

Division of Cancer Prevention and Control

Facts

FROM THE DIVISION OF CANCER PREVENTION AND CONTROL

2008 / 2009

The Centers for Disease Control and Prevention (CDC) is a leader in nationwide efforts to ease the burden of cancer. Through the Division of Cancer Prevention and Control (DCPC), CDC works with national cancer organizations, state health agencies, and other key groups to develop, implement, and promote effective strategies for preventing and controlling cancer.

The Burden of Cancer

The cancer community has made extraordinary progress during the past two decades in developing and using cancer prevention strategies, early detection interventions, and cancer treatments. Nonetheless, every year cancer claims the lives of more than half a million Americans.¹ Cancer is the second leading cause of death in the United States, exceeded only by heart disease.¹ One of every four deaths in the United States is due to cancer.¹

According to the *U.S. Cancer Statistics: 2005 Incidence and Mortality* report, 559,303 people—about 1,500 people a day—died of cancer in the United States in 2005.*²

That same year, 1,340,713 Americans were diagnosed with cancer.² This number excludes diagnoses of pre-invasive cancer (except for urinary bladder cancer) and the approximately 1 million cases of nonmelanoma skin cancer that were diagnosed in the United States in 2005.^{2,3}

In addition to its devastating personal impact, the financial cost of cancer is overwhelming. According to the National Institutes of Health, cancer cost this country an estimated \$219 billion in 2007, including nearly \$130 billion for lost productivity and \$89 billion in direct medical costs.⁴

** Incidence counts cover approximately 96% of the U.S. population. Death counts cover 100% of the U.S. population. Use caution in comparing incidence and death counts.*

Ongoing Work

Monitoring

CDC provides funding and assistance to help states, tribes/tribal organizations, and territories collect data on cancer incidence and deaths, cancer risk factors, and the use of cancer screening tests. Public health professionals use the data to identify and track cancer trends, strengthen cancer prevention and control activities, and prioritize the use of resources.

Conducting Research and Evaluation

CDC conducts studies and supports research designed to help the cancer community better understand the factors that increase cancer risk and identify opportunities to prevent cancer. CDC also evaluates the feasibility and effectiveness of strategies designed to prevent and control cancer.

Building Capacity and Partnerships

CDC works with many partners to translate research into public health programs, practices, and services. To ensure that innovations reach the people who most need them,

CDC helps states, tribes/tribal organizations, and territories build the capacity to apply scientific advances to the development of strong cancer control programs.

Educating

CDC develops communication campaigns and materials designed to teach health professionals, policy makers, the media, and the public about cancer prevention and control.



CDC's Cancer-Related Programs

The following programs and initiatives illustrate CDC's comprehensive approaches to preventing and controlling cancer.

Since 1991, the **National Breast and Cervical Cancer Early Detection Program (NBCCEDP)** has provided more than 7.8 million screening and diagnostic exams for breast and cervical cancer to more than 3.2 million low-income women who had little or no health insurance. The NBCCEDP supports early detection programs in all 50 states, the District of Columbia, 12 American Indian/Alaska Native organizations, and 5 U.S. territories. To increase screening rates, the program also supports education and outreach activities, case management services, and research.

The **National Comprehensive Cancer Control Program (NCCCP)** funds states, tribes/tribal organizations, and territories to establish coalitions, assess the burden of cancer, determine priorities, and develop and implement Comprehensive Cancer Control (CCC) programs. CCC is an integrated and coordinated approach to reducing cancer incidence, morbidity, and mortality through prevention, early detection, treatment, rehabilitation, and palliation. During fiscal year 2007, CDC supported CCC programs in all 50 states, the District of Columbia, 7 tribal groups, and 7 U.S. Associated Pacific Islands/territories.

The **National Program of Cancer Registries (NPCR)** collects data on cancer occurrence; the type, extent, and location of cancers; and the type of initial treatment. In 2008, the NPCR appropriated \$46 million to support central cancer registries in 45 states, the District of Columbia, Puerto Rico, and U.S. Pacific Island Jurisdictions. In addition, CDC and the National Cancer Institute's Surveillance, Epidemiology, and End Results (SEER) Program, in collaboration with the North American Association of Central Cancer Registries (NAACCR), publish annual cancer incidence and death data in the *United States Cancer Statistics: Incidence and Mortality* reports.

The **Cancer Prevention and Control Research Network (CPCRN)** was established under the CDC-funded Prevention Research Center program to support academic and community partnerships for cancer prevention and control intervention and dissemination research. Its mission is to accelerate the adoption of evidence-based cancer prevention and control in communities through advancing the *science* of cancer prevention and control and influencing public health and primary care *practice*. In particular, it is engaged in enhancing large-scale efforts to reach underserved populations and reduce their burden of cancer.

Through **colorectal cancer prevention and control initiatives**, CDC and its partners promote colorectal



cancer screening nationwide. CDC supports educational and research initiatives including the *Screen for Life: National Colorectal Cancer Action Campaign*, a screening demonstration program, and scientific studies designed to determine the barriers to colorectal cancer screening. The *Screen for Life* campaign educates Americans about the importance of regular screening beginning at age 50. Also, CDC provides funding to 17 state programs to implement specific colorectal cancer strategies identified in their statewide cancer control plans through the NCCCP.

Through **hematologic cancer initiatives**, CDC supports efforts to improve the awareness, diagnosis, understanding, and treatment of hematologic cancers (cancers of the blood and bone marrow). These efforts offer health care providers the latest information about how best to recognize the signs and symptoms of hematologic cancers and how to treat these diseases. In 2008, CDC funded nine grantees to help increase awareness about hematologic cancers and connect the public, people living with hematologic cancers, and their friends and families with resources for understanding the disease, asking the right questions about diagnosis, treatment, and survivorship, receiving optimal treatment, and finding community support networks.

Through **lung cancer initiatives**, CDC is working to prevent and control lung cancer by 1) collecting critical data about diagnoses and deaths from lung cancers in the United States; 2) supporting programs in states, tribes/tribal organizations, and U.S. territories that strive to prevent and control tobacco use and promote a healthy diet; 3) implementing public health interventions and countermarketing strategies to reduce smoking; and 4) maintaining a lung cancer website (www.cdc.gov/cancer/lung/).

Through **ovarian cancer initiatives**, CDC works with academic and medical institutions, state health departments, and advocacy groups to conduct research to improve early

detection and treatment of ovarian cancer. Cancer registries in Maryland, California, and New York collaborate with the NPCR to evaluate care and outcomes for patients with ovarian cancer. Additionally, CDC's NCCCP funds ovarian cancer projects in California, Florida, Michigan, New York, Pennsylvania, Texas, and West Virginia.

Through **gynecologic cancer initiatives**, CDC is developing a national gynecological cancer campaign to raise awareness and increase knowledge for consumers, health care providers, and program planners about health issues and concerns related to the five main types of gynecologic cancers: cervical, ovarian, uterine, vaginal, and vulvar. In addition, CDC is developing educational materials that convey the messages that many cancers may be curable if detected early and treated appropriately. In collaboration with its partners, CDC is educating women and health care professionals about the signs and symptoms of specific gynecologic cancers, screening tests, risk factors, and prevention strategies.

Through **prostate cancer initiatives**, CDC provides the public, physicians, and policy makers with the information they need to make informed decisions about the potential risks and benefits of prostate cancer screening and to improve quality of life after diagnosis. CDC materials include three versions of *Prostate Cancer Screening: A Decision Guide*—one for all men, another for African American men, and the third in Spanish for Hispanic men.

Through **skin cancer primary prevention and education initiatives**, CDC conducts monitoring, research, education, and interventions for skin cancer. Based on the recommendations of the *Guidelines for School Programs to Prevent Skin Cancer*, CDC worked with education agencies and CCC partners to pilot test strategies to reduce skin cancer risks among students in schools in Colorado, Michigan, and North Carolina. CDC also works with partners on national surveys, such as the Youth Risk Behavior Surveillance System and National Health Interview Survey, to assess the prevalence of sunburn and sun-protective behaviors.

Through **cancer survivorship initiatives**, CDC is working with national, state, tribal groups, territories, and local partners to create and implement successful strategies to help the millions of people in the United States who live with, through, and beyond cancer. As the population of cancer survivors grows, the public health community is considering ways to address the issues related to survivorship. CDC and the Lance Armstrong Foundation worked together to develop a publication entitled *A National Action Plan for Cancer Survivorship: Advancing Public Health Strategies*, which informs policy makers, survivors, health care providers, and the general public about cancer survivorship.



Future Directions

To further its overarching goal of ensuring that people are healthy in every stage of life, CDC will continue to:

- Collaborate with partners, policy makers, and other individuals and groups working to ease the burden of cancer in the United States and abroad.
- Expand the use of information technology in cancer surveillance, particularly in cancer registries.
- Improve the cost-effectiveness of the National Breast and Cervical Cancer Early Detection Program.
- Expand CDC's role in addressing public health strategies to increase survivorship in underserved populations and improve end-of-life support for cancer patients and their families, friends, and caregivers.
- Define the proper role for management of chronic diseases, including cancer, in the case of catastrophic disaster.

References

1. Kung H-C, Hoyert DL, Xu J, Murphy SL. Deaths: Final data for 2005. *National Vital Statistics Reports* 2008;56(10). Available at www.cdc.gov/nchs/data/nvsr/nvsr56/nvsr56_10.pdf.
2. U.S. Cancer Statistics Working Group. *United States Cancer Statistics: 1999–2005 Incidence and Mortality Web-based Report*. Atlanta, GA: Department of Health and Human Services, Centers for Disease Control and Prevention; Washington, DC: National Cancer Institute; 2009. Available at www.cdc.gov/uscs.
3. American Cancer Society. *Cancer Facts and Figures 2008*. Atlanta, GA: American Cancer Society; 2008.
4. National Heart, Lung and Blood Institute. *Fact Book Fiscal Year 2006*. Bethesda, MD: National Heart, Lung and Blood Institute; 2007.

Contact Information

Centers for Disease Control and Prevention

National Center for Chronic Disease Prevention and Health Promotion

Division of Cancer Prevention and Control

Mail Stop K-64

4770 Buford Highway, NE

Atlanta, GA 30341-3717

1 (800) CDC-INFO ■ Fax (770) 488-4760
CDCINFO@cdc.gov ■ www.cdc.gov/cancer