DCPC: Reflections, Priorities, and A Look at the Road Ahead

Lisa C. Richardson, MD, MPH Division Director

CPCRN Annual Spring Meeting

May 23, 2017



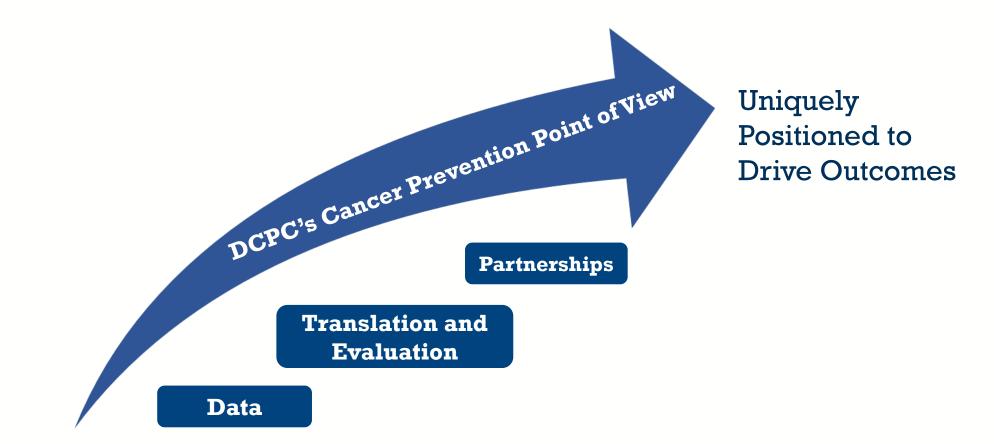
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Why CDC for Cancer Prevention and Control?



Our Guiding Principles

Address Health Disparities

Consider populations facing health inequities and how to reach them and improve their outcomes. Who might get left out of a program? How do we address and overcome barriers?

Define Expected Outcomes Upfront

Consider the purpose and expected outcomes during the initial planning phases. How will you know when you've been successful? What data do we need and how will we get it?

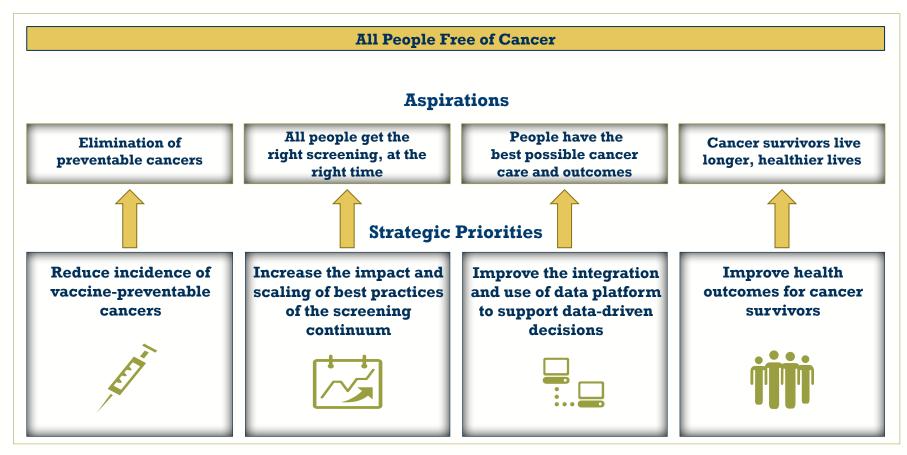
Collaborate

Consider each partner's strengths, capabilities, and assets as they relate to the strategic priorities. How might they add value to the work? How might they derive value from it?

Communicate: Tailor to a Specific Audience

Consider who is the recipient of the work and who is impacted by the messaging. What do they value? How do they receive and use information?

What We Will Achieve



Our Key Strengths

Data	Translation & Evaluation	Partners

People have the best possible cancer care and outcomes

Increasing Data Accessibility and Usability

Cancer Burden: North Carolina

Rate of new cancers, All Types of Cancer, 2013



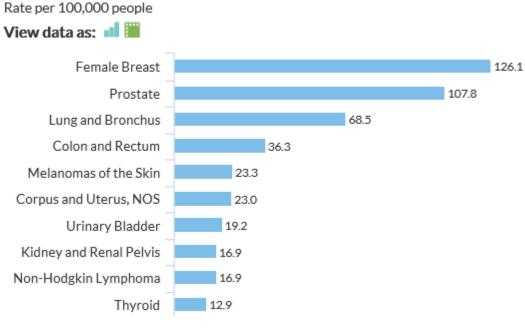
North Carolina Central Cancer Registry

State Center for Health Statistics Chronic Disease and Injury, Division of Public Health North Carolina Department of Health and Human Services 1908 Mail Service Center Raleigh, NC 27699-1908

(919) 715-4555

FAX: (919) 733-8485

Top 10 Cancers in North Carolina by Rates of new cancers



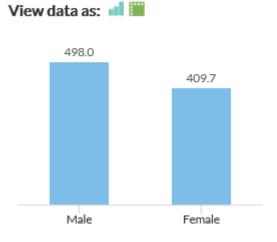
In North Carolina, in 2013, there were 49,970 new cases of cancer. For every 100,000 people, 445.4 were diagnosed with cancer.

The same year, there were **18,589 people** who died of cancer. For every 100,000 people in North Carolina, 167.7 died of cancer.

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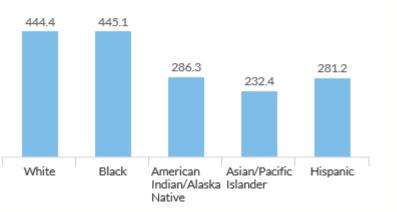


Rate of new cancer cases by

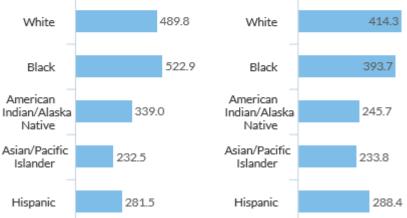
Sex, All Races/Ethnicities

Rate per 100,000 people

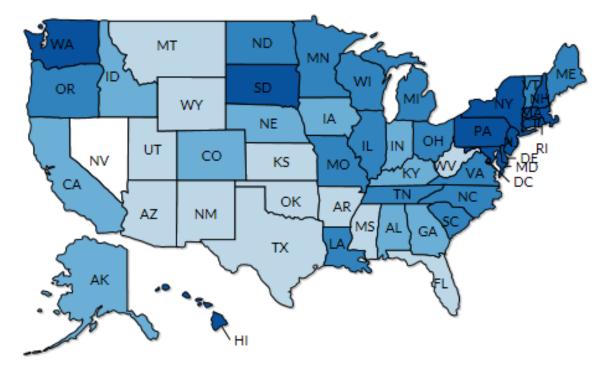
Rate of new cancer cases by Race/Ethnicity, Both Sexes Rate per 100,000 people View data as:



Rate of new cancer cases by Sex and Race/Ethnicity Rate per 100,000 people View data as: Male Female



Rate of new cancers, Breast (female), Female, 2013 Rate of new cancers by State, Female Breast

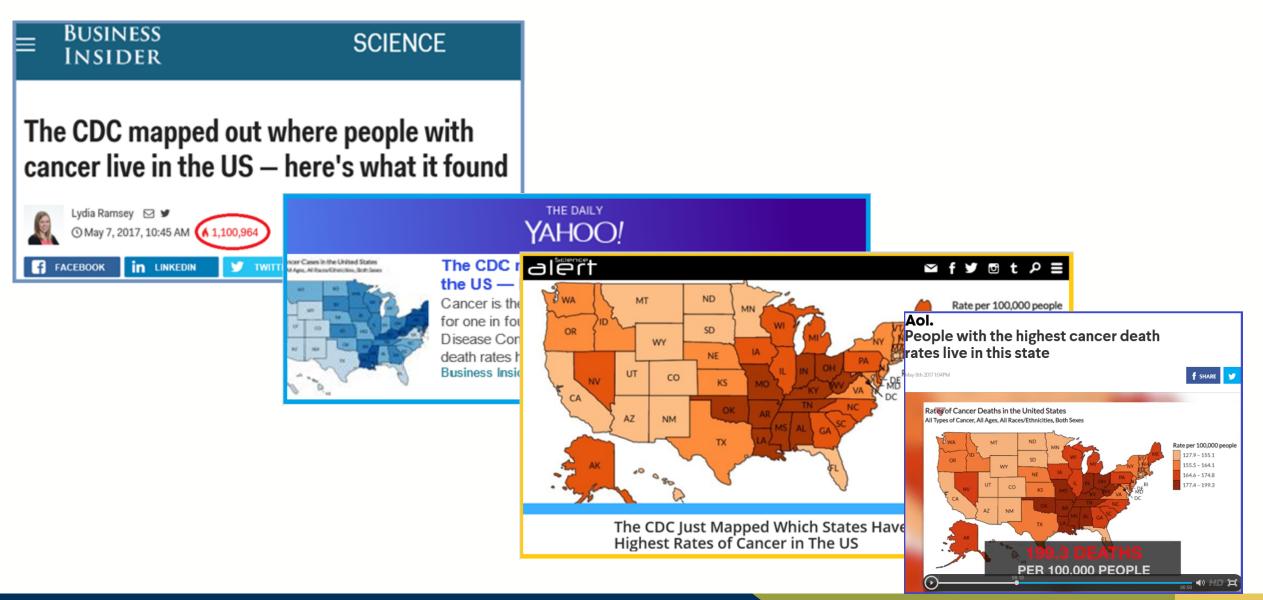


Rate per 100,000 women

No Data/ Data	104.9 - 118.3	118.3 - 124.7	124.5 - 130.2	130.2 - 148.5
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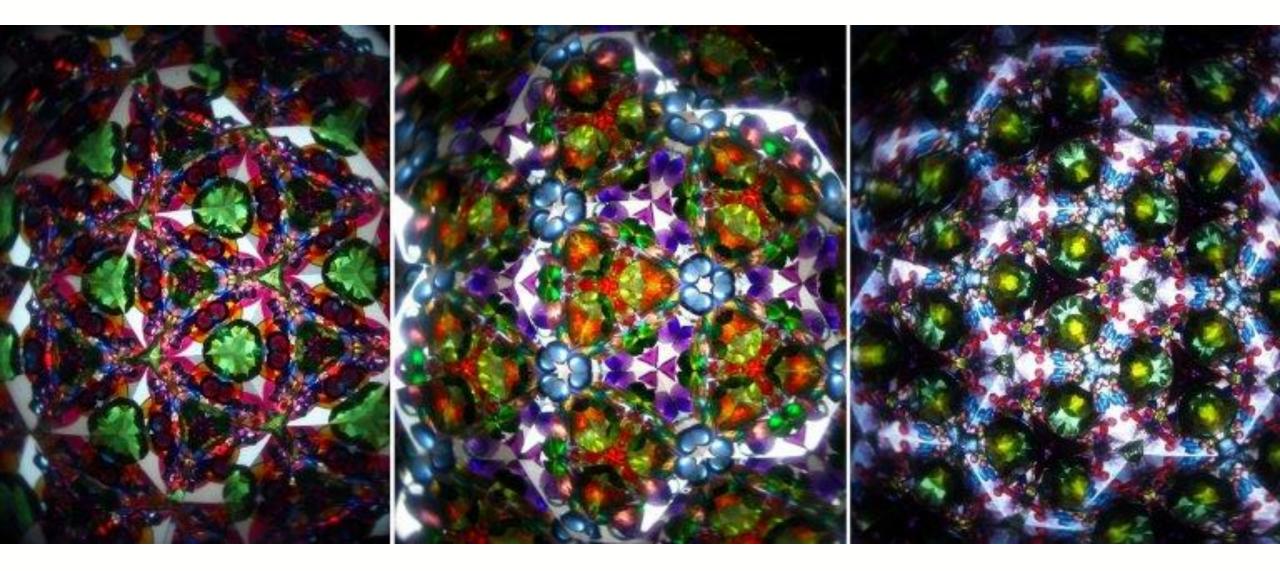
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95% Confidence I	nterval :	
New Hampshire)	C 145.4
South Dakota		10 146.1
Delaware		144.8
Hawall		143.9
Connecticut		135.4
District of Columbia		135.2
Rhode Island	-	137.8
Massachusette		137.2
New Jersey	-	135.5
Washington Maryland	-	135.3
Pennsylvania		130.5
New York		130.3
lingia		130.1
Wisconsin		128.6
Virginia	1	125.3
Minnesota	-	127.9
North Carolina		125.1
Maine		125.0
Ohlo		125.5
Vermont	-	125.6
North Dakota	-	125.5
Missouri		124.9
Michigan		124.5
Oregon	-	124.5
Louisiana	-	124.6
South Carolina		124.5
Colorado		125.6
Georgia		123.2
Kentucky	1	123.2
California		20.7
Alabama]	\$20.6
Alaska		\$20.5
Indiana		\$20.4
Idaho	-	119.4
Nebraska		112.7
lowa		113.4
Arkansas Oklahoma	-	1.5.2
		1105
West Virginia Kansas		115.5
Fiorida	-	1141
New Mexico		1126
Masasippi		112.5
Utah		111.0
Arizona]	110.9
Montana		109.4
Texas		105.4
Wyoming		105.0

Media Coverage



How do we evaluate our work?







Go to the official source of cancer prevention information: <u>www.cdc.gov/cancer</u>.

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.



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Looking Forward: Where We Want to Get to – *A Stronger Place*

- **Greater impact** (focused programs that deliver)
- More relevance (to all Americans)
- **Greater efficiency** (more manageable workload)
- More cohesion (working and fitting together well)





Elimination of Preventable Cancers



HPV & COMPREHENSIVE CANCER CONTROL



DCPC-NCIRD CoAg

Improving HPV Vaccination Rates Together (HPV Roundtable)



HPV Action Planning

11 states participated in a technical assistance workshop in May 2016

Prevention and Diagnosis Work Group Priorities: HPV Vaccination



Strategy: Promote HPV as Cancer Prevention

- National HPV Vaccination Roundtable
 - American Cancer Society, CDC (DCPC and NCIRD), and other partners
- Expand reach of current CDC Immunization and Comprehensive Cancer Control programs
- Establish HPV Vaccination State Affinity Groups (CMS, CDC, and HRSA)

All people get the right screening at the right time

The Colorectal Cancer Control Program (CRCCP) is relatively new, but has evolved over time.

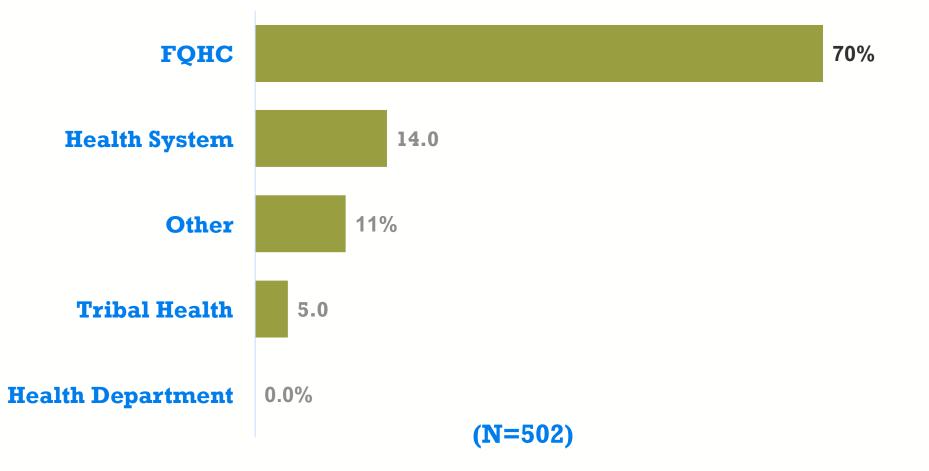
2005 -2009	2009-2015	2015-2020
CRCCP Demonstration Project • 5 grantees (state, county, city, and university)	 CRCCP DP09-903 & 14-1414 29 grantees (states, tribes, and territories) 	 CRCCP DP15-1502 30 grantees (states, universities, and tribe)
 Focus: Delivery of colorectal cancer (CRC) screening and diagnostic services Results: Viable strategy¹ 	 Focus: Delivery of CRC screening and diagnostic services CRC screening promotion for underserved populations 	 Focus: Health systems change³ Delivery of CRC screening and diagnostic services (6 grantees only)

Results:

Limited reach²

¹ Cancer, Supplement 119(15), August 1, 2013; ²Monograph in development; ³Satsangi A, **DeGroff A**. Planning a National-level Outcome Evaluation of the Colorectal Cancer Control Program. J Ga Public Health Assoc 2016: Supplement to Vol 6(2). <u>https://doi.org/10.21633/jgpha.6.2s16</u>

Grantees are working primarily with FQHCs



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Source: Clinic data submission, Component 1 only, all 30 reporting, thru 1/27/17

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By the end of Program Year 1, the reach of the CRCCP grantees was significant



75

Source: Clinic data submission, Component 1 only, all 30 reporting, January 2017

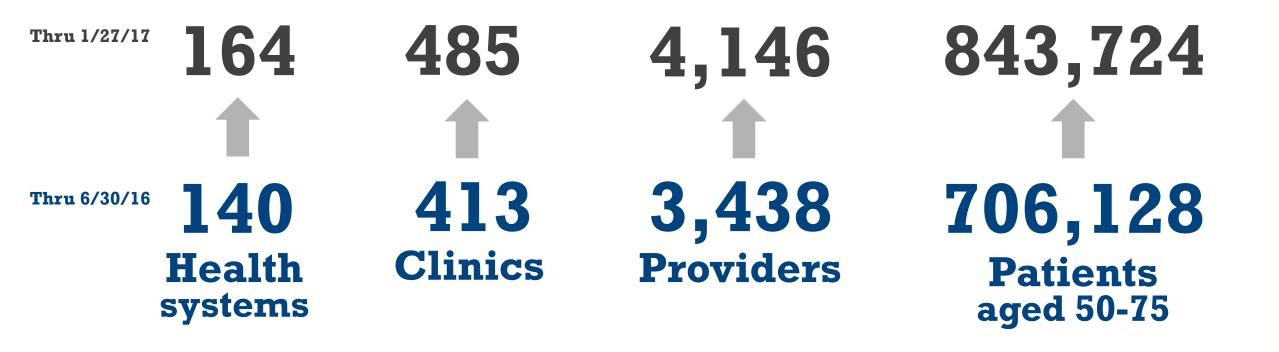
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And that reach is steadily increasing



Source: Clinic data submission, Component 1 only, all 30 reporting, January 2017

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At baseline, clinic screening rates were low

	Chart Review (n=74)	EHR (n=444)
Clinic Average	36%	33%
Median	33%	31%
Range	2% - 80%	0.1% - 80%

(Total N=485)

Source: Clinic data submission, Component 1 only, all 30 reporting, thru 1/27/17

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National Breast and Cervical Cancer Early Detection Program (NBCCEDP)

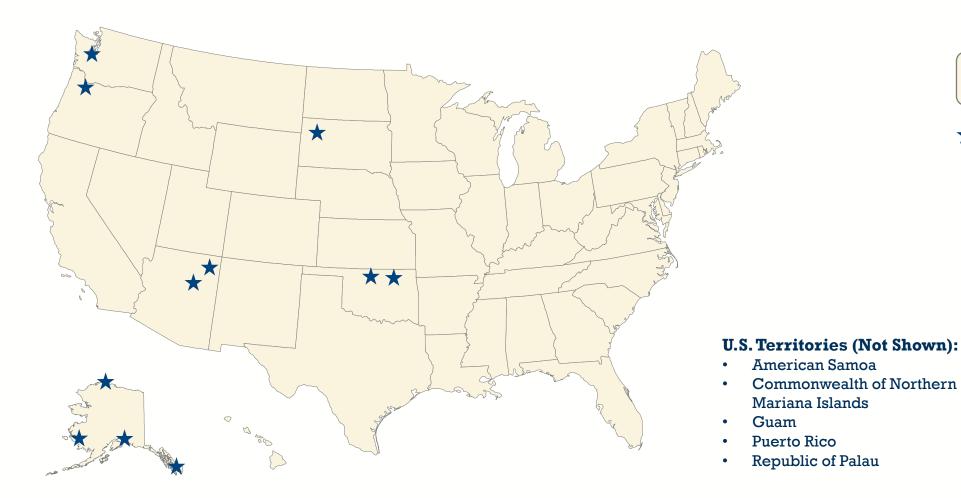


The National Breast and Cervical Cancer Early Detection Program began in 1991



- Important safety net that has provided >12M screening exams
- Expanding program to meet needs of new public health roles
- CDC's vision: increase population level screening rates

National Breast and Cervical Cancer Early Detection Program (NBCCEDP)



NBCCEDP

★ Tribal Organizations:

- Arctic Slope Native
 Association Limited
- Cherokee Nation
- Cheyenne River Sioux
 Tribe
- Hopi Tribe
- Kaw Nation of Oklahoma
- Native American Rehabilitation Association of the Northwest, Inc.
- Navajo Nation

•

- Southcentral Foundation
- South East Alaska Regional Health Consortium
- South Puget Intertribal Planning Agency
- Yukon-Koskowin Health Corporation

Funded in all 50 states, the District of Columbia, 5 U.S. territories, and 11 tribal organizations

Since Inception

- 25+ years of service
- 5 million women screened
- >12 million breast and cervical cancer screening examinations completed
- 70,997 breast cancers detected
- 3,845 invasive cervical cancers detected
- 175,688 pre-malignant cervical lesions, of which 40% were high grade

Breast and Cervical Cancer Prevention and Treatment Act of 2000

- Allowed states the option to offer women in the NBCCEDP access to treatment through Medicaid
- The Native American Breast and Cervical Cancer Treatment Technical Amendment Act of 2001 extended these same services to American Indians and Native Alaskans who received their care through the Indian Health Service.
- Each state establishes their own guidelines for treatment eligibility

Program Performance (Quality)

Timeliness of Breast Cancer Diagnosis and Initiation of Treatment in the National Breast and Cervical Cancer Early Detection Program, 1996–2005

Lisa C. Richardson, MD, MPH, Janet Royalty, MS, William Howe, BS, William Helsel, MS, William Kammerer, BS, and Vicki B. Benard, PhD

Screening for breast cancer reduces morbidity Objectives. To determine the effects of program policy changes, we exami Timeliness of Cervical Cancer Diagnosis and Initiation of Treatment in the National Breast and Cervical Cancer Early Detection Program

Vicki B. Benard, Ph.D.¹ William Howe, B.S.² Janet Royalty, M.S.¹ William Helsel, M.S.² William Kammerer, B.S.² and Lisa C. Richardson, M.D., M.P.H.

Conclusions: "Women screened by the NBCCEDP received diagnostic follow-up and initiated treatment within pre-established program

roman delage great in Part 3 to firm the to and the spectra call with provide weeks recent modeling studies have shown that the declines in mortality are attributable to both early detection and subsequent treatment.¹ Minority women, uninsured women, and women from lower socioeconomic backgrounds often do not Legislation for program enhancements that have access to early detection.5-7 These women are less likely to participate in mammography follow-up after an abnormal screening test relikely to receive suboptimal treatment.12-15 The National Breast and Cervical Cancer thorized by Congress in 1990 to reach unprogram, the NBCCEDP has established service treatment initiation after abnormal screening mammograms and CBEs. CBEs were com-

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implemented in 2000, and a Medicaid waiver screening,⁸ less likely to have timely and complete authorized by Congress in 2000 and fully implemented in 2003, should have improved the in detail elsewhere.^{16,17,23} sult,⁹¹⁰ more likely to be diagnosed with late-stage program's ability to meet these standards.¹⁹⁻²² breast cancer, 67,11 more likely to die from breast Accordingly, we hypothesized that cancer once diagnosed.⁶⁷ and might be more NBCCEDP service delivery benchmarks would used a set of standardized data items to improve over time with shortening of time

Richardson LC, et al. Timeliness of Breast Cancer

Diagnosis and Initiation of Treatment. AJPH. 2010

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the program.¹⁷ Previous analysis of program benchmarks demonstrated that the national program was meeting its predefined quality

in the 2001-2005 period.20-2 METHODS

standards of having a diagnosis within 60 days of an abnormal screening test result and initiation of The Centers for Disease Control and Pretreatment within 60 days of diagnosis.18

Published online ahead of print December 17, 2009 | American Journal of Public Health

I is inmograms and abnormal clinical breast examinations from 77% to 82% conclusions. Women screened by the NBCCEDP received diagnostic followup and initiated treatment within preestablished program guidelines. (Am J Public Health. Published online ahead of print December 17, 2009: e1-e8. doi:10. 2105/AJPH.2009.160184)

with states, American Indian/Alaska Native added case management services, which was fully tribes, and territories to provide screening. referral, and follow-up services to women through the NBCCEDP and has been described Since the program's inception in 1991, the

Centers for Disease Control and Prevention has monitor screening, diagnostic follow-up, and intervals after an abnormal mammogram or treatment initiation activities. Women reported Early Detection Program (NBCCEDP) was au- dinical breast examination (CBE) finding to final demographic characteristics, prior mammogradiagnosis, as well as the interval to treatment phy history, and breast symptoms at enrollderserved women.¹⁶ Since the inception of the initiation after diagnosis, and the interval to ment. Providers reported dates and results of delivery benchmarks to ensure timely and complete diamostic follow-up and treatment initiation for underserved women screened through to examine the effects of program policy changes procedures, outcomes, and the date of treatment initiation. For this study, data from 50 states, the District of Columbia, 13 tribes, and 4 territories were used for the study period of 1996-2005. Each woman's county of residence and a US Census data file were used to vention implemented cooperative agreements categorize residence at the time of screening

Richardson et al. | Peer Reviewed | Research and Practice | et

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(predicted marginals) were calculated using logistic regression to examine diagnosis and treatment within program benchmarks (≤ 60 days).

Results: Median diagnostic intervals decreased overall by 6 days (54 vs. 48 days, p < 0.001). This decrease in the median diagnostic interval was noted for all variables examined. The median treatment initiation intervals remained stable over the two time periods.

Conclusions: Women screened by the NBCCEDP receive diagnostic follow-up and initiate treatment within preestablished program guidelines.

Intro duction

comes, as well as costs for both the individual and the diagnosed with late-stage disease. healthcare system.1 A systematic review of follow-up care The National Breast and Cervical Cancer Farly Detection across studies, ranging from 7% to 73%.2,3

that might ensure the best chances of survival from cervical plemented in 2003 were expected to improve the ability of

Division of Cancer Prevention and Control, Centers for Disease Control and Prevention, Atlanta, Georgia. Information Management Services, Inc., Silver Spring, Maryland.

Benard VB, et al. Timeliness of Cervical Cancer **Diagnosis and Initiation of Treatment. JWH. 2012.**



after abnormal screening tests for cervical, breast, and colon Program (NBCCEDP) was authorized by Congress in 1990 to cancer showed that <75% of women received timely and reach underserved women." Since the inception of the proappropriate follow-up care.² The proportion of women who gram, the NBCCEDP established quality standards to assure were followed after abnormal Pap tests varies dramatically timely and complete diagnostic follow-up and treatment initiation for underserved women screened through the pro-Cervical cancer is preventable through early detection and gram. Legislation for program enhancements that added use removal of prenalignant changes. There are few data to in- management services in 2000 and a Medicaid waiver to supdicate what the optimal diagnostic and treatment intervals are port cancer treatment authorized by Congress and im-

Simulation-based Analyses on Life Years Gained From Selected Population-based Prevention Programs

Intervention	Target Population	LYs saved per person/ year	Data sources, yr
Quitting cigarette smoking	35-year-olds	0.667–0.833	Wright JC, 1998
All childhood immunizations	<5 years old	0.1233	Maciosek MV, 2010
NBCCEDP-Breast cancer screening	40-64 years	0.056	Hoerger TJ, 2011
NBCCEDP—Cervical cancer screening	18-29 years	0.023	Ekwueme DU 2014
NBCCEDP—Cervical cancer screening	30-39 years	0.01	Ekwueme DU 2014
Measles vaccine	<5 years old	0.008	Wright JC, 1998
Rubella vaccine	<5 years old	0.008	Wright JC, 1998
NBCCEDP—Cervical cancer screening	18-64 years	0.006	Ekwueme DU 2014
Breast cancer screening	50+ year-old women	0.0045	Maciosek MV, 2010
Colorectal cancer screening	50 +years FOBT	0.0041	Maciosek MV, 2010
NBCCEDP—Cervical cancer screening	40-64 years	0.003	Ekwueme DU 2014
Influenza immunization	50 + years	0.0024	Maciosek MV, 2010
Cervical cancer screening	21+ years women	0.0002	Maciosek MV, 2010

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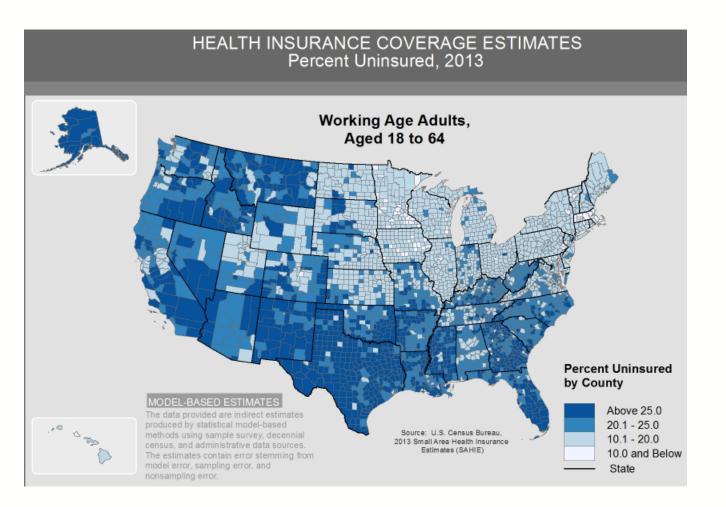
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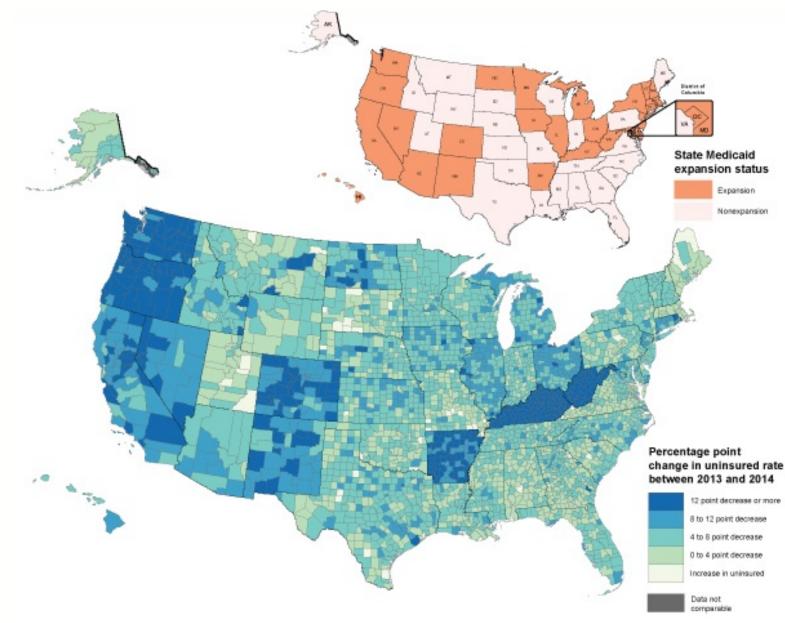
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NBCCEDP: Estimating Eligible Population

- DCPC provided partial funding for the US Census Bureau to:
 - Estimate NBCCEDP Eligible Population
 - Develop the Small Area Health Insurance Estimates (SAHIE)
- SAHIE is only source of singleyear health insurance coverage estimates for all U.S. counties

For more information visit: http://www.census.gov/did/www/sahie/index.html





2013-2014 Change in Uninsured Rate for Low-Income Adults Ages 18-64

US Census Bureau, 2016 http://www.census.gov/newsroom/press-releases/2016/cb16-86.html

Quality Indicators for Monitoring Program Performance

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Туре	Indicator	Target
Screening Priority Population	Mammography screening age 50 and older	<u>></u> 75%
	Women rarely/never screened for cervical cancer	<u>></u> 20%
Timely and complete Diagnostic follow-up of	Breast diagnosis completed	<u>> 90%</u>
abnormal screening results	Breast diagnosis completed within 60 days	<u>></u> 75%
	Cervical diagnosis completed	<i>≥90%</i>
	Cervical diagnosis completed within 90 days	<i>≥75%</i>
Timely and complete Treatment initiated for	Breast treatment initiated	<u>≥</u> 90%
cancers diagnosed	Breast treatment initiated within 60 days	<u>>80%</u>
	Cervical treatment initiated	<u>>90%</u>
	Cervical treatment initiated within 60 days (Invasive)	<u>>80%</u>
	Cervical treatment initiated within 90 days (CIN2/3)	<u>></u> 80%

NBCCEDP – Data Quality Indicator Guide

Breast Cancer

Standards	2015
% Diagnostic follow-up complete \geq 90%	95.9%
% Treatment initiation \geq 90%	96.6%
% >60 days Screening to Diagnosis $\leq 25\%$	6.8%
% >60 days Diagnosis to Treatment $\leq 20\%$	7.7%

Cervical Cancer

Standards	2015
% Diagnostic follow-up complete \geq 90%	92.3%
% Treatment initiation \geq 90%	92.5%
% >90 days Screening to Diagnosis $\leq 25\%$	14.3%
% >90 days Diagnosis to Treatment $\leq 20\%$	6.9%

People have the best possible cancer care and outcomes

Increasing Data Accessibility and Usability

Cancer Burden: North Carolina

Rate of new cancers, All Types of Cancer, 2013



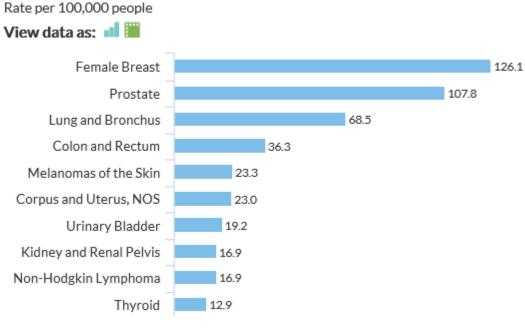
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Top 10 Cancers in North Carolina by Rates of new cancers



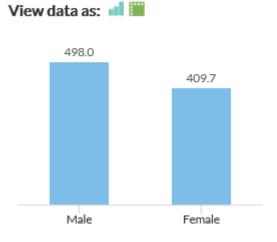
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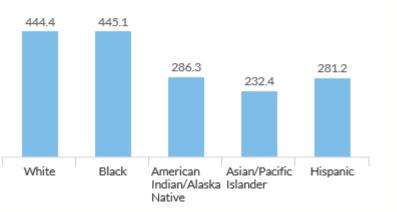


Rate of new cancer cases by

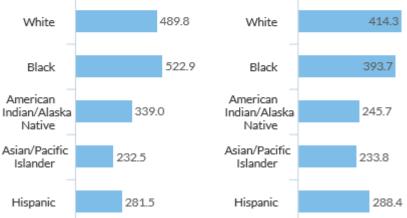
Sex, All Races/Ethnicities

Rate per 100,000 people

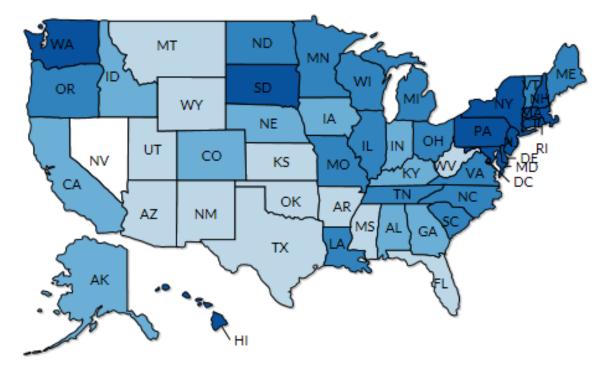
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Rate of new cancer cases by Sex and Race/Ethnicity Rate per 100,000 people View data as: Male Female



Rate of new cancers, Breast (female), Female, 2013 Rate of new cancers by State, Female Breast

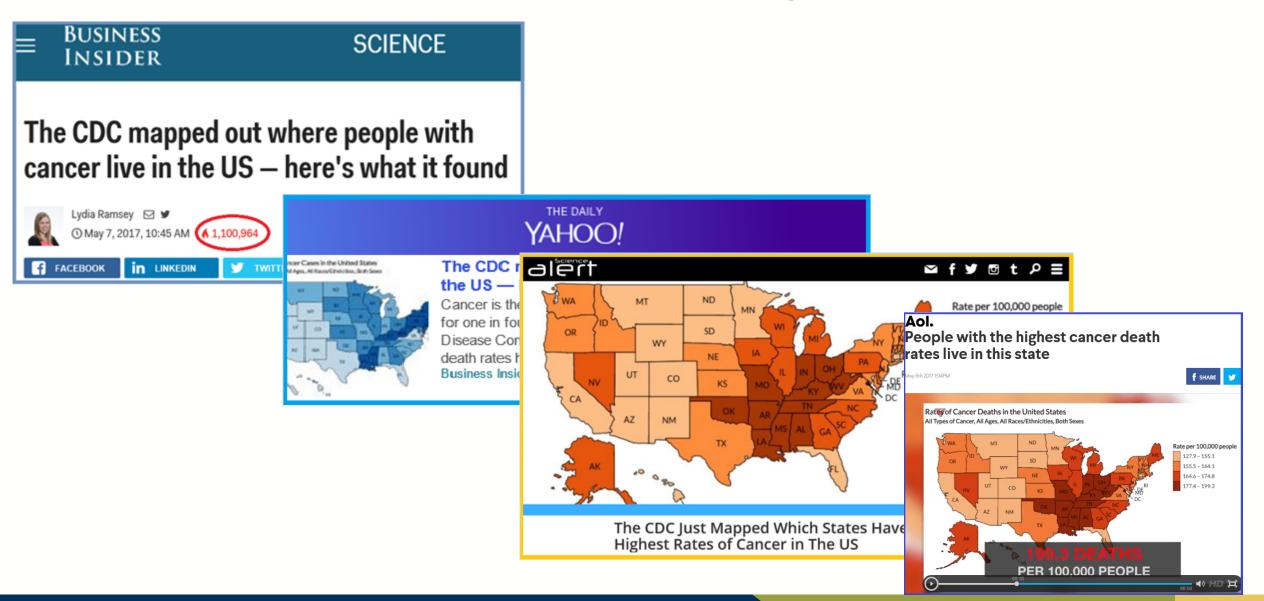


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New Hampshire		C 145.4
South Dakota		\$9 145.1
Delaware		144.8
Hawall		143.9
Connecticut		138.4
District of Columbia		138.2
Rhode Island	-	137.8
Massachusette		137.2
New Jersey	-	135.5
Washington Maryland		135.3
Pennsylvania		130.5
New York		130.5
Illinois		130.1
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Vermont		125.6
North Dakota		125.5
Missouri		124.9
Michigan		124.8
Oregon	-	124.8
Louisiana	-	124.6
Tennessee		124.6
South Carolina		124.5
Colorado		123.6
Georgia Kentucky		123.2
California	-	120.9
Alabama		120.6
Alaska		120.5
Indiana	1	20.4
Idaho		119.4
Nebraska		118.7
lowa		13.4
Arkansas		18.2
Oklahoma		197.0
West Virginia		46.5
Kanzas		18.6
Florida		141
New Mexico		20
Masasippi		20
Utah	11	
Arizona	110	
Montana	100	
Wyoming	105.0	
an possible	2000	

Media Coverage

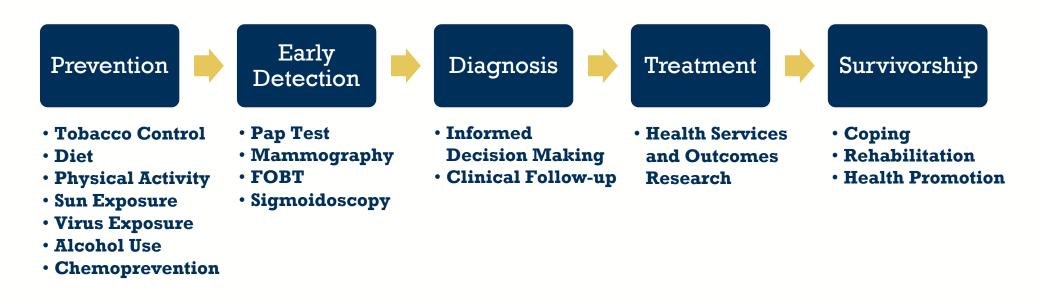


Cancer Survivors Live Longer Healthier Lives

Cancer Survivorship

The number of cancer survivors in the U.S. is large, growing, and increasingly diverse. Cancer takes a physical, psychosocial, and financial toll on survivors, making some survivors particularly vulnerable. CDC is evaluating and disseminating promising practices and interventions to promote health and improve quality of life of cancer survivors.

Cancer Control Continuum: Survivorship



	Communications — — — — — — — — — — — — — — — — — — —
Cross-	Surveillance/epidemiology/evaluation
	Research
cutting issues	Social determinants and health disparities
	Genomics
	Quality of and access to cancer services —

CDC/DCPC Focused Survivorship Work

Research & Publications



Programs

Population-Based Surveys



Surveillance



Health Promotion





CENTERS FOR DISEAS

PERSPECTIVE DRUGS & DISEASES

CME & EDUCATION



Collaborating to Conquer Cancer

Comprehensive Cancer Control

A PROGRAM OF THE YMCA AND THE LANCE ARMSTRONG FOUNDATION



2017 National Cancer Conference



2017 CDC National Cancer Conference

Visualizing the Future through Prevention, Innovation, and Communication

- Opportunity for translating research into practice to improve public health
- August 14-16, 2017
- Speakers:
 - Lucille Adams Campbell
 - Atul Gwande
 - Joan Lunden
 - Sanjeev Arora

https://www.cdc.gov/cancer/conference/



Go to the official source of cancer prevention information: <u>www.cdc.gov/cancer</u>.

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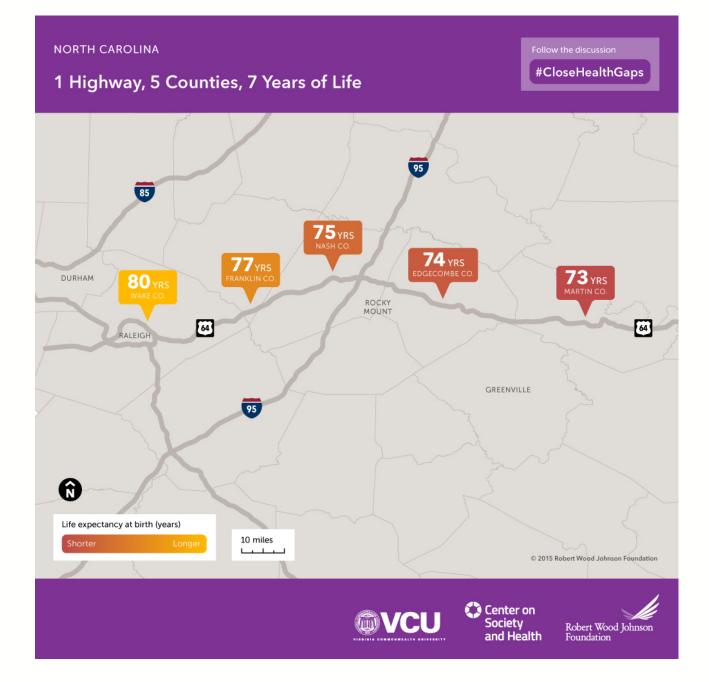


CDC's Cancer Aspirations and Strategic Priorities

Elimination of preventable cancers	 Reduce incidence of vaccine-preventable cancers 	
All people get the right screening at the	 Increase the impact and scaling of best practices of the screening continuum 	
right time People have the best	••Improve the integration and use of data platform	
possible cancer care and outcomes	to support data-driven decisions	
Cancer survivors live longer, healthier lives	••Improve health outcomes for cancer survivors	

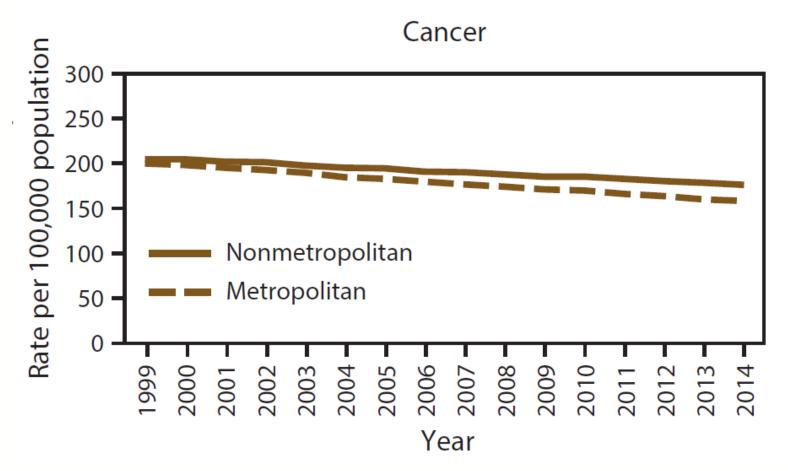






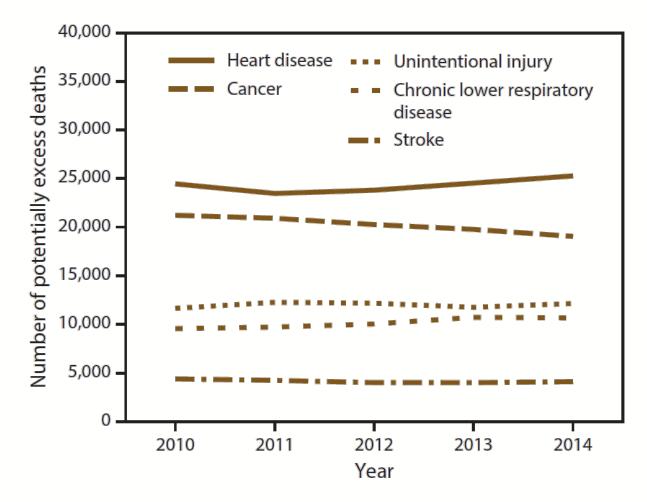
http://www.societyhealth.vcu.edu/work/the-projects/mapping-life-expectancy.html

Age-adjusted death rates among persons of all ages for five leading causes of death in nonmetropolitan and metropolitan areas, National Vital Statistics System, United States, 1999–2014



Moy E, Garcia MC, Bastian B, et al. Leading Causes of Death in Nonmetropolitan and Metropolitan Areas — United States, 1999–2014. MMWR Surveill Summ 2017;66(No. SS-1):1–8. DOI: http://dx.doi.org/10.15585/mmwr.ss6601a1

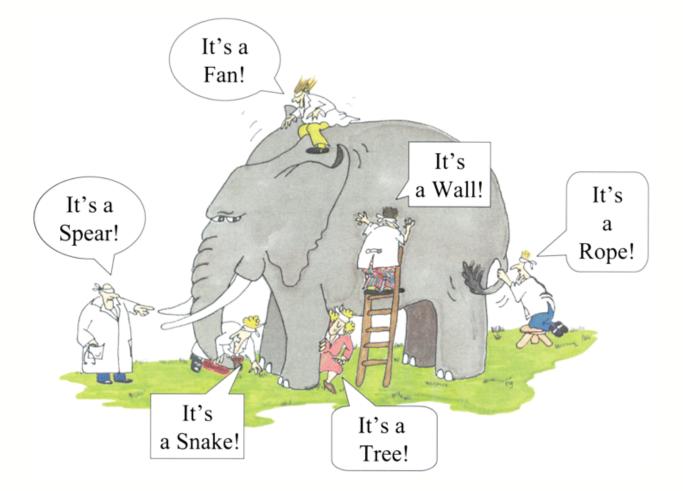
Number of potentially excess deaths among persons aged <80 years for five leading causes of death in nonmetropolitan areas National Vital Statistics System, United States, 2010–2014



Moy E, Garcia MC, Bastian B, et al. Leading Causes of Death in Nonmetropolitan and Metropolitan Areas — United States, 1999–2014. MMWR Surveill Summ 2017;66(No. SS-1):1–8. DOI: http://dx.doi.org/10.15585/mmwr.ss6601a1



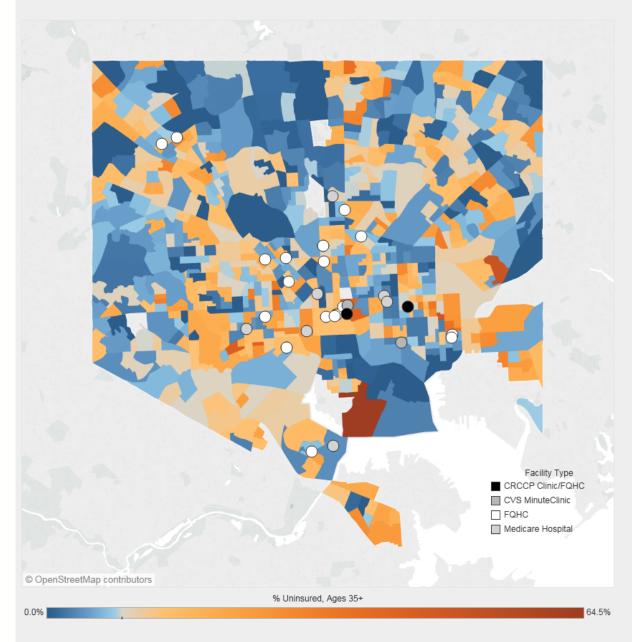
Seeing opportunities for prevention requires working across disciplines and sectors



RESEARCH

Careful study that is done to report *new knowledge*

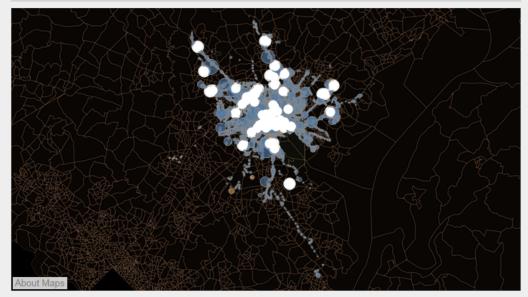
Access to Clinics among Baltimore's Uninsured Population Select an area on the map to view the closest clinic in terms of public transit time



Closest Established CRCCP Clinic

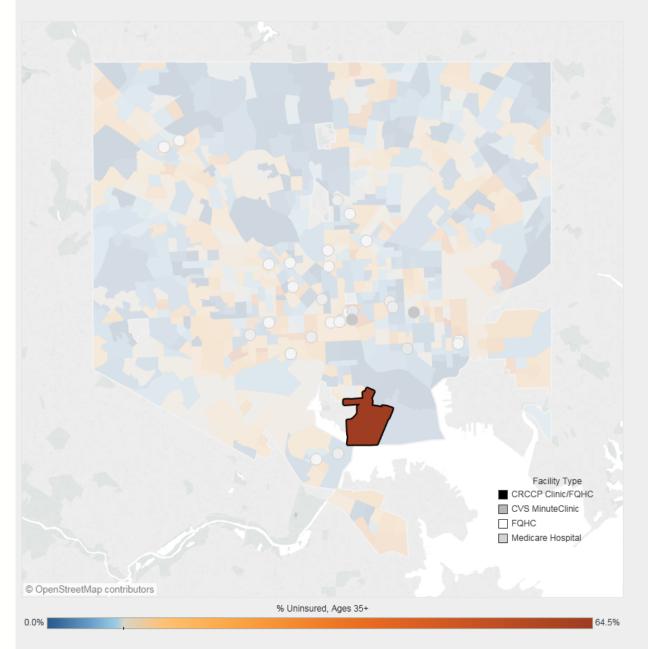
Closest Facility

MTA Transit Bus Stops (demo in progress)



Source: MD iMAP (data.imap.maryland.gov)

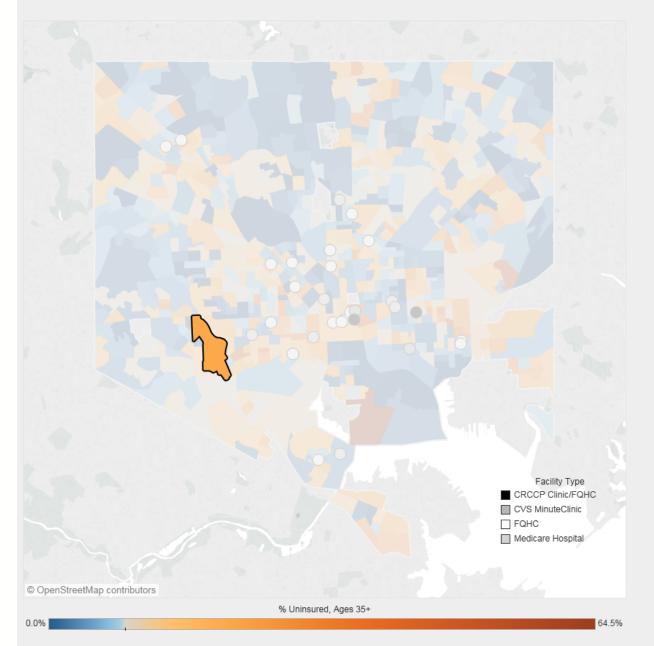
Access to Clinics among Baltimore's Uninsured Population Select an area on the map to view the closest clinic in terms of public transit time



Closest Established CRCCP Clinic	
HEALTH CARE FOR THE HOMELESS	27.
Closest Facility	
MERCY MEDICAL CENTER INC	16

MTA Transit Bus Stops (demo in progress)

Access to Clinics among Baltimore's Uninsured Population Select an area on the map to view the closest clinic in terms of public transit time

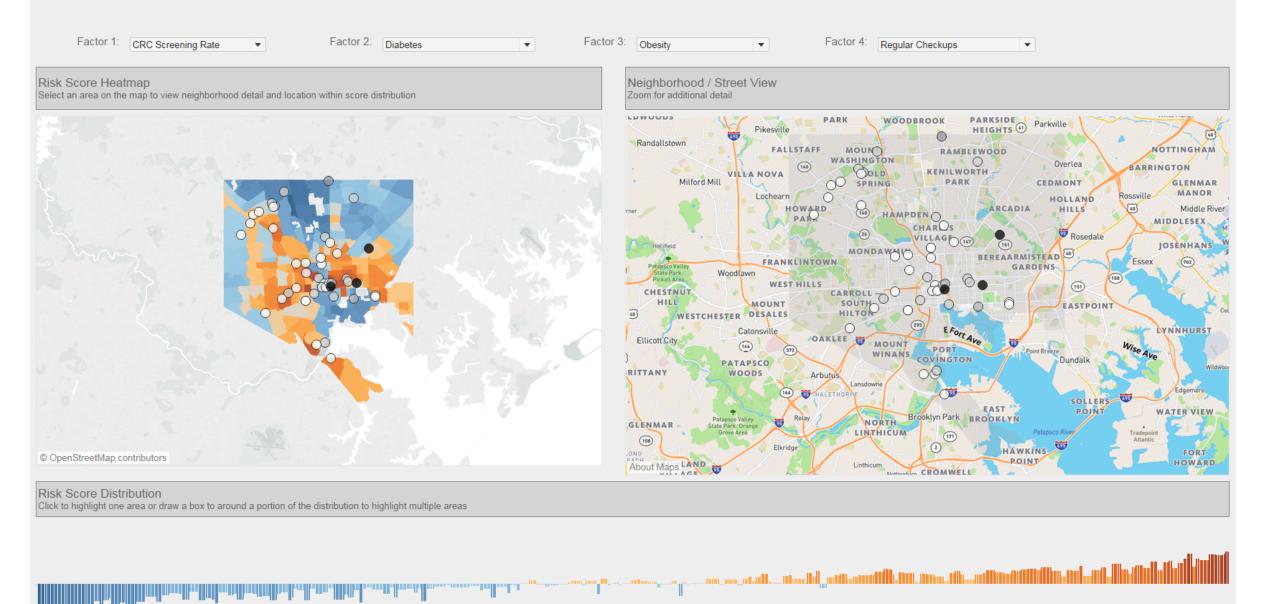


Closest	Established CRCCP Clinic	
HEALTH CA	ARE FOR THE HOMELESS	20.
	Closest Facility	
BON S	SECOURS HOSPITAL	11

MTA Transit Bus Stops (demo in progress)

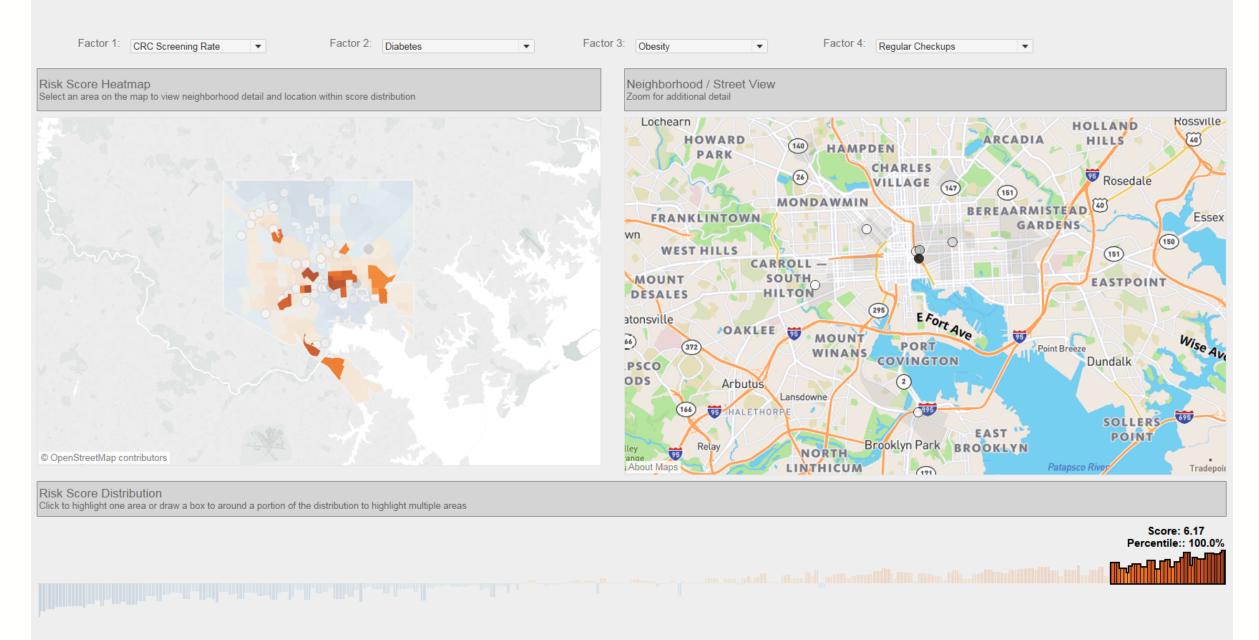
Identifying Vulnerable Areas

Select up to four risk factors to calculate a composite risk score* for side-by-side comparisons of small areas

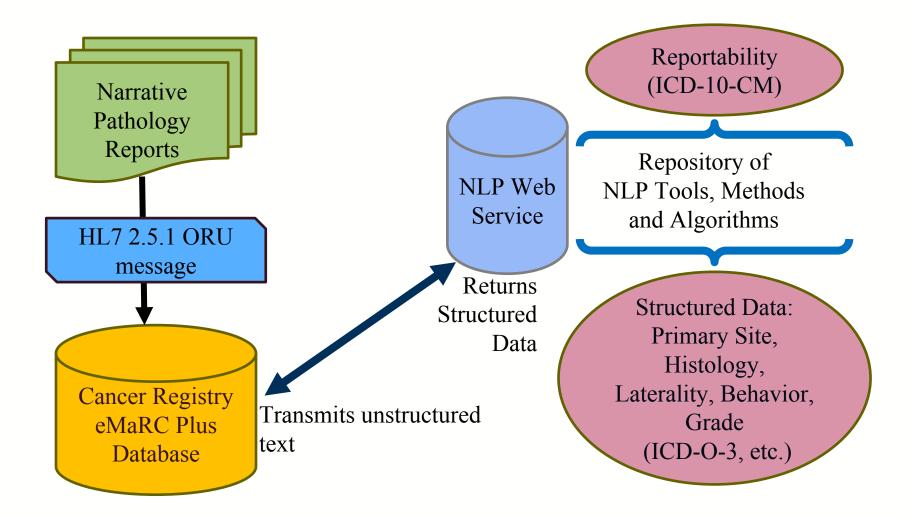


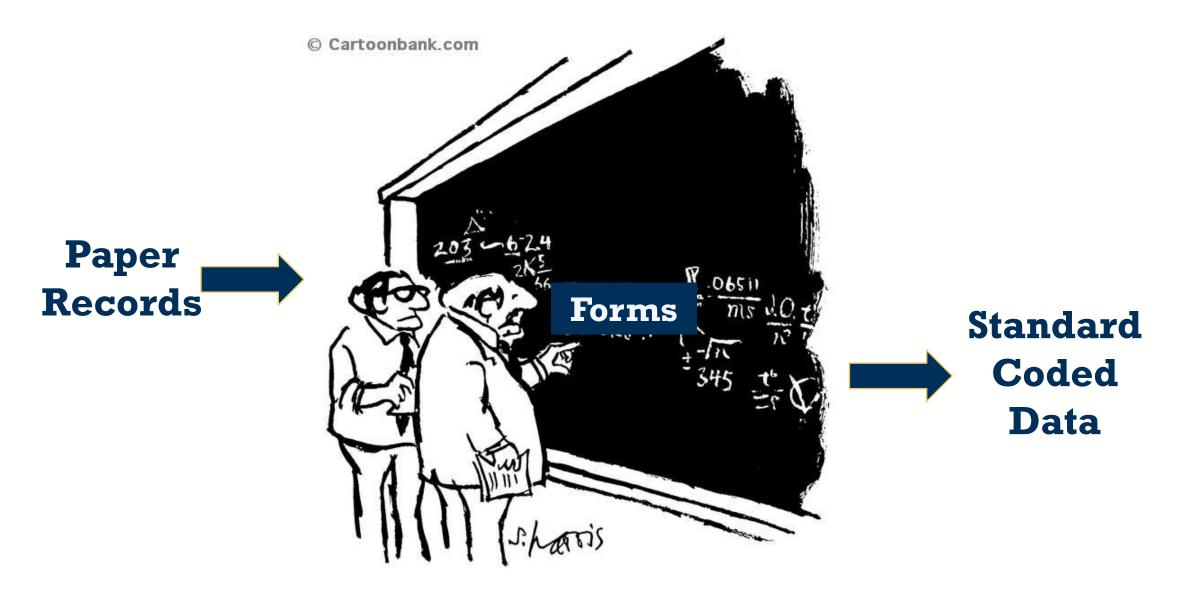
Identifying Vulnerable Areas

Select up to four risk factors to calculate a composite risk score* for side-by-side comparisons of small areas



Conceptual NLP Design for Cancer Pathology





"I think you should be more explicit here in step two."

