

# Division of Cancer Control and Population Sciences

NCI's bridge to public health  
research, practice, and policy

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Director, DCCPS

December 2, 2014

Joint NCAB/BSA Meeting

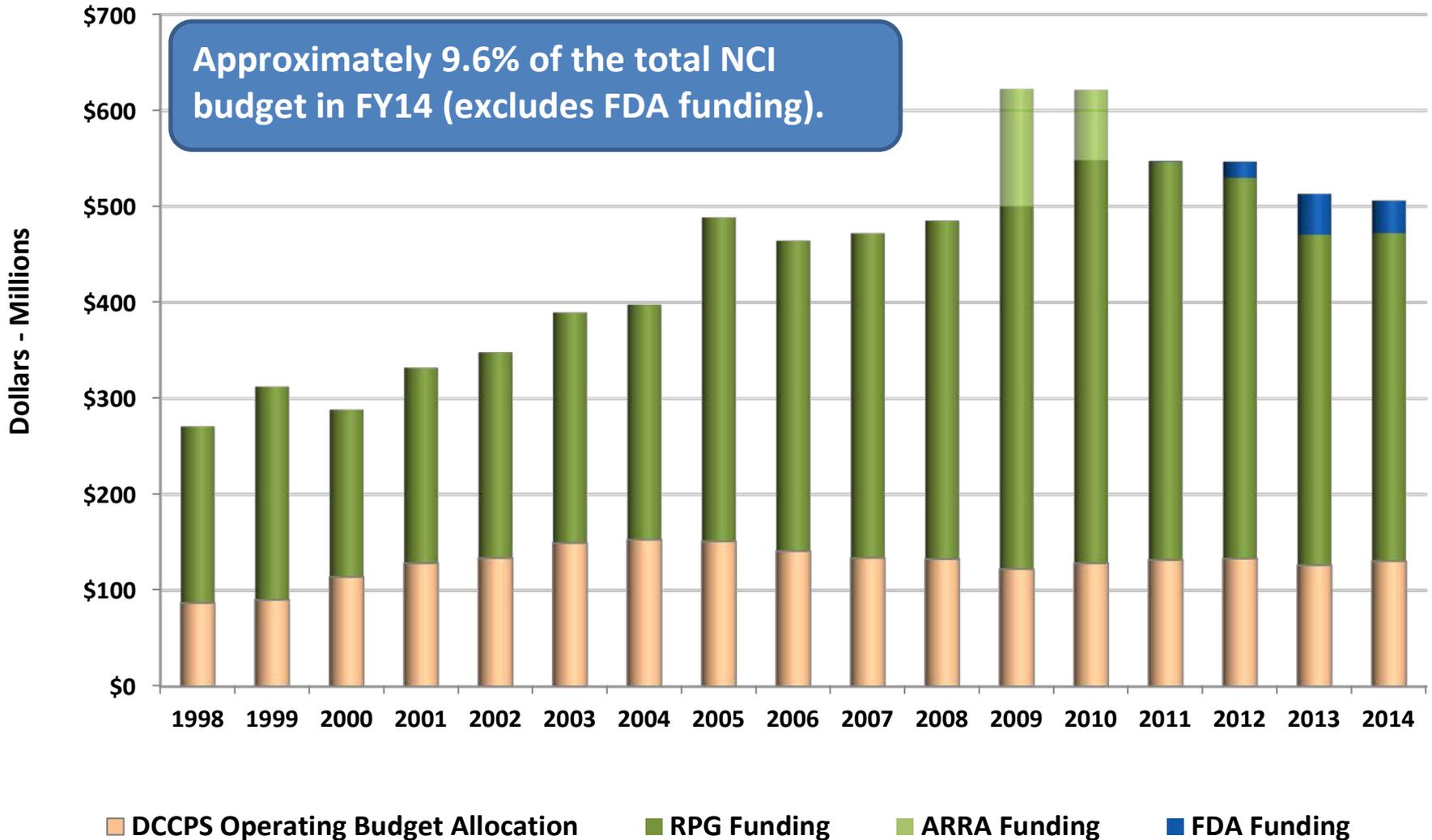
# FOCUS: WHAT WE DO AND HOW WE PRIORITIZE

## OUTLINE:

- About DCCPS
- Context of Prioritization
- Gaps in the Portfolio
- Implementation Science and Practice

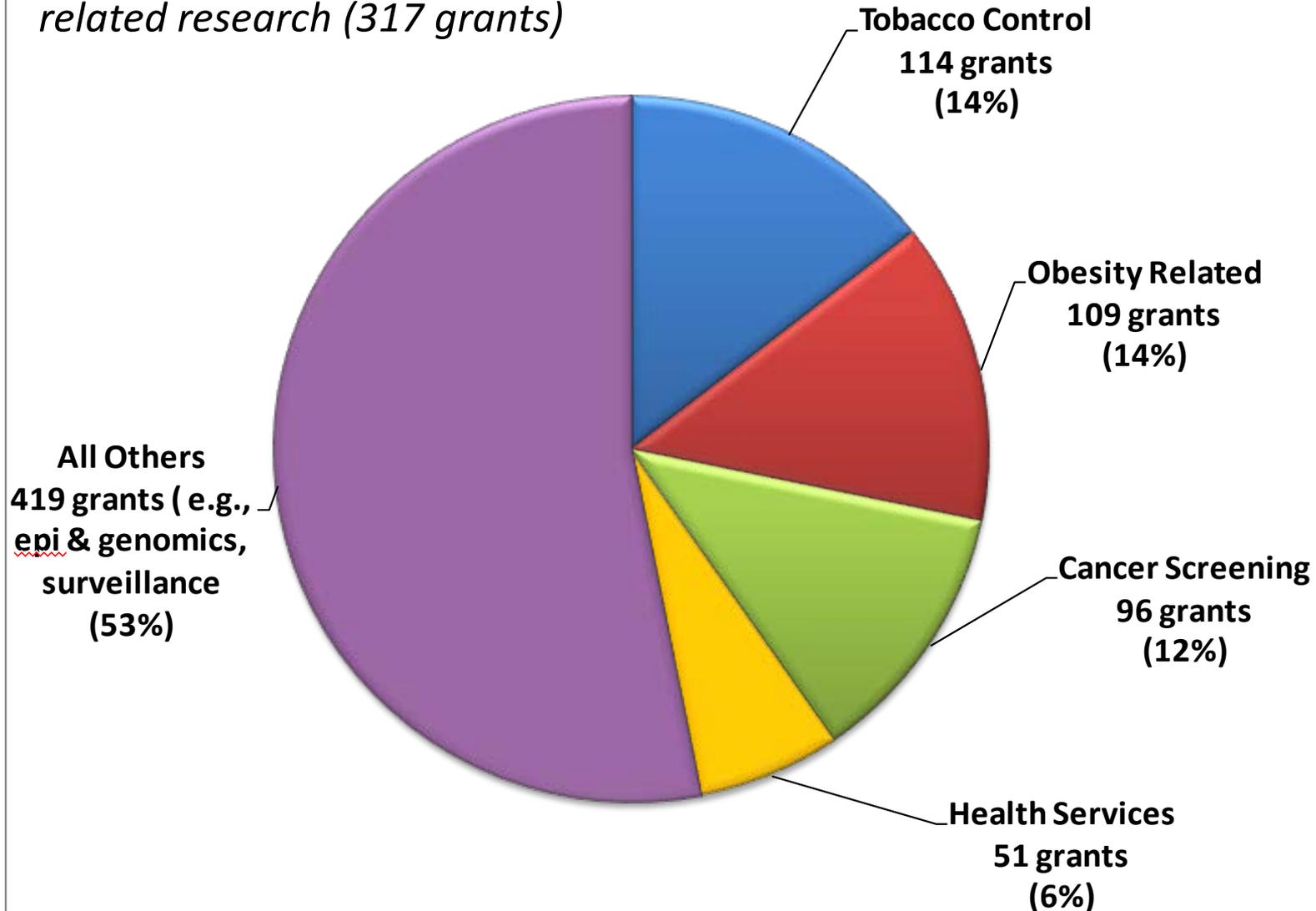
# About DCCPS

# Funds Allocated to and Managed by DCCPS FY98-14



# FY14 DCCPS Grants Portfolio (n=789)

*40% of total is health disparities-related research (317 grants)*



# Past to Present: DCCPS-Led RFAs FY98-FY13

Long Term Cancer Survivors Research

Prevention and Cessation of Tobacco Use by Children and Youth in the U.S.

Breast Cancer Surveillance Research

Health Communications in Cancer Control

Basic Biobehavioral Research on Cancer-Related Behaviors

Regional Variation in Breast Cancer Rates in the U.S.

Interdisciplinary Studies in the Genetic Epidemiology of Cancer

Research in State and Community Tobacco Control Interventions

Cancer Intervention and Surveillance Modeling Network (CISNET)

Exposure Assessment Methods for Cancer Research

Cancer Care Outcomes Research and Surveillance Consortium (CanCORS)

# DCCPS-Led RFAs, cont.

Cooperative Family Registry for Epidemiologic Studies in Colon Cancer

Cancer Research Network

Mechanisms of Physical Activity Change

Increasing the Utilization and Impact of the NCI's Cancer Information Service

Breast Cancer Family Registry

Improved Measures of Diet and Physical Activity for the Genes and Environment Initiative

Improving Effectiveness of Smoking Cessation Interventions in Low Income Adult Populations

Measures and Determinants of Smokeless Tobacco Use, Prevention, and Cessation

Replication and Fine-Mapping Studies for the Genes Environment and Health Initiative

Transdisciplinary Cancer Genomic Research: Post-Genome Wide Association Initiative

State and Community Tobacco Control Policy and Media Research

Population-Based Research Optimizing Screening Through Personalized Regimens (PROSPR)

# Centers of Excellence Initiatives

RFA Title	Funding
Transdisciplinary Tobacco Use Research Centers (with NIDA, NIAAA, RWJF)	FY99 – FY08
Centers of Excellence in Cancer Communication Research	FY03 – FY12
Centers for Population Health and Health Disparities (with NIEHS, OBSSR, NHLBI)	FY04 – FY14
Transdisciplinary Research on Energetics and Cancer	FY05 – FY15

## Tobacco Centers of Regulatory Science – totally funded by FDA

- 14 Centers (7 managed by NCI)
- \$53M in FY13
- \$273M over 5 years

### 7 Research Areas:

- Diversity of tobacco products
- Reducing addiction
- Reducing toxicity
- Adverse health consequences
- Communications
- Marketing of tobacco products
- Economics and policies

Organization	Title	Investigator(s)
American Heart Association	American Heart Association Tobacco Regulation and Addiction Center (A-TRAC)	Aruni Bhatnagar, Rose Marie Robertson
Georgia State University	The Science of Decision-Making: Connecting People and Policy (GSU TCORS)	Michael Erikson
Ohio State University	OSU Center of Excellence in Regulatory Tobacco Science (OSU-CERTS)	Peter Shields, Mary Ellen Wewers
Pennsylvania State University	Pennsylvania State University Tobacco Center of Regulatory Science (PSU TCORS)	Joshua Muscat, Jonathan Foulds
University of California San Francisco	Improved Models to Inform Tobacco Product Regulation (UCSF TCORS)	Stanton Glantz
University of Pennsylvania	Tobacco Product Messaging in a Complex Communication Environment (UPenn TCORS)	Robert Hornik, Caryn Lerman
University of North Carolina	Effective Communication on Tobacco Product Risk and FDA Authority (Center for Regulatory Research on Tobacco Communication)	Kurt Ribisl
University of North Carolina	The Impact of Tobacco Exposure on the Lungs Innate Defense System (UNC TCORS)	Robert Tarran
University of Maryland	Rapid Response Characterization of New and Manipulated Tobacco Products	Pamela Clark
University of Southern California	USC Tobacco Center of Regulatory Science (TCORS) for Vulnerable Populations	May Ann Pentz, Jonathan Samet
University of Texas	Tobacco Center of Regulatory Science on Youth and Young Adults	Cheryl Perry
University of Vermont	Vermont Center on Tobacco Regulatory Science	Stephen Higgins
Virginia Commonwealth University	Center for the Study of Tobacco Products	Thomas Eissenberg, Robert Balster
Yale University	Yale Tobacco Center of Regulatory Science	Suchitra Krishnan-Sarin, Stephanie O'Malley

# DCCPS-Led RFAs FY14 – FY15

RFA Title	Partners
Person-Centered Assessment Resources	12 other NIH ICs
Using Social Media to Understand and Address Substance Use and Addiction	NIDA and NIAAA
Center for Evaluation and Coordination of Training and Research (CECTR) in Tobacco Regulatory Science	FDA and trans-NIH
Population-based Research Optimizing Screening through Personalized Regimens (PROSPR) – Revision to Enhance the Collection of Cervical Cancer Screening Data	CDC and DCP
Cancer Intervention and Surveillance Modeling Network	CDC and AHRQ

# Context of Prioritization

# Executive Branch



2014

## National Prevention, Health Promotion, and Public Health Council

ANNUAL STATUS REPORT

July 1, 2014

# Department of Health and Human Services



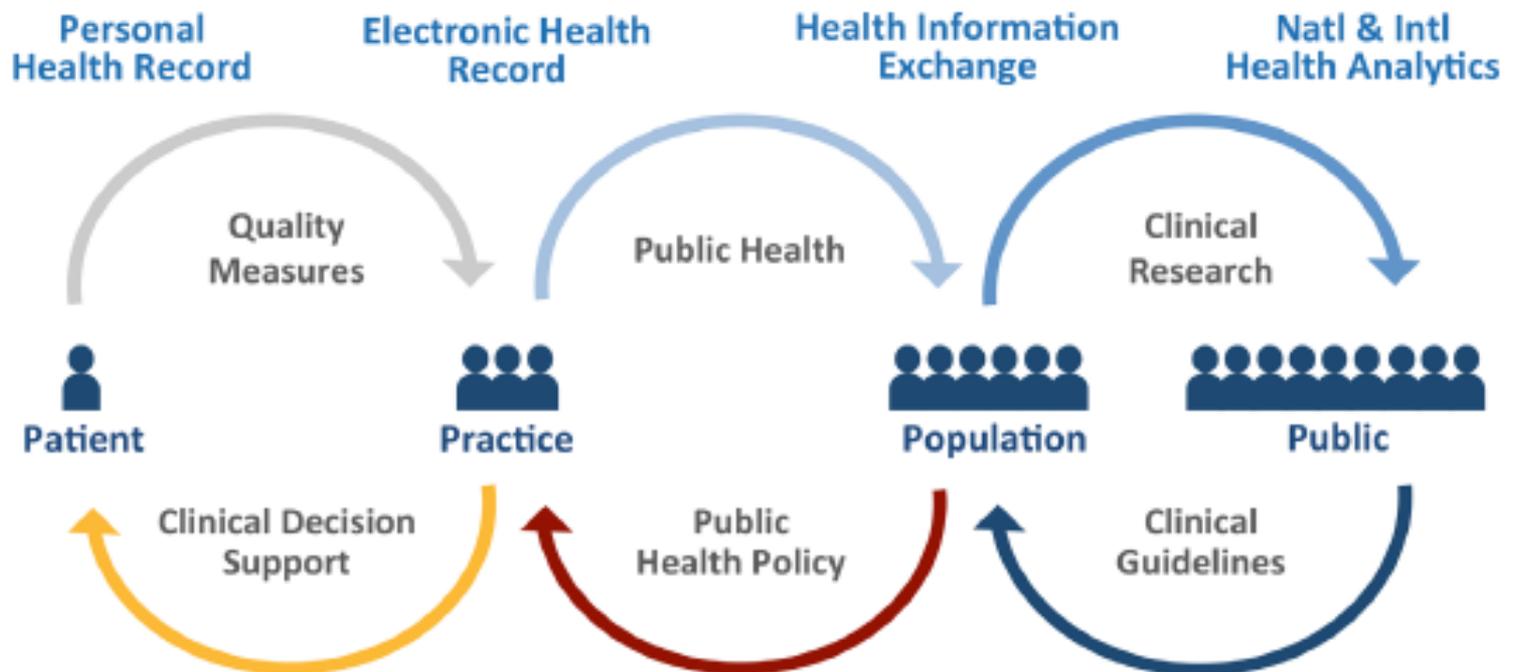
## Strategic Initiatives (examples):

- Prevent and reduce tobacco use
- Promote prevention and wellness across the lifespan
- Help Americans achieve and maintain healthy weight
- Eliminate health disparities

# Health IT Enabled Quality Improvement

A Vision to Achieve Better Health and Health Care

Figure 1. Vision of the Health IT Ecosystem



# Interagency



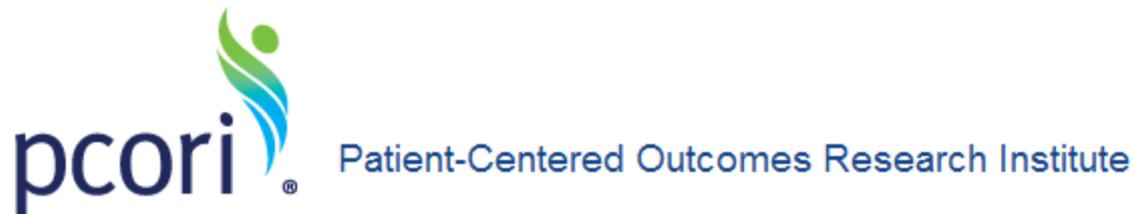
Centers for Disease Control and Prevention  
CDC 24/7: Saving Lives, Protecting People™



Agency for Healthcare Research and Quality  
Advancing Excellence in Health Care

- Common Fund (e.g., Science of Behavior Change)
- Tobacco Regulatory Science Program
- Collaborative Research on Addiction at NIH (“CRAN”)
- NIH Obesity Research Task Force
- Patient-Centered Outcomes Research
- Office of Disease Prevention

# Non-Government Partners



Robert Wood Johnson Foundation

# Gaps in the Portfolio

# *Provocative* Questions

Identifying Perplexing Problems to Drive Progress Against Cancer

- How do decision making processes influence habitual behaviors, and how can that knowledge be used to design strategies that lead to adoption and maintenance of behaviors that reduce cancer risk?
- How does the level, type, or duration of physical activity influence cancer risk and prognosis?
- How does obesity contribute to cancer risk?
- What methods and approaches induce physicians and health systems to abandon ineffective interventions or discourage adoption of unproven interventions?

# Types of Funding Gaps

- Disease Site
  - e.g., Liver Cancer Control
- Underrepresented Subpopulations
  - e.g., American Indian/Alaska Native
- Insufficient Intervention Evidence
  - e.g., Cessation within the Context of Lung Cancer Screening
- Low Utilization Despite Evidence
  - e.g., HPV Vaccination in Pediatric Settings

# **Implementation Science and Practice**

# Definition of Implementation Science

Implementation science is the study of methods to promote the integration of research findings and evidence into healthcare policy and practice.

## Components of Participating Organizations

National Institute of Mental Health ([NIMH](#))  
National Cancer Institute ([NCI](#))  
National Center for Complementary and Alternative Medicine ([NCCAM](#))  
National Heart, Lung, and Blood Institute ([NHLBI](#))  
National Human Genome Research Institute ([NHGRI](#))  
National Institute on Aging ([NIA](#))  
National Institute on Alcohol Abuse and Alcoholism ([NIAAA](#))  
National Institute of Allergy and Infectious Diseases ([NIAID](#)) (Clarification per [NOT-AI-13-034](#))  
National Institute on Deafness and Other Communication Disorders ([NIDCD](#))  
National Institute of Dental and Craniofacial Research ([NIDCR](#))  
National Institute of Diabetes and Digestive and Kidney Diseases ([NIDDK](#))  
National Institute on Drug Abuse ([NIDA](#))  
National Institute of Neurological Disorders and Stroke ([NINDS](#))  
National Institute of Nursing Research ([NINR](#))  
Office of Behavioral and Social Sciences Research ([OBSSR](#))

## Funding Opportunity Title

## Dissemination and Implementation Research in Health (R01)

## Cancer Trends Progress Report – 2011/2012 Update



### In the Report

[Director's Message](#)  
[Report Highlights](#)  
[Introduction](#)  
[Trends at a Glance](#)  
[Summary Tables](#)

The *Cancer Trends Progress Report*, first issued in 2001 as the *Cancer Progress Report*, summarizes our nation's progress against cancer in relation to [Healthy People](#) targets set forth by the Department of Health and Human Services. The report includes key measures of progress along the cancer control continuum and uses national trend data to illustrate where advances have been made.

### Progress Report Tools and Resources

[Appendices](#)  
[Data Sources \(PDF\)](#)  
[Dictionary](#)  
[Fact Sheet \(PDF\)](#)  
[FAQs](#)  
 [Generate custom report](#)  
 [Print this page](#)  
[Quick Tutorial](#)  
[Report Archive](#)



### Prevention

Tobacco, Physical activity,  
Diet, Sun, Environment



### Early Detection

Breast, cervical, colorectal  
cancer screening



### Diagnosis

Incidence  
Stage at diagnosis



### Treatment

Bladder, breast, colorectal, kidney,  
lung, ovarian, prostate cancer treatment



### Life After Cancer

Costs of cancer care, Survival,  
Cancer survivors and smoking



### End of Life

Mortality  
Person-years of life lost

Use the link below to select a number of criteria, and see a list that contains programs from several topics.

## Select from 151 Intervention Programs

RTIPs is a searchable database of cancer control interventions and program materials and is designed to provide program planners and public health practitioners easy and immediate access to research-tested materials.

## Register your program now and be part of the RTIPs Community.

For more information on how to participate in a RTIPs review, read the [RTIPs Submission and Review Process: A Guide for Program Developers](#)

### Search Research to Reality (R<sup>2</sup>)

NCI's online community of practice links cancer control practitioners & researchers, for discussions, cyber seminars, and much more.

## New Programs on RTIPs:

- Informed Decision Making
    - ★ - [Thinking About Continuing Mammography Screening for Breast Cancer? A Decision Aid for 70-Year-Old Women](#) (Post date: October, 2014)
  - Survivorship
    - [Project ENABLE II](#) (Post date: September, 2014)
  - Colorectal Cancer Screening
    - [Healthy Colon, Healthy Life](#) (Post date: August, 2014)
- ★ New programs are released periodically. Please check for updates.



Links to comprehensive cancer control resources for public health professionals

[Home](#) | [About This Site](#) | [FAQ](#) | [Sponsors](#)

### DATA

[State Cancer Profiles](#) (CDC, NCI) ⓘ

### COLLABORATION

[Research to Reality](#) (NCI) ⓘ

### RESEARCH SYNTHESIS

[Guide to Community Preventive Services](#) (Federally supported) ⓘ

[U.S. Preventive Services Task Force](#) (Federally supported) ⓘ

[Evaluation of Genomic Applications in Practice and Prevention \(EGAPP\)](#) ⓘ ⓘ

[Additional Research Evidence Reviews](#)

### TOPICS

- Breast Cancer
- Cervical Cancer
- Colorectal Cancer
- Diet / Nutrition
- Informed Decision Making
- Obesity
- Physical Activity
- Public Health Genomics
- Sun Safety
- Survivorship
- Tobacco Control

### WHAT'S NEW

Cancer Control P.L.A.N.E.T. now links to the International Cancer Control Partnership's (ICCP) new web-portal. Learn more about their [portal](#) and [search](#) over 100 international cancer plans and emerging non-communicable disease plans at <http://www.iccp-portal.org/cancer-plans>.

### E-NEWSLETTER

[Sign up](#) to receive monthly updates on Cancer Control P.L.A.N.E.T.

### FEEDBACK



# STATE CANCER PROFILES



Dynamic views of cancer statistics for prioritizing cancer control efforts in the nation, states, and counties

[Home](#)

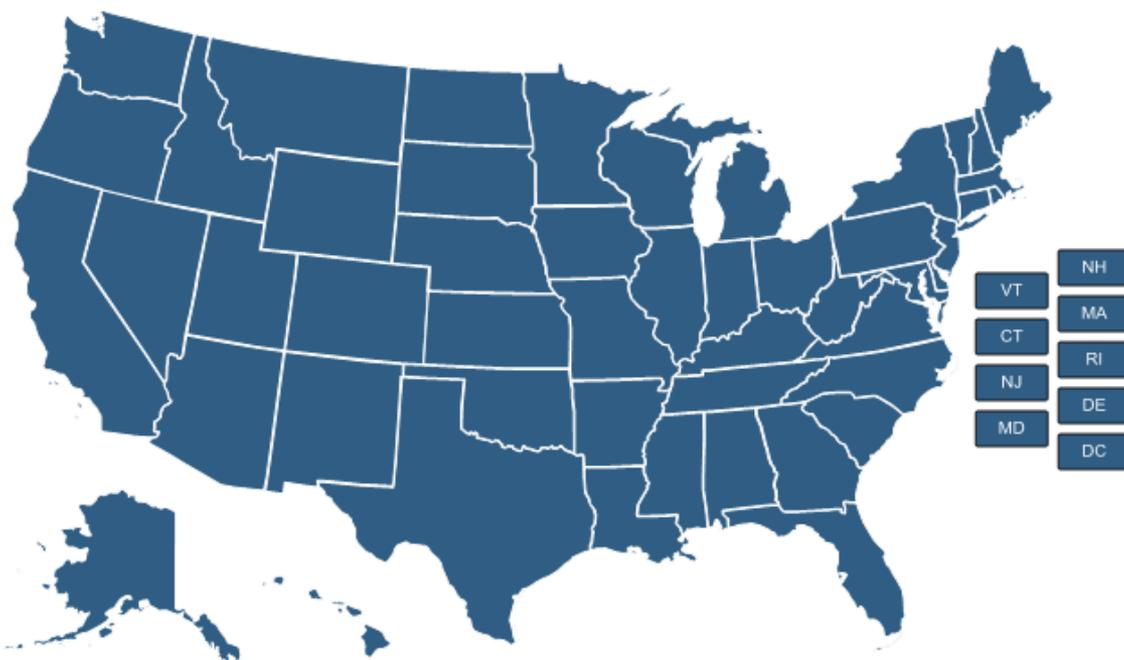
[About](#)

[Help & Resources](#)

[Contact](#)

## Quick Profiles for States

Choose a state below to get a report of cancer statistics and other related topics.



## Data Topics Across the Cancer Control Continuum

Cancer statistics, charts, and maps by data topic across the cancer control continuum.



Demographics



Screening & Risk Factors



Cancer Knowledge



Incidence



Prevalence



Mortality

# Administrative supplements for NCI cancer centers: collaborations with state and local HPV coalitions and programs

## Accelerating HPV Vaccine Uptake:

Urgency for Action to Prevent Cancer

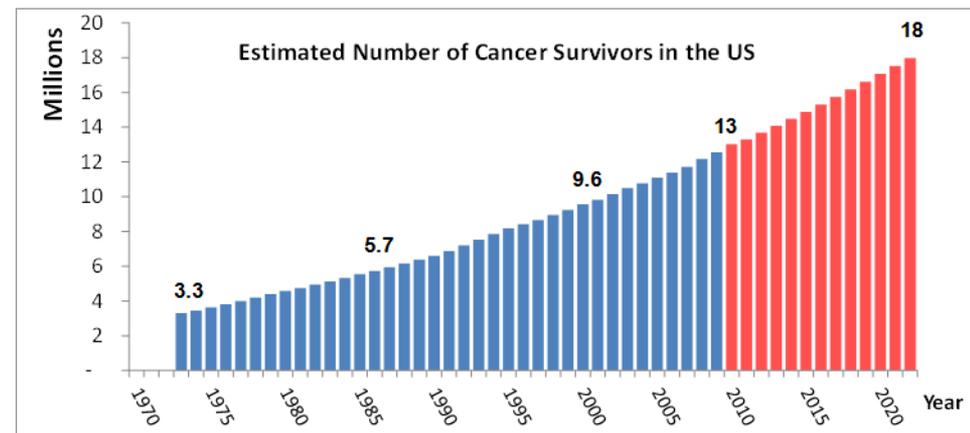


A Report to the President of the United States  
from  
The President's Cancer Panel

Institution	PI NAME	Cancer Control Coordinator	State
UAB	Ed Partridge	Alison McGuire	AL
USC	Stephen Gruber	Samantha Garcia and Marisela Robles	CA
Yale	Thomas Lynch	Pamela Julian	CO
Moffitt	Thomas Sellers	Kelly Nam	FL
U of Hawaii	Michele Carbone	Hali Robinett	HI
Markey - U of Kentucky	Mark Evers	Amy Christian	KY
UNC Lineberger	Norman Sharpless	Sara Smith	NC
Rosewell Park	Donald Trump	Christy Widman	NY
Einstein Yeshiva	David Goldman & Laurie Bauman	Dana Watnick	NY
Case	Stanton Gerson	Darla Fickle (rural) and Toyin Sokari (urba	OH
Ohio State	Michael Caligiuri	Elizabeth Antognoli	OH
MUSC Hollings	Andrew Kraft	Kathleen Cartmell	SC
Vanderbilt	Jennifer Pietenpol	Todd Lawrence	TN
MD Anderson	Ronald DePinho	Rosalind Bello	TX
Baylor	Kent Osborne	Casey Martinez	TX
Huntsman - Utah	Mary Beckerle	Echo Warner	UT
UVA	Thomas Loughran	Melissa Grossman	VA
Wisconsin Carbone	Howard Bailey	Sarah Mroz	WI

# Challenges

- Increasing diversity of population
- How best to inform policy
- Understanding the changing health care context
- NCI's role in obesity control
- The new information environment
- Role of upstream social determinants of health
- Prevention among cancer survivors



# Discussion

- What areas of science need to be strengthened?
- What are the opportunities to increase prevention of cancer?
- How do we separate out individual behavior from broader public health interventions?
- How do we lessen the time from discovery to delivery in underserved populations?
- How do we achieve sustained delivery?
- What is the appropriate focus, scale, and strategy for NCI's prevention early detection, HSR, and implementation science efforts?
- What, and how much, should NCI be doing, especially given other priorities and limited budgets?
- What are the responsibilities of funding partners, e.g., NIH, CDC, AHRQ, or other?