Public Health 3.0: A Vision for the Future

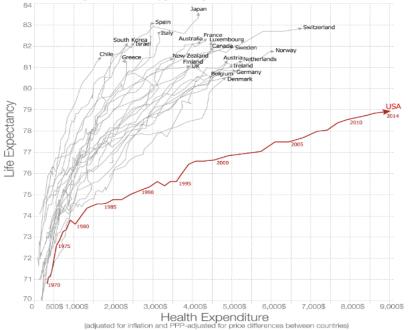
Karen DeSalvo, MD, MPH, MSc Kansas Governor's Public Health Meeting April 5, 2018 @kbdesalvo

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The Challenge

Life expectancy vs. health expenditure over time (1970-2014) Our World

In Data Health spending measures the consumption of health care goods and services, including personal health care (curative care, rehabilitative care, long-term care, ancillary services and medical goods) and collective services (prevention and public health services as well as health administration), but excluding spending on investments. Shown is total health expenditure (financed by public and private sources).

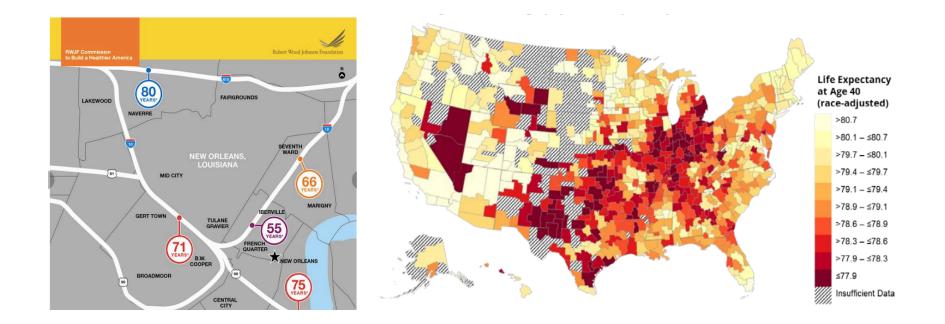


Data source: Health expenditure from the OECD; Life expectancy from the World Bank Licensed under CC-BY-SA by the author Max Roser. The interactive data visualization is available at OurWorldinData.org. There you find the raw data and more visualizations on this topic.

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The Challenge

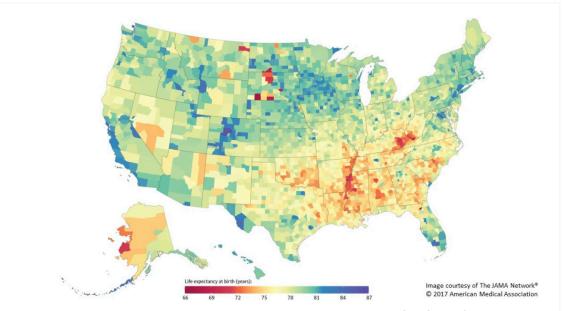


Woolf, VCU; Chetty et al. JAMA 2016;315(16):1750-1766 WWW.het

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Dying of Social Causes



Caption: Life expectancy at birth by county, 2014. Life expectancy into 80s (blue), 70s (green, yellow, orange), 60s (red).

Social Determinants

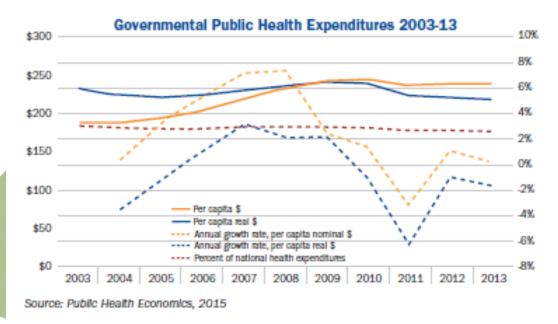


Health is made where we are born, live, work and age.



Many Pressures

- Epidemiology shifts
- Affordable Care Act
- Delivery System Reform
- Data and Technology
- Great Recession



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Evolution of PH

Public Health 1.0				
Tremendous growth of knowledge and tools for both	Public Health 2.0			
Uneven access to care and public health	Systematic development of PH (public health) governmental agency capacity across the U.S. Focus limited to traditional PH agency programs	Public Health 3.0		
		Engage multiple sectors & community partners to generate collective impact Improve social determinants of health		
ate 1800s	1988 IOM Future of Public Health Report	Recession Affordable 2012 IOM Care Act For the Public Health Report		
АЈРН, 2016	www.hea	althypeople.gov/ph3 #PH		

DeSalvo et al, AJPH, 2016

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Public Health 1.0



(late 19th/most of 20th Century)

Comprehensive public health protection—from primary prevention through treatment becomes possible for the first time in history.

Development of an astonishing array of health-protecting **tools** and **capacity** with increasingly sophisticated techniques for ensuring sanitation and food safety.



Public Health 2.0



(1980s to Present Day)

By late in the 20th century, there was *tremendously uneven* public health capacity at the local levels.

Health Departments strained to address new infectious disease challenges as well as the growing challenge of chronic disease prevention and preparedness.

Governmental public health 'came of age' – culminating in today's Health Department accreditation movement.

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Evolution of PH

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DeSalvo et al, AJPH, 2016

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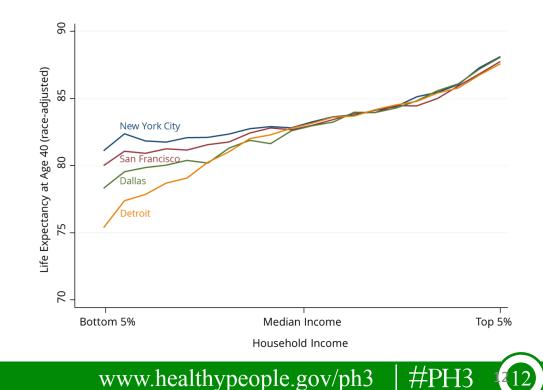
What we do together as a society to ensure the conditions in which everyone can be healthy.

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Inevitable Destiny?

Overall, the richest American men live 15 years longer than the poorest men, while the richest American women live 10 years longer than the poorest women.



Learn From Field





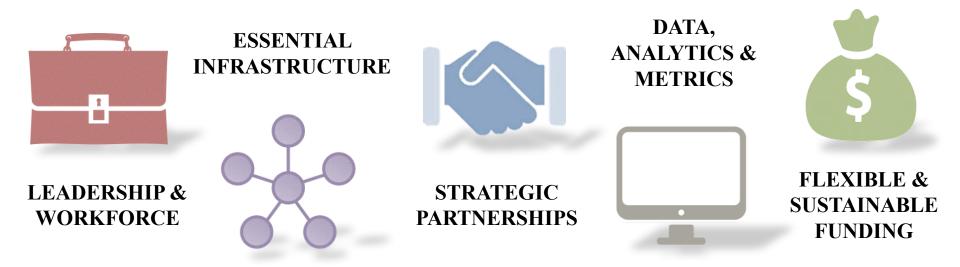
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Public Health 3.0

KEY COMPONENTS



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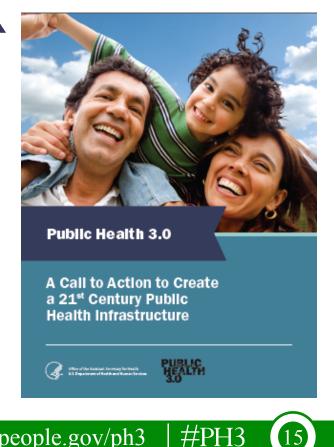
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Public Health 3.0

RECOMMENDATIONS

Report that reflects what we heard and saw across the country, including input from thought leaders.

We proposed **5** overarching recommendations and 51 actions that define what is most needed to support health departments and the broader public health system as it transforms to PH3.0.



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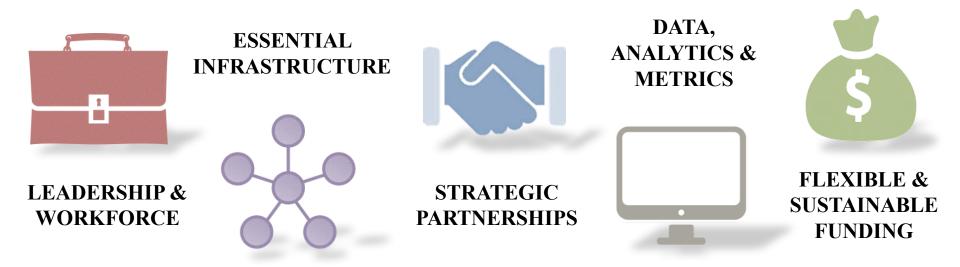
Recommendations

- I) Public health leaders should embrace the role of **chief health strategist** for their communities.
- 2) Public health departments should engage with community stakeholders from both the public and private sectors to form vibrant, structured, **cross-sector partnerships**.
- 3) PHAB accreditation for public health departments should be strengthened to ensure that every person in the United States is served by nationally accredited health departments.
- 4) Timely, reliable, granular, and **actionable data** should be accessible to communities, and clear metrics should be developed to document success in public health practice.
- 5) Funding for public health must be enhanced and substantially modified.



Public Health 3.0

KEY COMPONENTS



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1. Leadership & Workforce

- Strong role models in the field
- Most of the workforce feels unprepared
- Chief health strategist not always from public health
- New competencies and training models underway
 - Modification of curriculum for new workforce
 - deBeaumont (BEAM)
 - Illinois Public Health Institute
- Need to cross train with other professions/sectors

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2. Partnership

Health generators

Health care 20%	Genetics 20%	Social, environmental, behavioral factors 60%
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Adapted from James Rubin, TAV Health; CMS.gov; www.healthypeople2020.gov; Leavitt and DeSalvo, Modern Healthcare, 2017

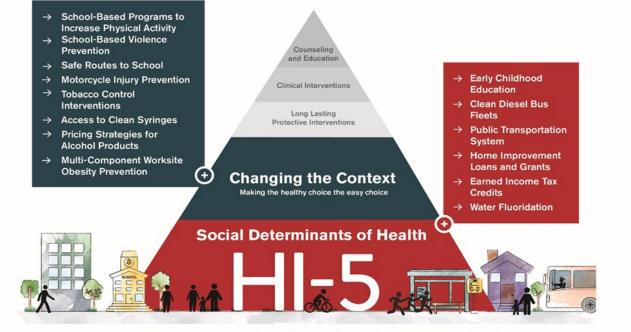
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2. Partnership

Six High-Burden Health Conditions



2. Partnership



HEALTH IMPACT IN 5 YEARS

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Systems Change Recognition



Paid Sick Leave

Paid sick leave laws reduce the spread of contagious illnesses, increase employment and income stability, and save cities money in health care costs.



High-quality, Universal Pre-Kindergarten

Children who attend highquality pre-k are more likely to succeed in school, go on to stable jobs and earn more as adults—all of which are linked to better health and stronger communities.



Affordable Housing/Inclusionary Zoning

As cities grow, it's important that residents of all income levels have access to affordable housing that sets them up for good health.

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www.cityhealth.org

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3. Infrastructure

- Accreditation progressing 68% of US population
- PHAB thinking through how to better recognize 21st century (PH3.0) efforts
- Develop appropriate recognition and reward system
- Shared services and reductions in overlapping jurisdictions
- Form of accountability and pathway to transformation
- Evidence building that is linked to better outcomes

4. Data, Analytics & Metrics

- Requires comfort with atypical data sources
 - Current data still "stale" and traditional
 - Some places experimenting with non-traditional sources
 - Working to include a broad view of health including the social determinants
- Comfort with new or non-traditional methods
 - Small area estimation
 - Synthetic populations and controls
 - Twitter

4. NYC Macroscope

- Partnership between governmental and academic PH
- Leverage data from primary care EHR on nearly 700,000 New Yorkers
- Correlate prevalence with NYC HANES and validated with chart review
- Strong correlation with key indicators





Academic Health Department

Advisory Council

Annual Reports

Contact

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About Us

Academic Health Department

The Lawrence-Douglas County Health Department and the University of Kansas Work Group on Community Health and Development created a partnership called the Academic Health Department, the first in Kansas and one of only a few in the country.

Advisory Council

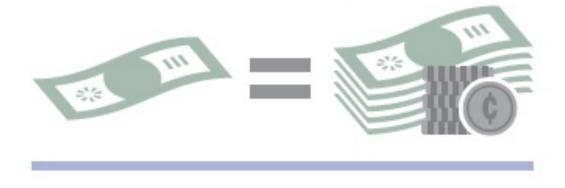
The Advisory Council was formed in July 2011 to provide input and feedback about the Lawrence-Douglas County Health Department's programs, services and communication efforts.

The current model of financing isn't working.





The return for every \$1 invested in health improvement programs is \$5.60



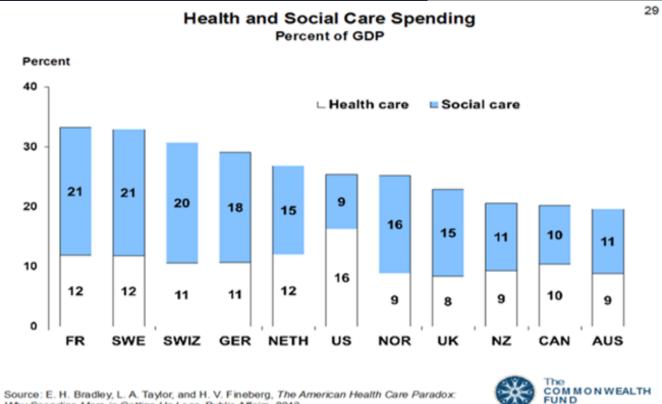


5. Funding

- Funding foundational capabilities
 - "The gap"?
- Sustainability and flexibility should be met with accountability
- Services Funding needs innovation

				nent and/or Comm is "above the line"			
Foundational Areas	Communicable Disease Control	Chronic Disease and Injury Prevention	Environmental Public Health	Maternal, Child, and Family Health	Access to and Linkage with Clinical Care		
FOUNDATIONAL PUBLIC HEALTH SERVICES	 Assessment (including Surveillance; Epidemiology; and Laboratory Capacity) All Hazards Preparedness/Response Policy Development/Support Communications Community Partnership Development 						
Foundational Capabilities	Organizational Competencies (including Leadership/Governance; Health Equity; Accountability/Performance Management: Quality Improvement: Information Technology;						

5. Funding



Why Spending More is Getting Us Less, Public Affairs, 2013.

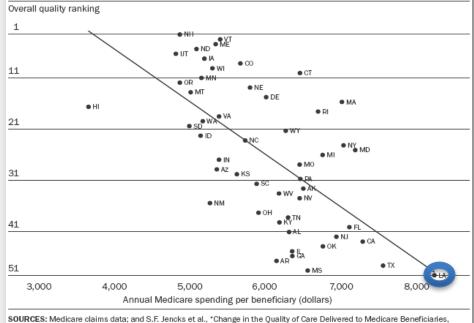
MY PH 3.0 EXPERIENCE

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"System" Redesign

EXHIBIT 1

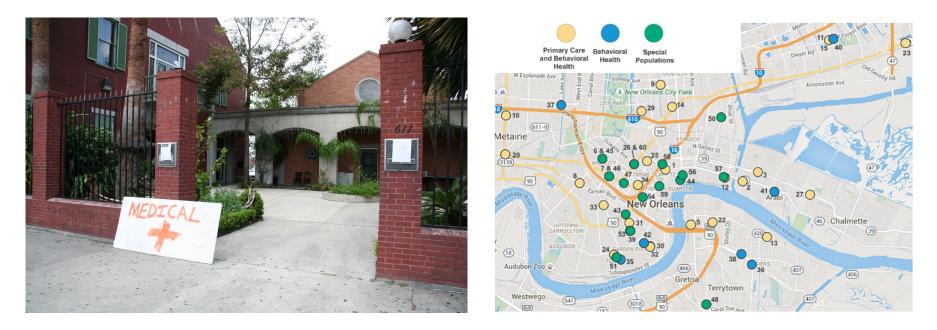
Relationship Between Quality And Medicare Spending, As Expressed By Overall Quality Ranking, 2000–2001



SOURCES: Medicare claims data; and S.F. Jencks et al., "Change in the Quality of Care Delivered to Medicare Beneficiaries 1998–1999 to 2000–2001," Journal of the American Medical Association 289, no. 3 (2003): 305–312. NOTE: For quality ranking, smaller values equal higher quality.

Baicker and Chandra, Health Affairs, 2004; DeSalvo, et al, J Urban Health, 2007.

Move Upstream

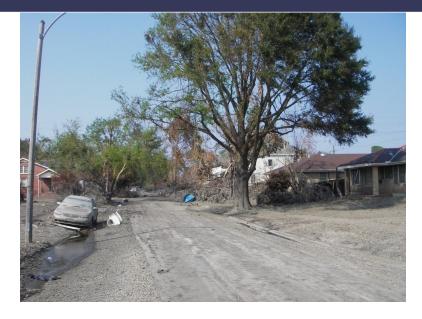


www.504healthnet.org; DeSalvo, Johns Hopkins Advanced Studies in Medicine. 2006; DeSalvo. Ann Int Med. 2016.

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Move Further Upstream





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200,000 Households flooded. Surrounding social infrastructure of churches...schools...friends...family...libraries.

The Hurricane Katrina Writing Group, JGIM, 2007; Grumbach, JAMA, 2002; Gelberg, Am J Public Health, 1997; Kim, et al, HSR 2006

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Behavioral Health

LEARN MORE ABOUT THE NEW ORLEANS SMOKE-FREE ORDINANCE

Health Department

Community Health Improvement Data and Publications Emergency Preparedness Women, Infants, and Children (WIC) Bicycle and Pedestrian Safety

Fit NOLA

- Health Care for the Homeless
- Health Care Access
- Lead

Smoke-Free Ordinance

Complaints

Hotel Smoke Free Guidance

Smoke-Free Ordinance

New Orleans has joined almost 700 cities nationwide in going smoke-free. In January 2015, the New Orleans City Council unanimously passed and Mayor Landrieu signed into law a new, comprehensive smoke-free ordinance. The City's new ordinance went into effect on April 22, 2015. In addition to smoking restrictions that already exist under state law, there will be new restrictions on smoking and vaping (use of electronic smoking devices) in many locations across the City.

Why This Ordinance is Important

This ordinance protects the public's health by reducing exposure to

secondhand smoke and encouraging smokers to quit. Tobacco use is the leading preventable cause of death in the United States. It causes cancer, heard disease, stroke, lung diseases (such as emphysema), and diabetes. More than 20 million people in the United States have died from smoking-related diseases since 1964, including 2.5 million nonsmokers as a result of exposure to secondhand smoke.

Report a Violation

Ahealt

Please click here to report a violation of the Smoke-Free Ordinance.

Contact Us

For more information, contact the New Orleans Health Department.

Phone: 311 or toll-free: (877) 286-6431 E-mail: <u>smokefree@nola.gov</u>

Resources to Quit Smoking

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- Louisiana Tobacco Quitline
- <u>Smoking Cessation Trust</u>
- Ochsner Smoking Cessation

Create a Culture of Health via PH3

www.healthypeople.gov/ph3

Closing thoughts

- Epidemiology has shifted death from <u>social causes</u>
- Require systematically & strategically addressing SDOH
- Public health the natural leader
- Requires significant transformation, funding & partners
- Tremendous opportunity for medicine and public health to realign
- PH3.0 can be our blueprint for the future
- We should not cede this responsibility but *embrace* it

DeSalvo & Benjamin. Public Health 3.0: A Blueprint For The Future Of Public Health. Health Affairs blog. 2016,

Thank you!

PUBLIC O HEALTH

What we do together as a society to ensure the conditions in which everyone can be healthy.



