

Workshop on Restricted Health Data Available at the Philadelphia FSRDC

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University of Pennsylvania March 22, 2017

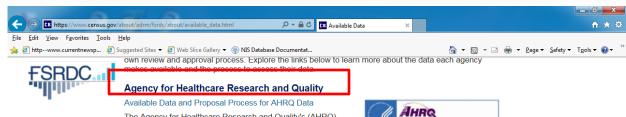


Disclaimer

The findings and conclusions in this presentation are those of the author and do not necessarily represent the views of the Agency for Healthcare Research and Quality or the Centers for Disease Control and Prevention.



FSRDC Health Data



The Agency for Healthcare Research and Quality's (AHRQ) mission is to produce evidence to make health care safer, higher quality, more accessible, equitable, and affordable, and to work with the U.S. Department of Health and Human Services (HHS) and other partners to make sure that the evidence is understood and used.



AHRQ's priority areas of focus are: (1) Improve health care quality by accelerating implementation of patient-centered outcomes research (PCOR), (2) Make health care safer, (3) Increase accessibility to health care. (4) Improve health care affordability, efficiency, and cost transparency.

Census Bureau

Available Data and Proposal Process for Census Bureau Data

The Census Bureau's mission is to serve as the leading source of quality data about the nation's people and economy. We honor privacy, protect confidentiality, share our expertise globally, and conduct our work openly. We are guided in this mission by scientific objectivity, our strong and capable workforce, our devotion to research-based innovation, and our abiding commitment to our customers. Our researchers explore innovative ways to conduct surveys, increase respondent participation, reduce costs, and improve accuracy.



RDC research is critical to the Census Bureau. One way for the Census Bureau to check the quality of the data it collects, edits, and tabulates is to make its microdata records available in a controlled, secure environment to sophisticated users who, by employing the micro records in the course of rigorous analysis, will uncover the strengths and weaknesses of the microdata records. Each set of observations is the result of many decision rules covering definitions, classifications, coding procedures, processing rules, editing rules, disclosure rules, and so on. The validity and consequences of all these decision rules only become evident when the Census Bureau's micro databases are tested in the course of analysis. These analyses can also help address important policy questions without the need for additional, expensive and

National Center for Health Statistics

Available Data and Proposal Process for NCHS Data

The mission of the National Center for Health Statistics (NCHS) is to provide statistical information that will guide actions and





Plan for Presentation

- Description of AHRQ data (MEPS)
- Description of NCHS datasets
- Description of restricted data
 - --Geocodes
 - --Other restricted variables
 - -- Early release data (NHIS)
 - --Linked administrative records
- Examples of use of restricted data
- Some proposal tips



Medical Expenditure Panel Survey (MEPS) History

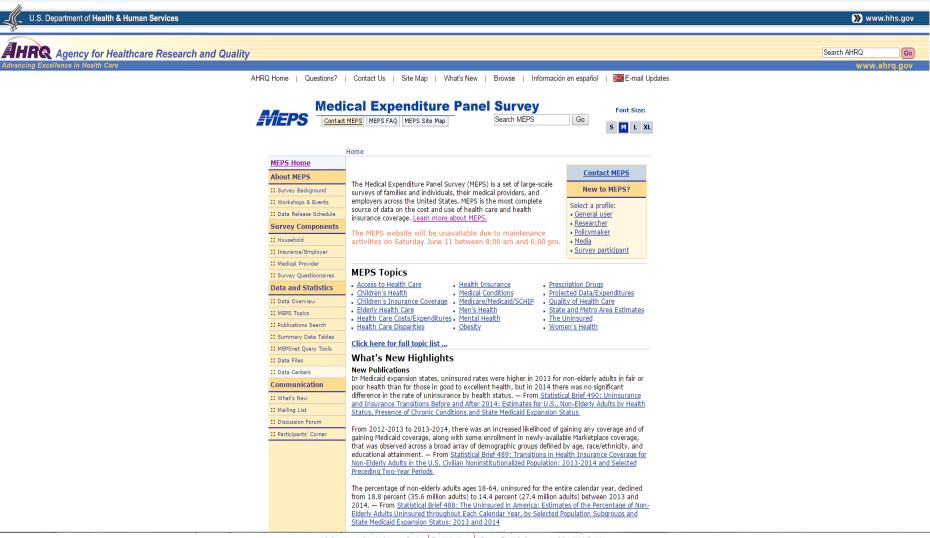
□1977 National Medical Care Expenditure Survey (NMCES)

□1987 National Medical Expenditure Survey (NMES)

■1996 Medical Expenditure Panel Survey (MEPS)



www.meps.ahrq.gov



U.S. Department of Health & Human Services The White House USA.gov: The U.S. Government's Official Web Portal Agency for Healthcare Research and Quality • 540 Gaither Road Rodwille, MD 20850 • Telephone: (301) 427-1384



MEPS Survey Components

- **■MEPS-HC:** Household Component
- ■MEPS-MPC: Medical Provider Component
 - Follow-back survey of medical providers linked to respondents of the MEPS-HC
 - 2016 MEPS Medical Organization Survey (MOS)
- ■MEPS-IC: Insurance Component
 - Independent survey of employers and unions not linked to the MEPS-HC



MEPS-HC

□Annual Survey of 14,000 households

 Provides national estimates of health care use, expenditures, insurance coverage, sources of payment, access to care and health care quality

■Uses of the MEPS

- Trends in annual health care use, expenditures and insurance coverage
- Expenditures for specific conditions
- Policy-related and behavioral research on the determinants of health care use, spending, and insurance coverage
- Microsimulation models to analyze alternative health care delivery proposals



MEPS-HC Survey Design

- Sub-sample of respondents from the previous year's National Health Interview Survey (NHIS), sponsored by NCHS
- Representative of the civilian noninstitutionalized population of the US
- Collects 2 years of healthcare use in each panel
- 5 in-person interviews over 2 ½ year period using CAPI
- One respondent per household
- Person and family level data collected
- ☐ Interviews average 90 minutes with a range of one to four hours



MEPS-Medical Provider Component (MPC)

- Survey of medical providers linked to respondents of the MEPS-HC.
- Collects data that household respondents cannot accurately provide, such as dates of visit, diagnosis and procedure codes, charges and payments.
- □ The Pharmacy Component (PC), a subcomponent of the MPC, collects drug detail information, including National Drug Code (NDC) and medicine name, date filled and sources and amounts of payment.
- □ The MPC is not designed to yield national estimates. It is primarily used as an imputation source to supplement household reported expenditure information.



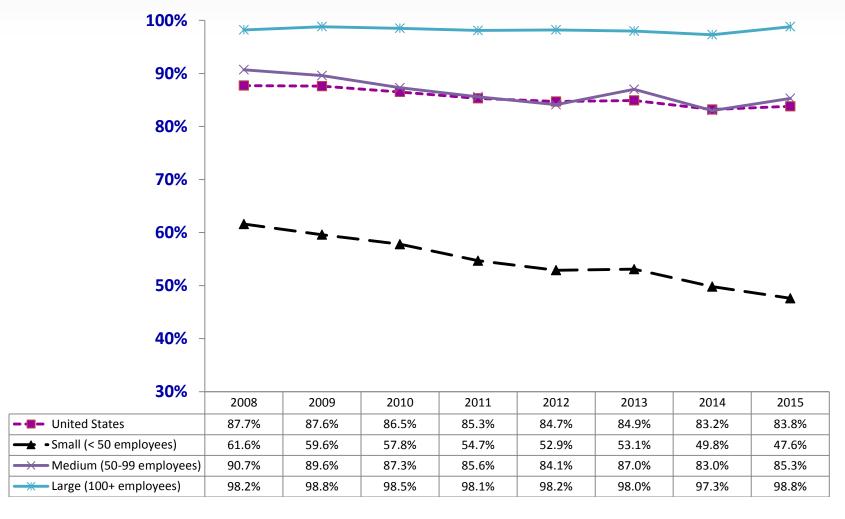
Cost

MEPS-IC

■Nationwide, annual survey of both private and public sector employers
■An independent survey of employers and unions not linked to the household survey
□ Collected for AHRQ by the Census Bureau annually since 1996 (no data for 2007)
☐ The sample contains information from about 40,000 establishments and supports national and state-leve estimates for all 50 states.
☐ Employer-sponsored health insurance measures:
Availability
Enrollment
Benefit and payment provisions



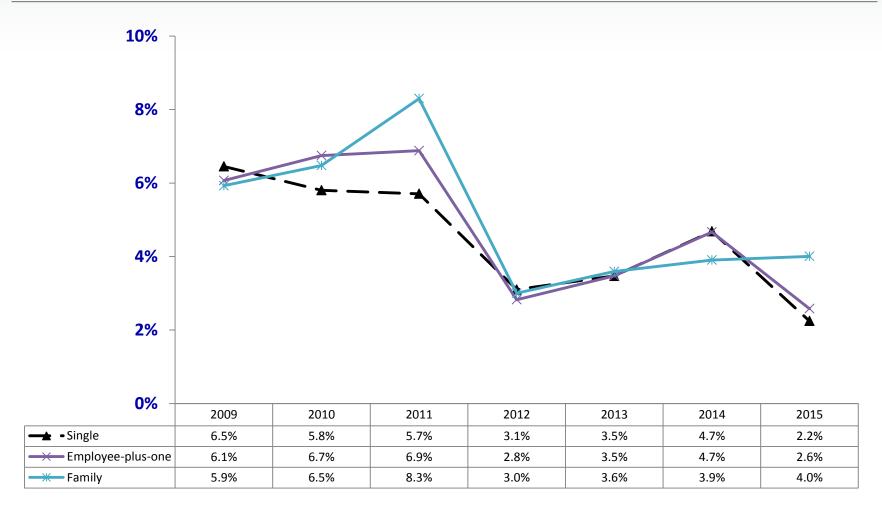
Offer rate: Percentage of private-sector employees in establishments that offer health insurance, overall and by firm size, 2008–2015



Source: Center for Financing, Access, and Cost Trends, AHRQ, Medical Expenditure Panel Survey-Insurance Component, private-sector establishments, 2008–2015.



Percentage change in total premiums per enrolled private-sector employee for single, employee-plus-one, and family coverage, 2008–2015



[■]Source: Center for Financing, Access, and Cost Trends, AHRQ, Medical Expenditure Panel Survey-Insurance Component, private-sector establishments, 2008–2015.

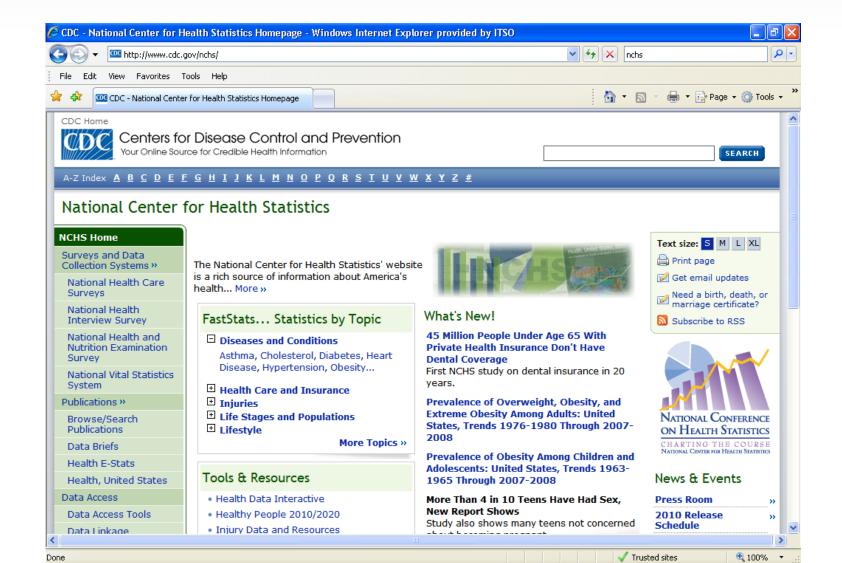


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Information about all datasets can be found on the NCHS website: http://www.cdc.gov/nchs/





Four Major NCHS Data Systems

- National Vital Statistics System and surveys
- National Health Interview Survey
- National Health and Nutrition Examination Survey
- National Health Care Surveys



National Vital Statistics System

Birth and death records

National Vital Statistics System Cooperative Program—partnership with registration areas (State and Territories)

Information at the State and local level



National Survey of Family Growth

Data source and sample

- In-person interviews in the home
- Annual sample of 7,600 women and 5,000 men, representative of the civilian US population, ages 15-44

Findings

- Reproductive health
 - Fertility/infertility
 - Contraception
 - Pregnancy
 - Sexual activity
- Family formation
 - Marriage, divorce, cohabitation



National Health Interview Survey

Data source

Representative in person, in home survey of 87,500 respondents

Data applications

- Health status and disability
- Insurance coverage
- Access to and use of health services
- Extent of illness and disability
- Immunization
- Health behaviors



National Health and Nutrition Examination Survey (NHANES) Mobile Exam Center



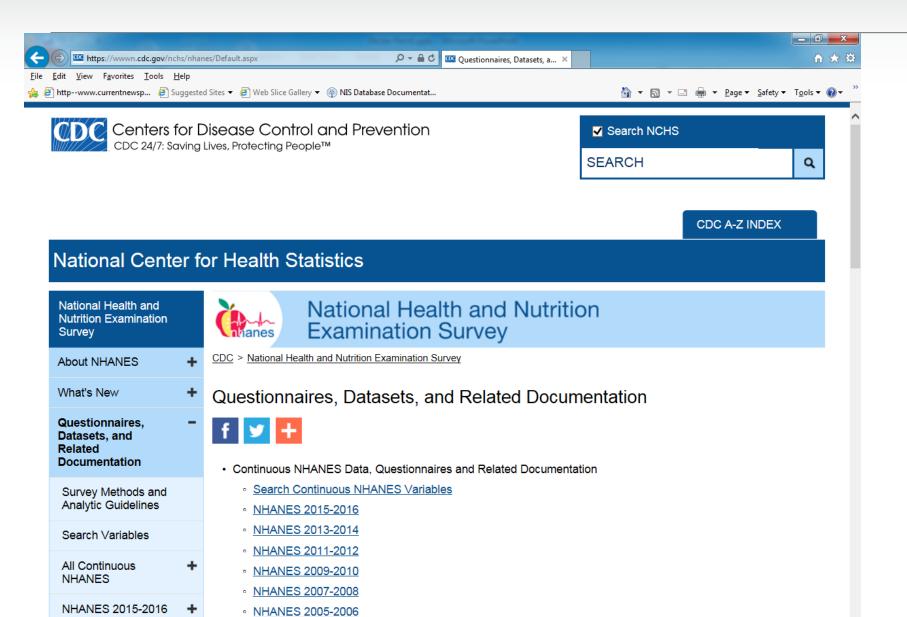


National Health and Nutrition Examination Survey (NHANES)

- Data source
 - Standardized physical examinations, laboratory tests, personal interviews with annual sample of 5,000
- Data applications
 - Disease or condition prevalence
 - Risk factors
 - Nutrition monitoring
 - Anthropometry
 - Growth and development
 - Disease monitoring



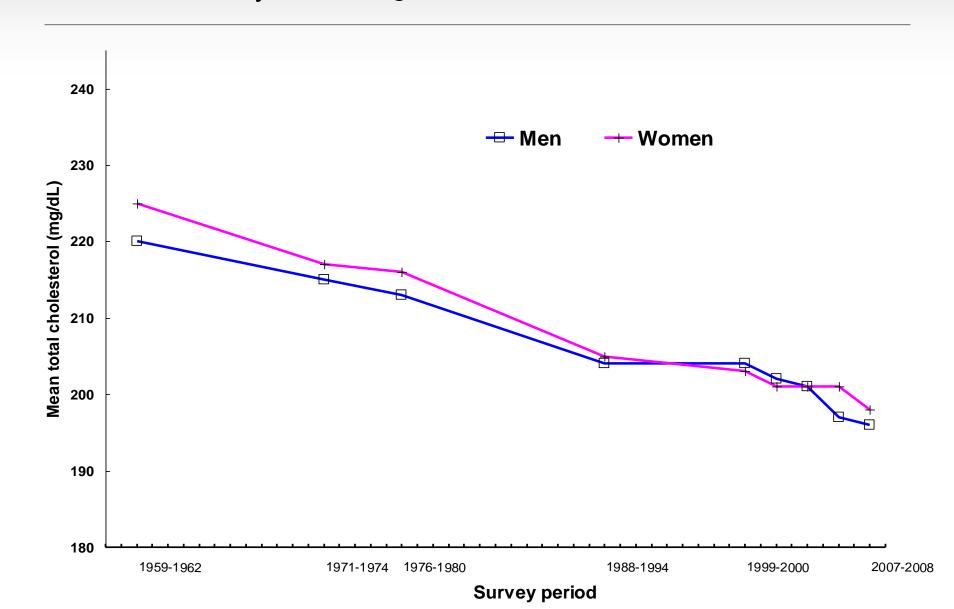
NHANES







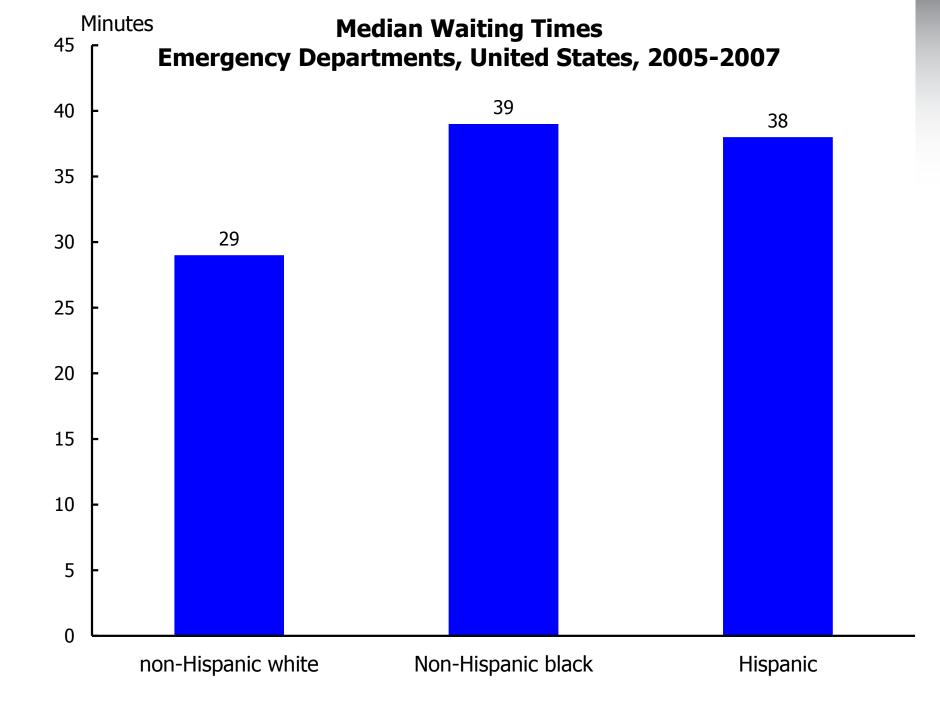
Average total cholesterol among Men and Women 20-74 years of age—1959-1962 to 2007-2008





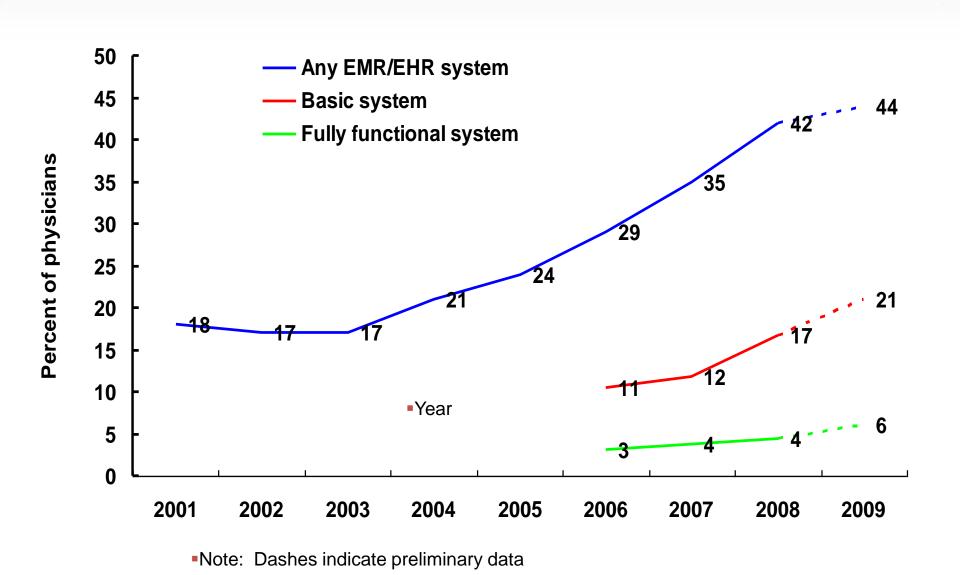
AHR National Health Care Surveys

- Hospital Discharge Survey (NHDS)
- Ambulatory Medical Care Survey (NAMCS)
- Hospital Ambulatory Medical Care Survey (NHAMCS)
- Survey of Ambulatory Survey
- Nursing Home Survey (NHHS)
- Home and Hospice Care Survey (NHHCS)
- Residential Care Survey





Electronic Medical Records/Electronic Health Records (EMR/EHR): United States, 2001-2008, and preliminary 2009



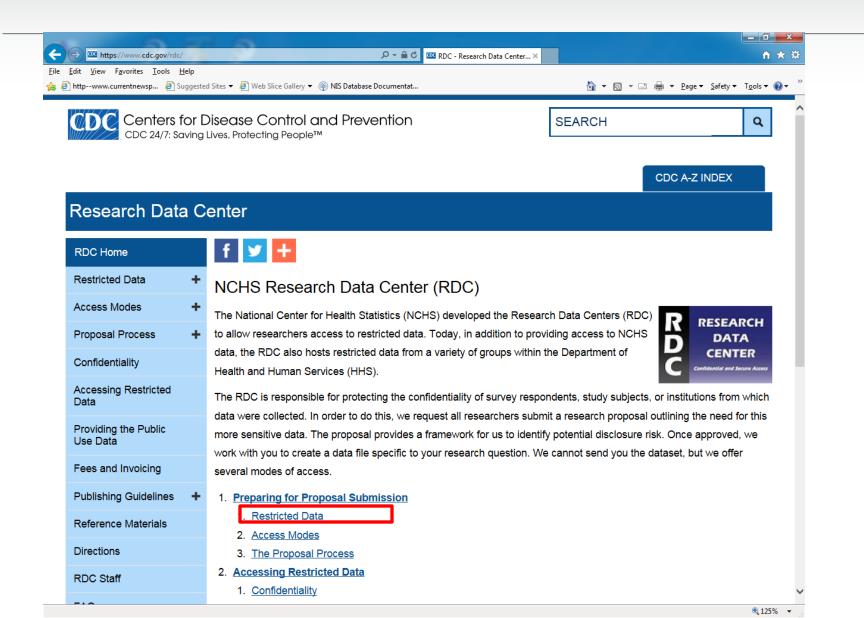


Plan for Presentation

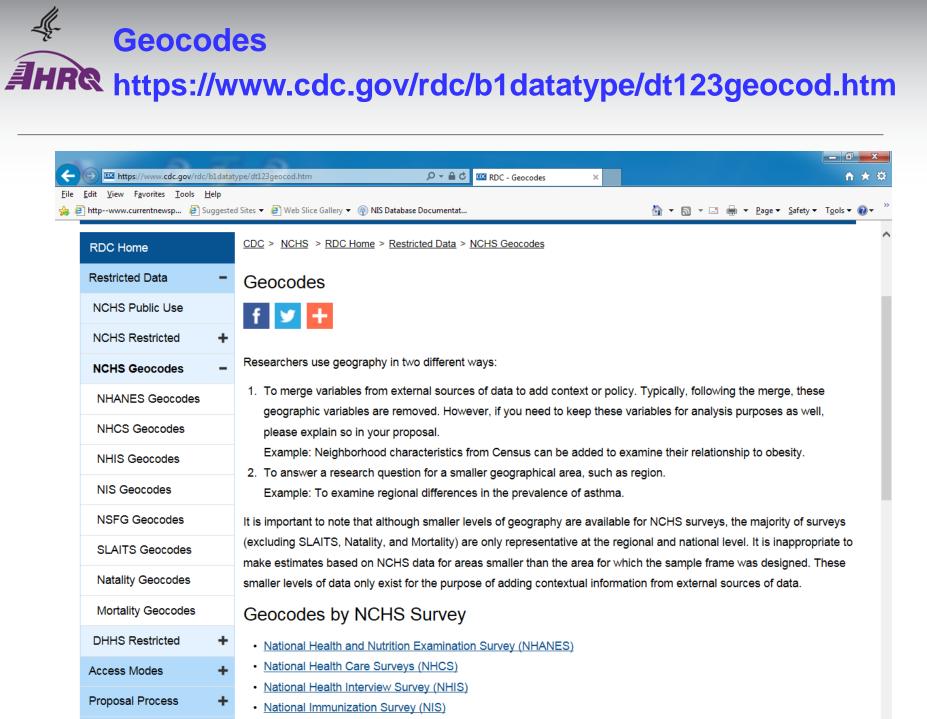
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NCHS RDC - https://www.cdc.gov/rdc/

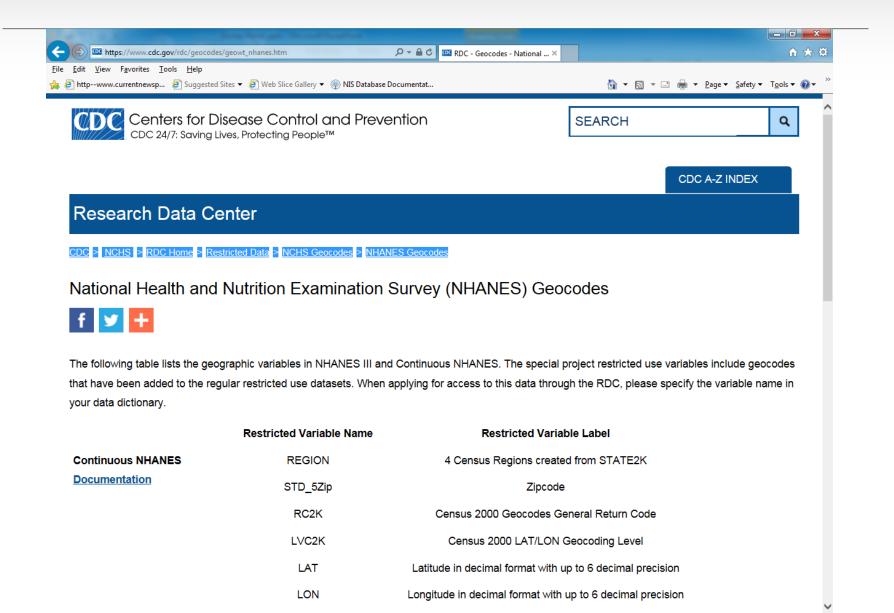






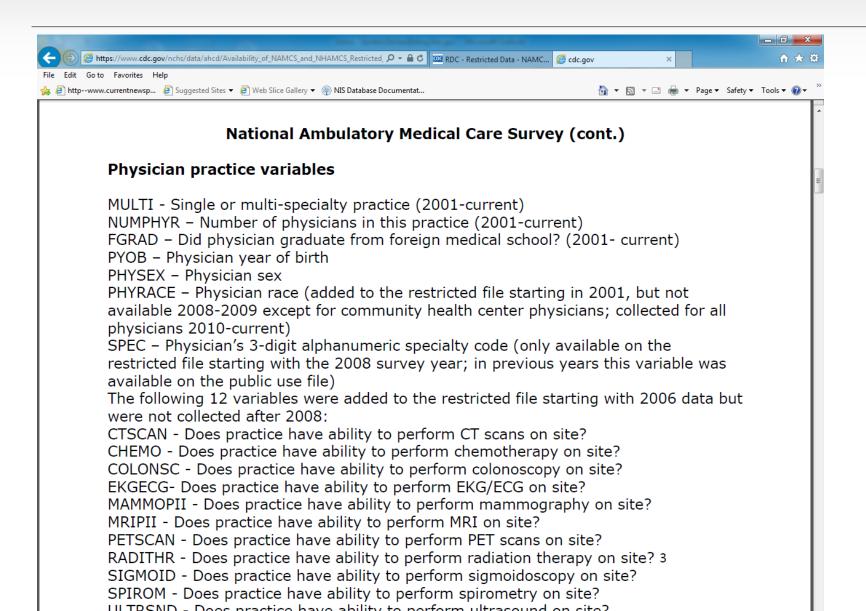


For example, National Health and Nutrition Examination Survey (NHANES)



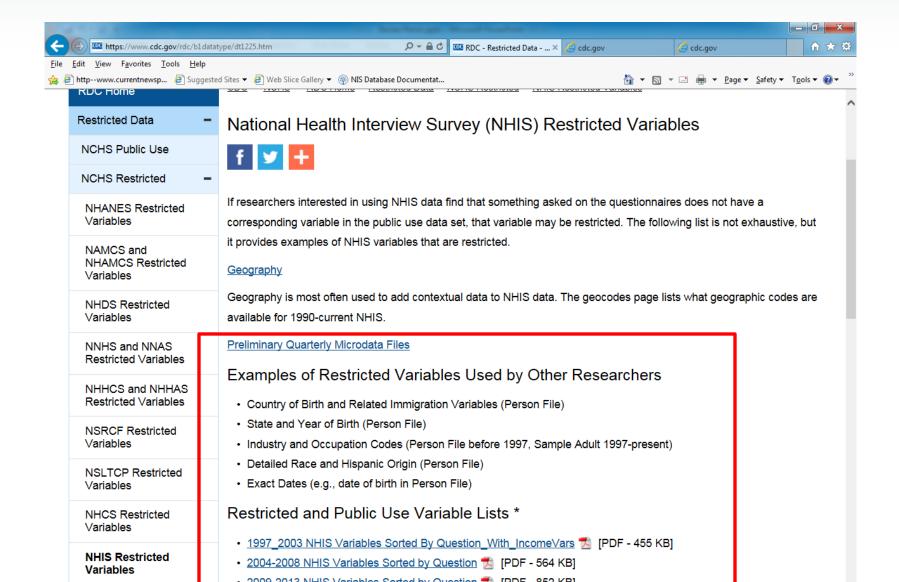


National Health Care Surveys - NAMCS





NHIS





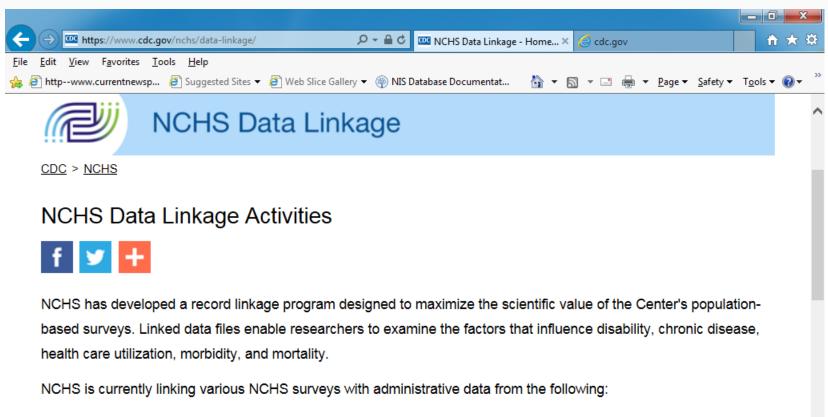
NHIS and NHIS Early Release Program

- Annual puf released in late June of the following year. E.g., NHIS 2015 released in September 2016
 - --Restricted data with state IDs usually available about one week later
 - --Income imputations for that year usually available in August-September
- Quarterly files
 - --Only select variables (see website)
 - --Q1 available September of same year, Q2 available November of same year, Q3 available February of following year, Q4 available May of following year
 - --For example, 2014 Q1 data available September 2014...full-year 2014 data available June 2015...



NCHS Data Linkage

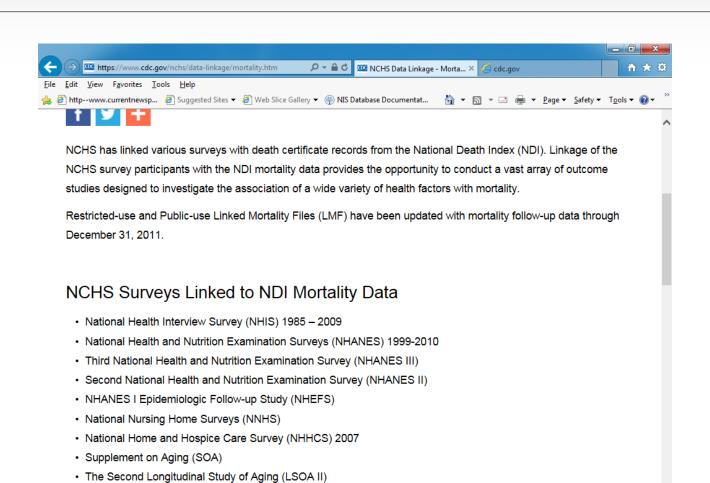
https://www.cdc.gov/nchs/data-linkage/



- · National Death Index (NDI)
- · Centers for Medicare and Medicaid Services (CMS)
 - Medicare
 - Medicaid/CHIP
- United States Renal Data System (USRDS)
- Social Security Administration (SSA)
- Department of Housing and Urban Development (HUD)

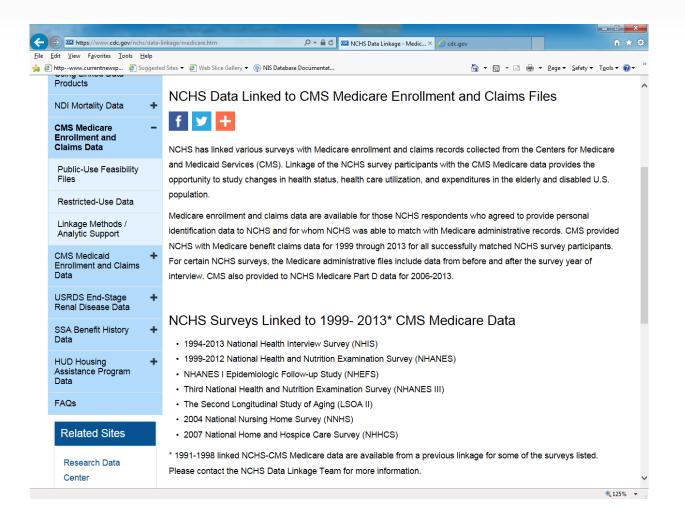


NDI



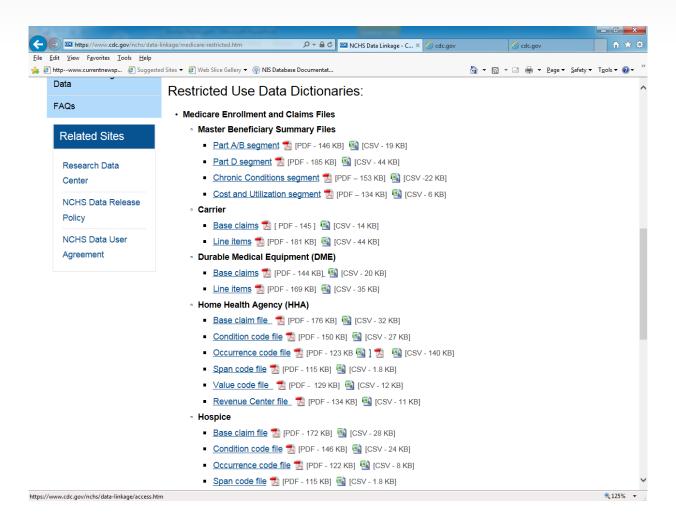


AHRA Medicare link



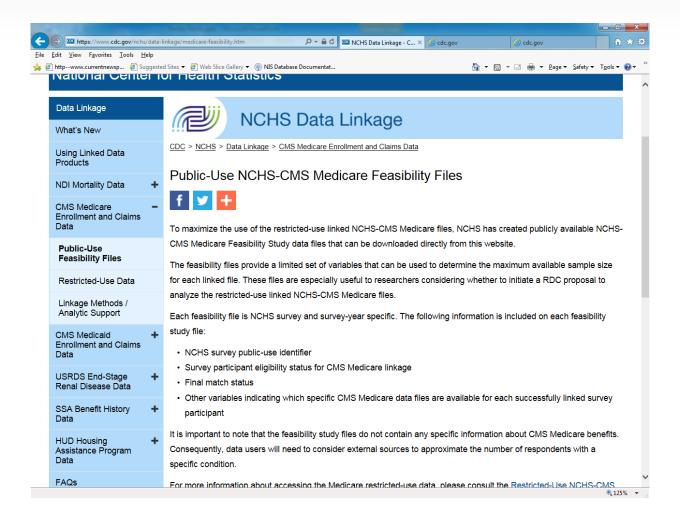


AHR Medicare Variables



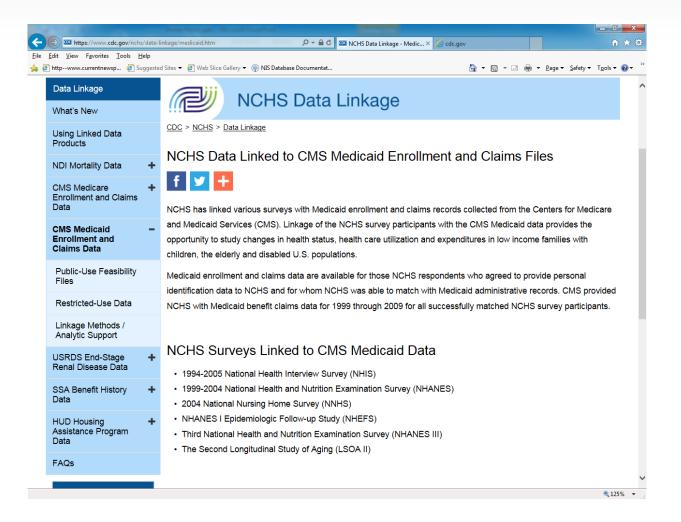


Feasibility files

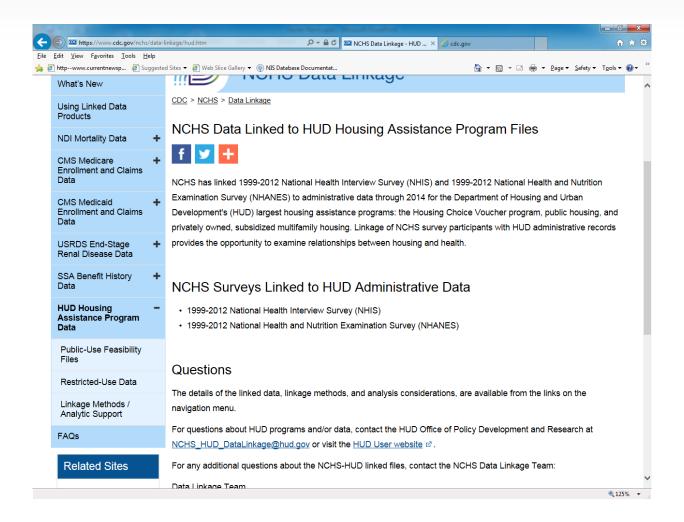




AHR Medicaid Link









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Example of use of NHIS and NHANES restricted data

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Do Medicaid benefit expansions have teeth? The effect of Medicaid adult dental coverage on the use of dental services and oral health*



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I11, I13, I18Medicaid Health insurance expansions Oral health

ABSTRACT

This article examines the effect of Medicaid adult dental coverage on use of dental care and dental health outcomes using state-level variation in dental coverage during 2000–2012. Our findings imply that dental coverage is associated with an increase in the likelihood of a recent dental visit, with the size of the effect increasing with Medicaid payment rates to dentists, and a reduction in the likelihood of untreated dental caries. We are among the first to detect an effect of Medicaid coverage on a clinical health outcome other than mortality. These findings may have implications for states expanding Medicaid coverage to adults with incomes of up to 138% of the federal poverty threshold under the Affordable Care Act as most of these states offer an adult dental benefit.

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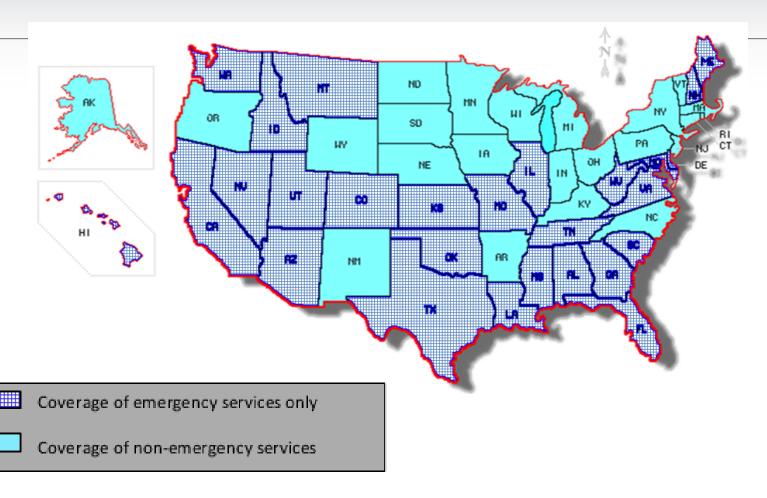
Background and Objective

- Medicaid coverage of dental services for adults is optional
- Most states cover emergency services, but only 26 states provided preventive and/or restorative services in 2012
- Dental health is associated with systemic health: cardiovascular disease (e.g., Oliveira et al. 2010), respiratory infections (Sjogren et al. 2008), metabolic control for diabetes patients (Simpson et al. 2010)

The objective of this paper is to assess the relationship between optional coverage of adult dental services and the use of dental care and oral health outcomes for adults on Medicaid



State dental coverage policies in 2012

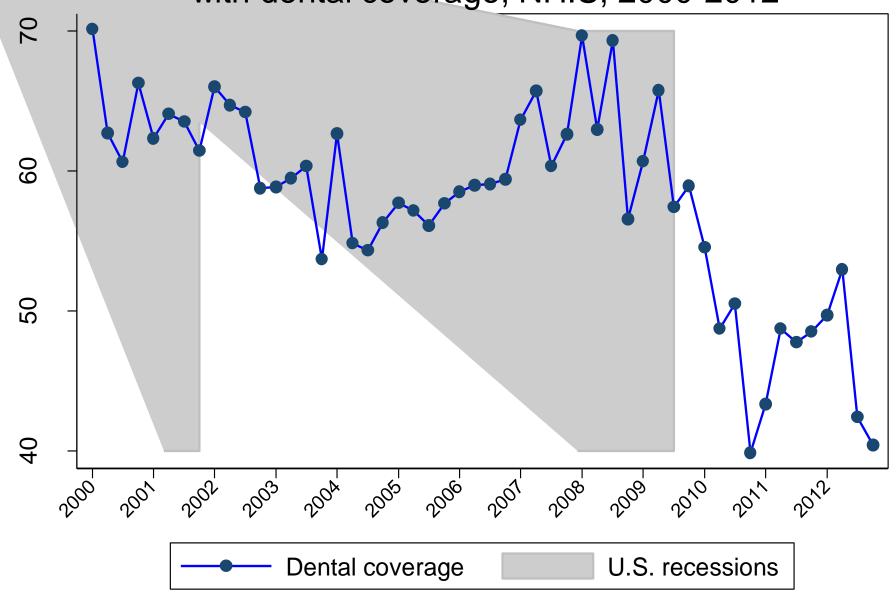




Our contribution

- One published national study estimates the effect of Medicaid dental coverage on the likelihood of having a dental visit (Choi, 2011)
- We expand this analysis by using changes within states over time to identify the effect of dental coverage on dental utilization
- In addition, we are the first to:
 - Analyze the effect of payment rates to dentists on dental utilization outcomes
 - Analyze the effect of coverage on dental health outcomes







Data and Outcome Measures

- NHIS (2000-2012)
 - Main analysis includes 14,673 Medicaid beneficiaries aged 22-64 and 89,496 low income adults aged 22-64 not on Medicaid as a control group
- NHANES (2000, 2001/2002, 2003/2004, 2005/2006, 2007/2008, 2011/2012)
 - Main analysis includes 756 Medicaid beneficiaries aged 22-64 and 6,580 low income adults not on Medicaid as a control group
- Medicaid coverage of adult dental 2000-2012
- Medicaid reimbursement of adult prophylaxis
 - Lewin Group (2000/2001), Urban Institute (2008/2009)



Data and Outcome Measures

Dental utilization

- NHIS 2000-2012: Seen dentist past 6 mos., seen dentist past year, needing but not receiving dental care due to cost
- NHANES 2000-2004, 2011-2012: Seen dentist past 6 mos., seen dentist past year

Dental Health

- NHIS 2008: broken/missing teeth, stained teeth, loose teeth, broken/missing fillings
- NHANES: untreated caries (2000-2008, 2011-2012), teeth missing without replacement (2000-2004, 2011-2012)



Methodology – Effect of Dental Coverage on Outcomes

$$Y_{ist} = \beta_1 Dental_{st} + \beta_2 Medicaid_{it} + \beta_3 Dental_{st}$$

 $\times Medicaid_{it} + \beta_4 X_{ist} + \gamma_{0s} + \gamma_{1s} t + \tau_t + \varepsilon_{ist}$

- β_1 estimates the effect of dental coverage for the control group
- β_2 estimates the effect of having Medicaid coverage in states without dental coverage
- β_3 is the DDD estimate
- X_{ist} is a vector of controls including age, age squared, race, sex, education, marital status, health status, ratio of family income to the poverty level, an urban area indicator, local supply of dentists per 1,000 population, and the annual local unemployment rate



Regression estimates of the effect of Medicaid coverage of adult dental services on dental utilization outcomes, NHIS and NHANES (2000-2012)

	Medicaid beneficiaries, outcome means			Regress percentage dental cover		
	Dental coverage	No dental coverage	Difference	Low income adults	M edicaid be neficiaries	DDD Es timate
NHIS	Č	C				
Seen dentist past						
year	56.48 (0.745)	38.01 (0.838)	18.47*** (1.109)	0.84 (1.348)	13.72*** (1.935)	12.88*** (1.742)
Seen dentist, past						
6 months	35.49 (0.688)	21.53 (0.615)	13.96*** (0.908)	1.45 (1.153)	10.91*** (1.989)	9.46*** (1.412)
Did not get				, ,		
dental care						
because of cost	12.77 (0.563)	27.06 (0.837)	-14.29*** (0.981)	-0.54 (1.327)	-12.60*** (2.230)	-12.06*** (1.928)
NHANES						
Seen dentist past						
year	52.06	36.08	15.98***	4.92*	17.86**	12.95**
	(3.480)	(3.744)	(4.895)	(2.675)	(4.757)	(4.914)
Seen dentist, past						
6 months	34.68	18.74	15.95***	1.95	13.74***	11.79**
	(2.985)	(3.495)	(4.623)	(3.076)	(4.028)	(4.810)



Regression estimates of the effect of Medicaid coverage of adult dental services on dental health outcomes, NHIS (2008) and NHANES (2000-2012)

	Medicaid beneficiaries, outcome means			Regression esti point difference vs. no den		
	Dental coverage	No dental coverage	Difference	Low income adults	M edicaid beneficiaries	DiD Estimate
NHIS (2008) ^b						
Broken or missing						
teeth, past year	27.77 (2.353)	46.42 (3.661)	-18.65*** (4.362)	-0.71 (1.498)	-15.19*** (4.711)	-14.48*** (4.983)
Stained teeth, past						
year	26.17 (2.953)	43.95 (3.889)	-17.78*** (4.884)	0.13 (2.004)	-15.27*** (-26.29, -4.25)	-14.51*** -5.559
Loose teeth, past						
year	11.28 (2.062)	13.88 (2.591)	-2.61 (3.320)	0.60 (1.009)	-4.03 (-11.38, 3.32)	-2.70 (3.634)
Broken/missing						
fillings, past year	16.21 (2.013)	25.98 (4.220)	-9.77** (4.688)	0.34 (1.635)	-8.22 (5.273)	-8.57* (4.902)
NHANES ^c						
Any untreated caries	34.69 (2.890)	46.93 (3.270)	-12.24*** (4.490)	-3.25 (2.311)	-12.77*** (4.214)	- 9.52*** (3.383)
Any missing teeth,						
not replaced	56.05 (4.521)	58.50 (4.958)	-2.40 (6.684)	-1.34 (4.630)	-3.80 (6.830)	-2.46 (6.121)
Any missing teeth due to dental						
disease, not replaced	53.09 (4.006)	55.14 (5.435)	-2.04 (6.995)	-0.54 (4.269)	-3.02 (6.537)	-2.48 (5.829)



Conclusions

- Our study found that Medicaid coverage of adult dental was associated with increased utilization of dental services and reduced the likelihood of negative oral health outcomes.
- Further, payment rates to dentists were associated with the size of the effect of dental coverage.
- Effective January 2014, 26 states expanded Medicaid eligibility, and 20 of these states offer at least limited dental services.
- The positive association between coverage and utilization of dental services will increase Medicaid spending in the short run, while the reduction in oral health problems may reduce spending in the long run.
 - This work may aid in determining the magnitude of these opposing effects



Example of use of NHIS linked to Medicare claims

HEALTH ECONOMICS

Health Econ. 21: 1155-1168 (2012)

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HEALTH SERVICE USE AMONG THE PREVIOUSLY UNINSURED: IS SUBSIDIZED HEALTH INSURANCE ENOUGH?

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SUMMARY

Although it has been shown that gaining Medicare coverage at age 65 years increases health service use among the uninsured, difficulty in changing habits or differences in the characteristics of previously uninsured compared with insured individuals may mean that the previously uninsured continue to use the healthcare system differently from others. This study uses Medicare claims data linked to two different surveys—the National Health Interview Survey and the Health and Retirement Study—to describe the relationship between insurance status before age 65 years and the use of Medicare-covered services beginning at age 65 years. Although we do not find statistically significant differences in Medicare expenditures or in the number of hospitalizations by previous insurance status, we do find that individuals who were uninsured before age 65 years continue to use the healthcare system differently from those who were privately insured. Specifically, they have 16% fewer visits to office-based physicians but make 18% and 43% more visits to hospital emergency and outpatient departments, respectively. A key question for the future may be why the previously uninsured seem to continue to use the healthcare system differently from the previously insured. This question may be important to consider as health coverage expansions are implemented. Copyright © 2011 John Wiley & Sons, Ltd.



Research Question and Motivation

Is Medicare spending after age 65 higher for those who were uninsured prior to age 65?

If so, then maybe Medicare spending for these individuals beginning at age 65 would be lower if they had been insured before the age of 65.



Policy Considerations

- Medicare eligibility that begins at age 65 does imply that some of the uninsured before the age of 65 go untreated for certain conditions until they become Medicare eligible
- This problem would be exacerbated if the age of Medicare eligibility were raised
- This problem would be alleviated if the age of Medicare eligibility were lowered



Table I. Percent characteristics of HRS and NHIS records that match to Medicare records by insurance status before age 65

	1	NHIS-Medica	re		HRS-Medicare	
	Uninsured	Publicly insured	Privately insured	Uninsured	Publicly insured	Privately insured
Attributes before age 65						
Female	59.9	53.0	52.7	57.4	51.3	50.3
Married	55.4	63.3	79.6	60.8	56.7	79.3
Non-Hispanic Black	13.3	14.3	5.7	21.2	27.0	9.9
Hispanic	16.1	8.7	3.7	19.0	14.7	3.3
Non-Hispanic and Non-Black or non-White	6.4	4.2	1.9	3.0	2.2	1.2
Less than high school	48.2	36.6	16.3	48.8	48.9	16.5
High school degree	29.8	32.1	38.5	33.2	34.1	41.9
Some college	13.0	20.0	24.0	10.4	11.9	20.1
Income < \$20,000	69.1	68.9	46.6	51.6	57.8	11.6
Income \geq \$20,000, $<$ \$45,000	28.3	31.3	42,2	29.6	23.2	27.5
Health - very good	21.0	17.8	34.3	19.2	9.8	35.4
Health - good	32.5	29.2	30.0	31.0	23.0	32.6
Health - fair	21.4	25.1	8.8	28.0	34.8	13.1
Health - poor	6.2	16.6	1.6	10.8	28.2	3.0



Table II. Use of Medicare services beginning at age 65 according to insurance status before age 65

			Diff	erence relative to	privately insured	d	
		Unadjusted		Adjusted		Adjusted including supplemental insurance and extra health controls	
	Mean for privately insured	Uninsured	Publicly insured	Uninsured	Publicly insured	Uninsured	Publicly insured
NHIS-Medicare							
Expenditures	4930.84	416.49 (570.70)	2349.22*** (391.96)	-609.40 (430.10)	504.79* (289.58)	-	-
Inpatient stays	0.20	0.08* (0.04)	0.13*** (0.02)	0.02 (0.03)	0.04*** (0.01)	-	-
Physician visits	7.29	-1.64*** (0.47)	0.94** (0.29)	-2.02*** (0.44)	0.09 (0.29)	-	-
HRS-Medicare							
Expenditures	4148.46	330.29 (365.60)	3274.15*** (291.57)	-88.50 (386.30)	1809.65*** (315.21)	-59.66 (352.24)	1275.52*** (308.87)
Inpatient stays	0.18	0.07***	0.19***	0.04*	0.10***	0.04*	0.07***
Physician visits	6.50	-0.38 (0.38)	2.57*** (0.29)	-1.07*** (0.34)	1.32*** (0.31)	-0.70** (0.30)	0.84***



Table III. Use of physician services beginning at age 65 according to insurance status before age 65

		Difference (uninsured - privately insured)				
	Mean for privately insured	Unadjusted	Adjusted	Adjusted including supplemental insurance and extra health controls		
NHIS-Medicare						
Physician visits	7.29	-1.64***	-2.02***	_		
		(0.47)	(0.44)			
Office based	6.67	-2.42***	-2.37***	_		
		(0.42)	(0.39)			
General	3.07	-0.34	-0.64***	-		
		(0.24)	(0.19)			
Specialist	3.10	-0.62	-1.39***	_		
		(0.09)	(0.27)			
Other and nonphysician	0.50	-0.20**	-0.13**	_		
		(0.09)	(0.06)			
Hospital outpatient department	0.33	0.39***	0.17**	_		
		(0.09)	(0.08)			
Emergency room	0.29	0.20***	0.08*	_		
		(0.05)	(0.04)			
HRS-Medicare						
Physician visits	6.50	-0.38	-1.07***	-0.70**		
-		(0.38)	(0.34)	(0.30)		
Office based	6.03	-1.10***	-1.39***	-0.97***		
		(0.35)	(0.31)	(0.28)		
General	2.69	-0.35*	-0.70***	-0.53***		
		(0.19)	(0.18)	(0.17)		
Specialist	2.87	-0.58**	-0.42*	-0.21		
-		(0.28)	(0.26)	(0.23)		
Other and nonphysician	0.48	-0.18**	-0.21***	-0.17***		
		(0.07)	(0.06)	(0.05)		
Hospital outpatient department	0.30	0.41***	0.15**	0.13**		
		(0.07)	(0.07)	(0.06)		
Emergency room	0.17	0.10***	0.03**	0.03**		
3,		(0.02)	(0.02)	(0.01)		



Example of use of MEPS restricted data

INSURANCE COVERAGE & THE ACA

By Jessica P. Vistnes and Joel W. Cohen

DATAWATCH

Gaining Coverage In 2014: New Estimates Of Marketplace And Medicaid Transitions

We used data from the Medical Expenditure Panel Survey-Household Component to examine coverage transitions for nonelderly US adults. We found that 71.5 percent of Marketplace enrollees in 2014 had some period of uninsurance before enrollment. In Medicaid expansion states, 17.4 percent of adults who were uninsured throughout 2013 gained Medicaid coverage in 2014, compared with only 5.6 percent in those states between 2012 and 2013.

here is growing evidence that implementation of major coverage provisions of the Affordable Care Act (ACA) in 2014, such as the expansion of eligibility for Medicaid and the introduction of the federal and statebased Marketplaces, has reduced the number of uninsured people in the United States. However, little is known about insurance transitions associated with the ACA's coverage provisions. This analysis uses newly available nationally rep-

ing that period (Exhibit 1). In states that expanded eligibility for Medicaid, 17.4 percent of adults uninsured in 2013 gained Medicaid coverage in 2014, compared with only 5.6 percent in those states between 2012 and 2013 (Exhibit 2).

Study Data And Methods

We examined transitions in coverage by using the longitudinal panels in the Medical Expenditure Panel Survey-Household Component DOI: 10.1377/hlthaff.2016.0500 HEALTH AFFAIRS 35, NO. 10 (2016): 1825–1829 ©2016 Project HOPE— The People-to-People Health Foundation. Inc.

Jessica P. Vistnes (Jessica Vistnes@ahrq.hhs.gov) is a senior economist in the Center for Financing, Access, and Cost Trends at the Agency for Healthcare Research and Quality (AHRQ), in Rockville, Maryland.

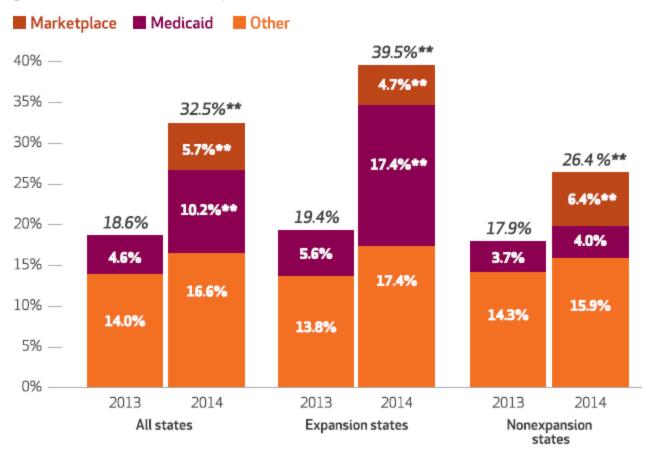
Joel W. Cohen is director of the Center for Financing Access and Cost Trends at AHRQ.



INSURANCE COVERAGE & THE ACA

EXHIBIT 2

Continuously uninsured adults who gained coverage in 2013 or 2014, by type of coverage gained and state Medicaid expansion status





Example of use of restricted data - NAMCS

MEDICAID EXPANSION

By Sandra L. Decker

In 2011 Nearly One-Third Of Physicians Said They Would Not Accept New Medicaid Patients, But Rising Fees May Help

DOI: 10.1377/hlthaff.2012.0294
HEALTH AFFAIRS 31,
NO. 8 (2012): 1673–1679
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The People-to-People Health
Foundation, Inc.

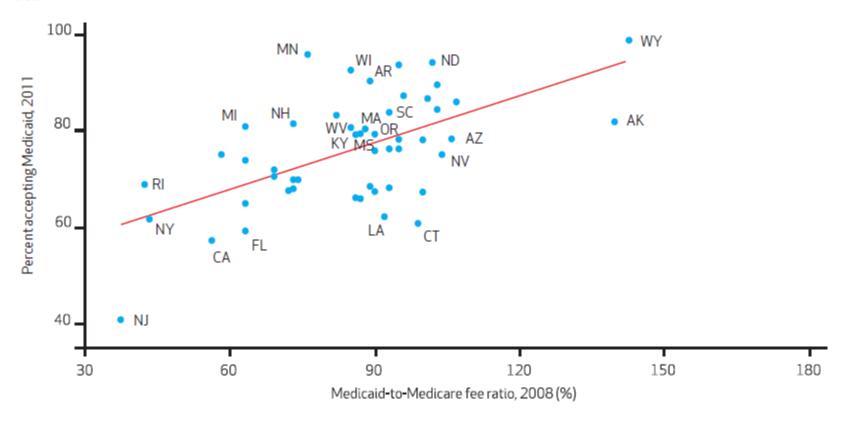
ABSTRACT When fully implemented, the Affordable Care Act will expand the number of people with health insurance. This raises questions about the capacity of the health care workforce to meet increased demand. I used data on office-based physicians from the 2011 National Ambulatory Medical Care Survey Electronic Medical Records Supplement to summarize the percentage of physicians currently accepting any new patients. Although 96 percent of physicians accepted new patients in 2011, rates varied by payment source: 31 percent of physicians were unwilling to accept any new Medicaid patients; 17 percent would not accept new Medicare patients; and 18 percent of physicians would not accept new privately insured patients. Physicians in smaller practices and those in metropolitan areas were less likely than others to accept new Medicaid patients. Higher state Medicaid-to-Medicare fee ratios were

Sandra L. Decker (sdecker@ cdc.gov) is an economist at the National Center for Health Statistics, in Hyattsville, Maryland.



EXHIBIT 4

Percentage Of US Office-Based Physicians Accepting New Medicaid Patients In 2011 And The Medicaid-To-Medicare Fee Ratio





Plan for Presentation

- Description of AHRQ data (MEPS)
- Description of NCHS datasets
- Description of restricted data
 - --Geocodes
 - --Other restricted variables
 - -- Early release data (NHIS)
 - --Linked administrative records
- Examples of use of restricted data
- Some proposal tips



RDC



RDC Staff

FAQs

Related Sites

National Center for Health Statistics

U.S. Census Bureau, Center for Economic Studies ☑

NCHS RDC Analyst

- Facilitates review of your proposal
- · Creates your analytic data set
- Accepts NCHS payment
- · Accepts your NCHS Confidentiality requirements
- Transfers your dataset to Census
- · Reviews your output for disclosure risk
- At any time, if you have questions, please contact your NCHS RDC Analyst.

Census RDC Administrators

Answer logistical questions about the FSRDC such as, statistical software availability, and Census Fees

- · Ensure you have completed all the Census Bureau Security requirements
- · Accepts Census payments
- · Census transfers your output to NCHS for a review

Before Submitting a Proposal

Researchers interested in accessing NCHS data through a Federal Statistical RDC must submit their proposals dire to NCHS. You will not have to submit a separate proposal to the FSRDC but, in addition to the NCHS requirements, will be required to follow all requirements that the Census Bureau imposes to protect the security and confidentiality the data. If you are considering using an FSRDC, contact your FSRDC Administrator to discuss access requirement how to obtain Special Sworn Status (SSS), and fees for using the FSRDC as well as any other logistical concerns. Please note NCHS and Census fees are independent of each other.

Before Your Visit

In addition, to the NCHS requirements outlined by your RDC Analyst, the following steps should occur after you rece an approval email from your RDC Analyst:







Access Modes

Restricted Data

Proposal Process

Confidentiality

Accessing Restricted Data

Providing the Public Use Data

Fees and Invoicing

Publishing Guidelines

Reference Materials

Directions

RDC Staff

FAQs

Related Sites

National Center for **Health Statistics**

U.S. Census Bureau. Center for Economic

Providing the Public Use Data







Researchers are responsible for providing the NCHS public dataset as well as any non-NCHS data. Compiling the use dataset provides you the opportunity to become familiar with the data and expedite the data creation process

- Exception: For NHDS, NAMCS, NHAMCS, and other DHHS data hosted by the RDC, you do not need to pre public dataset. Your RDC Analyst will provide an extract from the restricted files that includes all of the varial specified in your proposal.
- Non-NCHS Data includes any data collected by the researcher, another government agency, or a private ins that the researcher wishes to merge with NCHS data, often using geographic codes. Examples for policy res have included air pollution data, proximity of fast food restaurants, or location of health care providers.

Instructions:

- 1. Create a public data set that includes only the variables specified in your proposal.
- 2. Original NCHS variables must retain the name they are given in the public data set. If you would like to renai variables, include the original variable name in the variable description.
- If you choose to create derived variables prior to working with the data onsite or via remote access, make su variables are clearly defined. The variable description should include the original variable name(s) from whic derived and any arithmetic manipulation must be explained. Please save the code you used to create these as your RDC Analyst may request it.
- 4. If you are also sending another source of data, for example Census data, this data set should only include th variables specified in your proposal.
- 5. Discuss with your RDC Analyst the preferred format for any merge variables. This is especially important for merges that involve multiple data sets and multiple merge variables. Create the variables as your RDC Analy

S

- A. Abstract: Please limit the abstract to 300 words.
- B. Research Question: Include study purpose, hypotheses, goals, or research questions.
- **C. Background:** Include a short literature review, no more than 2 pages, focusing on papers that discuss your topic or address the methodology that you plan to use. Please limit your reference list to 10 items or less.
- D. Public Health Benefit: In one paragraph, how does your research benefit public health?

E. Data Requirements:

Remember to provide an explanation to "yes/checked" responses from the Data Requirements Summary.

1. Survey, Years, Files:

For examples, NHIS 2005-2007 Household, Person and Sample Adult Files, NAMCS 2005-2006 Provider and Patient Visit Files, or NHANES 2005-2006 Examination and Demographic Files.

2. Restricted Data:

List and describe the restricted variables that you will need. These variables must be listed in the Data Dictionary section as well. Explain why each variable is needed and how you will include them in your analysis. Specify how geographic variables, if applicable, will be used to merge files, analyze the data and/or presented in output.

3. Non-NCHS Data:

Will you provide data from another source (such as Census or EPA)? If yes, describe the source, list the files, and provide a general description of the data. These variables must be listed in the Data Dictionary section.

F. Methodology:

We highly recommend you familiarize yourself with the analytic guidelines of the data you intend to use. Any deviations from the methodology suggested in the guidelines will require explanation as it may pose a disclosure risk.

1. Unit or Level of Analysis and Subpopulation(s):

- There can be many levels of analysis: be as detailed as possible. A common example for an analysis of NHANES is where the unit of analysis is the person while the subpopulation is adults ages 18-64. A common example involving geography is when you aggregate persons to the state level so you can compare states with policy A to states with policy B.
- 2. Analysis Plan: Provide an overall analysis plan that specifies what analytic procedures or models you will use, such as prevalence estimates, logistic regression, or log-linear modeling, or list specific statistical package procedures.
- 3. Complex Survey Design: Indicate how you will address sample weights, design variables, and other adjustments for the use of complex survey data, if applicable, using the statistical software listed in the General Information area. A detailed description per weight, design variables, and other adjustments are required and central to understanding the limitation of the data. This is a critical element during the proposal review process.

H. Data Dictionary:

Include a data dictionary for each data source. Provide a public and restricted data dictionary for NCH This should simply be a listing of variables you would like in your dataset. See instructions and examp creating the data dictionary. When asking for multiple years of data, make sure to reflect the public us layout for each year as variable names can change over years. Include all explanations in Section E. Da Requirements.

- NHDS, NAMCS/NHAMCS, Mortality, Natality, and DHHS Hosted Data Users: Provide a single dictionary that includes all the variables (public and restricted) you would like extracted for you data set.
- I. References: Please limit the list to 10 items or less.
- J. Resumes/C.V.: Please include a 2-page C.V. for each member of the research team listed in the initi (not as attachments).



Workshop on Restricted Health Data available at the Philadelphia FSRDC

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University of Pennsylvania March 22, 2017