

Guidelines for Chronic Kidney Disease: Defining, Staging, and Managing in Primary Care

M. Sue McManus, PhD, BC-FNP, CNN, and

Shushanne Wynter-Minott, MSN, DNP, FNP-BC

ABSTRACT

Nurse practitioners encounter and have the opportunity and responsibility to identify and manage patients with chronic kidney disease. In this article we discuss the Kidney Disease: Improving Global Outcomes international guidelines for defining, classifying, and managing patients with chronic kidney disease and provide a synopsis of these guidelines as recommended by the National Kidney Foundation commentary workgroup for a United States—specific patient population.

Keywords: chronic kidney disease, detection, diagnosing, guidelines, management

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Chronic kidney disease (CKD) is a burden to individuals, families, and society. It is associated with poor health outcomes, increased cardiovascular (CV) complications, early death, and progression to kidney failure.¹ CKD affects 14.8% of adults living in the United States, with the highest prevalence in CKD stage 3.² Kidney disease is the ninth leading cause of death in the US.³ The 2 leading causes of CKD are diabetes and hypertension.² Risk factors include family history of kidney failure, age ≥ 60 years, smoking, obesity, kidney stones, and cardiovascular disease (CVD).⁴

CKD symptoms do not usually appear until the late stages, which contribute to the lack of awareness by patients and providers.⁵ CKD awareness among those affected is $< 10\%$.² Early identification and treatment of CKD can slow, or possibly prevent, progression to kidney failure; therefore, it is vitally important that nurse practitioners (NPs) and other providers in primary care recognize and treat CKD in the early stages. National guidelines on CKD management exist; however, providers are often unaware or not updated on the most recent ones and may persist in traditional, less accurate diagnostic techniques and treatments, as well as late referral to a nephrologist.^{6,7} NPs are ideally positioned to

intervene on their patients' behalf using evidence-based guidelines.

Kidney Disease: Improving Global Outcomes (KDIGO), an international expert panel of kidney practitioners, updated the original National Kidney Foundation 2002 CKD guideline.⁸ This article provides a synopsis of these guidelines as recommended for the US-specific patient population by the National Kidney Foundation (NKF) commentary workgroup. The full guidelines are available at <http://kdigo.org/home/guidelines/ckd-evaluation-management/>.

DEFINITION OF CKD

CKD is defined as abnormalities of kidney structure or function present for ≥ 3 months and with implications for health.⁸ Not all kidney structural or functional abnormalities are equal when it comes to determining impact on health. For example, a person may be born with 1 kidney, which is a structural abnormality, yet that person's health may not be negatively impacted and not be considered a CKD patient. The criteria of 3 months allows for discrimination between acute and chronic kidney disease, 2 distinctly different disease processes requiring different treatments. Acknowledgment of the time period is important both clinically and for

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