CIVIC DIGITAL FELLOWSHIP

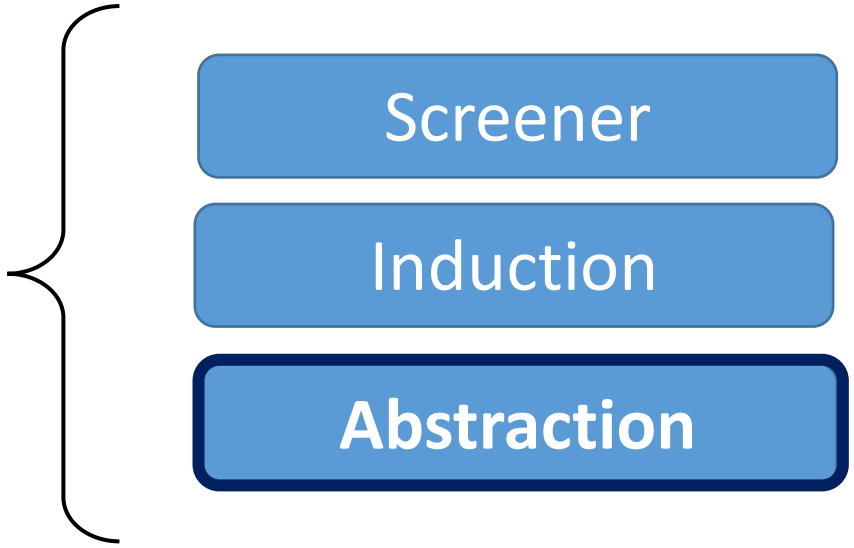
Investigating Electronic Health Records Data Options

Lydia Hu
Supervised by Lucinda P. Dalzell
Demographic Directorate (ADDP)

United States® Census Bureau

NAMCS

National
Ambulatory
Medical
Care
Survey



Centers for Disease Control and Prevention
National Center for Health Statistics

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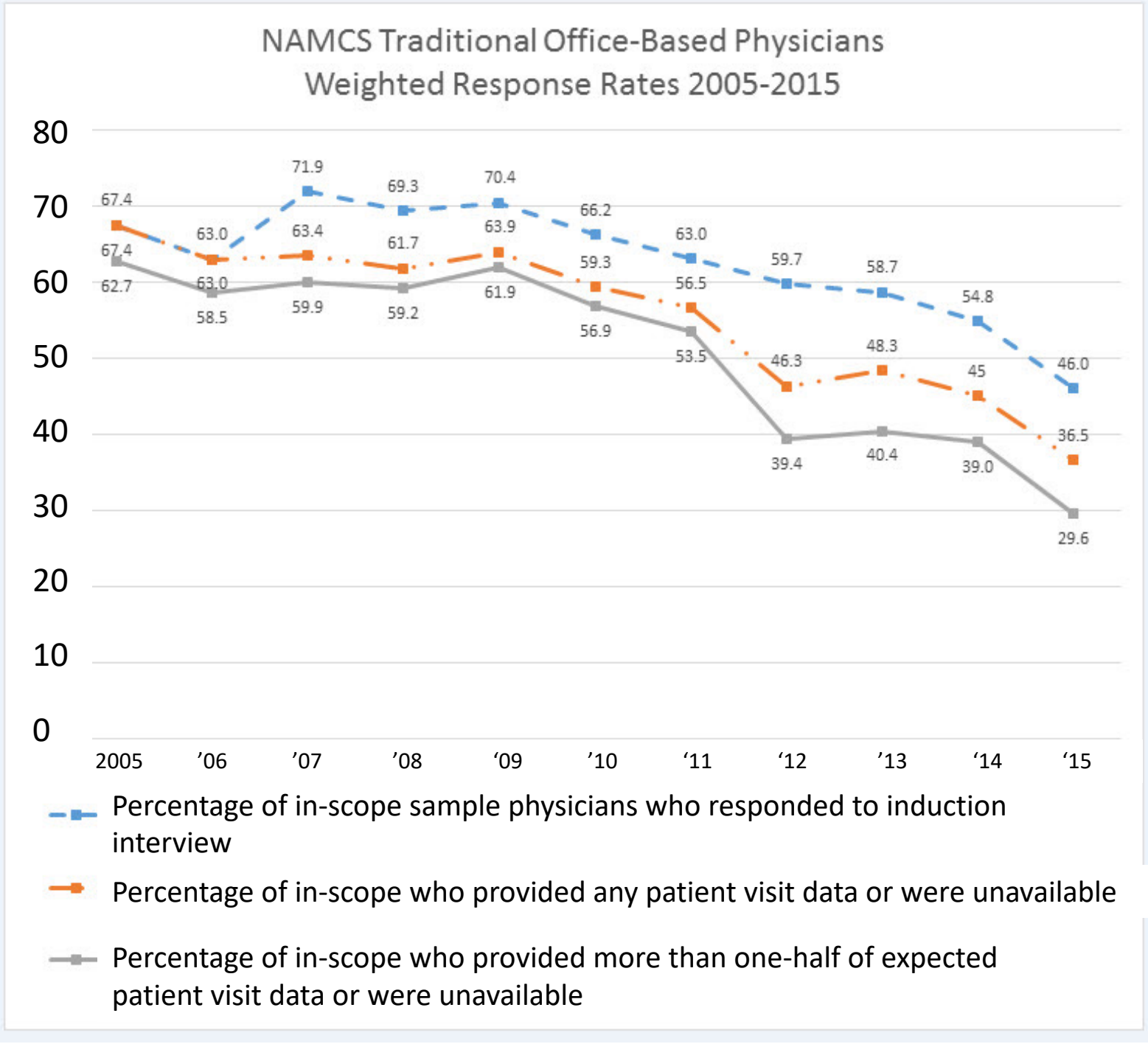
Problem

Survey Trends

- Decreasing response rates
- Increasing out-of-scope rates

Investigate

- Newer healthcare technologies in the form of Electronic Health Records (EHR) data
- Potential data collaborations



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Process

Investigate a series of potential data sources and evaluate their fitness with NAMCS needs by looking at websites, publications, and how that data source has been used by other institutions.

Criteria:

- ❑ Coverage
- ❑ Geographical data
- ❑ Linkage & identifiers
- ❑ Standardization & processing
- ❑ Frequency of updates
- ❑ Confidentiality
- ❑ Accessibility & cost

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Sources

Data Source	Data Provider
PRIME Registry	American Board of Family Medicine (ABFM)
Cosmos	Epic Systems
MarketScan Research Databases	IBM
IQVIA	IQVIA Inc.
Omnicell	Omnicell Inc.
OptumLabs Data Warehouse	Optum Inc.
Observational Health Data Sciences & Informatics	Columbia University
University of North Carolina Health System	University of North Carolina (UNC)
National Patient-Centered Clinical Research Network	Patient-Centered Outcomes Research Institute
Million Hearts Model	Centers for Medicare & Medicaid Services (CMS)

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Categories: Newsletter Issue 2021:1

Data Resources on Health Care Encounter Data

By: Alice Chen, Michael Richards, and Kosali Simon

We provide an overview of some commonly-used data sources for research using health care encounter data. We introduce these data sources, identify their relative accessibility—which may differ across institutions and networks— and provide download links. Like prior columns on hospital financial data and data on medical providers, the resources we document here are not comprehensive; we encourage researchers to continue the conversation on Twitter with the hashtag #EncounterResearchData and share more details about these or other resources (as well as their own publications that use them, so we may learn from each other's research).

Publicly Available Data (Colleen Carey and Ian McCarthy)

Several surveys and publicly-available administrative datasets supply information on health care encounters that can be simply downloaded for free. Some measures of patient-level health care encounters are publicly available from survey data such as the Medical Expenditure Panel Survey or the National Health Interview Survey. The National Ambulatory Medical Care Survey samples office visits and can be a particularly good resource for primary care. If you need data on hospital utilization or spending, the National Hospital Ambulatory Medical Care Survey is also publicly available.

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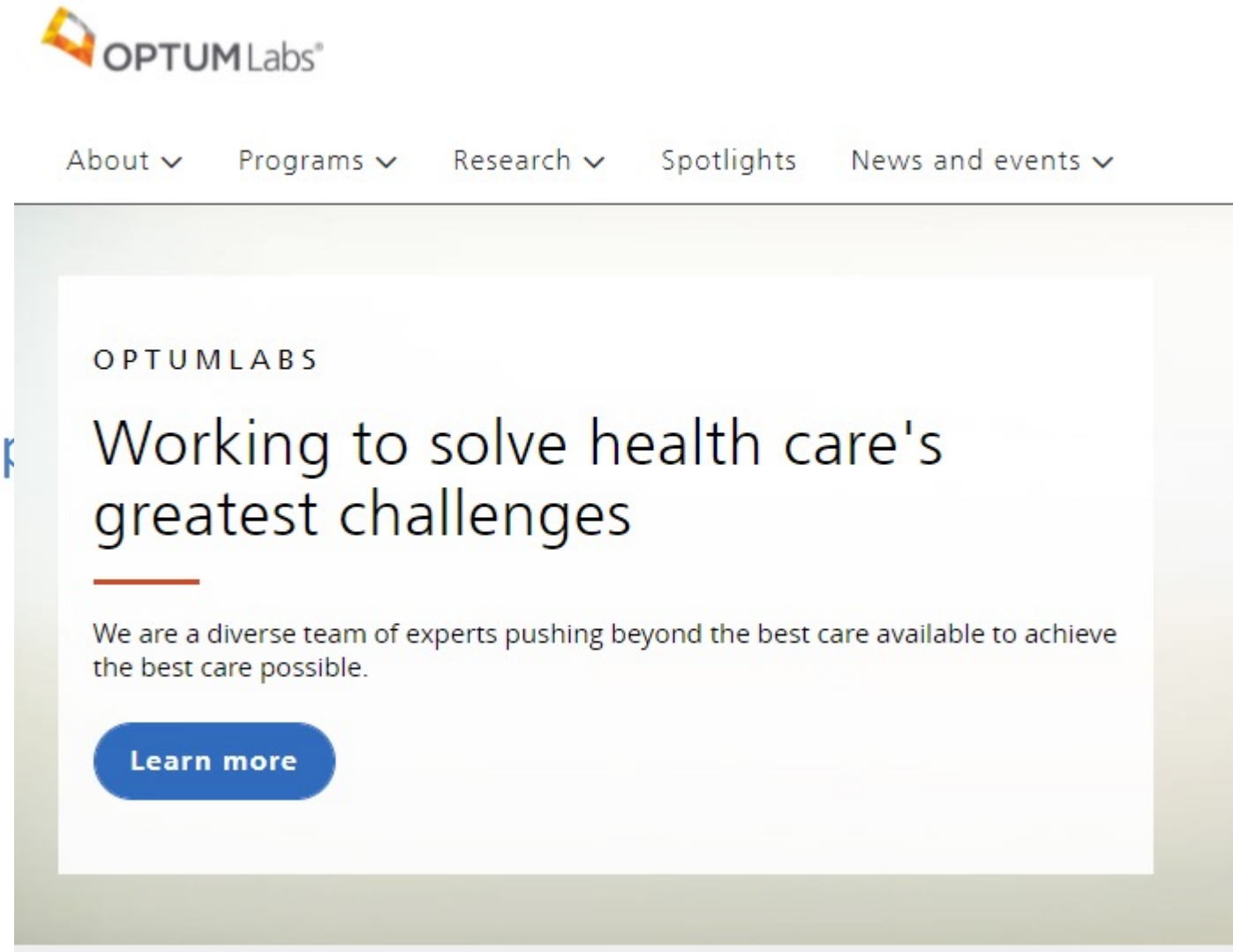

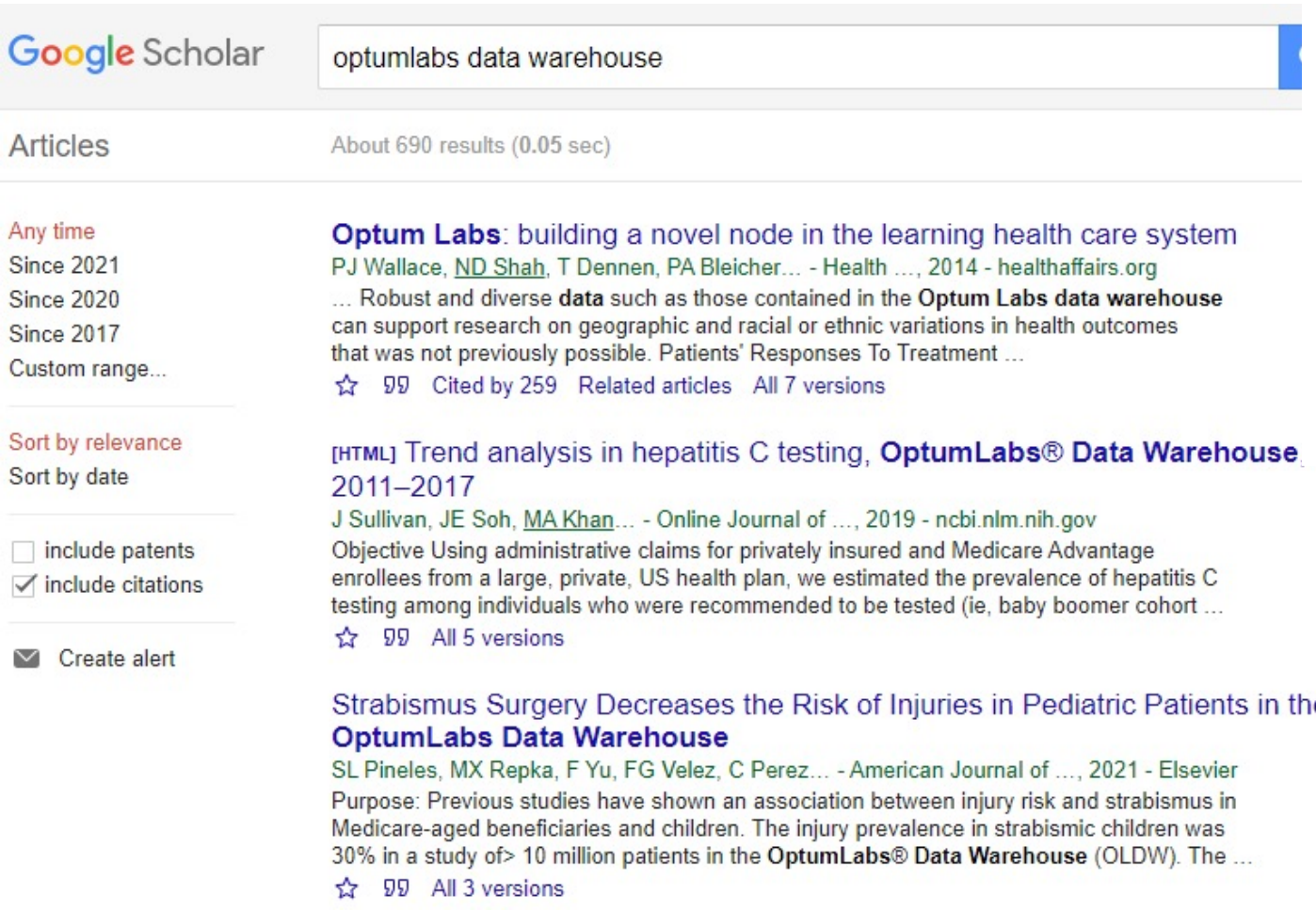

BUILDING RAPID-LEARNING SYSTEMS

By Paul J. Wallace, Nilay D. Shah, Taylor Dennen, Paul A. Bleicher, and William H. Crown

Optum Labs: Building A Novel Node In The Learning Health Care System

ABSTRACT Unprecedented change in the US health care system is being driven by the rapid uptake of health information technology and national investments in multi-institution research networks comprising academic centers, health care delivery systems, and other health system components. An example of this changing landscape is Optum Labs, a novel network "node" that is bringing together new partners, data, and analytic techniques to implement research findings in health care practice. Optum Labs was founded in early 2013 by Mayo Clinic and Optum, a commercial data, infrastructure services, and care organization that is part of UnitedHealth Group. Optum Labs now has eleven collaborators and a database of deidentified information on more than

LATEST HEALTH IT NEWS

Epic's Faulkner Has High Hopes for Forthcoming Cosmos Technology

Faulkner believes the company's Cosmos technology will be a breakthrough for evidence-based medicine at the point of care via Epic EHR technology.

By Kyle Murphy, PhD

CMS.gov

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Innovation Center Home > Innovation Models > Million Hearts®: Cardiovascular Disease Risk Reduction Model

Million Hearts®: Cardiovascular Disease Risk Reduction Model

The Million Hearts® Cardiovascular Disease (CVD) Risk Reduction Model is a randomized controlled trial that seeks to bridge a gap in cardiovascular care by providing targeted incentives for health care practitioners to engage in beneficiary CVD risk calculation and population-level risk management. Instead of focusing on the individual components of risk, participating organizations will engage in risk stratification across a beneficiary panel to identify those at highest risk for atherosclerotic cardiovascular disease (ASCVD).

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Omnicell to Acquire FDS Amplicare

IBM MarketScan Research Databases

	Criteria	Information
	Coverage	over 263M patients from over 500 hospitals and 25 health plans in 3 linked databases
	Geography	nationally representative of Americans with employer-provided health insurance
	Linkage & identifiers	no publicly accessible data about identifiers
	Standardization & processing	financial, clinical, and demographic fields are standardized and combined across years and data types
	Frequency & timing	annual database releases
	Confidentiality & security	synthetic identifiers are used; HIPAA compliant and verified by a third party for fully de-identified datasets
	Accessibility & cost	variable end-user fee depending on usage

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most data some data little data no data

Benefits

Standardized pros & cons analysis based on holistic criteria

Documentation of available and missing data characteristics to inform next steps

Detailed and at-a-glance comparisons of fitness of a variety of data sources

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Conclusion & Next Steps

- Further paper editing and polishing
- Start conversations with promising data providers
- Advance analysis of potential partnerships and data linkage

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