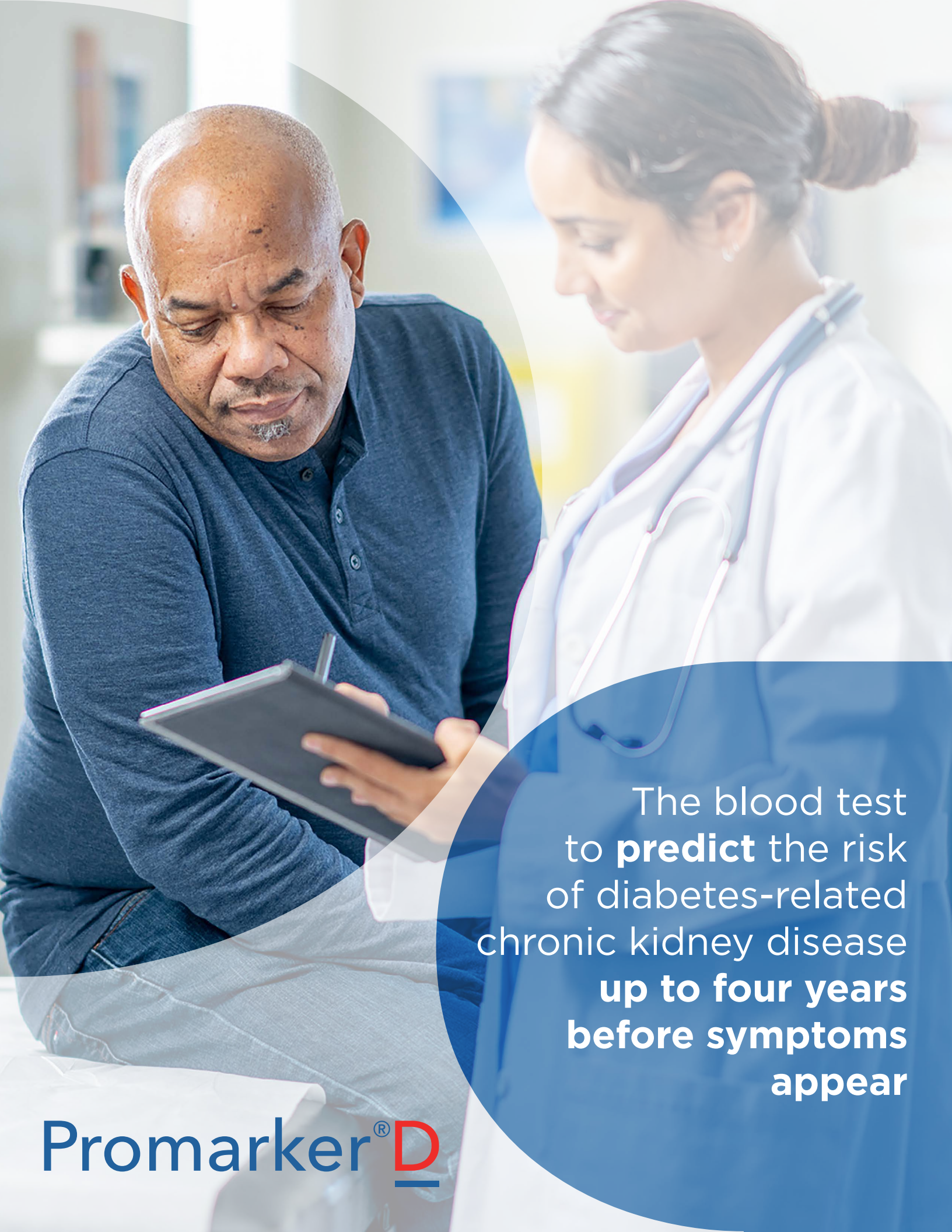


The blood test to **predict** the risk of diabetes-related chronic kidney disease **up to four years before symptoms appear**

Promarker®D

Current kidney tests are **reactive**

1 in 2 people with type 2 diabetes will develop CKD.[1,2] Current standard of care tests (eGFR and ACR) can only detect CKD when it is present, once kidney damage has already occurred.[3] Studies have noted that current kidney tests are not good indicators of early-stage CKD.[4,5]

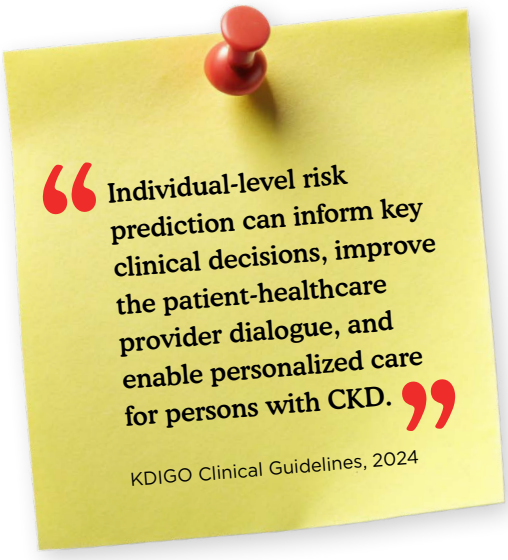
Current guidelines (including KDIGO and ADA) discount the risk of kidney disease onset for patients with type 2 diabetes in the 'green zone'.

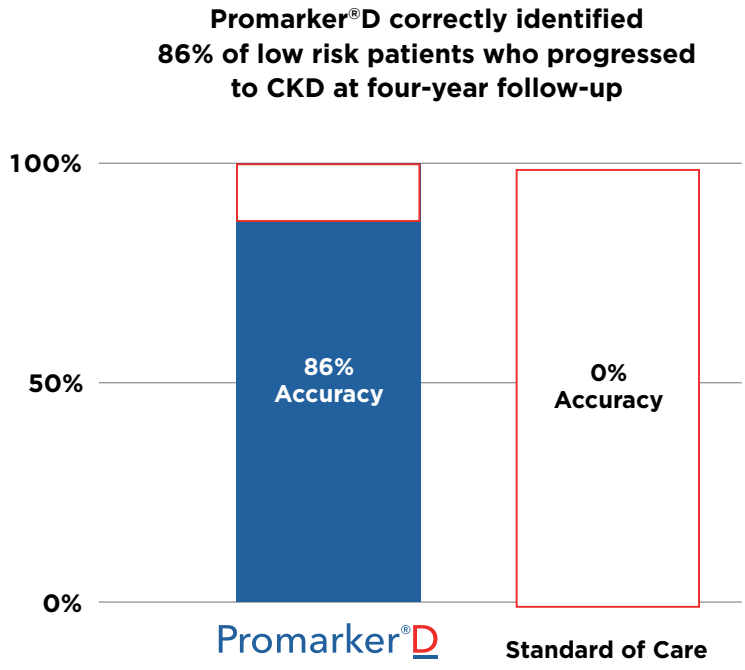
However, clinical studies show **people in this 'low risk' green zone are not 'safe': One in 11 will progress to CKD**.[6,7]

		ACR		
		<30 mg/g	30-300 mg/g	>300 mg/g
		<3 mg/mmol	3-30 mg/mmol	>30 mg/mmol
eGFR (mL/min/1.73m²)	≥90	'low risk'		
	60-89			
	45-59			
	30-44			
	15-29			
	<15			

The **Promarker®D** test enables you to stratify the risk for your 'green zone' patients and provide better, proactive kidney health management.

Promarker®D outperforms current standard of care tests. It accurately predicted renal decline at four-year follow up in 86% of 'low risk' (green zone) patients with type 2 diabetes – compared to 0% for eGFR/ACR tests.[7]





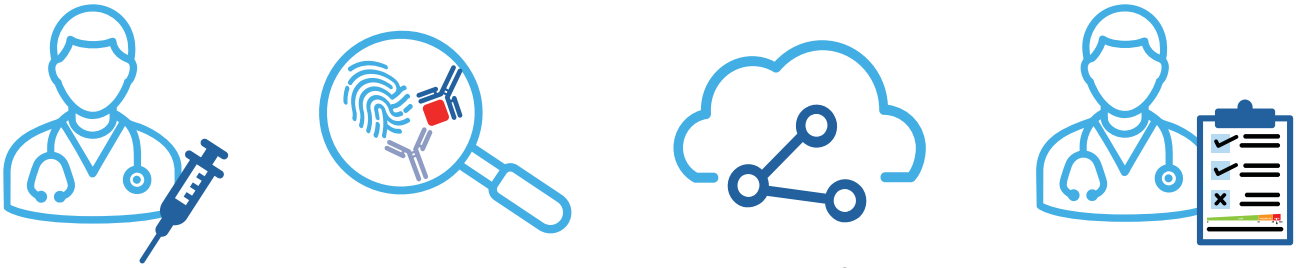
Early CKD identification is essential for effective use of treatments to delay CKD progression and reduce cardiovascular risk.[8]

Promarker®D is **proactive**

Promarker®D is designed to predict the risk of developing CKD in the next four years in adults with type 2 diabetes and normal to moderately decreased kidney function.

The test system measures blood protein biomarkers linked with kidney disease – Apolipoprotein A4 (ApoA4) and CD5 antigen-like (CD5L) – using enzyme-linked immunosorbent assay (ELISA). A clinically validated algorithm combines these results with clinical data (age and eGFR) to calculate the risk score in the proprietary PromarkerD Hub.

A simple **procedure**

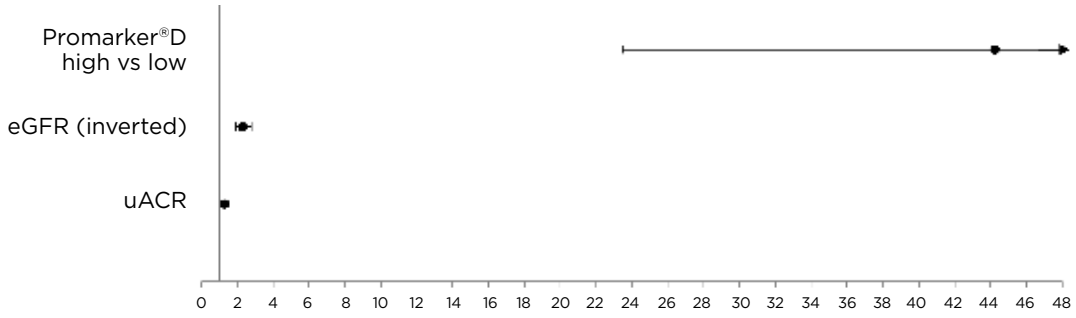


Blood drawn | **Biomarkers analyzed** | **Promarker®D hub calculates risk** | **Results delivered**

A study[7] compared PromarkerD's ability to predict kidney function decline with that of current standard of care tests (eGFR and ACR) in 948 adults with type 2 diabetes. The primary endpoint was incident CKD/eGFR decline ≥40%. At four-year follow-up, PromarkerD scores demonstrated a significantly higher predictive performance than standard of care tests (AUC 0.88 versus 0.63–0.81). Participants that PromarkerD classified as high risk were 44.26 times more likely to develop incident CKD/eGFR decline ≥40% than those it classified as low risk ($p < 0.001$). In contrast, participants classified as high risk under KDIGO risk categories (using eGFR and ACR results) were only 1.30 times more likely to develop incident CKD/eGFR decline ≥40% than those classed as low risk using this methodology.

Manage your patients **with confidence**

Comparison of Promarker®D and SOC for predicting incident CKD or eGFR decline ≥40%



These results demonstrate the strong prognostic characteristics of the PromarkerD score for identifying patients with type 2 diabetes who will progress to chronic kidney disease.

Test results and interpretation

Risk score **70%** indicates a HIGH risk of decline in kidney function

	LOW	MODERATE	HIGH
Risk category	Low four-year risk of developing CKD	Moderate four-year risk of developing CKD	High four-year risk of developing CKD
Predictive probability	<10%	10 to <36%	≥36%
Potential intervention	• Standard diabetes management	• More frequent monitoring • Lifestyle optimization • Avoidance of potentially nephrotoxic drugs • Review of glycaemic targets and non-glycaemic risk factors	• Very close monitoring • Intensive management strategies • Utilization of therapeutic drugs
Retesting recommendation	Every 4 years	Every 2 years	Retesting as determined by physician

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Proteomics International (Perth, Western Australia) is a wholly owned subsidiary and trading name of PILL (ASX: PIQ), a medical technology company at the forefront of predictive diagnostics and bio-analytical services. The Company specializes in proteomics – the industrial scale study of the structure and function of proteins. Proteomics International's mission is to improve the quality of lives by the creation and application of innovative tools that enable improved treatment of disease.

Scan the QR code to learn more about how to use Promarker®D to help you evaluate CKD risk in your patients with type 2 diabetes

Promarker®D

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