

Nonfatal and Fatal Falls Among Adults Aged ≥ 65 Years — United States, 2020–2021

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Abstract

In the United States, unintentional falls are the leading cause of injury and injury death among adults aged ≥ 65 years (older adults). Patterns of nonfatal and fatal falls differ by sex and state. To describe this variation, data from the 2020 Behavioral Risk Factor Surveillance System and 2021 National Vital Statistics System were used to ascertain the percentage of older adults who reported falling during the previous year and unintentional fall-related death rates among older adults. Measures were stratified by demographic characteristics, U.S. Census Bureau region, and state. In 2020, 14 million (27.6%) older adults reported falling during the previous year. The percentage of women who reported falling (28.9%) was higher than that among men (26.1%). The percentage of older adults who reported falling ranged from 19.9% (Illinois) to 38.0% (Alaska). In 2021, 38,742 (78.0 per 100,000 population) older adults died as the result of unintentional falls. The unintentional fall-related death rate was higher among men (91.4 per 100,000) than among women (68.3). The fall-related death rate among older adults ranged from 30.7 per 100,000 (Alabama) to 176.5 (Wisconsin). CDC's Stopping Elderly Accidents, Deaths and Injuries (STEADI) initiative recommends that health care providers screen and assess older adults for fall risk and intervene using effective preventive strategies.

Introduction

Among adults aged ≥ 65 years (older adults) in the United States, the leading cause of injury and injury deaths is unintentional falls.* Although the estimated prevalence of nonfatal and fatal falls increases with age, falls are not an inevitable part of aging. Older adult falls can be prevented by addressing modifiable risk factors through effective preventive strategies.

Nationally, the medical costs attributed to nonfatal and fatal falls in this age group amounts to approximately \$50 billion every year (1). Demographic and geographic variation in the distribution of fatal falls has been reported (2). This report aims to identify the differences in nonfatal and fatal falls estimates by sex and state.

Methods

This report used 2020 Behavioral Risk Factor Surveillance System (BRFSS) data and 2021 National Vital Statistics System (NVSS) data, the latest years available for each source. BRFSS is a landline/mobile telephone survey which collects information about health-related behavioral risk factors and chronic conditions from noninstitutionalized adults aged ≥ 18 years residing

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* <https://www.cdc.gov/falls/data/index.html>



in the 50 U.S. states, the District of Columbia (DC), and U.S. territories.[†] BRFSS collects fall-related data from respondents aged ≥ 45 years using the question, “In the past 12 months, how many times have you fallen?” Responses ranged from zero to 76 falls. A dichotomous variable was created to calculate the percentage of adults aged ≥ 65 years residing in the 50 states and DC who reported one or more fall. Accounting for complex survey design, age-adjusted percentages and 95% CIs were estimated using SAS-callable SUDAAN (version 11; RTI International). Respondents with missing values or responses of “Don’t know/Not sure” or “Refused” for falls were excluded (8,297), resulting in an analytic sample size of 127,724. NVSS extracts data from death certificates filed in the 50 states and DC. CDC WONDER was used to access 2021 NVSS data to produce age-adjusted death rates and 95% CIs.[§] Falls were identified as the underlying cause of death using *International Classification of Diseases, Tenth Revision* codes W00–W19.

Age-adjusted percentages and death rates were calculated using the direct method and 2000 U.S. Census Bureau standard population.[¶] Statistical comparisons between percentages were made using two sample t-tests as appropriate for complex survey designs such as BRFSS. Death rates were compared using a z-test when counts were > 100 . In addition, for counts < 100 , CIs were compared for overlap; in instances where the

z-test and CI comparison yielded conflicting results, Monte Carlo simulation was employed as a third method of assessing rate differences. Statistical comparisons between national and state estimates were made by removing the state’s estimate from the national estimate to account for nonindependence. P-values < 0.05 were considered statistically significant. This activity was reviewed by CDC and was conducted consistent with applicable federal law and CDC policy.^{**}

Results

In 2020, 14 million (27.6%) older adults reported falling during the previous year (Table 1). A higher percentage of women (28.9%) than men (26.1%) reported one or more falls. Percentages of persons reporting falls were higher among non-Hispanic White and non-Hispanic American Indian or Alaska Native persons than among other racial or ethnic groups. By urban-rural status,^{††} the percentage of older adults reporting falls was higher in noncore counties than in all other counties except small metros.

In 2021, a total of 38,742 (78.0 per 100,000) unintentional fall-related deaths occurred among older adults. The fall-related death rate was higher among men (91.4 per 100,000)

^{**} 45 C.F.R. part 46.102(l)(2), 21 C.F.R. part 56; 42 U.S.C. Sect. 241(d); 5 U.S.C. Sect. 552a; 44 U.S.C. Sect. 3501 et seq.

^{††} Status follows the CDC’s National Center for Health Statistics 2013 Urban-Rural Classification Scheme for Counties. https://www.cdc.gov/nchs/data/series/sr_02/sr02_166.pdf

[†] https://www.cdc.gov/brfss/annual_data/annual_2020.html

[§] <https://wonder.cdc.gov/ucd-icd10.html>

[¶] <https://www.cdc.gov/nchs/data/statnt/statnt20.pdf>

The *MMWR* series of publications is published by the Office of Science, Centers for Disease Control and Prevention (CDC), U.S. Department of Health and Human Services, Atlanta, GA 30329-4027.

Suggested citation: [Author names; first three, then et al., if more than six.] [Report title]. *MMWR Morb Mortal Wkly Rep* 2023;72:[inclusive page numbers].

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TABLE 1. Age-adjusted* percentage of adults aged ≥65 years reporting one or more unintentional falls in the past year and age-adjusted unintentional fall-related death† rate among adults aged ≥65 years, by demographic characteristics — Behavioral Risk Factor Surveillance System, 2020 and National Vital Statistics System, 2021, United States

Characteristic	No. reporting ≥1 fall [§]	Age-adjusted % reporting ≥1 fall (95% CI)	No. of deaths	Age-adjusted fall-related death* (95% CI)
Total	14,058,840	27.6 (27.0–28.2)	38,742	78.0 (77.2–78.8)
Sex				
Men	5,825,344	26.1 (25.2–27.0)	18,614	91.4 (90.1–92.7)
Women	8,233,496	28.9 (28.1–29.8)	20,128	68.3 (67.3–69.2)
Age group, yrs				
65–74	7,765,341	25.6 (24.9–26.4)	6,409	19.0 (18.6–19.5)
75–84	4,731,620	28.6 (27.5–29.8)	12,136	74.9 (73.6–76.2)
≥85	1,561,879	32.9 (31.0–34.9)	20,197	338.0 (333.3–342.6)
Race and ethnicity[¶]				
American Indian or Alaska Native	153,540	35.6 (28.9–42.3)	155	57.3 (48.1–66.5)
Asian	146,878	14.5 (9.8–19.2)	1058	43.7 (41.1–46.4)
Black or African American	1,100,915	22.6 (20.5–24.6)	1,572	35.1 (33.3–36.8)
Native Hawaiian or other Pacific Islander	9,373	21.6 (7.6–35.6)	28	47.1 (31.0–68.5)
White	11,244,263	28.8 (28.2–29.5)	33,915	89.4 (88.4–90.3)
Hispanic or Latino	968,611	24.3 (21.0–27.5)	1,875	43.1 (41.1–45.1)
Multiple races/Other race	193,665	26.1 (22.3–29.8)	94	23.6 (19.0–28.9)
Urban/Rural status**				
Large central metro	3,451,480	25.8 (24.2–27.4)	9,005	60.4 (59.2–61.7) ^{††}
Large fringe metro	3,379,369	27.2 (26.0–28.4)	9,714	69.9 (68.5–71.3) ^{††}
Medium metro	2,994,019	27.4 (26.3–28.5)	9,362	76.9 (75.4–78.5) ^{††}
Small metro	1,486,869	29.5 (27.9–31.0)	4,084	73.3 (71.0–75.5) ^{††}
Micropolitan (nonmetropolitan)	1,427,693	28.7 (27.5–29.8)	3,878	73.4 (71.1–75.7) ^{††}
Noncore (nonmetropolitan)	1,319,411	31.4 (30.0–32.8)	2,699	67.0 (64.4–69.5) ^{††}

* Percentages and rates were standardized to the 2000 U.S. Census Bureau standard population with age groups 65–74, 75–84, and ≥85 years using the direct method.

† *International Classification of Diseases, Tenth Revision* codes W00–W19 were used to identify an unintentional fall as the underlying cause of death.

§ Nationally representative weighted number of adults aged ≥65 years reporting at least one fall in the previous year.

¶ Persons of Hispanic or Latino (Hispanic) origin might be of any race but are categorized as Hispanic; all racial groups are non-Hispanic.

** Status follows CDC's National Center for Health Statistics 2013 Urban-Rural Classification Scheme for counties. https://www.cdc.gov/nchs/data/series/sr_02/sr02_166.pdf

†† The 2021 death rates by urban-rural continuum were crude rates because age-adjusted rates are currently not available in CDC WONDER. <https://wonder.cdc.gov/wonder/help/ucd-expanded.html#Constraints-Rates>

than among women (68.3). Death rates were higher among non-Hispanic White and non-Hispanic American Indian or Alaska Native persons than among other racial and ethnic groups. Crude^{§§} death rates were higher in medium metro counties than in all other counties.

State-specific age-adjusted percentages of older adults reporting falls in 2020 ranged from 19.9% in Illinois to 38.0% in Alaska (Figure) and were significantly higher than the national estimate of 27.6% in 18 states (Table 2). Percentages were significantly higher than the national percentage in approximately one half of Western and Midwestern states and one quarter of Northeastern and Southern states and DC. The percentage of women reporting falls was significantly higher than that for men in five states.

The 2021 age-adjusted fall-related death rates ranged from 30.7 per 100,000 older adults in Alabama to 176.5 in Wisconsin (Figure) and were significantly higher than the national estimate (78.0) in 26 states (Table 2). Rates were

§§ 2021 death rates by urban-rural continuum were crude rates because age-adjusted rates are currently not available in CDC WONDER. <https://wonder.cdc.gov/wonder/help/ucd-expanded.html#Constraints-Rates>

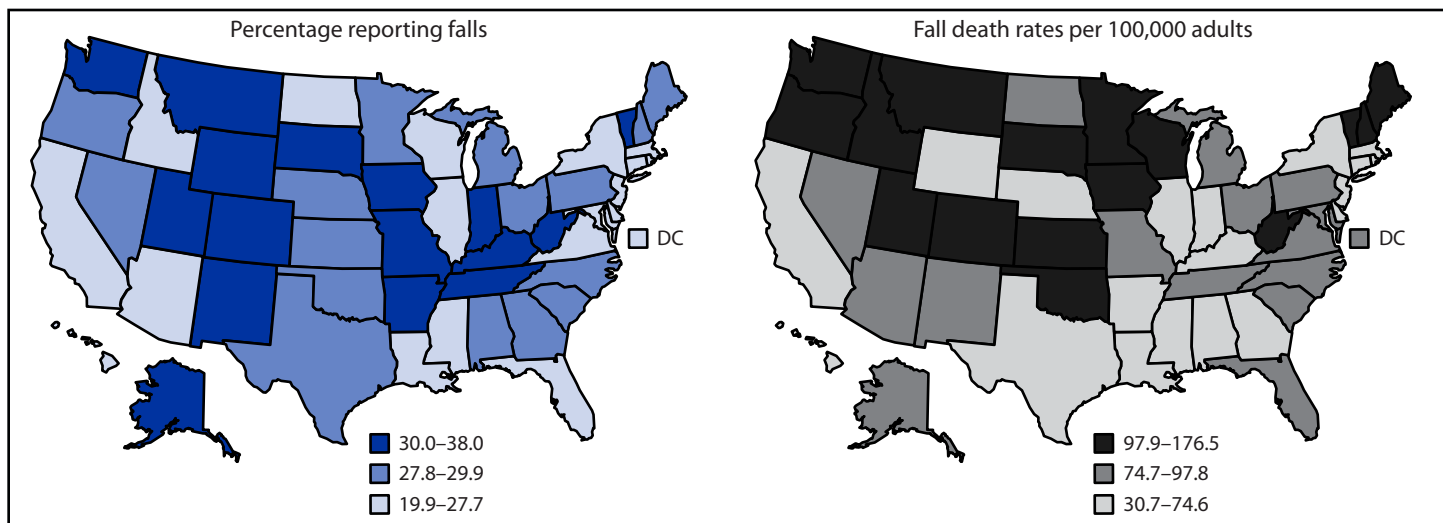
significantly higher than the national estimate in approximately 60% of Western, Midwestern, and Northeastern states and 30% of southern states and DC. Age-adjusted death rates were significantly higher among men than among women in 34 states (Table 2).

Discussion

In 2020, 14 million older adults in the United States reported falling, and in 2021, a total of 38,742 died from falls. Nationally, and in states where there were statistically significant sex-specific differences, the percentages older adults reported nonfatal falls were higher among women than among men, whereas fall-related death rates were higher among men than among women.

Similar sex differences in nonfatal and fatal falls were observed in previous years (2,3). However, the reasons for such variation are not fully understood. Possible explanations include differences in attitudes toward fall prevention and circumstances leading to falls or fall injuries. Previous studies suggest that men might be less receptive than women to fall prevention messages, and less likely to participate in fall

FIGURE. Age-adjusted* percentage† of adults aged ≥65 years reporting one or more unintentional falls during the past year and age-adjusted unintentional fall-related death§ rate among adults aged ≥65 years, by state — Behavioral Risk Factor Surveillance System, 2020 and National Vital Statistics System, 2021, United States



Abbreviations: DC = District of Columbia; ICD-10 = *International Classification of Diseases, Tenth Revision*.
 * Percentages and rates were standardized to the 2000 U.S. Census Bureau standard population with age groups 65–74, 75–84, and ≥85 years using the direct method.
 † Percentages and rates were categorized by tertiles into three categories.
 § ICD-10 codes W00–W19 were used to identify unintentional fall as an underlying cause of death.

TABLE 2. Age-adjusted* percentage of adults aged ≥65 years reporting one or more unintentional falls in the past year and age-adjusted unintentional fall-related death† rate among adults aged ≥65 years, by sex, U.S. Census Bureau region, and state — Behavioral Risk Factor Surveillance System, 2020 and National Vital Statistics System, 2021, United States

Jurisdiction	Age-adjusted % reporting ≥1 fall (95% CI)			Age-adjusted fall-related death rate* (95% CI)		
	Women	Men	Overall	Women	Men	Overall
Overall	28.9 (28.1–29.8)§	26.1 (25.2–27.0)§	27.6 (27.0–28.2)	68.3 (67.3–69.2)§	91.4 (90.1–92.7)§	78.0 (77.2–78.8)
U.S. Census Bureau Northeast Census Region						
Overall	27.1 (25.5–28.6)¶	25.3 (23.5–27.0)¶	26.2 (25.0–27.3)¶	58.0 (56.1–60.0)§,¶	84.9 (81.9–87.9)§,¶	68.9 (67.2–70.5)¶
Connecticut	22.3 (19.3–25.4)¶	21.3 (17.8–24.9)¶	21.8 (19.5–24.1)¶	57.8 (50.1–65.5)§,¶	96.8 (84.3–109.2)§	73.5 (66.8–80.3)
Maine	30.0 (27.5–32.5)	29.4 (26.4–32.4)**	29.6 (27.7–31.5)**	129.0 (110.7–147.2)**	124.0 (102.3–145.7)**	128.0 (114.0–142.1)**
Massachusetts	26.8 (23.2–30.4)	25.6 (21.5–29.7)	26.0 (23.3–28.6)	78.9 (72.2–85.5)§,¶	110.1 (100.0–120.1)§,¶	91.0 (85.4–96.6)**
New Hampshire	28.3 (25.4–31.1)	29.5 (25.9–33.0)	28.8 (26.6–31.1)	87.2 (71.6–102.8)§,¶	127.4 (103.9–150.9)§,¶	103.6 (90.3–116.8)**
New Jersey	26.4 (23.3–29.5)	24.5 (21.1–27.9)	25.6 (23.3–27.9)	25.0 (21.7–28.3)§,¶	40.9 (35.6–46.1)§,¶	31.5 (28.6–34.4)¶
New York	26.5 (23.8–29.1)	24.1 (20.9–27.2)	25.3 (23.3–27.3)¶	42.4 (39.6–45.3)§,¶	59.8 (55.6–64.0)§,¶	49.4 (47.0–51.8)¶
Pennsylvania	28.6 (24.1–33.1)	27.0 (22.0–31.9)	27.9 (24.6–31.3)	74.3 (69.8–78.9)§,¶	118.5 (111.4–125.7)§,¶	92.1 (88.2–96.1)**
Rhode Island	28.0 (24.2–31.8)	23.0 (18.9–27.1)	25.8 (23.0–28.6)	114.1 (94.4–133.9)**	133.2 (107.5–163.2)**	121.5 (105.6–137.4)**
Vermont	33.9 (30.1–37.7)§,¶	27.3 (23.7–30.8)§	31.0 (28.3–33.6)**	118.6 (93.9–147.8)	139.7 (106.9–179.5)**	129.0 (107.8–150.2)**
U.S. Census Bureau Midwest Census Region						
Overall	28.0 (26.8–29.1)	27.5 (26.1–28.9)	27.7 (26.8–28.6)	83.0 (80.7–85.2)§,¶	106.6 (103.5–109.8)§,¶	92.9 (91.1–94.7)**
Illinois	20.8 (16.6–25.0)¶	18.8 (13.8–23.9)¶	19.9 (16.7–23.1)¶	50.8 (46.7–54.9)§,¶	78.7 (72.3–85.1)§,¶	62.2 (58.6–65.7)¶
Indiana	31.9 (29.1–34.8)**	29.5 (26.3–32.6)**	30.8 (28.7–32.9)**	46.7 (41.2–52.3)§,¶	76.4 (67.5–85.3)§,¶	58.2 (53.4–63.1)¶
Iowa	30.8 (28.1–33.6)	29.8 (26.7–32.9)**	30.4 (28.3–32.4)**	97.7 (86.8–108.6)**	106.0 (92.1–119.9)**	102.6 (93.9–111.2)**
Kansas	30.9 (28.5–33.3)	29.0 (26.0–31.9)	29.9 (28.1–31.8)**	88.1 (76.8–99.3)§,¶	119.6 (103.7–135.6)§,¶	101.7 (92.3–111.0)**
Michigan	29.5 (26.6–32.5)	29.7 (26.0–33.4)	29.4 (27.1–31.7)	75.7 (70.1–81.2)§,¶	103.4 (95.4–111.5)§,¶	87.2 (82.6–91.9)**
Minnesota	29.4 (27.1–31.7)	28.6 (26.0–31.2)	29.1 (27.4–30.8)	129.8 (119.9–139.7)§,¶	158.4 (145.1–171.8)§,¶	141.8 (133.9–149.8)**
Missouri	31.5 (28.7–34.4)	31.1 (27.5–34.7)**	31.3 (29.0–33.5)**	68.6 (61.8–75.3)§	86.3 (76.9–95.7)§	75.7 (70.2–81.1)
Nebraska	27.7 (25.5–29.9)	27.9 (25.3–30.6)	27.8 (26.1–29.5)	56.1 (45.5–68.6)§	74.9 (60.0–92.4)§,¶	63.4 (54.2–72.5)¶
North Dakota	28.3 (25.0–31.6)§	23.2 (19.6–26.8)§	26.0 (23.6–28.4)	82.0 (62.7–105.4)	103.2 (76.6–136.0)	91.7 (74.7–108.6)
Ohio	28.5 (26.0–31.0)	29.0 (26.1–31.9)	28.5 (26.6–30.4)	81.0 (75.7–86.2)§,¶	98.3 (91.0–105.6)§	88.4 (84.1–92.7)**
South Dakota	31.9 (27.3–36.5)	36.6 (29.9–43.3)**	34.0 (30.0–38.0)**	131.7 (106.9–156.5)**	152.9 (121.6–189.8)**	140.3 (120.5–160.1)**
Wisconsin	27.1 (23.1–31.0)	28.7 (24.0–33.3)	27.5 (24.4–30.5)	168.3 (157.4–179.1)**	184.7 (170.7–198.6)**	176.5 (167.9–185.1)**

See table footnotes on the next page.

TABLE 2. (Continued) Age-adjusted* percentage of adults aged ≥65 years reporting one or more unintentional falls in the past year and age-adjusted unintentional fall-related death† rate among adults aged ≥65 years, by sex, U.S. Census Bureau region, and state — Behavioral Risk Factor Surveillance System, 2020 and National Vital Statistics System, 2021, United States

Jurisdiction	Age-adjusted % reporting ≥1 fall (95% CI)			Age-adjusted fall-related death rate* (95% CI)		
	Women	Men	Overall	Women	Men	Overall
U.S. Census Bureau South Census Region						
Overall	29.6 (28.3–30.8)[§]	25.6 (24.2–27.1)[§]	27.8 (26.8–28.7)	67.2 (65.7–68.8)[§]	90.6 (88.5–92.8)[§]	77.1 (75.8–78.4)
Alabama	29.9 (26.2–33.6)	25.7 (21.5–29.9)	28.1 (25.3–30.8)	26.3 (21.6–31.0) ^{§,¶}	37.3 (30.3–44.2) ^{§,¶}	30.7 (26.8–34.7) [¶]
Arkansas	33.6 (30.4–36.8)**	32.9 (28.9–36.8)**	33.1 (30.7–35.6)**	45.7 (37.6–53.7) [¶]	53.9 (43.3–64.5) [¶]	49.3 (42.8–55.7) [¶]
Delaware	28.1 (23.4–32.8)	23.2 (18.3–28.1)	26.0 (22.6–29.4)	43.4 (31.2–58.9) [¶]	54.2 (38.0–75.1) [¶]	48.2 (38.1–60.2) [¶]
District of Columbia	30.0 (25.0–35.1)	29.8 (24.5–35.1)	29.9 (26.1–33.6)	59.9 (40.4–85.5) [§]	113.5 (78.1–159.4) [§]	80.4 (61.9–102.7)
Florida	27.3 (23.9–30.6) [§]	20.8 (17.1–24.6) ^{§,¶}	24.4 (21.9–26.9) [¶]	77.6 (74.2–81.1) ^{§,***}	99.1 (94.6–103.6) ^{§,***}	87.3 (84.5–90.1)**
Georgia	27.9 (24.6–31.2)	29.3 (25.6–33.1)	28.4 (25.9–30.8)	48.8 (43.8–53.7) ^{§,¶}	73.1 (65.7–80.6) ^{§,¶}	58.8 (54.6–63.0) [¶]
Kentucky	31.3 (27.8–35.8)	30.9 (25.3–36.5)	31.2 (27.7–34.7)**	49.7 (42.7–56.8) ^{§,¶}	76.1 (65.4–86.7) ^{§,¶}	60.6 (54.6–66.6) [¶]
Louisiana	30.7 (26.0–35.4)	27.8 (23.1–32.5)	29.4 (26.0–32.8)	44.9 (38.2–51.6) ^{§,¶}	75.9 (65.1–86.7) ^{§,¶}	57.6 (51.7–63.5) [¶]
Maryland	26.7 (24.1–29.3)	23.2 (20.6–25.8) [¶]	25.1 (23.3–27.0) [¶]	72.1 (65.0–79.2) [§]	100.5 (90.0–111.1) [§]	83.7 (77.7–89.6)
Mississippi	27.8 (25.0–30.6)	25.0 (21.4–28.6)	26.5 (24.3–28.8)	63.4 (53.6–73.3)	73.8 (60.4–87.1) [¶]	67.9 (59.9–75.8) [¶]
North Carolina	30.7 (26.6–34.8)	26.4 (22.2–30.6)	28.9 (25.9–31.9)	85.3 (79.2–91.3) ^{§,***}	111.5 (102.8–120.1) ^{§,***}	95.9 (90.9–100.9)**
Oklahoma	31.3 (27.8–34.7)	27.5 (23.5–31.4)	29.6 (27.0–32.3)	118.4 (106.7–130.1) ^{§,***}	146.7 (131.0–162.5) ^{§,***}	130.6 (121.2–140.1)**
South Carolina	29.5 (25.4–33.6)	27.6 (22.5–32.7)	28.5 (25.3–31.7)	68.1 (60.5–75.7) [§]	92.2 (81.4–103.0) [§]	78.1 (71.9–84.4)
Tennessee	35.0 (30.5–39.4) ^{§,***}	26.5 (21.4–31.5) [§]	31.2 (27.9–34.5)**	74.2 (67.3–81.2) [§]	103.8 (93.6–114.1) ^{§,***}	85.9 (80.1–91.7)**
Texas	30.8 (26.4–35.2)	27.0 (22.3–31.7)	29.0 (25.8–32.3)	57.9 (54.4–61.3) ^{§,¶}	75.1 (70.4–79.8) ^{§,¶}	65.1 (62.3–67.9) [¶]
Virginia	28.0 (25.3–30.7)	24.6 (21.4–27.8)	26.4 (24.3–28.5)	64.7 (58.8–70.6) [§]	100.1 (91.2–109.1) [§]	79.4 (74.4–84.4)
West Virginia	33.1 (29.9–36.3)**	33.1 (29.2–37.0)**	33.1 (30.6–35.6)**	120.3 (104.3–136.3) ^{§,***}	152.1 (130.5–173.6) ^{§,***}	133.7 (120.8–146.6)**
U.S. Census Bureau West Census Region						
Overall	30.4 (27.9–32.9)[§]	26.1 (23.6–28.7)[§]	28.4 (26.6–30.1)	64.3 (62.3–66.3)^{§,¶}	83.9 (81.3–86.6)^{§,¶}	72.8 (71.2–74.4)[¶]
Alaska	40.3 (33.8–46.8)**	35.6 (29.2–42.0)**	38.0 (33.4–42.6)**	78.3 (51.6–113.9)	81.2 (51.5–121.9)	80.1 (59.6–105.3)
Arizona	27.5 (24.1–30.8)	27.0 (23.5–30.5)	27.3 (24.8–29.7)	83.3 (76.2–90.4)**	88.9 (80.8–97.0)	86.1 (80.7–91.4)**
California	30.6 (25.6–35.7) [§]	23.2 (18.0–28.4) [§]	27.1 (23.4–30.7)	34.0 (32.0–36.0) ^{§,¶}	55.6 (52.5–58.7) ^{§,¶}	43.1 (41.3–44.8) [¶]
Colorado	30.0 (27.2–32.9)	31.2 (28.1–34.2)**	30.5 (28.5–32.6)**	117.1 (106.6–127.6) ^{§,***}	150.0 (135.6–164.4) ^{§,***}	130.7 (122.2–139.2)**
Hawaii	22.9 (19.6–26.2) [¶]	19.8 (16.1–23.5) [¶]	21.5 (19.0–24.0) [¶]	34.8 (26.3–45.2) ^{§,¶}	61.4 (47.9–77.4) ^{§,¶}	45.5 (37.6–53.3) [¶]
Idaho	28.2 (24.4–32.0)	25.5 (21.5–29.5)	26.8 (24.1–29.6)	115.4 (97.4–133.4)**	123.0 (102.0–144.0)**	119.7 (106.0–133.5)**
Montana	31.8 (28.6–35.1)	30.0 (26.4–33.5)**	31.0 (28.6–33.4)**	118.3 (96.6–139.9)**	119.4 (95.8–147.1)**	117.8 (101.7–133.9)**
Nevada	29.3 (22.6–36.1)	31.1 (23.8–38.3)	29.9 (24.9–35.0)	63.1 (52.6–73.5) [§]	94.2 (80.0–108.3) [§]	77.3 (68.7–85.9)
New Mexico	33.7 (30.0–37.3)**	33.1 (28.5–37.7)**	33.4 (30.5–36.3)**	88.0 (74.7–101.3)**	94.7 (78.5–110.9)	90.8 (80.5–101.1)**
Oregon	30.5 (26.6–34.4)	26.8 (22.7–31.0)	29.0 (26.1–31.8)	121.5 (110.3–132.7)**	125.1 (111.7–138.5)**	123.8 (115.2–132.4)**
Utah	31.2 (28.3–34.1)	28.8 (25.8–31.8)	30.0 (27.9–32.1)**	99.6 (84.7–114.4) ^{§,***}	127.4 (108.4–146.4) ^{§,***}	112.1 (100.3–124.0)**
Washington	32.6 (29.7–35.5)**	29.8 (26.8–32.8)**	31.4 (29.3–33.5)**	105.4 (97.2–113.7) ^{§,***}	122.8 (112.2–133.4) ^{§,***}	113.4 (106.9–119.9)**
Wyoming	32.4 (28.8–36.1)	30.1 (25.8–34.4)	31.3 (28.6–34.1)**	62.2 (41.7–89.3)	78.4 (52.1–113.3)	70.2 (53.3–90.7)

* Percentages and rates were standardized to the 2000 U.S. Census Bureau Standard population with age groups 65–74, 75–84, and ≥85 years using the direct method.

† *International Classification of Diseases, Tenth Revision* codes W00–W19 were used to identify an unintentional fall as the underlying cause of death.

§ Statistically significant difference between women and men at $p < 0.05$.

¶ Statistically lower than the national estimate at $p < 0.05$.

** Statistically higher than the national estimate at $p < 0.05$.

prevention programs (4). Men are more likely than women to sustain fall-related injuries on ice or snow and while using ladders or other elevation equipment (5). In addition, the modifiable risk factors leading to fall-related injuries might differ between men and women (6).

State differences might be explained by variations in populations at high risk for falls. Because older adult falls have multiple risk factors, research into state-to-state variation in risk factor prevalences (e.g., chronic conditions, disability, and alcohol consumption), access to fall prevention activities and health care, and social determinants of health related to falls could help explain state differences.

In 2020, approximately one in four older adults reported at least one fall. Even in Illinois, the state with the lowest estimate of nonfatal falls, approximately one fifth of older adults

reported falling. The 2020 estimate of nonfatal falls during the first year of the COVID-19 pandemic was similar to that during previous years (3). On average, 100 older adults died every day because of falls in 2021. The 2021 estimate of fatal falls was higher than those during the previous 20 years (7). Age-adjusted death rates have been increasing annually for at least 2 decades (7). A trend analysis using data from 2019 through 2023 (i.e., end of the COVID-19 pandemic as a public health emergency) might help identify whether death rates were affected by the pandemic.

Limitations

The findings in this report are subject to at least six limitations. First, BRFSS data are self-reported and could be subject to recall bias. Second, BRFSS does not include persons in long-term care

Summary**What is already known about this topic?**

Unintentional falls are the leading cause of injury and deaths from injury among adults aged ≥ 65 years (older adults).

What is added by this report?

In 2020, the percentage of older adults who reported falling during the previous year ranged from 19.9% in Illinois to 38.0% in Alaska. In 2021, the unintentional fall-related death rate among older adults ranged from 30.7 per 100,000 population in Alabama to 176.5 in Wisconsin.

What are the implications for public health practice?

Although common, falls among older adults are preventable. Health care providers can talk with patients about their fall risk and how falls can be prevented.

facilities, who are at higher risk for falls. Third, additional differences might not have been identified because of small BRFSS sample sizes after stratification by sex and state. Fourth, the median response rate for the 2020 BRFSS data was 47.9%, however BRFSS data are weighted to adjust for nonresponse bias. Fifth, because the latest fall-related data in BRFSS were from 2020, nonfatal estimates from the same calendar year as the fatal estimates (2021) were not available. Finally, mortality data might be subject to misclassifications of race or ethnicity of the decedent, and might lead to over- or underestimating the rates in some groups.^{¶¶}

Implications for Public Health Practice

CDC's Stopping Elderly Accidents, Deaths and Injuries (STEADI) initiative (<https://www.cdc.gov/steady/about.html>) recommends that health care providers screen older adults for risk of falling, assess those at risk to identify modifiable risk factors, and intervene with effective strategies (e.g., physical therapy, home modification, and medication management) to address each risk factor. Evaluation of STEADI-based fall prevention in New York found that older adults at risk for falls who received strategies to address fall risk factors were less likely to be hospitalized for a fall than were those who did not (8). Health care providers can consider motivational interviewing techniques to understand attitudes toward prevention strategies (9) and inquire about daily activities that can increase their patients' fall risks. Everyone, including state, tribal, and local health departments and organizations working with older adults can help older adults self-screen for their risk of falling, using the online falls free checkup,^{***} and encourage older adults to speak to their health care provider.

^{¶¶} <https://wonder.cdc.gov/wonder/help/ucd-expanded.html>

^{***} <https://www.ncoa.org/article/falls-free-checkup>

Acknowledgments

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All authors have completed and submitted the International Committee of Medical Journal Editors form for disclosure of potential conflicts of interest. No potential conflicts of interest were disclosed.

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