

Investment in research saves lives and money



facts about:

Cancer

"If you think research is expensive, try disease."
— Mary Lasker 1901–1994

Today:

- Cancer is the leading cause of death for Americans under age 85 and the second leading cause of death over all.
- In 2009, approximately 1.5 million Americans will be diagnosed with cancer.
- More than 1,500 Americans die every day from cancer.
- About 77 percent of all cancers are diagnosed in persons age 55 and older.
- In the U.S., men have approximately a 1 in 2 lifetime risk of developing cancer and women have a 1 in 3 lifetime risk.

SOURCES: AMERICAN CANCER SOCIETY (WWW.CANCER.ORG)
CENTERS FOR DISEASE CONTROL AND PREVENTION (WWW.CDC.GOV)
NATIONAL CANCER INSTITUTE (WWW.CANCER.GOV)

The Cost:

- The National Institutes of Health estimates the 2008 overall annual costs of cancer to be \$228.1 billion: \$93.2 billion for direct medical costs; \$135.9 billion for decreased productivity and premature death.*
- The cost of decreased productivity due to cancer deaths amounts to approximately 1% of the U.S. gross domestic product.**

SOURCES: *AMERICAN CANCER SOCIETY. CANCER FACTS & FIGURES 2009.
**BRADLEY, C. ET AL. JOURNAL OF THE NATIONAL CANCER INSTITUTE. 2008; 100:1763-1779

SAVING LIVES
SAVING MONEY

HOW RESEARCH SAVES LIVES:

- Due to improved prevention, early detection and treatment, cancer death rates decreased 19.2% for men and 11.4% for women since the early 1990s, resulting in the avoidance of over a half million deaths.*
- Research has shown that human papillomavirus (HPV) vaccines protect against persistent infection by the two types of HPV that cause approximately 70% of cervical cancers.**
- New cases of and deaths from lung cancer in men have decreased 1.9% over two decades, which correlates with a decline in the number of smokers.***

SOURCES: *JEMAL, A., ET AL. CA CANCER J CLIN 2009;59:225-249.
**CENTERS FOR DISEASE CONTROL AND PREVENTION (WWW.CDC.GOV/VACCINES)
***JEMAL, A., ET AL. JOURNAL OF THE NATIONAL CANCER INSTITUTE. 2008;100(23):1672-1694.

HOW RESEARCH SAVES MONEY:

- A 1% reduction in deaths from cancer would be worth \$500 billion, about 2.5 times the annual cost of the disease in the U.S.*
- Reducing lung, colorectal, breast, leukemia, pancreatic and brain cancer deaths by 1% would save the U.S. \$814 million per year in lost productivity.**

SOURCES: *MURPHY, K.M. AND TOPEL, R.H. JOURNAL OF POLITICAL ECONOMY. 2006; 114: 871-904.
**BRADLEY, C., ET AL. JOURNAL OF THE NATIONAL CANCER INSTITUTE. 2008; 100:1763-1779.

survivor



NAME: KATE THAXTON
AGE: 37
DISEASE: PANCREATIC CANCER
STAGE: 4

When Kate Thaxton of Boyds, Maryland had a slight ache in her side, she assumed she had overexerted herself by working-out six days a week. Her doctor thought it may be indigestion. After Kate took a prescribed antacid for three days and the pain would not go away, she had an ultrasound. That led to a CT scan and ultimately a cancer specialist.

At age 34, Kate was diagnosed with stage 4 pancreatic cancer that had spread to her liver, lungs and lymph nodes. Pancreatic cancer is one of the deadliest cancers, and there is no cure. Thanks to a few different treatments, Kate has lived with the disease for three years, far surpassing the average survival of less than 12 months. Today, her tumors have stopped growing and only remain in her pancreas and lungs.

Kate was diagnosed within two weeks of her initial visit to the doctor, much faster than many others with pancreatic cancer. She hopes research can provide new ways to diagnose pancreatic cancer at an earlier stage. "Screenings and diagnostic tests have helped survival rates increase by leaps and bounds for other cancers, and we need that for pancreatic cancer."

Kate works with the Pancreatic Cancer Action Network to raise awareness and show others that there are people behind the admittedly dismal statistics for pancreatic cancer. "I remind myself that they are just statistics and they don't necessarily apply to me."

facts about: } Cancer

Hope for the Future:

- ⚡ Researchers have derived natural killer cells from human embryonic stem cells that are highly effective in killing leukemia, breast cancer, prostate cancer, testicular cancer and brain tumor cells in laboratory models. Clinical trials for this potential next generation of cancer therapy could start in two years.*
- ⚡ NIH-funded researchers are using nanotechnology to develop probes that could pinpoint the location of tumors and deliver drugs directly to cancer cells.**
- ⚡ The cancer Biomedical Informatics Grid® (caBIG®) initiative aims to transform cancer research. By connecting patients, health care providers and researchers, caBIG® will simplify collaboration, give patients access to new technology faster and ultimately realize the potential of personalized medicine.***

SOURCE: * WOLL, P.S., ET AL. BLOOD. 2009; 113: 6094-6101.

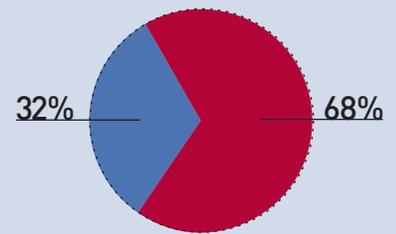
**WANG, C., ET AL. ANGEWANDTE CHEMIE. 2009; 121: 2797-2801.

***NATIONAL CANCER INSTITUTE (CABIG.NCI.NIH.GOV)

Americans Willing to Pay More for Research to Improve Health

Would you be willing to pay \$1 per week more in taxes if you were certain that all of the money would be spent for additional research to improve health, or not?

- Willing to pay more
- Not willing to pay more

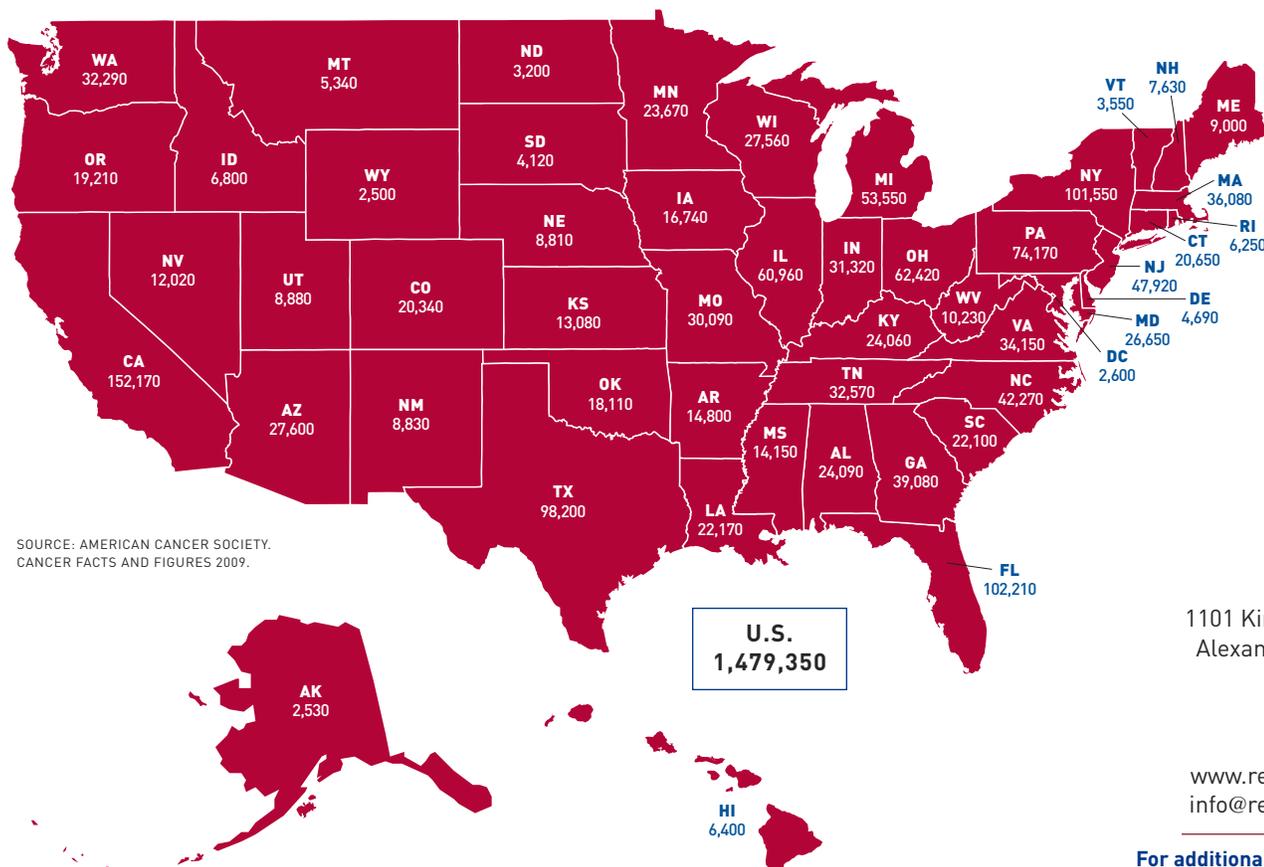


SOURCE: YOUR CONGRESS—YOUR HEALTH SURVEY
CHARLTON RESEARCH COMPANY FOR RESEARCH!AMERICA,
JUNE 2009

The Bottom Line:

Today's research is the foundation of tomorrow's cancer cures. Investing in research will provide better treatments, prevent disease and disability, and ultimately, lead to longer, more productive lives for more Americans.

Estimated Number of New Cancer Cases for 2009



SOURCE: AMERICAN CANCER SOCIETY.
CANCER FACTS AND FIGURES 2009.

Research!America
1101 King Street, Suite 520
Alexandria, Virginia 22314
703.739.2577
1.800.366.CURE
Fax 703.739.2372
www.researchamerica.org
info@researchamerica.org

For additional information, contact
the National Cancer Institute at 1.800.4-CANCER; www.cancer.gov
OR the American Cancer Society at 1.800.ACS.2345; www.cancer.org.

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