

U.S. POPULATION HEALTH MEASURES**Measures of Birth, Death, and Life Expectancy**

	Unit of measure	Previous Result	Latest Result	Status	Data Source
Overall mortality rate	Per 100,000 population, age standardized	1075 (1990)	835 (2010)	Improved	OECD
<i>Mortality rates by diagnosis</i>					
Neoplasms (cancers and tumors)	Per 100,000 population, age standardized	254 (1990)	203 (2010)	Improved	OECD
Circulatory system diseases	Per 100,000 population, age standardized	480 (1990)	265 (2010)	Improved	OECD
Respiratory diseases	Per 100,000 population, age standardized	99 (1990)	82 (2010)	Improved	OECD
Endocrine, nutritional and metabolic diseases	Per 100,000 population, age standardized	42 (1990)	34 (2010)	Improved	OECD
Amenable mortality rate	Per 100,000 population	110 (2002-2003)	86 (2009-2010)	Improved	Commonwealth
Potential years of life lost (PYLL)	Per 100,000 population, age-specific	6382 (1990)	4629 (2010)	Improved	OECD
Infant mortality rate	Per 1,000 live births	6.9 (2000)	6.0 (2013)	Improved	OECD

Measures of Health Status and Quality of Life

Disability adjusted life years (DALY)	Per 100,000 population, age standardized	25,633 (1990)	21,956 (2010)	Improved	IHME
Years of life lost	Per 100,000 population, age standardized	15,130 (1990)	11,447 (2010)	Improved	IHME
Years lived with disability	Per 100,000 population, age standardized	10,503 (1990)	10,509 (2010)	Similar	IHME
<i>General health status (self-reported)</i>					
Excellent, very good, or good	Percent of adults	85% (1996)	82% (2013)	Worsened	BRFSS
Fair or poor	Percent of adults	15% (1996)	18% (2013)	Worsened	BRFSS
<i>Health Related Quality of Life</i>					
Healthy days (includes physical and mental health)					
All adults	Average number of days in past 30	24.8 (1996)	23.5 (2013)	Worsened	BRFSS
Female	Average number of days in past 30	24.0 (1996)	22.7 (2013)	Worsened	BRFSS
Male	Average number of days in past 30	25.6 (1996)	24.3 (2013)	Worsened	BRFSS
Black, non-Hispanic	Average number of days in past 30	24.2 (1996)	22.8 (2013)	Worsened	BRFSS
Hispanic	Average number of days in past 30	24.6 (1996)	23.1 (2013)	Worsened	BRFSS
White, non-Hispanic	Average number of days in past 30	24.8 (1996)	23.6 (2013)	Worsened	BRFSS
Physically healthy days in past 30	Average number of days in past 30, all adults	27.0 (1996)	26.1 (2013)	Worsened	BRFSS
Mentally healthy days in past 30	Average number of days in past 30, all adults	27.1 (1996)	26.3 (2013)	Worsened	BRFSS
Usual activities prevented due to poor physical or mental health	Average number of days in past 30, all adults	26.4 (1996)	25.1 (2013)	Worsened	BRFSS
Teen pregnancy	Birth rates per 1,000 women ages 15-19	62 (1991)	27 (2014)	Improved	NVSS
Overweight, obesity, and extreme obesity among adults	Age-standardized prevalence, adults ages 20+	64.5% (1999-2000)	68.5% (2011-2012)	Worsened	NHES/NHANES

U.S. QUALITY OF CARE MEASURES**Measures of Short-term Outcomes Following Treatment or Diagnosis**

	Unit of measure	Previous Result	Latest Result	Status	Data Source
<i>Mortality 30 days after hospital admission, by diagnosis</i>					
Acute myocardial infarction	Risk-standardized mortality rate	15.3 (July 2009-June 2010)	14.4 (July 2012-June 2013)	Improved	CMS
Stroke	Risk-standardized mortality rate	15.5 (July 2009-June 2010)	15.0 (July 2012-June 2013)	Improved	CMS
Heart failure	Risk-standardized mortality rate	11.4 (July 2009-June 2010)	12.0 (July 2012-June 2013)	Worsened	CMS
Pneumonia	Risk-standardized mortality rate	11.9 (July 2009-June 2010)	11.6 (July 2012-June 2013)	Improved	CMS
<i>Five-year survival, by diagnosis</i>					
Breast cancer	Percent of age standardized relative five-year survival, ages 15-99	85.4% (1990-1992)	90% (2001-2007)	Improved	SEER
Colorectal cancer	Percent of age standardized relative five-year survival, ages 15-99	61.4% (1990-1992)	66% (2001-2007)	Improved	SEER
Cervical cancer	Percent of age standardized relative five-year survival, ages 15-99	69.6% (1990-1992)	68.9% (2001-2007)	Similar	SEER
Process Measures					
Percent of recommended care received	Average proportion across a panel of AHRQ quality measures	66% (2005)	70% (2010)	Improved	AHRQ
<i>Provision of recommended preventative services</i>					
Adult screening and preventive care	Percent of adults ages 50+	44% (2006)	42% (2012)	Similar	Commonwealth
Child vaccinations	Percent of children ages 12-23 months receiving all recommended doses of Diphtheria, Tetanus, Pertussis, Measles, and Hepatitis B	62.7% (1993)	91.7% (2013)	Improved	OECD
<i>Provision of recommended hospital services</i>					
Positive experience of hospital staff services	Percent of patient reports reporting staff always managed pain well, responded when needed help to get to bathroom or pressed call button and explained medicines and side effects	62% (2007)	68% (2013)	Improved	HSCAHPs
Axillary node dissection or sentinel lymph node biopsy at time of breast cancer surgery	Percent of women with clinical Stage I-IIb breast cancer with axillary node dissection or sentinel lymph node biopsy at time of surgery	88.4% (2004)	94.3% (2011)	Improved	AHRQ
Percutaneous coronary intervention for heart attack	Percent of heart attack patients given intervention within 90 minutes of arrival	42% (2005)	95% (2012)	Improved	AHRQ

Fibrinolytic medication for heart attack	Percent of heart attack patients given medication within 30 minutes of arrival	38% (2005)	62% (2012)	Improved	AHRQ
Medication prescribed for heart failure	Percent of heart failure patients prescribed angiotensin-converting enzyme inhibitor or angiotensin receptor blocker at discharge	83% (2005)	97% (2012)	Improved	AHRQ
Home care instructions	Percent of hospitalized patients	79% (2007)	86% (2013)	Improved	HCAHPS
<i>Hospital admission rates, by diagnosis</i>					
Asthma	Per 100,000 population, age standardized, ages 15+	122 (2006)	117 (2010)	Improved	OECD
Congestive heart failure	Per 100,000 population, age standardized, ages 15+	472 (2006)	381 (2010)	Improved	OECD
Uncontrolled diabetes	Per 100,000 population, age standardized, ages 15+	21 (2006)	19 (2010)	Similar	OECD
Diabetes short-term complications	Per 100,000 population, age standardized, ages 15+	57 (2006)	65 (2010)	Improved	OECD
<i>Hospital services</i>					
Diabetes lower extremity amputation	Rate per 100,000 population, age standardized, ages 15+	38 (2006)	17.1 (2010)	Improved	OECD
Trauma during vaginal delivery	Crude rate per 100 vaginal deliveries, ages 15+	17 (2006)	11.1 (2010)	Improved	OECD
<i>Medicare hospital admission and readmissions</i>					
30-day Medicare inpatient readmissions	Percent of readmissions within 30 days of an acute hospital stay, ages 65+	18.4% (2007)	16.9% (2013)	Improved	CMS
Admissions for ambulatory care-sensitive conditions	Per 1,000 beneficiaries, ages 65-74	37 (2007)	27 (2013)	Improved	CMS
Safety Measures					
<i>Number of hospital acquired conditions</i>					
Adverse drug events	Total number of events	1,621,000 (2010)	1,320,000 (2013)	Improved	AHRQ
Pressure ulcers	Total number of events	1,320,000 (2010)	1,060,000 (2013)	Improved	AHRQ
Infections	Total number of events	514,000 (2010)	377,200 (2013)	Improved	AHRQ
Falls	Total number of events	260,000 (2010)	240,000 (2013)	Improved	AHRQ
Obstetric adverse events	Total number of events	82,000 (2010)	77,000 (2013)	Improved	AHRQ
Ventilator-associated pneumonias	Total number of events	38,000 (2010)	37,000 (2013)	Improved	AHRQ
Post-op venous thromboembolisms	Total number of events	28,000 (2010)	23,000 (2013)	Improved	AHRQ

All other hospital acquired conditions	Total number of events	894,000 (2010)	823,000 (2013)	Improved	AHRQ
Retained surgical item/unretrieved device fragment	Crude rate per 100,000 hospital discharges, ages 15+	8.1 (2006)	7 (2010)	Improved	OECD
Post-operative sepsis	Crude rate per 100,000 hospital discharges, ages 15+	1332 (2006)	945 (2010)	Improved	OECD

INTERNATIONAL COMPARISONS OF POPULATION HEALTH AND QUALITY MEASURES

Measures of Birth, Death, and Life Expectancy

	Unit of measure	U.S.	Comparable Country Average	U.S. Status	Data Source
Life expectancy at birth	Years	79 (2011)	82 (2011)	Worse	OECD
Overall mortality rate	Per 100,000 population, age standardized	835 (2010)	740 (2010)	Worse	OECD
<i>Mortality rates by diagnosis</i>					
Neoplasms (cancers and tumors)	Per 100,000 population, age standardized	203 (2010)	212 (2010)	Better	OECD
Circulatory system diseases	Per 100,000 population, age standardized	265 (2010)	243 (2010)	Worse	OECD
Respiratory diseases	Per 100,000 population, age standardized	82 (2010)	63 (2010)	Worse	OECD
Endocrine, nutritional and metabolic diseases	Per 100,000 population, age standardized	34 (2010)	23 (2010)	Worse	OECD
Breast Cancer	Per 100,000 population, age standardized	24.5 (2010)	26.1 (2010)	Better	OECD
Colorectal Cancer	Per 100,000 population, age standardized	17.6 (2010)	22.7 (2010)	Better	OECD
Cervical Cancer	Per 100,000 population, age standardized	2.4 (2010)	2.4 (2010)	Similar	OECD
Amenable mortality rate	Per 100,000 population	96 (2006-2007)	70 (2006-2007)	Worse	Health Affairs
Potential years of life lost (PYLL)	Per 100,000 population, age-specific	4629 (2010)	2982 (2010)	Worse	OECD
Infant mortality rate	Per 1,000 live births	6 (2013)	3.5 (2013)	Worse	OECD

Measures of Health Status and Quality of Life

	Unit of measure	U.S.	Comparable Country Average	U.S. Status	Source
Disability Adjusted Life Year	Per 100,000 population, age standardized	21,956 (2012)	19,071 (2012)	Worse	IHME

Process Measures

Hospital admission rates, by diagnosis

Asthma	Per 100,000 population, age standardized, ages 15+	117 (2010)	40 (2010)	Worse	OECD
Congestive heart failure	Per 100,000 population, age standardized,	381 (2010)	216 (2010)	Worse	OECD

	ages 15+				
Uncontrolled diabetes	Per 100,000 population, age standardized, ages 15+	19 (2010)	69 (2010)	Better	OECD
Diabetes short-term complications	Per 100,000 population, age standardized, ages 15+	65 (2010)	18 (2010)	Worse	OECD
<i>Hospital services</i>					
Diabetes lower extremity amputation	Rate per 100,000 population, age standardized, ages 15+	17.1 (2010)	7.4 (2010)	Worse	OECD
Trauma during vaginal delivery	Crude rate per 100 vaginal deliveries, ages 15+	11.1 (2010)	6.8 (2010)	Worse	OECD
<i>Safety measures</i>					
Retained surgical item/ unretrieved device fragment	Crude rate per 100,000 hospital discharges, ages 15+	7.0 (2010)	6.3 (2010)	Similar	OECD
Medical, medication, or lab errors or delays	Percent, in the past 2 years	22% (2011)	16% (2011)	Worse	Commonwealth

Measures of Short-term Outcomes Following Treatment or Diagnosis

30-day in hospital mortality rate, by diagnosis

Hemorrhagic stroke	Per 100 hospital discharges, admission-based, age standardized, ages 45+	22.3 (2010)	20.9 (2010)	Similar	OECD
Heart attack	Per 100 hospital discharges, admission-based, age standardized, ages 45+	5.5 (2010)	6.8 (2010)	Better	OECD
Ischemic stroke	Per 100 hospital discharges, admission-based, age standardized, ages 45+	4.3 (2010)	8.3 (2010)	Better	OECD

Five-year survival, by diagnosis

Breast cancer	Percent of age standardized relative five-year survival, ages 15-99	88.7 (2004-2009)	84.2 (2004-2009)	Better	OECD
Colorectal cancer	Percent of age standardized relative five-year survival, ages 15-99	64.7 (2004-2009)	61.6 (2004-2009)	Better	OECD
Cervical cancer	Percent of age standardized relative five-year survival, ages 15-99	62.2 (2004-2009)	64.8 (2004-2009)	Similar	OECD

Post-operative outcomes

Pulmonary embolism or deep vein thrombosis	Crude rate per 100,000 hospital discharges, ages 15+	1013 (2010)	746 (2010)	Worse	OECD
Sepsis	Crude rate per 100,000 hospital discharges, ages 15+	945 (2010)	940 (2010)	Worse	OECD
Wound dehiscence	Crude rate per 100,000 hospital discharges,	147 (2010)	134 (2010)	Worse	OECD

ages 15+

Measures of Access to Care					
Use of emergency department for non-emergency care	Percent of respondents, ages 65+, in the past two years	13% (2014)	7% (2014)	Worse	Commonwealth
Foregone prescriptions, doctor visits, and or recommended care	Percent of respondents, ages 18+	37% (2013)	13% (2013)	Worse	Commonwealth
Same or next-day appointment when in need of care	Percent of respondents, ages 18+	48% (2013)	58% (2013)	Worse	Commonwealth
Wait of six or more days for an appointment when in need of care	Percent of respondents, ages 18+	26% (2013)	19% (2013)	Worse	Commonwealth
