Board of Scientific Counselors

Jennifer Madans, PhD
Acting Director, National Center for Health Statistics
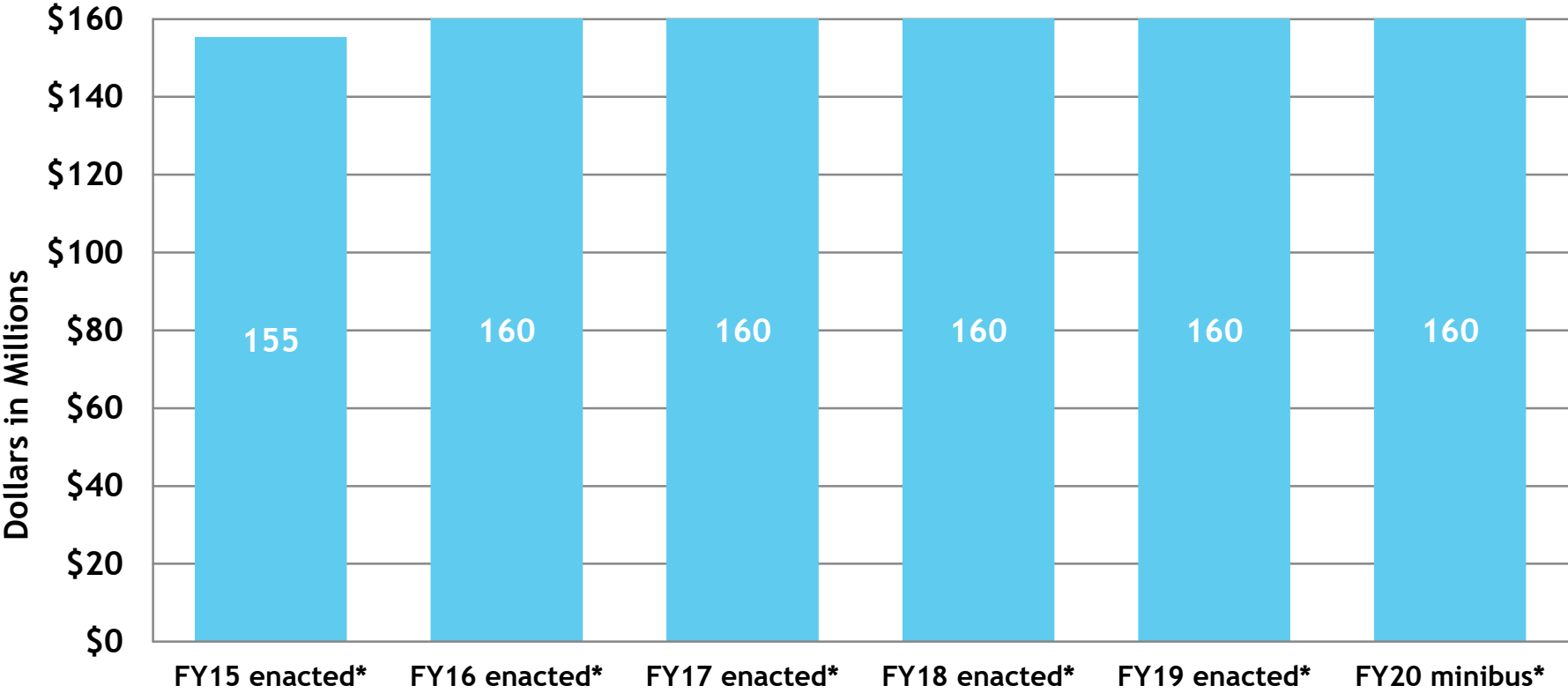January 9, 2020

Administrative and Budget Updates
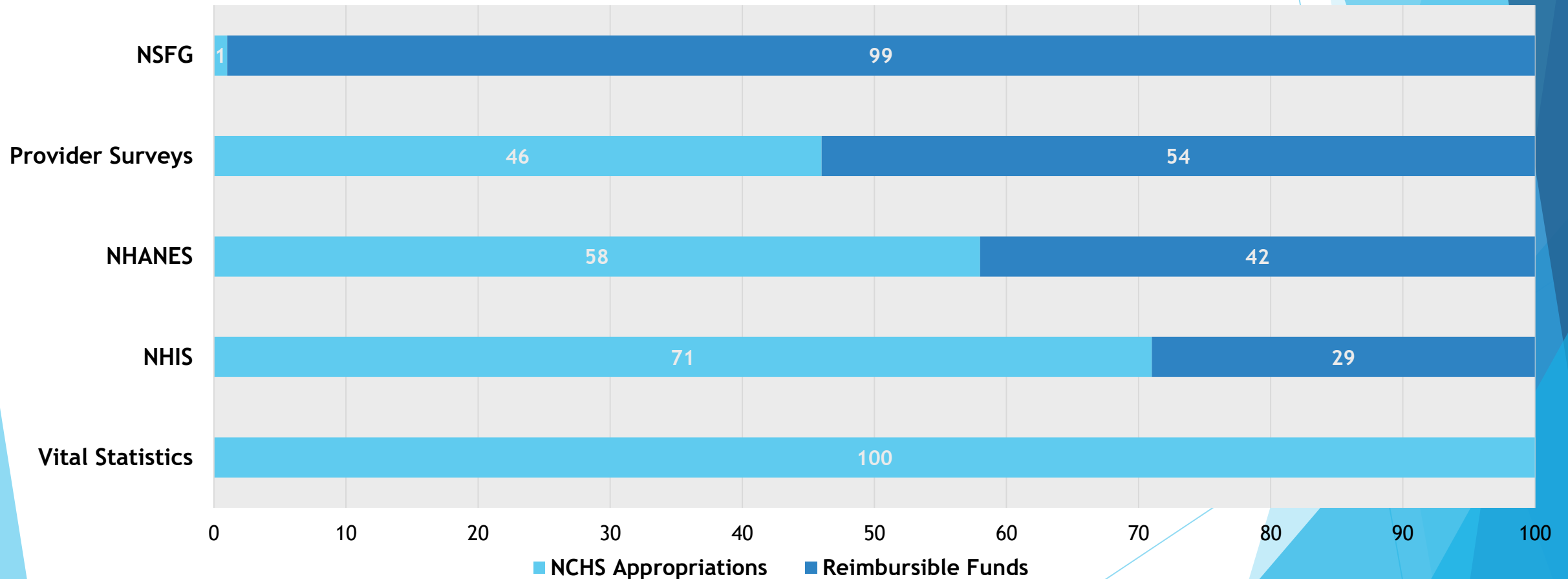
NCHS Budget

*Amount includes funding for administrative and business services through the CDC Working Capital Fund.

Not included: NCHS relies on an additional transfer from CDC's Public Health and Scientific Services Account, about $14 million annually.

FY 2020 Appropriations

▶ Appropriations allocates an additional $50 million to CDC for "Public Health Data Surveillance/IT Systems Modernization"

▶ Joint Explanatory Statement: "CDC is directed to provide a multi-year plan, including at least five years of budget projections, as well as the innovation strategy for surveys conducted by the National Center for Health Statistics to the Committees no later than 120 days after enactment of this Act."

# Percentage of NCHS Data Collections Funded by Reimbursable Dollars in FY 2019

Data Collection	NCHS Appropriations	Reimbursible Funds
NSFG	1	99
Provider Surveys	46	54
NHANES	58	42
NHIS	71	29
Vital Statistics	100	

Additional NCHS Funding

Funding Type	FY 2018	FY 2019	FY 2020 (request)
Patient-Centered Outcomes Research (PCOR) Initiative*	$4,826,561	$1,556,845	$960,000
Opioid Response Coordinating Unit (ORCU)	$7,830,000	$13,249,000	$4,000,000
TOTAL	$12,656,561	$14,805,845	$4,960,000

A New Look for NCHS

View walking in
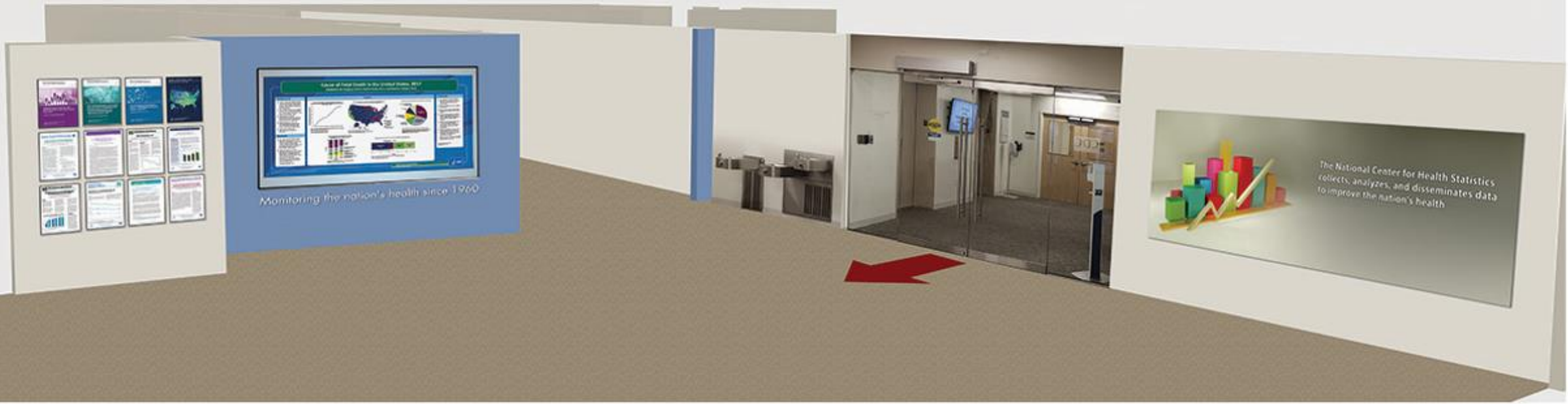
Wall Graphic

The National Center for Health Statistics collects, analyzes, and disseminates data to improve the nation's health

National Center for Health Statistics

Monitoring the nation's health since 1960

Health, United States Wall

Program updates

Division of Vital Statistics (DVS): Maternal Mortality Data Release

▶ NCHS will resume publication of maternal mortality statistics with release of the final 2018 mortality data on **January 30, 2020**

▶ 3 reports:

1. **Evaluation of the Pregnancy Status Checkbox on the Identification of Maternal Deaths** – addresses the impact of the inclusion of a pregnancy status checkbox item on the U.S. Standard Certificate of Death on the number of deaths classified as maternal

2. **The Impact of the Pregnancy Checkbox and Misclassification on Maternal Mortality Trends in the US, 1999-2017** - models the impact of the staggered implementation of the pregnancy checkbox and potential outcome misclassification on MMRs and related trends

3. **Maternal mortality in the United States: Changes in coding, publication, and data release, 2018** – presents changes in how NCHS will code (using a new method), publish and release maternal mortality data along with official 2018 maternal mortality estimates

Planned Improvements in the Collection of Maternal Mortality Data

- Understand errors in the pregnancy checkbox and how to correct these errors
    - Examine existing EDR systems to see if improvements in design could help improve the data
    - Develop web service designed to prompt the cause of death certifier to confirm the information provided in the checkbox item
- Encourage cooperation between state vital records and state maternal and child health agencies
    - Rapid assessment of deaths of women of reproductive age
    - Linkages for deaths of women of reproductive age with birth and fetal death records
- New information derived from the assessment must be incorporated in the vital statistics system

Division of Health Interview Statistics

2019 Redesigned National Health Interview Survey (NHIS)

► Early Release Program plans to release preliminary estimates in late February or March 2020

► Interactive data query system with preliminary 2019 estimates expected in Summer 2020 (NHIS 2015 – 2018 data will be released in early 2020 in the new data system)

► Full-Year data release expected in/around September 2020

2020 NHIS and NHANES Innovation

► Pilot Test to collect blood samples and anthropomorphic measurements from adult respondents of the NHIS

► Results will feed into NHANES redesign

Division of Health and Nutrition Examination Survey (DHANES): Data Release
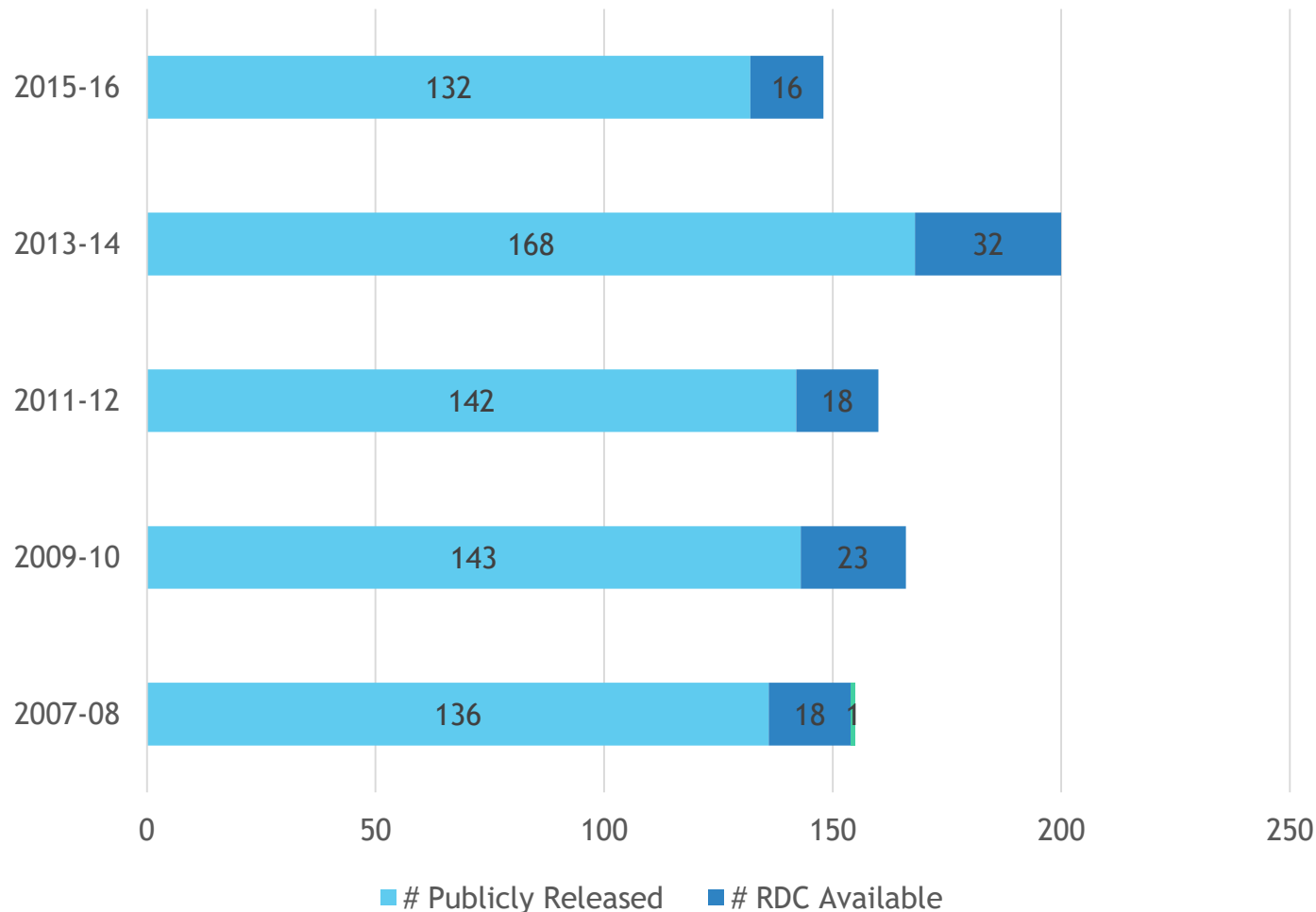
❖ **Over 60 2017 – 2018 data files are expected to be released in Q1 2020**

Division of Health and Nutrition Examination Survey (DHANES): NHANES Biospecimens

Biospecimens have been collected from NHANES participants since 1988

NHANES Cycle	Specimen Type						DNA
	Pristine			Surplus			
	Sera	Plasma	Urine	Sera	Plasma	Urine	
1988-1994	X	...	...	X	...	...	X
1999-2000	X	X	X	X	X	X	X
2001-2002	X	X	X	X	X	X	X
2003-2004	X	X	X	X	...	...	...
2005-2006	X	X	X	X	...	...	...
2007-2008	X	X	X	X	...	...	X
2009-2010	X	X	X	X	...	...	X
2011-2012	X	...	X	X	...	...	X
2013-2014	X	...	X	X	...	...	...
2015-2016	X	...	X	X	...	...	...
2017-2018	X	...	X	X	...	...	...

Nearly 400 publications have used NHANES biospecimen data
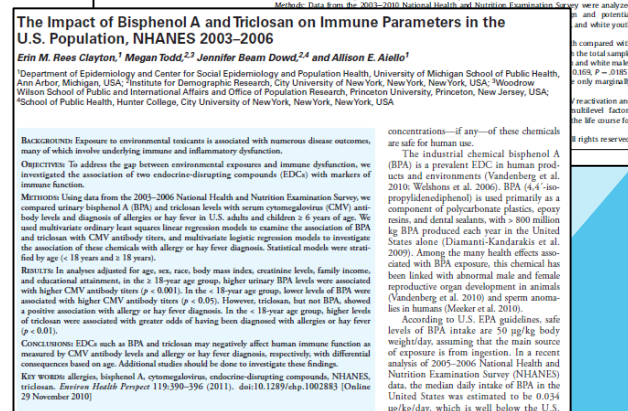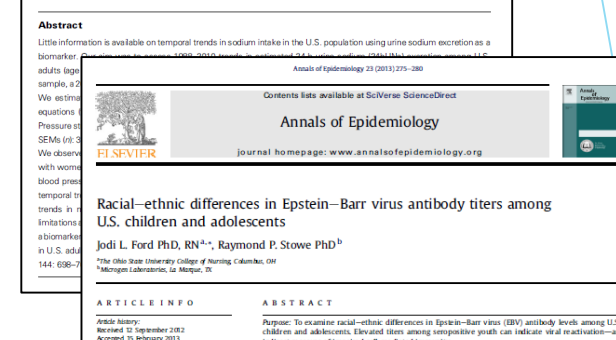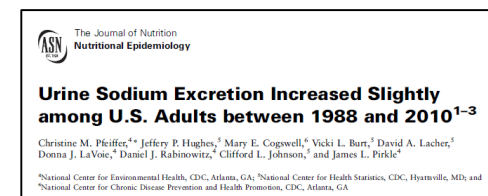
Division of Health and Nutrition Examination Survey (DHANES): Announcements

New Personnel:
Operations Branch Chief: Jessica Graber, Ph.D.

Redesigned Homepage

Updated Tutorial

Division of Health Care Statistics (DHCS)

- 2017 National Hospital Ambulatory Medical Care Survey (NHAMCS) Emergency Department (ED) Data Released in November 2019

- <u>NCHS National Post-Acute and Long-Term Care Study</u>
  - NPALS is here!: New name for the National Study of Long-Term Care Providers starting in January 2020
  - Awarded survey contract to RTI International in September 2019

Division of Analysis and Epidemiology (DAE):
Health, United States, 2018

▶ Released online October 30, 2019

▶ Within the first month, there were approximately:

   ❖ 9,000 page views of the report homepage,

   ❖ 2,200 downloads of the Chartbook PDF, and

   ❖ 26,700 page views of the Data Finder

▶ Hosted a public webinar to an audience of 100+ in November 2019

▶ Report briefing to House and Senate Appropriations Committee's Labor, Health, and Human Services subcommittee staff

DAE: Healthy People

Healthy People 2030

▶ Departmental clearance of objectives completed (December 2019)

▶ **Scheduled release of HP2030 on March 31, 2020**

▶ Additional HP2030 measures and indicators on a rolling release in late 2020 or early 2021:

  ▶ Foundation Health Measures – Technical Advisory Panel meeting

 ▶ Leading Health Indicators – high-priority health issues and actions

Healthy People 2020

▶ Processing of final data updates (early 2020)

▶ Release of HP2020 Executive Summary (October 2020)

▶ Release of HP2020 Final Review (late 2021)

DEVELOPING
HealthyPeople
2030

DAE: Data Linkages Program

▶ 2019 Data Releases:

 ❖ Public use linked mortality files

 ❖ Updated linked NCHS-Medicaid files

 ❖ Updated linked NCHS-HUD files

 ❖ National Hospital Care Survey data linked to NDI and CMS (funding from PCORTF)
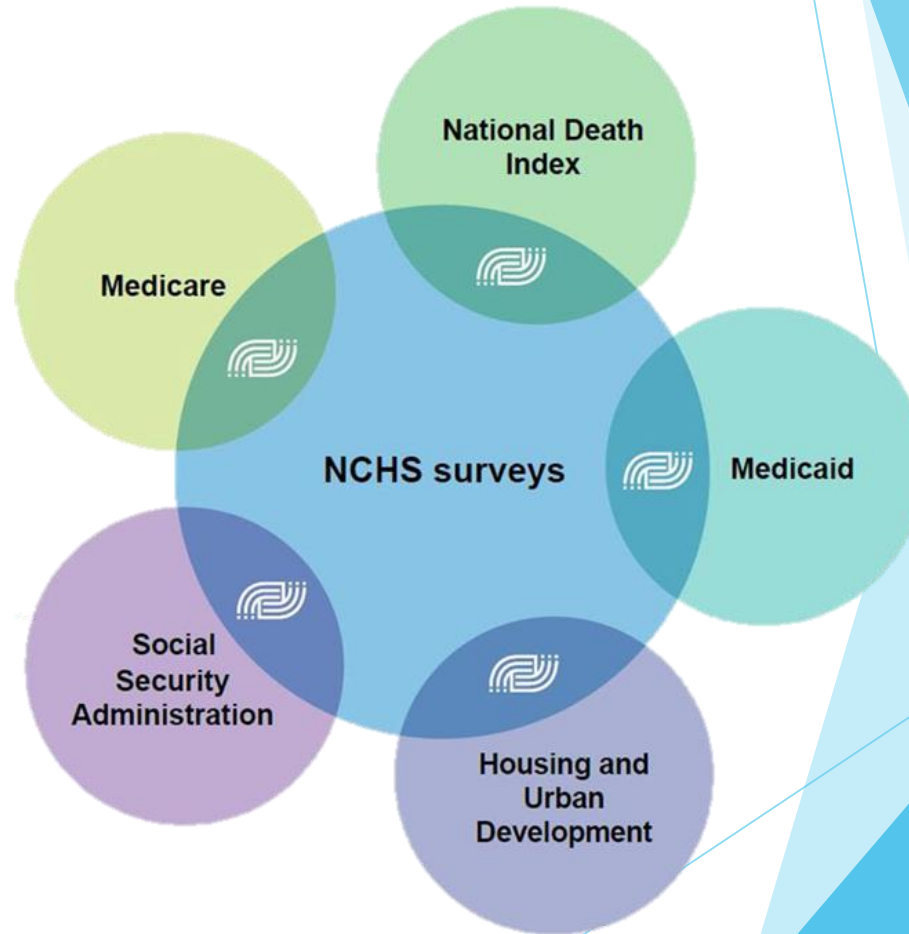
# Division of Research and Methodology (DRM)

Research Data Center (RDC)

- Census is running two pilot projects related to accessing restricted-use data:
  - Common application system for all statistical agencies - used for submission of requests for access to restricted-use data (in response to section 3583 of the Evidence Act)
  - Virtual data enclave – to assess feasibility and develop lessons learned for future protocol establishment

- Census Headquarters RDC recently closed
- Washington, DC Federal Reserve Bank RDC opened in October 2019
- Federal Statistical RDCs (FSRDC) Opening in Feb. 2020:
  - Wasatch Front at the University of Utah
  - University of Illinois Urbana-Champaign

- NCHS RDC recently signed an agreement with EPA to make certain EPA restricted-use data available through the FSRDC system.

RDC RESEARCH DATA CENTER Confidential and Secure Access

15ᵗʰ Anniversary of QuickStats

- Started in 2005
- A single chart with a short, concise caption
- Appears in CDC's *MMWR* every week
- Presents data from all NCHS data systems
- Unique method to disseminate data
- Easy to understand

First NCHS QuickStats: January 14, 2005
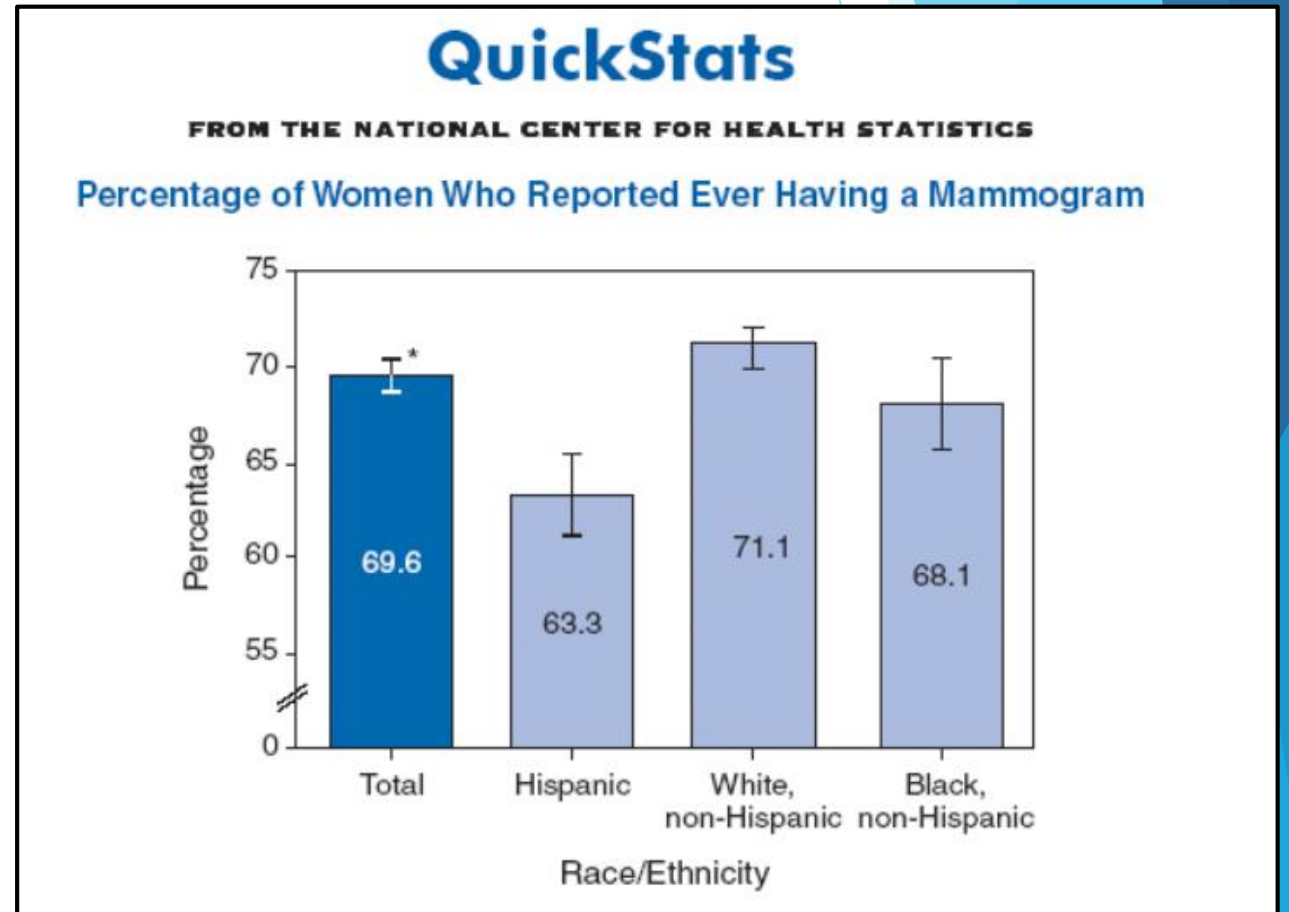
QuickStats: Overview and Value to NCHS

- 694 QuickStats published

- 222 authors, mostly from NCHS (occasional collaboration with CDC or other federal agencies)

- NCHS Data Division Representatives guide the process

- Continuous presence in *MMWR*

- Expand readership

- Recognition by public health community/leaders

- Awareness through social media

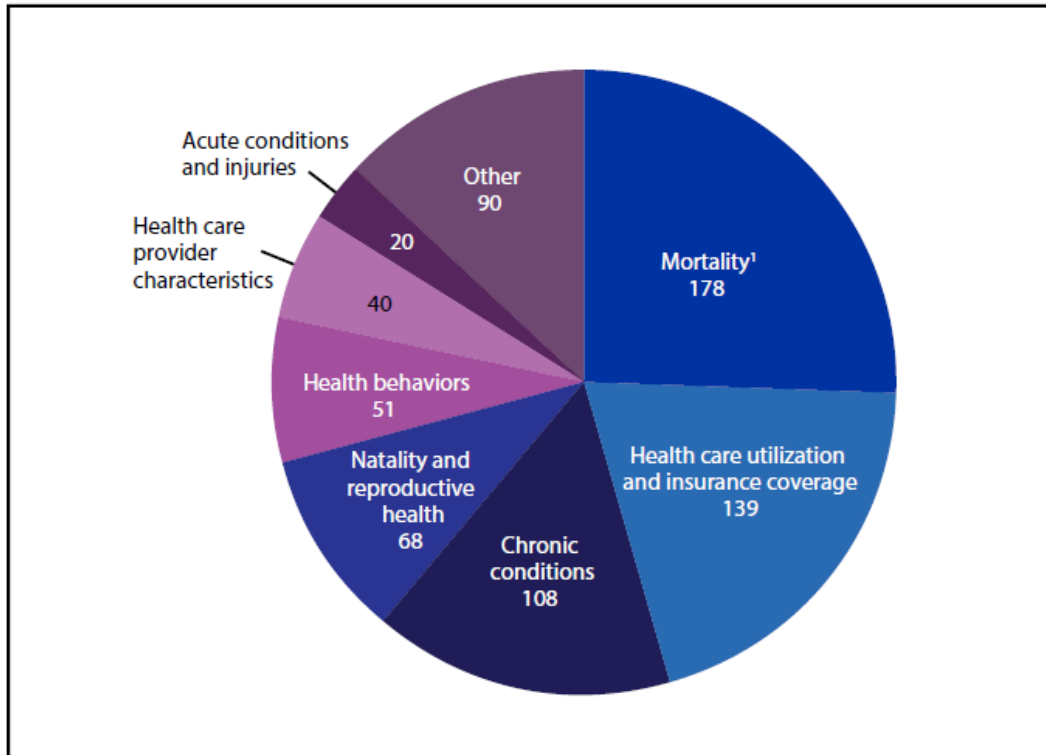- Creates data base of key findings for use by researchers, reporters, the public
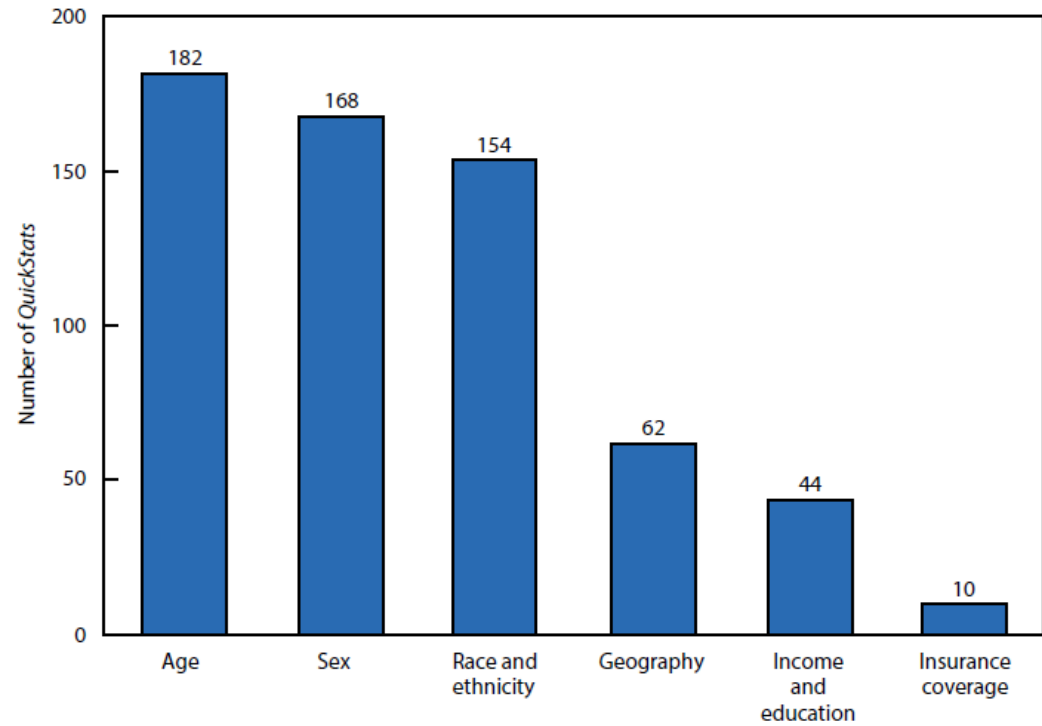
Sandy Smith

NCHS QuickStats Authors

QuickStats: Celebrating 15 Years

QuickStats: Number of published *QuickStats* from NCHS, by topic—2005–2019

QuickStats: Number of published *QuickStats* from NCHS, by population characteristics—2005–2019

Acute conditions and injuries
Health care provider characteristics
Other 90
Mortality[1] 178
20
40
Health behaviors 51
Health care utilization and insurance coverage 139
Natality and reproductive health 68
Chronic conditions 108

[1]Includes all causes of death (chronic and acute conditions and injuries).

NOTE: Subgroups defined by more than one characteristic can be shown in a single *QuickStat*. Not all subgroups are shown in this chart.

Latest QuickStats

Expected Number of Births over a Woman's Lifetime* — National Vital Statistics System, United States, 1940–2018
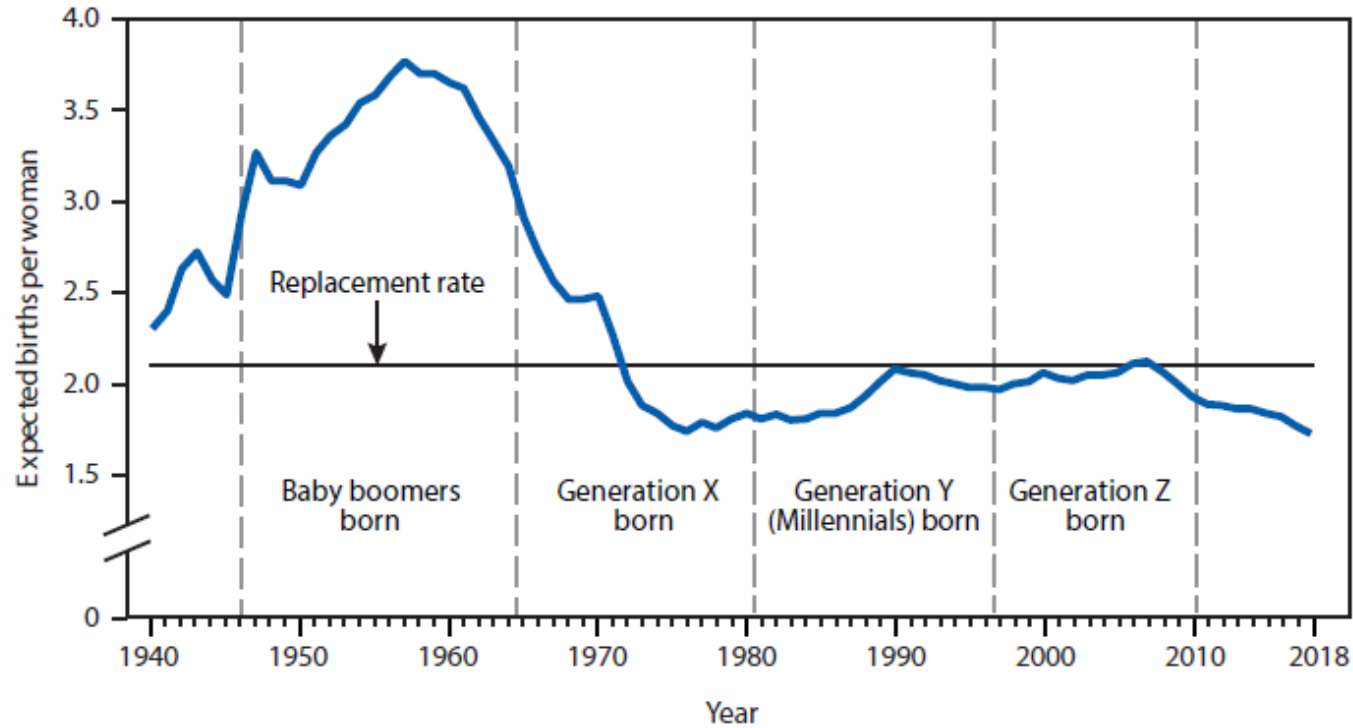
* The total fertility rate (TFR), the expected number of births that a woman would have over her lifetime, is the sum of the birth rates for women by 5-year age groups for ages 10–49 years in a given year, multiplied by 5 and expressed per woman.

NCHS Publications by Fiscal Year

Publications Type	Fiscal Year									
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020*
Data Briefs	30	31	23	37	50	42	28	34	29	3
Early Release	11	15	14	12	9	0	0	9	11	0
Fact Sheets				1	10	4	16	29	24	0
Health E-Stats	5	6	3	5	4	8	1	6	1	2
Health, United States	2	2	2	2	2	2	1	1	0	1
Healthy People, 2020							1	0	0	0
Misc. Reports	1	0	2	1	0	0	0	0	0	0
NHSR	16	15	11	9	7	13	9	12	10	6
NVSR	8	13	8	10	17	7	8	8	14	2
Series Reports	10	11	13	10	6	4	7	10	3	1
Statistical Note							1	0	0	0
Vital Statistics Rapid Release Special Report								1	4	1	0
Vital Statistics Reporting Guidance (VSRG)									1	1	0
Visual Abstracts										3
TOTALS	83	93	76	87	105	81	72	114	94	18

*As of December 10, 2019

Data Briefs Since Last BSC

- **Is Twin Childbearing on the Decline? Twin Births in the United States, 2014 – 2018**
  - Following more than three decades of increases, the twin birth rate declined 4% during 2014–2018, to the lowest rate in more than a decade.

- **Death Rates Due to Suicide and Homicide Among Persons Aged 10 – 24: United States, 2000 – 2017**
  - After stable trends from 2000 to 2007, suicide rates for persons aged 10–24 increased from 2007 to 2017, while homicide rates declined from 2007 to 2014 and then increased through 2017.

- **Vision Testing Among Children Aged 3 – 5 Years in the United States, 2016 – 2017**
  - Children with private health insurance (66.7%) were more likely than both children with public coverage (61.2%) and uninsured children (43.3%) to have ever had a vision test.

Upcoming NCHS Reports

- Human Papillomavirus Vaccination Among Adults Aged 18 – 26, 2013 – 2018 (*released 1/7/2020*)

- Trend in Opioids Prescribed at Discharge From Emergency Departments Among Adults: United States 2006-2017 (*released 1/8/2020*)

- Physician Office Visits at Which Benzodiazepines Were Prescribed: Findings From the 2014-2016 National Ambulatory Medical Care Survey

- Demographic, Health Care, and Fertility-Related Characteristics of Adults Aged 18-44 Who Have Ever Been in Foster Care: United States, 2001-2017

Upcoming NCHS Reports cont.

Upcoming 2018 Mortality publications: January 30, 2020
Evaluation of the Pregnancy Status Checkbox on the Identification of Maternal Deaths
The Impact of the Pregnancy Checkbox and Misclassification on Maternal Mortality Trends in the US, 1999-2017
Maternal mortality in the United States: Changes in coding, publication, and data release, 2018
Mortality in the United States, 2018
Drug Overdose Deaths in the United States, 1999 – 2018
Life Expectancy in the U.S., 2018

Upcoming 2017-18 NHANES publications: Expected 2020 Quarter 1
NHANES Estimation Procedures, 2015-2018
Sampling Variability and Nonresponse Bias 2017-2018 NHANES
Hepatitis B Virus Infection and Vaccination
Obesity among adults and youth
Hypertension among adults
Non-high-density lipoprotein (HDL) and HDL cholesterol in adults

NCHS in the News

Teen suicides are increasing at an alarming pace, outstripping all other age groups, a new report says

n p r

Twin Birthrate Drops For First Time Since The '80s

October 3, 2019 · 12:01 AM ET

EMILY VAUGHN

MEDICALNEWSTODAY

Racial disparities in premature deaths from power plant emissions

PHYSICIAN'S WEEKLY

Foreign-Born Women in U.S. Less Likely to Have Mammograms

NCHS in the News

WebMD

Marriage Tied to Longer Life Span, New Data Shows

Home Health Care News

With More Americans Dying at Home, Providers Must Double Down on End-of-Life Care

AAP News

How to code for lung injuries associated with vaping

Bloomberg

State of Health Report Shows Growing Despair Among American Men

NCHS at the International Conference on Health Policy Statistics

NCHS Session on Linked Data for Evidence-Based Policymaking

- ❖ Session Chair: Jennifer Madans
- ❖ Presentations:
  - ❖ *Leveraging Linked Data for Evidence-Based Policymaking*, by Lisa Mirel
  - ❖ *Identification of Opioid-Involved Health Outcomes Using Linked Hospital Care and Mortality Data*, by Carol DeFrances
  - ❖ *On the Utility of Prediction Models in Large Government Surveys: Using Linked Administrative-Survey Data to Inform Analyses of More Contemporaneous Survey Data*, by Yulei He (for Jennifer Rammon)
  - ❖ *Research Data Centers for Data Access*, by Jennifer Parker