

Melanoma Incidence and Mortality, United States–2012-2016

Invasive melanoma of the skin is the third most common skin cancer type. In 2014, <u>The Surgeon</u> <u>General's Call to Action to Prevent Skin Cancer</u> (Call to Action) was released to raise awareness about skin cancer as a serious public health concern. One of the five goals outlined in the Call to Action was to "strengthen research, surveillance, monitoring, and evaluation related skin cancer prevention," including enhancing understanding of melanoma incidence and death rates.

Incidence

Based on data from 2012 to 2016, about 77,698 new cases of melanoma occurred in the United States each year, including 45,854 among men and 31,845 among women. The overall incidence rate of melanoma was 21.8 per 100,000. The highest incidence rate was among non-Hispanic white males (34.9 per 100,000), and the lowest rate was among black females (0.9 per 100,000) (Table 1).

Table 1. Average Annual Number and Rate ^a of Invasive Melanoma Cases by Sex and Race/Ethnicity, ^b
United States, 2012–2016

Race/Ethnicity	US Population		Male		Female	
	Rate	Count	Rate	Count	Rate	Count
All Races	21.8	77,698	27.9	45,854	17.2	31,845
White	24.9	73,395	31.4	43,561	20.0	29,834
White, Hispanic	4.6	1,591	5.0	733	4.5	858
White, non-Hispanic	28.0	71,801	34.9	42,826	22.8	28,975
Black	1.0	372	1.1	179	0.9	193
American Indian/Alaska Native	5.6	190	7.1	104	4.6	86
Asian/Pacific Islander	1.3	239	1.5	120	1.2	120
Hispanic	4.6	1,725	5.0	794	4.4	931

^a Rates are per 100,000 population and are age adjusted to the 2000 US standard population.

^b Race and ethnicity are not mutually exclusive, except for "White, Hispanic" and "White, non-Hispanic." Counts may not always sum to the total because of rounding and because cases with other or unknown race are included in total.





Mortality

During the same period, about 9,008 people died from melanoma in the United States each year, including 5,930 men and 3,079 women. The overall death rate of melanoma was 2.5 per 100,000. The highest death rate was among non-Hispanic white males (4.7 per 100,000), and the lowest death rate was among black and Asian/Pacific Islander females (0.3 per 100,000) (Table 2).

Table 2. Average Annual Number and Rate^a of Melanoma Deaths by Sex and Race/Ethnicity,^b United States, 2012–2016^c

Race/Ethnicity	US Population		Male		Female	
	Rate	Count	Rate	Count	Rate	Count
All Races	2.5	9,008	3.7	5,930	1.5	3,079
White	2.9	8,805	4.3	5,826	1.8	2,979
White, Hispanic	0.8	233	1.0	138	0.6	95
White, non-Hispanic	3.2	8,556	4.7	5,677	2.0	2,879
Black	0.4	131	0.4	67	0.3	63
American Indian/Alaska Native	0.5	15	0.7	8	0.4	7
Asian/Pacific Islander	0.3	58	0.4	28	0.3	30
Hispanic	0.7	237	0.9	140	0.5	97

^a Rates are per 100,000 population and are age adjusted to the 2000 US standard population.

^b Race and ethnicity are not mutually exclusive, except for "White, Hispanic" and "White, non-Hispanic." Counts may not always sum to the total because of rounding and because cases with other or unknown race are included in total.

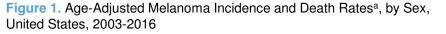
^c Data are from U.S. Cancer Statistics, which includes cancer deaths during 1999–2016; cancer death data for 2017 are available.

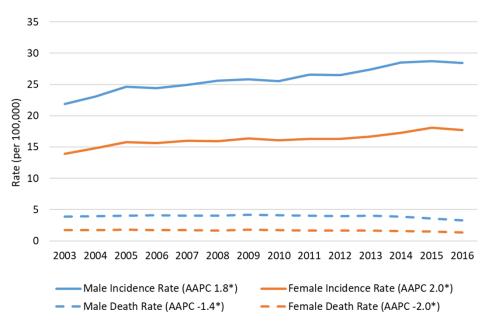
Five-Year Trend

Among both males and females, incidence rates for melanoma continued to increase during 2003 to 2016, whereas death rates recently declined (Figure 1).

During the most recent five years (2012 to2016), incidence rates increased 1.8% per year on average for males and 2.5% per year on average for females.

During 2012 to 2016, death rates decreased 4.9% per year on average for males and 5.0% per year on average for females. Since 2011, the U.S. Food and Drug Administration has approved <u>new treatments</u> for advanced melanoma.





Abbreviation: AAPC, average annual percentage change. AAPCs shown in the figure are during 2003–2016.

^a Rates are per 100,000 population and are age adjusted to the 2000 US standard population. *Denotes statistical significance (P < .05)

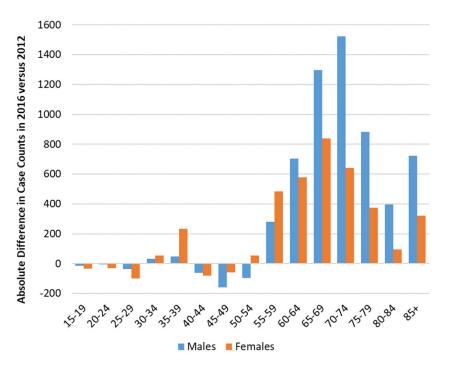
Page 3



Increases in melanoma incidence rates over time have been driven largely by changes in incidence rates among non-Hispanic whites, because this group has the highest overall incidence rates. During the most recent five years of data (2012 to 2016), melanoma incidence rates increased significantly among non-Hispanic white males aged 60 to 64 years and 70 to 74 years, and among non-Hispanic white females aged 50 to 54 years, 60 to 64 years, 65 to 69 years, and 70 to 74 years. Incidence rates did not change significantly during that time period for other age groups among non-Hispanic whites.

Figure 2 shows the absolute difference in melanoma case counts in 2016 versus 2012 among non-Hispanic whites by sex and 5-year age groups. Nearly 9,000 more melanoma cases were diagnosed among non-Hispanic whites in 2016 compared to 2012 (5,511 more cases among non-Hispanic white men and 3,375 more cases among non-Hispanic white women). The increases in absolute case counts were mostly among people who were 55 years old or older.

Figure 2. Absolute Difference in Melanoma Case Counts in 2016 versus 2012 Among Non-Hispanic White Males and Females \geq 15 Years, by Sex and Age Group, United States



Data Sources

Data in this brief come from **U.S. Cancer Statistics** (<u>www.cdc.gov/uscs</u>), the official federal cancer statistics.

U.S. Cancer Statistics incidence data are from populationbased registries that participate in CDC's National Program of Cancer Registries (NPCR) and/or the National Cancer Institute's Surveillance, Epidemiology, and End Results (SEER) Program and meet high-quality data criteria for the November 2018 data submission, covering 100% of the U.S. population.

U.S Cancer Statistics death data are from CDC's National Center for Health Statistics National Vital Statistics System (<u>www.cdc.gov/nchs/nvss/deaths.htm</u>) and cover 100% of U.S. population.

More Information

Skin Cancer <u>www.cdc.gov/cancer/skin</u> Skin Cancer Progress Report <u>www.cdc.gov/cancer/skin/what cdc is doing/</u> progress report.htm

Suggested Citation

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