

DCCPS Research Resources

New Grantee Workshop
Moderator: David Dean Jr.

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Margaret Mayer
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Kathy Cronin

October 31, 2023



Bringing Health Communication Data to Life

The Health Information National Trends Survey (HINTS)

Presentation at the New Grantee Workshop

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Senior Methodologist, Health Information National Trends Survey

Behavioral Research Program

Training Director, DCCPS

October 31, 2023

<https://hints.cancer.gov/>

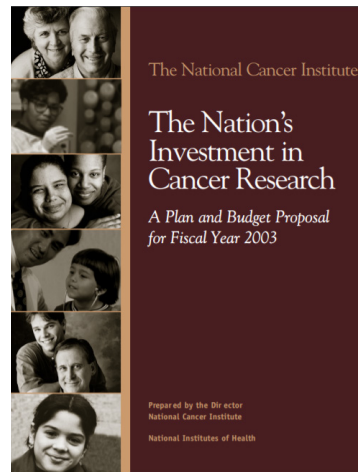
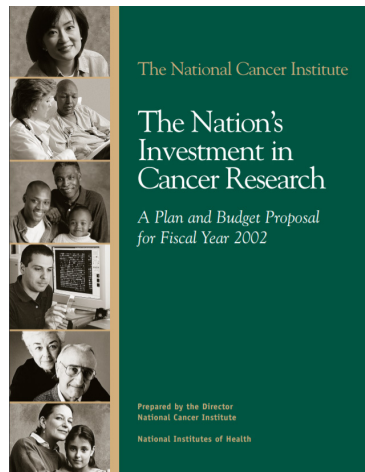
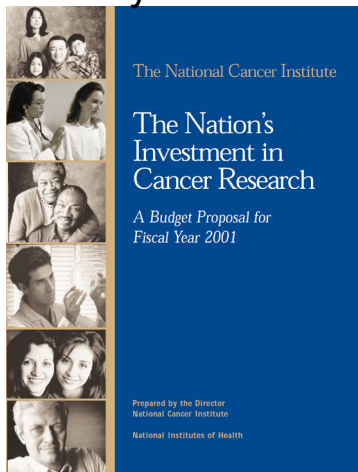


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Cancer Communication: An Extraordinary Opportunity (2001-2003)

- A workshop on cancer risk communication, held in 1998, became the basis of a JNCI Monograph published in 1999 (*Cancer Risk Communication: What We Know and What We Need To Learn*)
- Following this workshop and monograph, **cancer communication** was identified as an “Extraordinary Opportunity” in NCI’s by-pass budget in 2001, 2002, and 2003. This led to the creation of the Health Communication and Informatics Research Branch, which remains the only health communication-focused branch at NIH

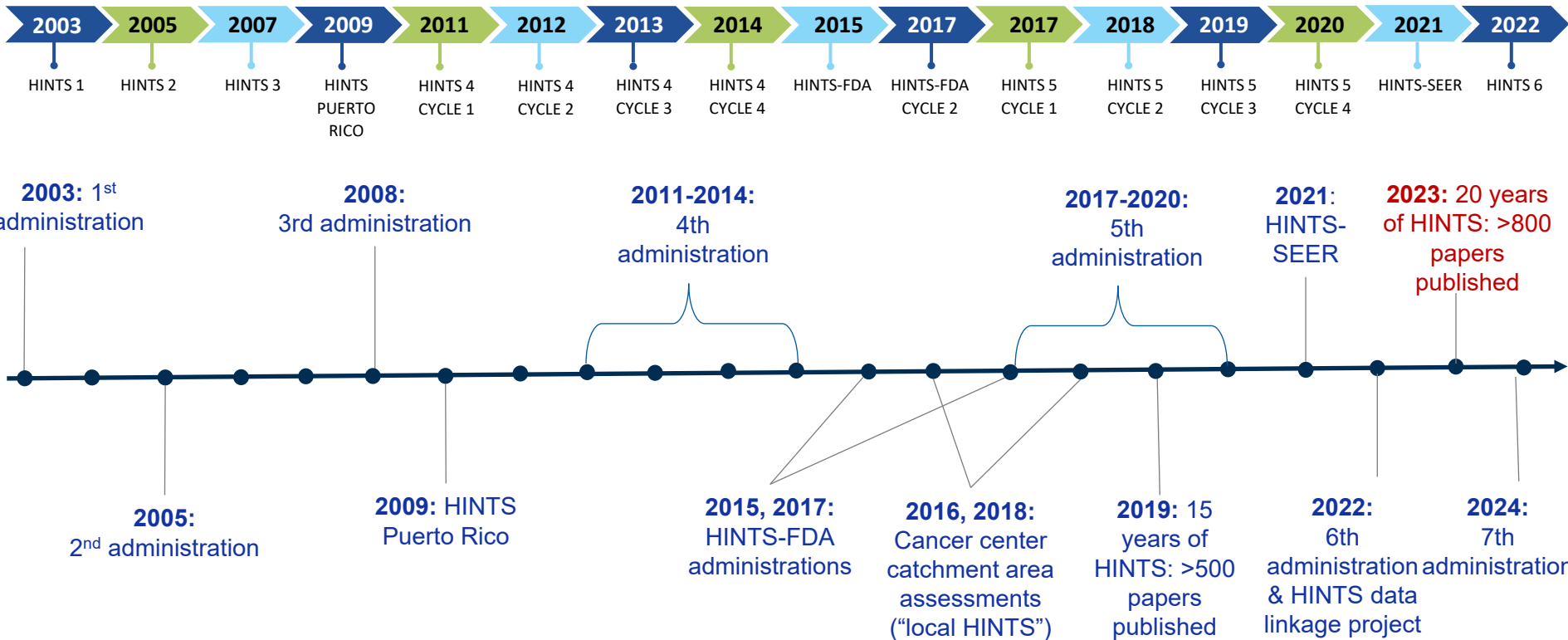


“...there is a need for a public institution such as NCI to provide leadership in the cancer communications arena; the broad and reasoned perspective that NCI brings to patients and healthcare providers alike is essential to successfully implement communication strategies to reduce the cancer burden.” (2001)

Timeline



HINTS: One of NCI's longest running surveys



Nationally Representative

- Cross-sectional; random, probability-based sample of US postal addresses
- US civilian, non-institutionalized adults (18+)
- Oversample of African Americans and Hispanics and (new from 2022 forward) rural Zip codes

Core Communication Content

- Health information seeking
- Technology use (Internet, mobile apps, EHRs, PHRs)
- Trust in health information sources
- Patient-provider communication
- Health-related knowledge, attitudes, behaviors

Data Collection

- Biennial from 2003 to 2009; Annual from 2011-2020
- Biennial from 2022 (HINTS 6) forward
- Mixed-mode (paper and web)
- **Fielded 16 times since 2003, surveying more than 63,000 U.S. adults**

Latest HINTS Data Resources

<https://hints.cancer.gov/>

- **HINTS Data Linkage Project (HDLP; 2020)***
- **HINTS-SEER (2021)***
- **HINTS 6 (2022)**



* **Restricted use files—need to make request:**
<https://hints.cancer.gov/data/restricted-data.aspx>





Bringing Health Communication Data to Life

Thanks!

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CLASS

CLASSIFICATION OF LAWS ASSOCIATED
WITH SCHOOL STUDENTS

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Learn about CLASS at class.cancer.gov

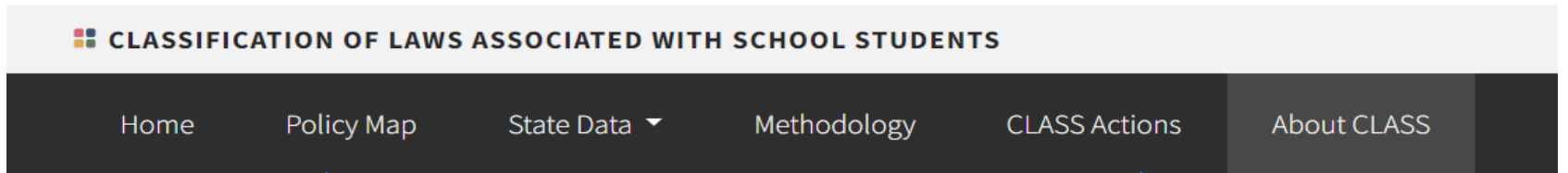
The Classification of Laws Associated with School Students (CLASS) is a scoring system that monitors, classifies, and evaluates school policies that have been codified into law across the United States:

- Physical education
- Nutrition
- Vaccination
- Sun safety

CLASS codes **state laws** as they compare to national standards and recommendations. Data are currently available for 2003-2021.

CLASS scores for state laws are available at elementary, middle, and high school levels and as a summary score.

CLASS Resources



Policy Maps

Generate maps for specific CLASS policy areas showing state scores across the US.

State Data

Visualize state-specific policy scores by year. Download full datasets or selected data.

Methodology

Learn about policy scoring criteria and contents of the CLASS datasets.

CLASS Actions

Read briefs and publications that use CLASS data.

Visualization Tools

Maps are available for all policy areas.
Examples:

Physical Education

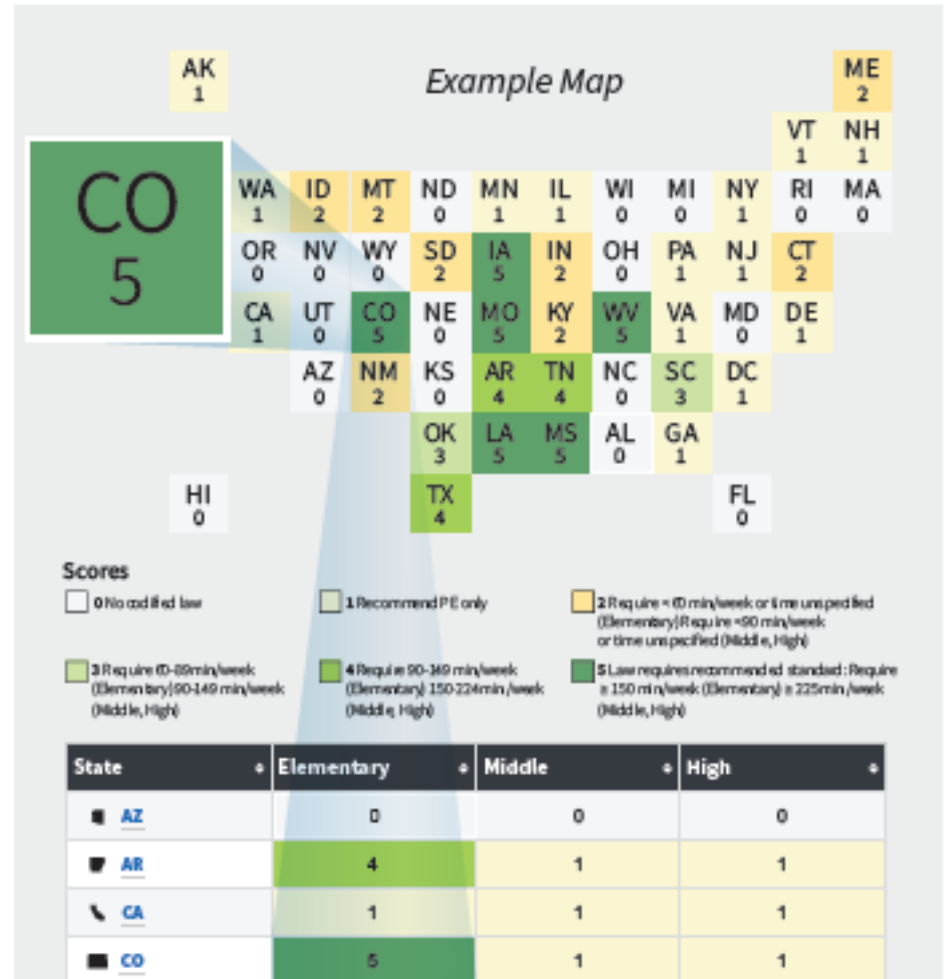
- Recess time
- PE class standards
- Adapted PE

Nutrition

- Competitive foods
- School meal environment
- Classroom parties and events

Other Policies

- Sun safety
- School vaccinations
- Coordinated school health

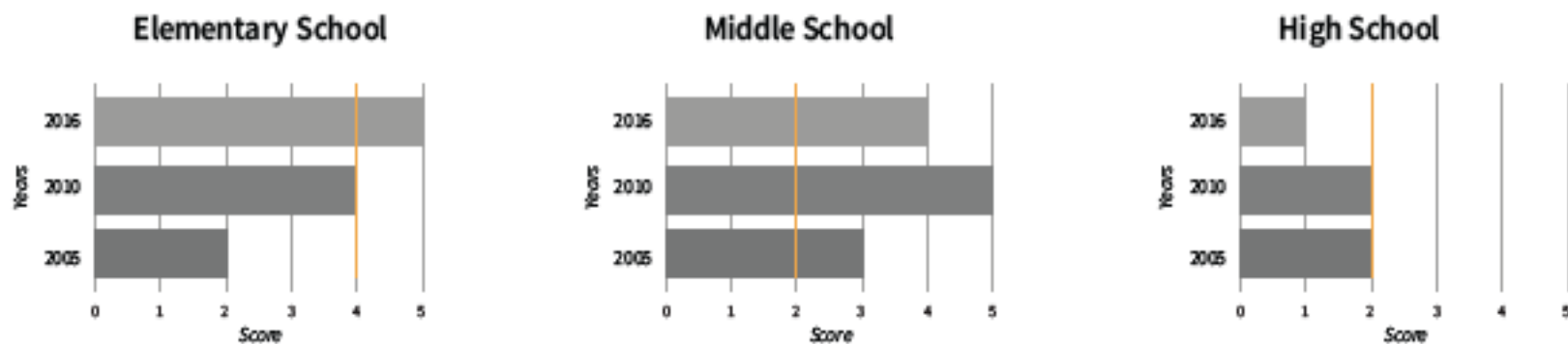


State Profiles Tool

The profiles tool allows users to create state-specific reports by year, with each report containing charts for all policy areas in PE and nutrition. Each chart indicates state scores across each grade level for a specific policy area and compares scores to the national median. Data can be printed, downloaded, or used for presentations.

Example State Charts

Grey bars show a selected state's policy score by school type. Yellow lines represent the national median* for that particular policy area.



*Half the states receive a score above the median and the other half receive a score below the median.

Data & Methodology

Download full datasets (SPSS, Excel, Stata) or selected data to analyze school laws related to nutrition, physical activity, and health.

For example:

- **Link the data** with other surveillance, health, and education data sets
- Track changes in laws over time
- Evaluate factors associated with implementation of laws

State Law

- What is the strength of states' school nutrition & PE laws?

District /
School
Policy

- Do schools implement policies?

Student
Behavior &
Health

- Are students engaging in behavior?
- Health outcome (i.e., Fitness & BMI)?

Don't Miss CLASS!

CLASS.CANCER.GOV

For general CLASS inquiries and PE-related funding inquiries, contact:



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All About TUS-CPS

Margaret Mayer, PhD, MPH
NCI, DCCPS, Tobacco Control Research Branch

October 31, 2023



Tobacco Use Supplement
Current Population Survey

TUS-CPS At-a-Glance

TUS-CPS is the largest nationally representative survey of tobacco use among US adults. It is available in two forms:

	Single Survey Waves	Harmonized Dataset
Content	Collects extensive data on tobacco use, including information on current use, history of use, flavors, cessation, prices, policies, and attitudes	TUS-CPS variables consistent across two or more survey waves
Size	Approx. 150,000 self-respondents per wave (on average); 210,000 with proxy responses	1,730,884 self-respondents
Timing	Every 3-4 years; 1992-1993, 1995-1996, 1998-1999, 2000, 2001-2002, 2003, 2006-2007, 2010-2011, 2014-2015, 2018-19, 2022-23 (<i>coming soon!</i>)	Includes all waves (1992-2019)
Data Available in	SAS (Stata and R materials for 2018-19 to be available by the end of 2023)	SAS (Stata and R materials to be available in early 2024)

Features

- All data includes detailed demographic and employment information (via CPS)
- Individual survey waves:
 - Support national, state, and some sub-state analyses
 - Can be linked with other supplements of the Current Population Survey, including the Annual Social and Economic Supplement (detailed sociodemographic data), the Food Security Supplement, the American Time Use Supplement, and more
 - **Full 2022-23 survey wave will be released in spring 2024 (September 2022 to be released this winter)**
- Harmonized Dataset:
 - Easily compare estimates over time with harmonized variables
 - Pool survey waves to increase sample size

Using TUS-CPS

- Visit our website (cancercontrol.cancer.gov/tus-cps) to find:
 - Database of publications using TUS-CPS
 - Datasets and questionnaires - *September 2022 data coming soon!*
 - User guides
 - Webinars
- Questions?
 - ncidccpsbrpadvances@mail.nih.gov
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Medical Expenditure Panel Survey (MEPS): Experiences with Cancer Survivorship Supplement

Background

Medical Expenditure Panel Survey (MEPS)

- Nationally representative panel survey fielded by the Agency for Healthcare Research and Quality (AHRQ).
- Captures comprehensive data on healthcare utilization and expenditures.
- Sample includes ~13K families and ~27K individuals.
- Publicly available from <https://meps.ahrq.gov/mepsweb/>

MEPS Experiences with Cancer Survivorship Supplement

- Collaboration among NCI, American Cancer Society, Centers for Disease Control and Prevention, NIH Office of Behavioral and Social Sciences Research, LIVESTRONG and AHRQ.
- Fielded in 2011, 2016 and 2017.
- Captures information about financial hardship, work disruption, healthcare utilization, and other related topics from cancer survivors participating in the MEPS.
- Sample includes 1,419 (2011), 1,236 (2016), 718 (2017) cancer survivors.

The MEPS Experiences with Cancer Survivorship Supplement is a valuable resource to study the burden of cancer and its treatment.



Financial hardship among cancer survivors



Work disruption and employment changes due to cancer



Cancer care utilization and expenditures among



Use of prescription drugs by cancer survivors



Patient and provider communication



Analyses comparing cancer survivors to those without a history of cancer



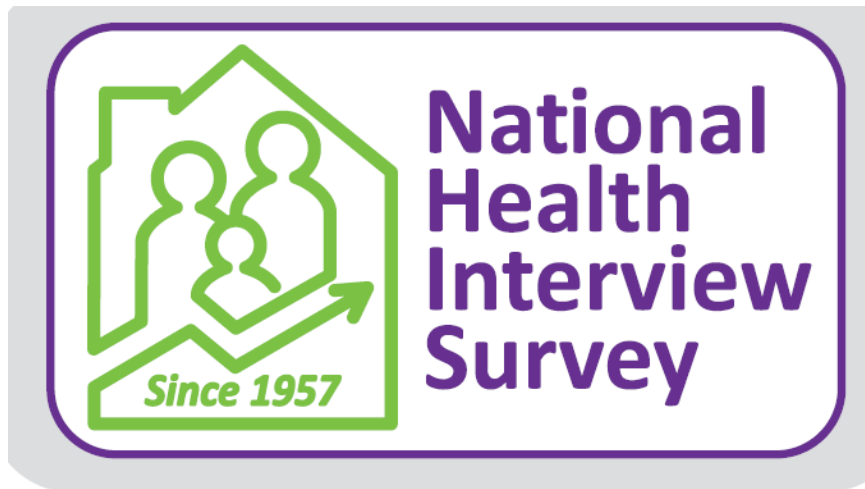
Psychosocial outcomes

A **MEPS Experience with Cancer Survivorship Supplement Working Group** is open to researchers working with these data.

Contact Michael Halpern michael.halpern@nih.gov or Sharon McCarthy sharon.mccarthy@nih.gov

The National Health Interview Survey Cancer Control Supplement

Jennifer Croswell, MD, MPH



- The oldest ongoing national health survey in the U.S.
- Conducted by the National Center for Health Statistics (NCHS, part of CDC)
- Administered by the Census Bureau
- Cross-sectional, population-based, good generalizability
- Majority in-person
- >30,000 interviews per year
- **Questionnaires, documentation, and datasets all publicly available for research use**

NHIS Cancer Control Supplement

- Started in 1987
- Collaborative sponsorship by NCI and CDC
- Pre-2019 (overall NHIS redesign), 20-minute module every 5 years
- Post-2019, yearly 5-minute module of rotating content

		2019	2020	2021	2022	2023	2024	2025	2026
Rotating NHIS Core		Preventive services	Health behavior	Preventive services	Health behavior	Preventive services	Health behavior	Preventive services	Health behavior
		Care utilization		Rotating conditions	Care utilization		Rotating conditions	Care utilization	
		Mental health	Employment		Mental health	Employment		Mental health	Employment
Cancer control supplement	00:30	Colorectal cancer	Skin cancer	Colorectal cancer	Diet and nutrition	Colorectal cancer	Skin cancer	Colorectal cancer	Diet and nutrition
	00:30	screening		screening		screening		screening	
	00:30								
	00:30								
	00:30	Breast cancer	Lung cancer	Breast cancer	Tobacco	Breast cancer	Lung cancer	Breast cancer	Tobacco
	00:30	screening /Prostate	screening	screening /Prostate		screening /Prostate	screening	screening /Prostate	
	00:30		Physical activity: environment				Physical activity: environment		
	00:30	Cervical cancer	Physical activity: environment	Cervical cancer	Risk	Risk	Physical activity: environment	Cervical cancer	Tobacco
	00:30	screening /Prostate		screening /Prostate				screening /Prostate	
	00:30		Emerging topics	Emerging topics	Emerging topics	Emerging topics	Emerging topics	Emerging topics	Emerging topics

Cancer Control Module Rotating Content

Cancer Screening

Breast Cancer
Cervical Cancer
Colorectal Cancer
Prostate Cancer
Lung Cancer

Risk Factors

Smoking
Nutrition
Sun Exposure
Family History
Physical Environment

Health Care Use/Access

Genetic
Counseling/Testing
Provider
recommendations
Out of pocket costs

Goal: Aligning rotating content on the cancer control module with content on the core and rotating core of the NHIS

Timeline for content usually requires development of module 1.5 to 2 years before administration

Utility of NHIS Data

National Estimates



Morbidity and Mortality Weekly Report
January 15, 2021

Cancer Screening Test Receipt — United States, 2018

Susan A. Sabatn, MD¹; Toray D. Thompson²; Mary C. White, ScD¹; Jean A. Shapiro, MD³; Joanne M. Moore, PhD¹; V. Paul Davis-Rose, PhD⁴; Tanya Clarke, PhD¹; Lia C. Richardson, MD¹

Screening for breast cancer, cervical cancer, and colorectal cancer (CRC) reduces mortality from these cancers.¹ However, screening test receipt has been below national targets with disparities observed in certain populations.^{1,2,3} National Health Interview Survey (NHIS) data from 2018 were analyzed to estimate percentages of adults up-to-date with U.S. Preventive Services Task Force (USPSTF) screening recommendations. Screening test receipt remained below national Healthy People 2020 (HP2020) targets, although CRC test receipt neared the target. Disparities were evident, with particularly low test receipt among persons who were uninsured or did not have usual sources of care. Continued monitoring helps assess progress toward targets and could inform efforts to promote screening and reduce barriers for underserved populations.

Data from the 2018 NHIS, an annual survey of a nationally representative sample of the civilian, noninstitutionalized U.S. population,⁴ were used to examine up-to-date breast, cervical, and colorectal cancer screening test receipt per USPSTF recommendations. Information about tests was collected from one randomly selected adult per family (final sample adult response rate was 53.1%) (3). Respondents were asked whether they had ever received each test and when they received their most recent test. Respondents with a personal history of the cancer in question were excluded from analysis for that cancer type. Percentages with Korn-Graubard confidence intervals (4) are presented overall and by sociodemographic and health care access factors. Percentage of respondents who were up-to-date with screening were also age-standardized to the 2000 U.S. standard population, consistent with HP2020 cancer screening

measures. NHIS-imputed income files were used. NHIS data from 2005, 2008, 2010, 2013, 2015, and 2018 were used to examine differences across years in percentages of persons who were up-to-date with screening, according to USPSTF recommendations in effect for each year. For 2018, “up-to-date” status was defined as receipt of the following: mammography within 2 years among women aged 50–74 years for breast cancer screening; Pap test within 3 years for women aged 21–65 years or Pap test plus human papillomavirus (HPV) test (co-testing) within 5 years for women aged 30–65 years for cervical cancer screening (among women without hysterectomy);

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Continuing Education examination available at https://www.cdc.gov/mmwr/mmwr_continuingeducation.html

¹<https://pubmed.ncbi.nlm.nih.gov/34912000/>
²<https://pubmed.ncbi.nlm.nih.gov/34912000/>
³<https://pubmed.ncbi.nlm.nih.gov/34912000/>
⁴<https://pubmed.ncbi.nlm.nih.gov/34912000/>



U.S. Department of Health and Human Services
Centers for Disease Control and Prevention

Goal Setting and Trends



HEALTHY PEOPLE 2030

Assessing disparities and informing interventions



20th Anniversary

Cancer Trends Progress Report

progressreport.cancer.gov

Online Summary of Trends in U.S. Cancer Control Measures

The Cancer Trends 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 online report, intended for policy makers, researchers, and public health professionals, includes key measures of progress along the cancer control continuum and uses national trend data to illustrate where improvements have been made.

Report Features:

- Downloadable graphs and Excel data
- Ability to generate patient-friendly cancer reports
- Sharing options via email and social media
- Links to related cancers and statistics

Prevention

Factors on factors that have been observed to affect a person's risk of getting cancer: behaviors, selected environmental exposures, policies, and regulations.

- Behavioral Factors
- Tobacco Policy/Regulatory Factors
- HPV Vaccination
- Environmental Factors
- Genetic Testing

Early Detection

Describes trends in the use of mammography, Pap tests, HPV tests, fecal occult blood tests, colonoscopy, CT scans, and PSA blood tests.

- Breast Cancer
- Cervical Cancer
- Colorectal Cancer
- Lung Cancer
- Prostate Cancer

Diagnosis

Provides rates of new cases by cancer site and by race/ethnicity, as well as stage at diagnosis.

- Incidence
- Stage at Diagnosis

Treatment

Summarizes trends in quality of care, clinical trials, patterns of care, emerging treatments, and associated outcomes.

- Bladder Cancer
- Breast Cancer
- Colorectal Cancer
- Kidney Cancer
- Lung Cancer
- Melanoma of the Skin
- Ovarian Cancer
- Prostate Cancer

Life After Diagnosis

Explores social inequities for some of their leading causes as well as the economic impact of cancer treatment costs.

- Financial Burden of Care
- Survival
- Cancer Survivors and Smoking
- Cancer Survivors and Weight
- Cancer Survivors and Physical Activity

End of Life

Provides data on cancer mortality by common cancer sites, along with years of life lost due to cancer and other major causes of death.

- Mortality
- Years of Life Lost

Cancer Trends Progress Report, National Cancer Institute, NIH, NIH, Bethesda, February 2020. <https://progressreport.cancer.gov>



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DCCPS New Grantee Workshop

October 30-31, 2023

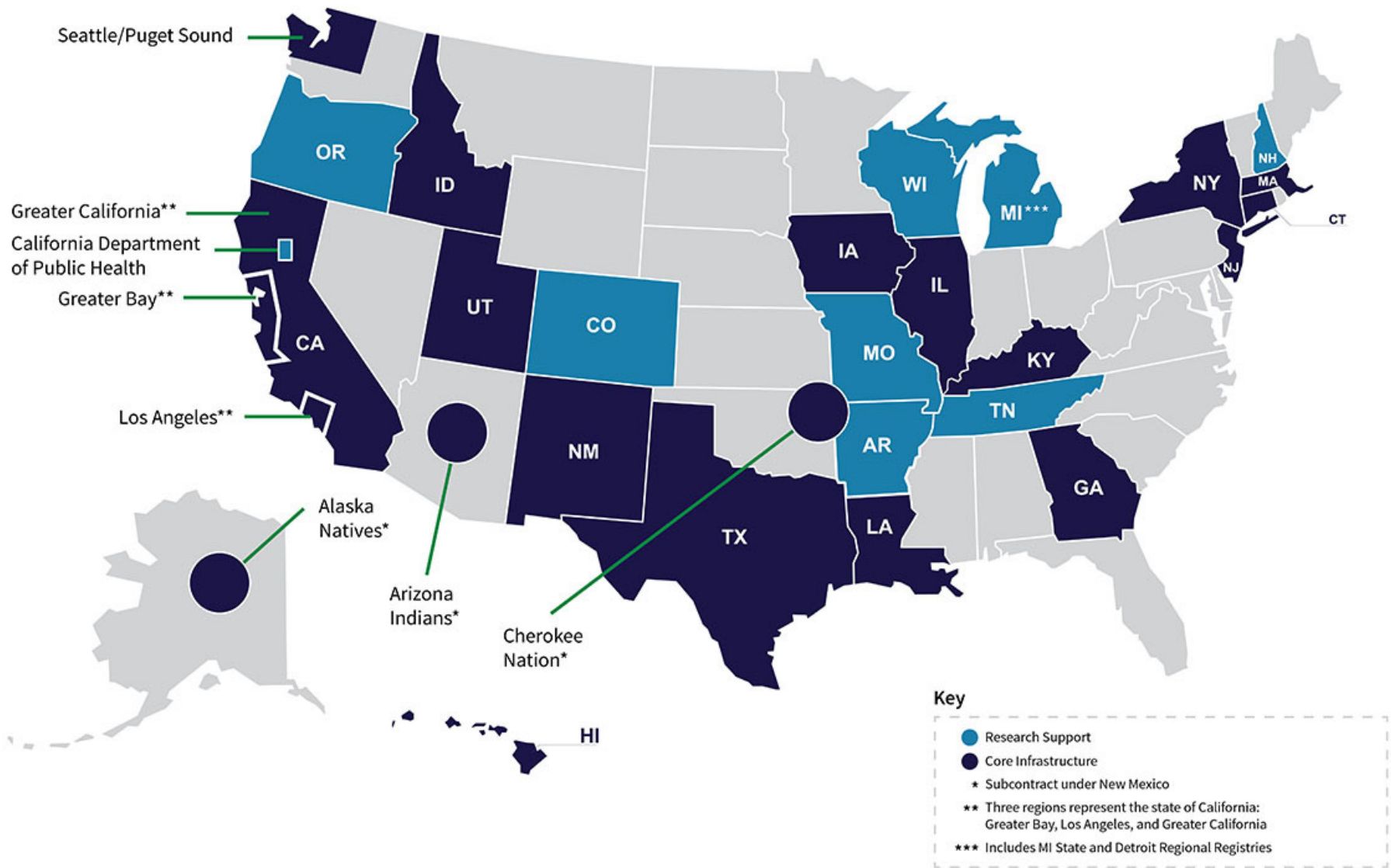
Kathy Cronin, PhD

Surveillance Research Program

Division of Cancer Control and Population
Sciences

National Cancer Institute

SEER Registries



Background For SEER

- SEER Data
 - Diagnosis, treatment, and outcomes of cancer since 1973
 - Provide data on U.S. cancer incidence, survival and prevalence
- Population-based registries representing almost 50% of the U.S. population
- Over 700,000 incident cases reported annually

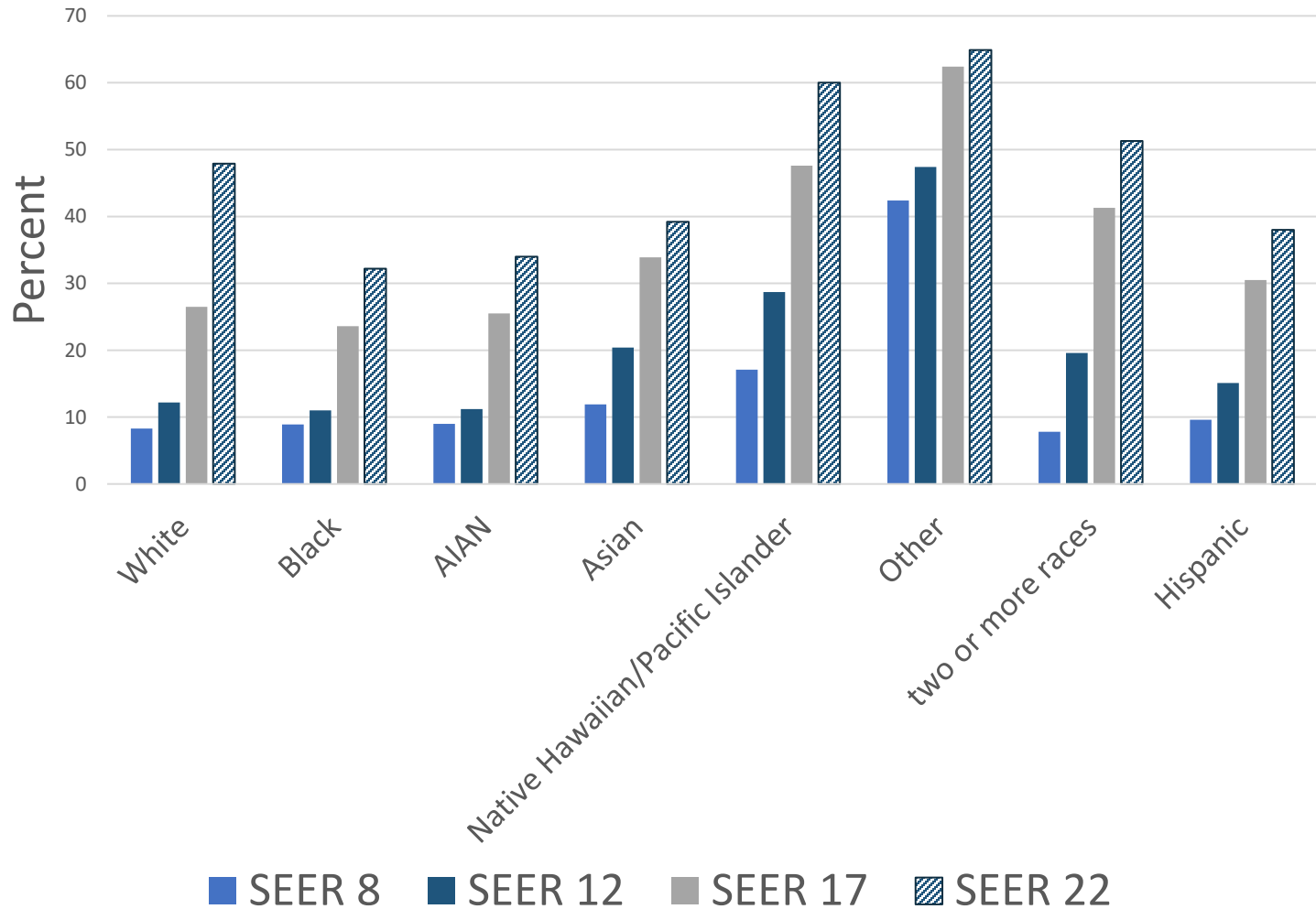
Evolution of SEER Over Time

- **SEER 9 covering years 1975+**
 - San Francisco-Oakland, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta
 - Covers 9.4% of the US population
- **SEER 13 covering years 1992+**
 - SEER 9 plus San Jose-Monterey, Los Angeles, Rural Georgia, Alaska Natives
 - Covers 13.4% of the US population
- **SEER 18 covering years 2000+**
 - SEER 13 plus California (excluding SF/SJM/LA), Kentucky, Louisiana, New Jersey, Georgia (excluding Atlanta and Rural Georgia)
 - Covers 27.8% of the US population

Evolution of SEER Over Time

- SEER 21 covering years 2000+
 - SEER 18 plus Idaho, New York, and Massachusetts
 - Covers about 35% of US population
- SEER 22 covering years 2000+
 - SEER 21 plus Illinois and Texas, minus Detroit
 - Covers about 48% of US population

Population Coverage by Race/Ethnicity



Data in SEER Registries



- **Demographic:** age, gender, area of residence, race and ethnicity, insurance status, marital status.
- **Tumor (cancer):** primary cancer site, histology, morphology, stage, lab values and tumor markers
- **Treatment:** first course of treatment - chemotherapy, surgery, radiation
- **Outcome** (follow-up for vital status): living or deceased, month and year of death and cause of death
- SEER data is linked at the county and census tract level with Census data and provide socio-economic variables based on residency
- **Data is consolidated and available for analyses**

Standard Statistics Reported Using SEER Data

- Incidence: Age-adjusted rate per 100,000
- Trends in incidence, annual percent change in rates, or average annual percent change over a specified time frame
- Prevalence of people alive with a previous diagnosis of cancer
- Cancer Survival Statistics (Relative or Cause Specific Survival)
- Probability of developing or dying of cancer over a lifetime

Where Are SEER Statistics Reported? <https://seer.cancer.gov/>

- SEER*Explorer
<https://seer.cancer.gov/explorer/>
- Did You Know Videos – highlight key topics and trends in cancer statistics
<https://seer.cancer.gov/statistics/videos/>
- Fact Sheets – Plain language summaries of key statistics by cancer site
<http://seer.cancer.gov/statfacts/>
- State Cancer Profiles (County level information and Interactive Maps)
<http://statecancerprofiles.cancer.gov/>
- Annual Report to the Nation - provides an annual update of cancer incidence, mortality, and trends in the United States.

SEER*STAT Software

- <https://seer.cancer.gov/seerstat/>
- Software provides access to SEER database, US mortality files, and population data from the Census
- 16,060 SEER*STAT downloads last year
- Analyses can run from simple to complex
- SEER*Stat Tools Webinars
<https://seer.cancer.gov/news/seerstat-webinars.html>

Statistical Software & Tools

<https://surveillance.cancer.gov/tools/>

Tools that use SEER*STAT output

- Joinpoint – Trend Analysis
- Devcan – Risk of Diagnosis and Death
- HD*Calc – Health Disparities Calculator
- CanSurv – Survival Models including Cure Models
- ComPrev and ProjPrev – Complete and Projected Prevalence

Software available for download

Thank you!

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