

Title

Global burden of chronic kidney disease: estimates and projections

Abstract

Chronic kidney disease (CKD) is a major public health threat and important cause of mortality, disability, and economic loss, particularly due to complications such as end stage renal disease and cardiovascular disease (CVD). Further, awareness of CKD is low. Our study aims to estimate and project the global burden of prevalent clinically significant CKD, stages 3-5, through 2050. This work is an important first step in estimating and projecting mortality, disability, and economic loss attributable to CKD as well as the magnitude attributable to important risk factors such as hypertension and diabetes and avertable through population-level shifts in risk factor distributions. This work will have great importance for health systems policy-makers and planners allocating resources for disease prevention and management, and is expected to result in improved health outcomes in persons with and at risk of kidney disease. The overall approach includes a comprehensive systematic review and a meta-analysis of diverse country-specific prevalence data, as well as region-based application of prevalence estimates in countries without data and age, gender-based projections. Here, we will present background on CKD, brief details on the literature review and analytic methodology, and preliminary results.