

DESCRIPTION

Chronic kidney disease, also called chronic kidney failure, describes the gradual loss of kidney function, and is the ninth leading cause of death in the United States. Kidneys filter wastes and excess fluids from the blood, which are then excreted in urine. When chronic kidney disease reaches an advanced stage, dangerous levels of fluid, electrolytes and wastes can build up in the body.¹ Nationally, about half of all cases of kidney disease are diagnosed in stages three or four, the more serious stages.²

HOW ARE WE DOING

About 14 percent, or one in seven Americans are estimated to have chronic kidney disease.¹ In 2012, the Minnesota rate for women was 12.9 compared to 13.1 for men.³ The death rate due to kidney disease in Minnesota was 10.5 per 100,000 people in 2011-2015, which compares to the Ramsey County rate of 12.4.⁴ The average cost of medical care for a person with chronic kidney disease in 2012 was \$36,333 in Ramsey County, the highest in the metro area.³ Among Minnesota Medicare enrollees, 1,749 were diagnosed with chronic kidney disease in 2016. In addition, there were 3,406 patients receiving dialysis, 12,253 people with a kidney transplant, and 2,083 on the transplant waitlist. In the same year, 146 patients died waiting for a kidney transplant.⁵

BENCHMARK INDICATOR

Healthy People 2020: Reduce the proportion of the population with chronic kidney disease.

U.S. Target: 13.3 percent.⁶

DISPARITIES

Nationally from 2007 to 2012, the rate of chronic kidney disease among the African-Americans was 17.3 percent; 2.7 percent higher than the total population.⁷ Females have a higher rate of chronic kidney disease than males.

RISK FACTORS

Factors that may increase risk of chronic kidney disease include: diabetes, high blood pressure, cardiovascular disease, smoking, obesity, family history of condition, abnormal kidney structure and older age.⁸

WHAT RAMSEY COUNTY GOVERNMENT IS DOING

Saint Paul - Ramsey County Public Health provides data monitoring and reporting for this topic in order to better understand the overall health and current conditions in the community. The information may help inform community partners, policy makers or county program leadership.

Information to note

- During 2011-2015, Ramsey County's death rate for kidney disease was 12.4 per 100,000 people, higher than the state rate of 10.5.⁴

¹ Chronic Kidney Disease – Overview. Mayo Clinic Web site. <http://www.mayoclinic.org/diseases-conditions/chronic-kidney-disease/home/ovc-20207456>. Accessed August 28, 2017.

² About Chronic Kidney Disease. National Kidney Foundation Web site. <https://www.kidney.org/atoz/content/about-chronic-kidney-disease>. Accessed October 30, 2017.

³ Chronic Conditions in Minnesota: New Estimates of Prevalence, Cost and Geographic Variation for Insured Minnesotans, 2012. Minnesota Department of Health Web site.

⁴ Minnesota County Health Tables. Minnesota Department of Health Web site. <http://www.health.state.mn.us/divs/chs/countytables/profiles2016/index.html>. Accessed October 30, 2017.

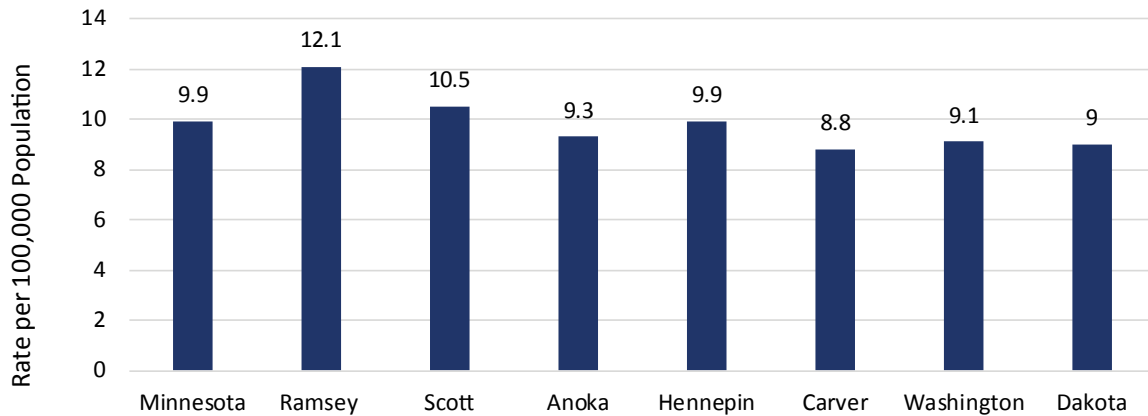
⁵ Chronic Kidney Disease. National Kidney Foundation Web site. <https://www.kidney.org/sites/default/files/AdvocacyFactSheet-Minnesota.pdf>. Accessed October 30, 2017.

⁶ Centers for Disease Control and Prevention. Healthy People 2020. <https://www.healthypeople.gov/2020/topics-objectives>. Accessed January 2018.

⁷ Chronic Kidney Disease. Healthy People 2020 Web site. <https://www.healthypeople.gov/2020/data-search/Search-the-Data#objid=4076;>. Accessed August 28, 2017.

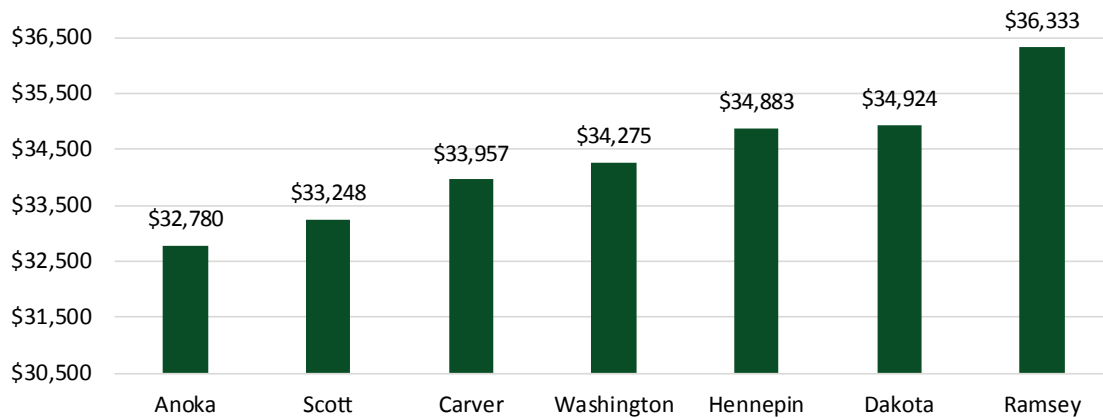
⁸ Chronic Kidney Disease. Mayo Clinic Web site. <http://www.mayoclinic.org/diseases-conditions/chronic-kidney-disease/symptoms-causes/dxc-20207466>. Accessed August 28, 2017.

Kidney Disease Deaths, 2012 - 2016



Source: Minnesota Department of Health Web site.⁹

Annual Health Care Cost per Person with Chronic Kidney Disease, 2012



Source: Chronic Conditions in Minnesota.¹⁰

⁹ Source: Minnesota County Health Tables. Minnesota Department of Health Web site. <http://www.health.state.mn.us/divs/chs/countytables/profiles2016/index.html>. Accessed October 30, 2017.

¹⁰ Source: Chronic Conditions in Minnesota: New Estimates of Prevalence, Cost and Geographic Variation for Insured Minnesotans, 2012. Minnesota Department of Health Web site. http://www.health.state.mn.us/divs/hpsc/hep/publications/costs/20160127_chronicconditions.pdf. Accessed August 30, 2017