dioxide at least once	Lipid panel annually     HbA1c as needed for     glycemic control     Hemoglobin at least annually     Carbon dioxide at least once     Calcium at least once     Phosphate at least once     Parathyroid hormone     at least once     Vitamin D at least once	Lipid panel annually     HbA1c as needed for     glycemic control     Hemoglobin at least annually     Carbon dioxide at least once     Calcium at least once     Phosphate at least once     Parathyroid hormone     at least once     Vitamin D at least once		
uACR≥30	<ul> <li>Lipid panel annually</li> <li>HbA1c as needed for</li></ul>	All of the above, plus:	All of the above, plus:	All of the above, plus:		
	glycemic control	• Potassium, serum annually	• Potassium, serum annually	• Potassium, serum annually		

1. Kidney Disease: Improving Global Outcomes (KDIGO) CKD Work Group. KDIGO 2012 Clinical Practice Guideline for the Evaluation and Management of Chronic Kidney Disease. Kidney Int. 2013; 3(1 Suppl):1-150. doi:10.1038/kisup.2012.73

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