

facts about: *Skin Cancer*

New York

References

1. This statement is widely accepted, including by the American Cancer Society (ACS), National Cancer Institute, and Centers for Disease Control and Prevention (CDC).³⁻⁵
2. Rogers H.W., Weinstock M.A., Harris A.R., et al. (2010). Incidence estimate of nonmelanoma skin cancer in the United States, 2006. *Arch Dermatol* 146 (3): 283-7, 2010.
3. American Cancer Society. (2013). *Cancer Facts and Figures: 2013*. Retrieved March 6, 2013, from <http://www.cancer.org/acs/groups/content/@epidemiologysurveillance/documents/document/acspc-036845.pdf>
4. National Cancer Institute. (2013). PDQ® Genetics of Skin Cancer. Bethesda, MD: National Cancer Institute. Last modified February 8, 2013. Retrieved March 21, 2013, from <http://cancer.gov/cancertopics/pdq/genetics/skin/HealthProfessional>
5. Centers for Disease Control and Prevention. (2012). Skin Cancer: Skin Cancer Statistics. Retrieved March 1, 2013, from <http://www.cdc.gov/cancer/skin/statistics/index.htm>
6. Saraiya, M., Balluz, L., & Joseph, D.A. (2007). Sunburn Prevalence Among Adults --- United States, 1999, 2003, and 2004. *MMWR Weekly*, 56(21), 524-528. Retrieved March 7, 2013, from <http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5621a2.htm>
7. Elwood, J.M., & Jopson, J. (1997). Melanoma and sun exposure: an overview of published studies. *International Journal of Cancer*, 73, 198-203.
8. Hill, D., White, V., Marks, R., et al. (1992). Melanoma prevention: Behavioral and nonbehavioral factors in sunburn among an Australian urban population. *Prev. Med*, 21, 654-669.
9. Oliveria, S.A., et al. (2006). Sun Exposure and Risk of Melanoma. *Arch Dis Child*, 91, 131-138.
10. Dennis, L.K., VanBeek, M.J., Beane Freeman, L.E., Smith, B.J., Dawson, D.V., and Coughlin, J.A. Sunburns and risk of cutaneous melanoma, does age matter: a comprehensive meta-analysis. *Ann Epidemiol* 2008; 18(8):614-627.
11. Melanoma diagnosis rates are the result of a number of different factors, including race (melanoma affects Caucasians at a much greater rate than other racial groups), type of UV exposure (intermittent versus cumulative exposure), sun protection behaviors in childhood and adulthood, geographic mobility of the population, risk awareness of the population, and geography (e.g., latitude and elevation).
12. National Cancer Institute and Centers for Disease Control and Prevention. (2012). State Cancer Profiles. Incidence data queries. Incidence data based on data from the State's Cancer Registry, the CDC's National Program of Cancer Registries Cancer Surveillance System (NPCR-CSS) January 2012 data submission, and the SEER November 2011 submission. Retrieved March 31, 2013 from <http://statecancerprofiles.cancer.gov/>
13. National Cancer Institute and Centers for Disease Control and Prevention. (2013). State Cancer Profiles. Mortality data queries. Mortality data based on the National Vital Statistics System public use data file. Death rates calculated by the National Cancer Institute using SEER*Stat. Retrieved March 31, 2013, from <http://statecancerprofiles.cancer.gov/>

14. Mariotto AB, Yabroff KR, Shao Y, Feuer EJ, and Brown ML. Projections of the Cost of Cancer Care in the United States: 2010-2020. Jan 19, 2011, JNCI, Vol. 103, No. 2. Retrieved March 1, 2013, from <http://costprojections.cancer.gov/>
15. Stern, R.S. (2010). Prevalence of a History of Skin Cancer in 2007: Results of an Incidence-Based Model. *Arch Dermatol*. Mar 2010; 146(3):279-282. Retrieved December 18, 2013, from <http://archderm.jamanetwork.com/article.aspx?articleid=209761>
16. Howlader N., Noone A.M., Krapcho M., Neyman N., Aminou R., Altekruse S.F., Kosary C.L., Ruhl J., Tatalovich Z., Cho H., Mariotto A., Eisner M.P., Lewis D.R., Chen H.S., Feuer E.J., Cronin K.A. SEER Cancer Statistics Review, 1975-2009 (Vintage 2009 Populations), National Cancer Institute. Bethesda, MD, http://seer.cancer.gov/csr/1975_2009_pops09/, based on November 2011 SEER data submission, posted to the SEER web site, 2012.
17. Rigel, D.S. (2010). Epidemiology of Melanoma. *Seminars in Cutaneous Medicine and Surgery*, 29:4, 204-209.
18. Robinson, J.K. (2005). Sun Exposure, Sun Protection, and Vitamin D. *Journal of the American Medical Association*, 294, 1541-1543.
19. U.S. Department of Health and Human Services. (2011). Report on Carcinogens, Twelfth Edition. U.S. Department of Health and Human Services, Public Health Service, National Toxicology Program. Retrieved May 8, 2013, from <http://ntp.niehs.nih.gov/?objectid=03C9AF75-E1BF-FF40-DBA9EC0928DF8B15>
20. Armstrong, B.K., & Kricger, A. (2001). The epidemiology of UV induced skin cancer. *Journal of Photochemistry and Photobiology B*, 63(1-3), 8-18.
21. Goldstein, A.M., & Tucker, M.A. (1995). Genetic epidemiology of familial melanoma. *Dermatologic Clinics*, 13, 605-612.
22. Scotto, J., Fears, T.R., Kraemer, K.H., et al. (1996). Nonmelanoma skin cancer. In: D. Schottenfeld & J.F. Fraumeni (Eds.), *Cancer epidemiology and prevention* (2 ed., pp. 1313-1330). New York: Oxford University Press.
23. Armstrong, B.K., & English, D.R. (1996). Cutaneous malignant melanoma. In: D. Schottenfeld & J.F. Fraumeni (Eds.), *Cancer epidemiology and prevention* (2 ed., pp. 1282-1312). New York: Oxford University Press.
24. U.S. Environmental Protection Agency. (2010). Sun Safety Action Steps. Retrieved May 8, 2013, from <http://www.epa.gov/sunwise/actionsteps.html>
25. American Academy of Dermatology. (2013). How do I prevent skin cancer? Retrieved May 8, 2013, from <http://www.aad.org/spot-skin-cancer/understanding-skin-cancer/how-do-i-prevent-skin-cancer>
26. Randomized trials are required to provide conclusive evidence that melanoma screening saves lives. In the absence of such trials, however, it is well-accepted that finding melanoma early (at less than 1 mm) is associated with five-year survival rates ranging from 95% to 100% and that a combination of education, awareness, skin self-examination, and physician examination have all been instrumental in the shift toward earlier detected lesions.²⁷⁻³⁰ Most recently, a large surveillance program was associated with a steady and sustainable reduction in the incidence of thick melanoma resulting in a statistically significant decrease in mortality that persisted for at least three years.³¹ Modeling studies have found that one-time melanoma screening of the general population older than 50 years is cost-effective compared with other cancer screening tests.³²

27. Epstein, D.S., Lange, J.R., Gruber, S.B., et al. (1999). Is physician detection associated with thinner melanomas? *Journal of the American Medical Association*, 281, 640-643.
28. Berwick, M., Begg, C.B., Fine, J.A., Roush, G.C., & Barnhill, R.L. (1996). Screening for cutaneous melanoma by skin self-examination. *Journal of the National Cancer Institute*, 88, 17-23.
29. Geller, A.C., Swetter, S.M., Demierre, M.F., Brooks, K.R., & Yaroch, A. (2007). Trends, Screening and Early Detection for Melanoma. Current Status (2000-2006) and Future Directions (CME article). *Journal of the American Academy of Dermatology*, 57, 555-572.
30. Koh, H.K. (1991). Cutaneous melanoma. *New England Journal of Medicine*, 325, 171-182.
31. Schneider, J.S., Moore, D.H., & Mendelsohn, M.L. (2008). Screening program reduced melanoma mortality at the Lawrence Livermore National Laboratory, 1984 to 1996. *Journal of the American Academy of Dermatology*, 58, 741-749.
32. Losina, E., Walensky, R.P., Geller, A.C., et al. (2007). Visual screening for malignant melanoma: a cost-effectiveness analysis. *Archives of Dermatology*, 143, 21-28.
33. As recommended by the American Cancer Society, the American Academy of Dermatology and a National Institutes of Health Consensus Panel.^{3, 34-37}
34. American Academy of Dermatology. (2013). Skin Cancer. Retrieved May 8, 2013, from http://www.aad.org/public/publications/pamphlets/sun_skin.html
35. Drake, L.A., Ceilley, R.I., & Cornelison, R.L. (1992). Guidelines of care for nevi I (nevocellular nevi and seborrheic keratoses). Committee on Guidelines of Care. Task Force on Nevocellular Nevi. *Journal of the American Academy of Dermatology*, 26, 629-631.
36. Drake, L.A., Ceilley, R.I., Cornelison, R.L., et al. (1992). Guidelines of care for basal cell carcinoma. The American Academy of Dermatology Committee on Guidelines of Care. *Journal of the American Academy of Dermatology*, 26, 117-120.
37. NIH Consensus conference. (1992). Diagnosis and treatment of early melanoma. *Journal of the American Medical Association*, 268, 1314-1319.
38. These sun safety behaviors include “covering up” or wearing protective clothing.
39. Centers for Disease Control and Prevention. (n.d.) Skin Cancer. Guide to Community Preventive Services. Preventing skin cancer: education and policy approaches. Retrieved May 8, 2013, from <http://www.thecommunityguide.org/cancer/skin/education-policy/index.html>
40. Data collected through student self-reporting forms the basis for this evaluation of the SunWise Program. Verbal reports are used most frequently in sun protection studies; for example, 76 of 81 skin cancer prevention studies cited in the CDC’s Guide to Community Services evidence review relied on verbal reports.³⁹
41. Kyle, J.W., Hammitt, J.K., Lim, H.W., Geller, A.C., Hall-Jordan, L.H., Maibach, E.W., De Fabo, E.C., & Wagner, M.C. (2008). Economic Evaluation of the U.S. Environmental Protection Agency’s SunWise Program: Sun Protection Education for Young Children. *Pediatrics*, 121(5), e1074-e1084.