

# Your membership matters.

Continue to help lead the fight against kidney disease. Renew today.

[www.asn-online.org/membership](http://www.asn-online.org/membership)



# CJASN

Clinical Journal of the  
American Society of Nephrology

[HOME](#) | [CURRENT ISSUE](#) | [ADVERTISE](#) | [SUBSCRIBE](#) | [ARCHIVES](#) | [FEEDBACK](#) | [ALERTS](#) | [HELP](#)

User Name

Password

[LOG-IN](#)

Search

[Go](#)

Advanced Search

## The Healthy People 2020 Objectives for Kidney Disease: How Far Have We Come, and Where Do We Need to Go?

James B. Wetmore<sup>\*,†</sup>, Jiannong Liu<sup>\*</sup>, Suying Li<sup>\*</sup>, Yan Hu<sup>\*</sup>, Yi Peng<sup>\*</sup>,  
David T. Gilbertson<sup>\*</sup>, Allan J. Collins<sup>\*,‡</sup>

[+](#) Author Affiliations

### Correspondence:

Dr. Allan J. Collins, Chronic Disease Research Group, Minneapolis Medical Research Foundation, 914 South 8th Street, Suite S4.100, Minneapolis, MN 55404.  
Email: [acollins@cdrg.org](mailto:acollins@cdrg.org)

### Abstract

The Healthy People 2020 initiative established goals for patients with CKD and ESRD. We assessed United States progress toward some of these key goals. Using data from the Centers for Medicare and Medicaid Services ESRD database, we created yearly cohorts of patients on incident and prevalent dialysis from 2000 to 2013. Change in event rate or proportion change over the study years was modeled using Poisson regression with adjustment for age, race, sex, and primary cause of ESRD. For all-cause mortality in prevalent patients, Healthy People 2020 sought approximately 0.8% relative annual improvement; actual improvement was 2.7%. Improvement was greatest for patients ages 18–44 years old (3.8%;  $P < 0.01$  versus 2.8% for ages 65–74 years old) and 2.3% even for patients ages  $\geq 75$  years old. For mortality in incident patients, the relative annual decrease was 2.1% overall, a twofold improvement over the goal; mortality decreased nearly twice as much in black as in white patients (3.2% versus 1.8%;  $P < 0.001$ ). Geographic variation was substantial; the relative annual decrease was 0.6% in the Midwest and more than fourfold greater (2.7%) in the South. Cardiovascular mortality in prevalent patients decreased dramatically at 5.0% per year, far exceeding the annual goal of approximately 0.8%; the decrease was greatest in patients ages  $\geq 75$  years old (5.5%;  $P < 0.001$  versus ages 65–74 years old; 5.1%). The relative annual increase in percentages of patients with a fistula at dialysis initiation was 2.4%, roughly three times the goal; the increase was greater for black than white patients (3.2% versus 2.3%;  $P < 0.01$ ). Adjusted regional differences varied greater than twofold: 2.0% for the South versus 4.1% for the Midwest. Thus, although gains have been substantial, not all groups have benefitted equally. Goal development for Healthy People 2030 should consider changes in goal paradigms, such as tailoring by geographic region and incorporating patient-centered goals.

[« Previous](#) | [Next Article »](#)  
[Table of Contents](#)

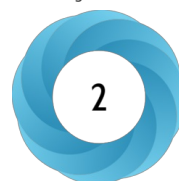
### This Article

Published online before  
print August 2016, doi:  
10.2215/CJN.04210416  
CJASN January 06, 2017  
vol. 12 no. 1 200–209

» Abstract **Free**  
Figures Only **Free**  
Full Text **Free**  
Full Text (PDF) **Free**

[Article Usage Stats](#)

Article Usage Statistics



### Services

Email this article to a  
colleague  
Alert me when this article is  
cited  
Alert me if a correction is  
posted  
Similar articles in this journal  
Similar articles in PubMed  
Download to citation manager  
[© Get Permissions](#)

[Citing Articles](#)

[Google Scholar](#)

[PubMed](#)

### Current Issue

March 07, 2018, 13 (3)



Alert me to new issues of  
CJASN

[ONLINE SUBMISSION](#)

[AUTHOR RESOURCES](#)

[ABOUT CJASN](#)

[EDITORIAL BOARD](#)

[REPRINTS/PERMISSIONS](#)

[IMPACT FACTOR](#)

[MOST READ](#)

[MOST CITED](#)

**CJASN ePress**

Updated on:  
March 9, 2018  
By Date / By Subject



Advertising Disclaimer

[chronic kidney disease](#) [dialysis](#) [Epidemiology and outcomes](#) [ESRD](#)  
[Healthy People 2020](#) [public health](#) [African Americans](#)  
[African Continental Ancestry Group](#) [European Continental Ancestry Group](#)  
[Fistula](#) [Goals](#) [Humans](#) [Kidney Failure](#) [Chronic](#) [Medicaid](#)  
[Medicare](#) [renal dialysis](#) [Renal Insufficiency](#) [Chronic](#) [United States](#)

Copyright © 2016 by the American Society of Nephrology

### We recommend

Outcomes of Elderly Patients after Predialysis Vascular Access Creation.

Timmy Lee et al., J Am Soc Nephrol

Validation of reported predialysis nephrology care of older patients initiating dialysis.

Jane Paik Kim et al., J Am Soc Nephrol

Predictors of Initiation for Predialysis Arteriovenous Fistula

Alian Al-Balas et al., Clin J Am Soc Nephrol

Meeting KDOQI guideline goals at hemodialysis initiation and survival during the first

year.

Yelena Slinin et al., Clin J Am Soc Nephrol

Treatment center and geographic variability in pre-ESRD care associate with increased mortality.

William M McClellan et al., J Am Soc Nephrol

New agents, novel targets show promise for diabetic kidney disease 


Healio

The critical time when care coordination can make a difference 

Healio

Bone mineral density and biochemical markers of bone metabolism in predialysis patients with chronic kidney disease 

Seyhun Kursat et al., J Investig Med

Implementation of routine foot check in patients with diabetes on hemodialysis: associations with outcomes. 

Andreja Marn Pernat et al., BMJ Open Diab Res Care

Diabetic Kidney Disease: Much Progress, But Still More to Do. 

Mark E Molitch, Diabetes Spectr

Powered by 

## Articles citing this article

**Readmissions Following a Hospitalization for Cardiovascular Events in Dialysis Patients: A Retrospective Cohort Study**

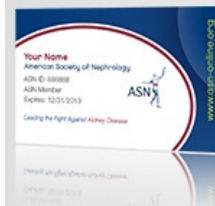
JAMA February 13, 2018 7(4) e007231

[»Abstract](#) [»Full Text](#) [»Full Text \(PDF\)](#)

Copyright © 2018 by the American Society of Nephrology

Be a part of something innovative, influential and dynamic.

**Be a part of ASN.**



ASN members enjoy discounts on ASN's educational programs, subscriptions to ASN's publications, and more.

Join or renew today at [www.asn-online.org/membership](http://www.asn-online.org/membership)



Print ISSN: 1555-9041

Online ISSN: 1555-905X