

Technology and Information: **Necessary Tools for Health in a Challenging Time**

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Trust for America's Health



Who we are What we do

- Policy
- Advocacy
- Communications





Meet Fran Edwards:

- ❑ Newly insured
- ❑ At MD for first physical 5 years
- ❑ 55 years old, married, smokes, overweight, exercise
- ❑ Asthmatic, pre-diabetic
- ❑ Stopped taking medications in past due to cost



Insurance and Quality Care Help... But they Aren't Enough

- ❑ **Income** - Poor, family of 5
- ❑ **Barriers to Fitness** – Rising crime, few parks, no nearby supermarket
- ❑ **Under stress** - Son with behavioral health concerns, worried about money
- ❑ **Sub-par Housing** – Mold and ventilation problems



Our Emphasis

- Focus on both health care and the social determinants of health - SDOH
- Attend to those issues at both the patient-specific and total populations levels



Examples of Information and Technology & the SDOH

Example #1

Identify Evidence-Based Approaches - *ROI*

Use both health outcome and clinical data to make the case

THE 6|18 INITIATIVE

**Accelerating
Evidence
into Action**

SIX WAYS TO SPEND SMARTER FOR HEALTHIER PEOPLE



REDUCE
TOBACCO USE



CONTROL
BLOOD PRESSURE



PREVENT HEALTHCARE-
ASSOCIATED INFECTIONS (HAI)



CONTROL ASTHMA



PREVENT UNINTENDED
PREGNANCY



PREVENT DIABETES

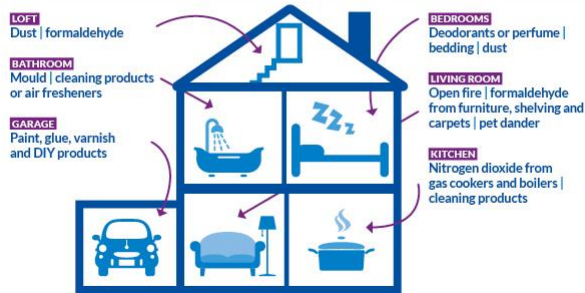
Provide all tobacco cessation meds without cost – MA Medicaid study



To Address Asthma:

Healthy Home Risk Reduction – MA research

Common asthma triggers in the home



Home visit by CHWs to

- ☐ Provide additional education/ encouragement
 - ☐ Assess risk factors in the home
 - ☐ Assist in removing risk factors

Go Beyond the MD Office

- School-Based Programs to Increase Physical Activity
- School-Based Violence Prevention
- Safe Routes to School
- Motorcycle Injury Prevention
- Tobacco Control Interventions
- Access to Clean Syringes
- Pricing Strategies for Alcohol Products
- Multi-Component Worksite Obesity Prevention

Counseling
and Education

Clinical Interventions

Long Lasting
Protective Interventions



Changing the Context

Making the healthy choice the easy choice

- Early Childhood Education
- Clean Diesel Bus Fleets
- Public Transportation System
- Home Improvement Loans and Grants
- Earned Income Tax Credits
- Water Fluoridation



Social Determinants of Health

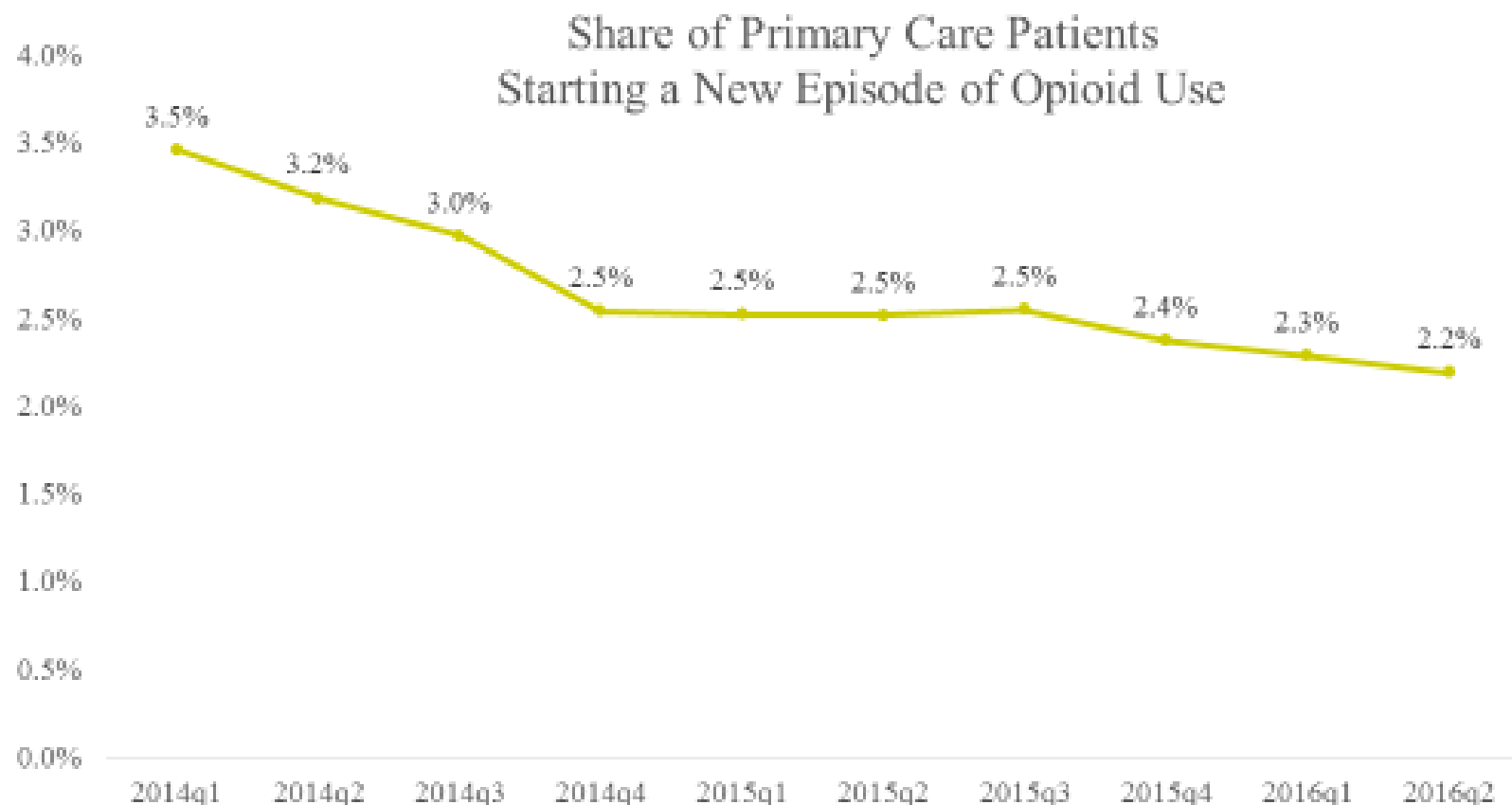
HI-5

HEALTH **IMPACT** IN 5 YEARS



Example #2 – Utilize EMR data in aggregate to drive/assess policy change

Steady decline in primary care patients starting new opioid prescriptions



Sample: Over 2 million visits from 1.5 million patients to over 2,900 individual providers each quarter.

Source: athenaResearch

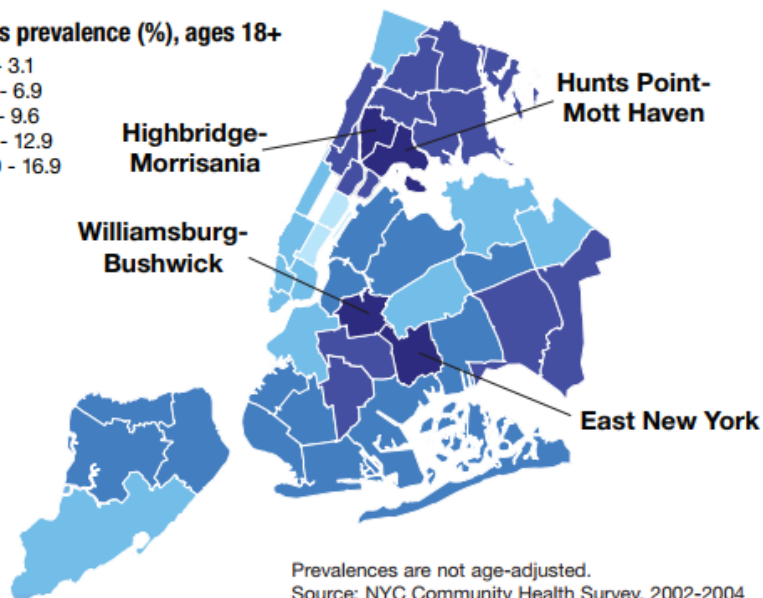
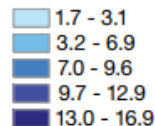
Objectives of New York City A1C Registry (NYCAR)

- Surveillance and epidemiology
 - Track trends on the population level
- Provider feedback and communication
 - Quarterly provider reports in comparison to peers
 - Quarterly rosters of patients stratified by A1C level
- Patient feedback (via provider)
 - Letters with A1C information
 - Local resources
- Deliver resources to providers/patients

All of the above requires matching and data linkages

Diabetes prevalence varies by neighborhood

Diabetes prevalence (%), ages 18+

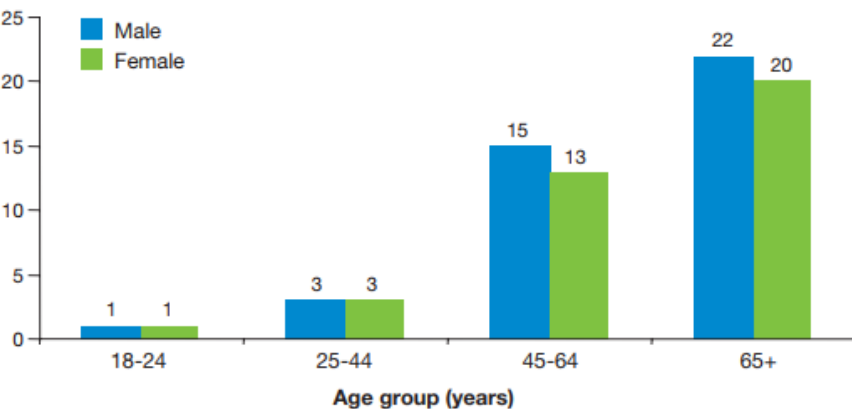


Prevalences are not age-adjusted.
Source: NYC Community Health Survey, 2002-2004

FIGURE 1-6

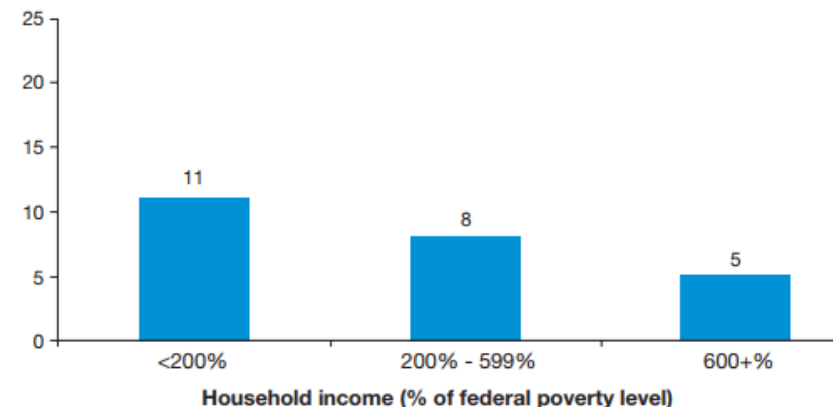
Diabetes prevalence increases with age

Diabetes prevalence (%)



Diabetes prevalence is highest among adults from the lowest income households

Diabetes prevalence (%)

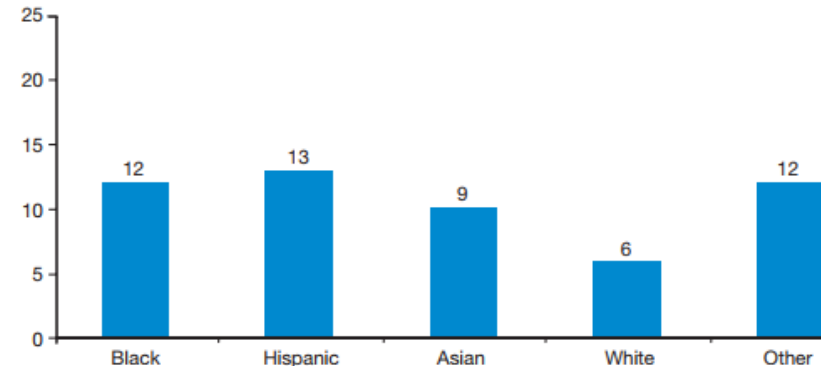


Percents are age-adjusted to the year 2000 U.S. Standard Population and exclude individuals who did not report age.
Source: NYC Community Health Survey, 2002-2004

FIGURE 1-7

Diabetes prevalence among blacks and Hispanics is more than twice that of whites

Diabetes prevalence (%)



Example #3 – Use Data from Non-Health Sectors

Utilization and Behavioral Patterns Help Identify Social ICU Patients

Jeffrey Brenner, MD, Camden, NJ

- Used medical billing data to explore health trends:
 - 1% of Camden's patients accounted for 30% of costs
 - Identified 2 most expensive blocks: a large nursing home and a low-income housing tower
- Camden Coalition of Healthcare Providers formed to provide a medical home for "super-utilizers"
 - Rely on home visits, phone calls, urgent call number to reach patients



Results

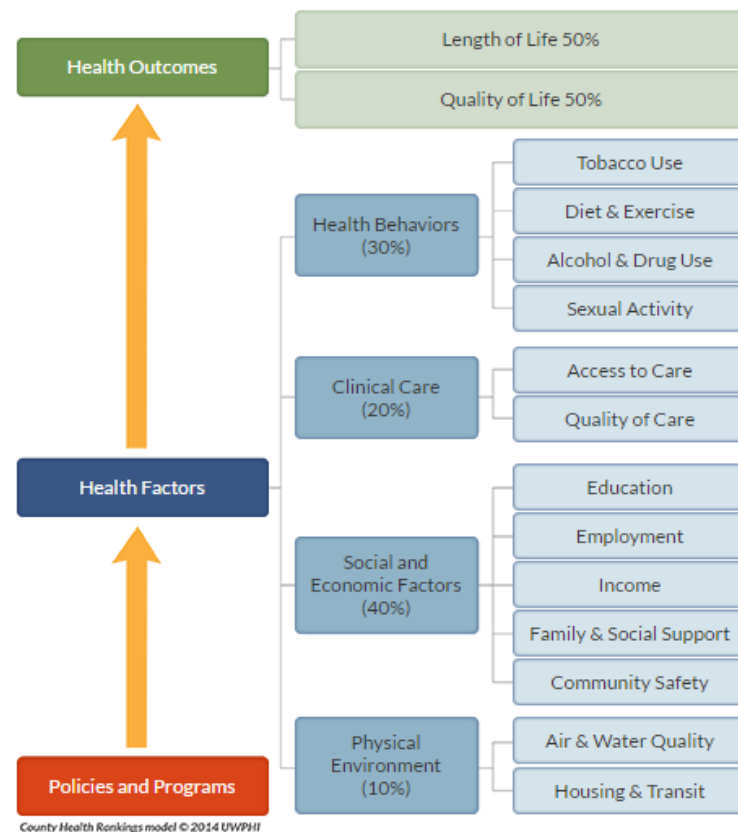
- 40% reduction in ED visits
- 56% reduction in hospital bills

"The people with the highest medical costs—the people cycling in and out of the hospital—were usually the people receiving the worst care."

ED = emergency department. Source: Gawande A. The hot spotters. *The New Yorker* January 24, 2011.
www.newyorker.com/reporting/2011/01/24/110124fa_fact_gawande. Accessed June 2011.

County Health Rankings

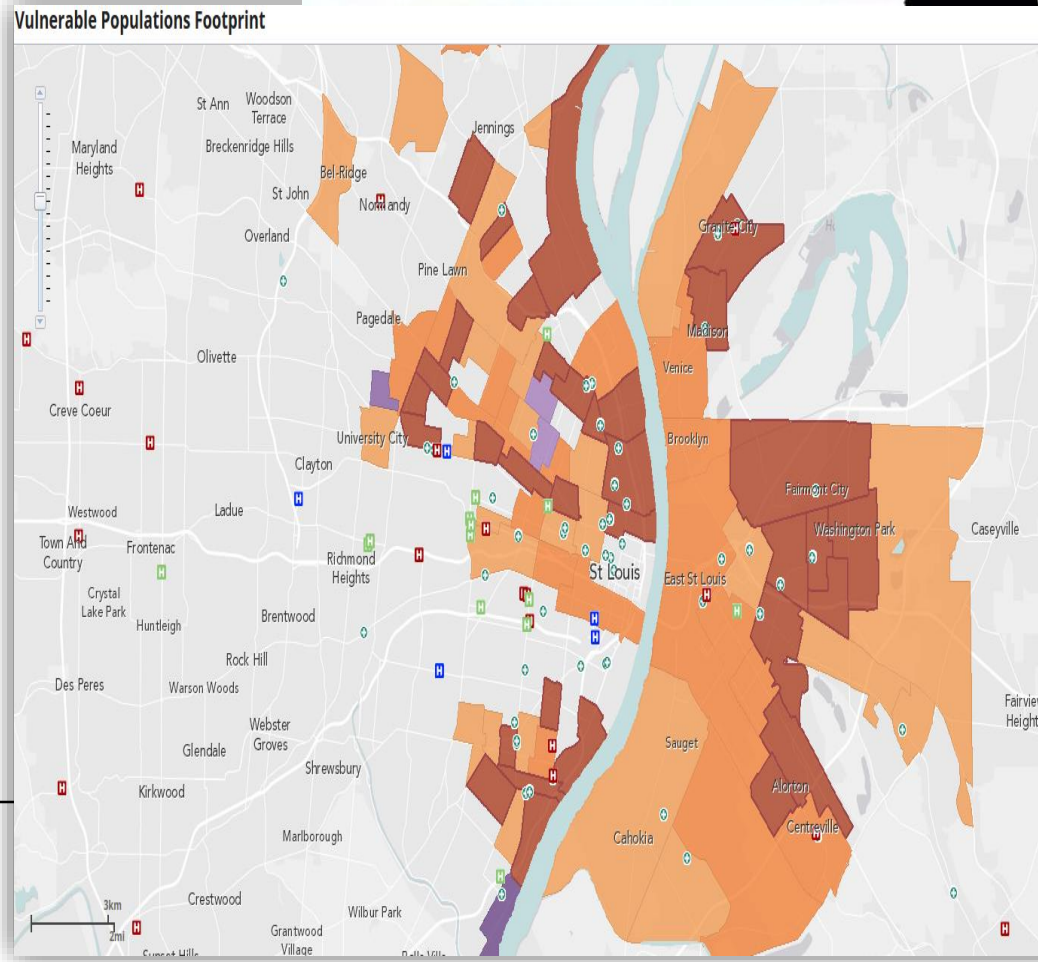
- *Annual Rankings:* snapshots of how health is affected by where one lives, works, plays
- Shows progress: looking at many health outcome measures in counties.
- Illustrates impact of efforts to address the many factors that influence health.



Community Commons



- Community Commons provides access to meaningful data, easy-to-use mapping tools, and community health needs assessments

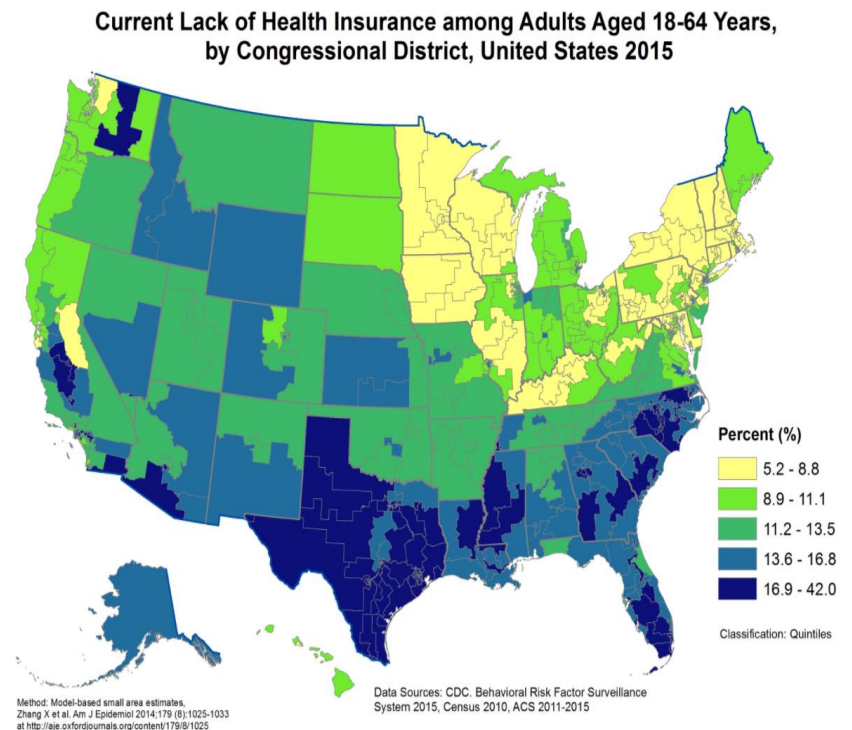


Example #4: Translate federal health policy into local reality



How Healthy is Your Congressional District?

- Snapshot of 7 preventive health measures for each Congressional District and state
- Uses data from CDC's Behavioral Risk Factor Surveillance System (BRFSS).



AA

AB

AC

AD

AE

AF

AG

AH

Adults Who Had a Cholesterol Screening

Rate	State	US Representative (District)
81.5	USA	
84.7	Maryland	Jamie Raskin (MD-8)
84.4	New Jersey	Leonard Lance (NJ-7)
84.2	Florida	Vern Buchanan (FL-16)
84.2	Florida	Daniel Webster (FL-11)
84.1	New York	Thomas R. Suozzi (NY-3)
84.1	New Jersey	Josh Gottheimer (NJ-5)
83.4	New Jersey	Rodney P. Frelinghuysen (NJ-11)
83.4	New Jersey	Christopher H. Smith (NJ-4)
83.1	Massachusetts	William R. Keating (MA-9)
83.1	New Jersey	Thomas MacArthur (NJ-3)
83.1	Florida	Bill Posey (FL-8)
83.0	Maryland	Andy Harris (MD-1)
83.0	Florida	Lois Frankel (FL-21)
82.8	New York	Kathleen M. Rice (NY-4)
82.8	Connecticut	James A. Himes (CT-4)
82.8	Massachusetts	Seth Moulton (MA-6)
82.7	Florida	Brian J. Mast (FL-18)
82.7	Florida	Charlie Crist (FL-13)

% of Adults Who Currently Smoke

Rank	Rate	State	US Representative (District)
	17.5	USA	
1	7.9	Utah	Jason Chaffetz (UT-3)
2	8.3	California	Ro Khanna (CA-17)
3.5	8.8	California	Jackie Speier (CA-14)
3.5	8.8	California	Zoe Lofgren (CA-19)
5	9.2	Utah	Mia B. Love (UT-4)
6	9.4	California	Anna G. Eshoo (CA-18)
7	9.5	Utah	Chris Stewart (UT-2)
8	9.9	Utah	Rob Bishop (UT-1)
9	10.0	Washington	Adam Smith (WA-9)
11	10.1	California	Eric Swalwell (CA-15)
11	10.1	California	Julia Brownley (CA-26)
11	10.1	Maryland	Jamie Raskin (MD-8)
13	10.2	California	Nancy Pelosi (CA-12)
14	10.4	California	Barbara Lee (CA-13)
16	10.5	California	Judy Chu (CA-27)
16	10.5	California	Edward R. Royce (CA-39)
16	10.5	California	J. Luis Correa (CA-46)
18	10.6	California	Mimi Walters (CA-45)

CDC Investments by State - At Risk

Critical CDC Public Health Investments are at Risk:
The Impact in New York

Total Amount to New York:

\$41,517,446

667 jobs

Are estimated as supported by these funds
annually*

\$5,854,395 to support
vaccines for needy
children and adults

\$10,438,530 to the
Department of Public
Health for **core state-**
identified needs

\$3,089,349 in infectious
disease prevention
including health care-
associated infections

Diving Deep into Key Issues

ISSUE REPORT

A Funding Crisis for Public Health and Safety:

STATE-BY-STATE PUBLIC HEALTH FUNDING AND KEY HEALTH FACTS

2017



APRIL 2017

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ISSUE REPORT

Ready or Not

PROTECTING THE PUBLIC'S HEALTH FROM DISEASES, DISASTERS AND BIOTERRORISM

2016



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She Needs Our Help

