

Informing Policy. Improving Health.

THE STATE OF HEALTH IN KANSAS: WHERE WE LIVE MATTERS

June 28, 2019



View from Kansas Health Institute Offices, Topeka, Kansas



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HELLO, I AM GIANFRANCO PEZZINO, M.D., M.P.H.



I am a Senior Fellow at the Kansas Health Institute. You can connect with me at: gpezzino@khi.org

● 212 SW 8th Avenue | Suite 300 Topeka, Kansas | 66603-3936

785.233.5443

khi.org

TODAY'S PROGRAM MARATHON

- Measuring health and population health
- How are we doing?
- Examples of health inequities
- (Re)emerging issues relevant to you
- Population Health, Population Health Management and Community Health





















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PETER G. PETERSON FOUNDATION
United States per capita healthcare spending is more than twice the average of other developed countries



SOURCE: Organization for Economic Cooperation and Development, OECD Health Statistics 2017, November 2017. Compiled by PGPF. NOTE: Data are for 2015 or latest available. Chart uses purchasing power parities to convert data into U.S. dollars.

© 2018 Peter G. Peterson Foundation

PGPF.ORG

Life expectancy at Birth and Health Spending per Capita, 2015 (or nearest year)



Source: OECD Health Statistics, 2017.

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Particularly perplexing IF HEALTH = HEALTHCARE

What Determines Health?



Source: Bradley & Taylor, The American Healthcare Paradox



INCOME & HEALTH OUTCOMES: LIFE EXPECTANCY

Life Expectancy For Men Born in 1950 By Level of Income



Adapted from Brookings Institution

EDUCATION & HEALTH OUTCOMES: LIFE EXPECTANCY



Kansas Health Institute Source: Egerter S, Braveman P, Sadegh-Nobari T, Grossman-Kahn R, and Dekker M. Education and Health. Robert Wood Johnson Foundation, May 2011

Poor physical environment

Stress



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HEALTH SERVICES AND SOCIAL SERVICES EXPENDITURE BY COUNTRY



EXAMPLES OF SOCIAL SERVICES EXPENDITURES

- Support for older adults
- Survival, disability and sickness cash benefits
- Family support (incl. childcare, child welfare)
- Employment and unemployment services
- Housing



HOW DO WE MEASURE "HEALTH" IN A COMMUNITY?



Rank

County Health Rankings & Roadmaps



Kansas



2019 County Health Rankings Report



A collaboration between the Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute.







County Health Rankings

34 public domain measures of important dimensions of health

RWJF and University of Wisconsin Madison: www.countyhealthrankings.org/aboutproject/background

Health Outcomes – 2019

CN		RA	DC	NT	PL	SM	WC	RP	WS	MS	S NM	1 ^{BI}	R DI	en e
SH		тн	SD	GH	RO	ОВ	мс	CD	CY	RL	PT	AC	JF	LV
WA	LC	3	GO	TR	EL	RS	LC	OT	DK	GE	WB	SN	DG	VWY OL
GL	wн	sc	LE	NS	RH	BT	EW	MP	MN	MR	LY	OS	FR	MI
НМ	KE	FI		HG	PN ED	SF	RN	HV		CS	GW	CF	AN	
ST	GT	нѕ	GY	FO	ĸw	PR	КМ	SG		BU	EK	WL	NO	BB CR
мт	SV	sw	ME	СА	СМ	BA	НР	SU		CL	CQ	MG	LB	СК
Rank 1-26 Rank 27-51 Rank 52-76 Rank 77-102 Not Ranked														

Health Factors – 2019



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Rank 1-26 📃 Rank 27-51 📃 Rank 52-76 📃 Rank 77-102 📃 Not Ranked



The Fallacy of Averages: Disparities and Inequities in Health



Chetty, et.al., JAMA published online April 10, 2016

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Inequality and mental health

Adults with "serious psychological distress," by income relative to federal poverty level



Sources: CDC/NCHS, National Health Interview Survey, 2009-13 THE HUFFINGTON POST

CHR DISPARITIES IN KANSAS, 2019

Measure	Kansas	Worst County Value	Best County Value
Adult Smoking	17%	23% Wyandotte	12% Johnson
STIs (Chlamydia)	417.6	804.3 Wyandotte	78.2 Nemaha
Teen Birth Rate	28	68 Geary	9 Douglas
Children with Single Parent	29%	47% Morton	5% Scott



Cardiovascular disease deaths per 100,000 population



Source: Institute for Health Metrics and Evaluation, University of Washington In the past couple of decades, better prevention and treatment have produced gains against heart disease, the nation's No. 1 killer. The biggest improvements occurred in large cities, thanks to lower smoking rates, widespread cholesterol-lowering drugs and better emergency care, among other factors.

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HEALTH ISSUES IN RURAL AREAS

- Older
- Poorer
- More likely to be overweight or obese,
- Sicker
- Higher injury rates
- Higher smoking rates
- Higher rates of uninsurance
- Higher rates of suicide
- Higher rates of opioid misuse

HEALTH ASSETS IN RURAL AREAS

- Individual assets:
 - Civic and community engagement, resilience, entrepreneurship, connections
- Organizational assets ("local anchors")
 - Faith- and community-based, schools, local businesses
- Community assets (externally controlled)
 - Branched institutions, hospitals, natural resources
- Cultural assets
 - Culture, history, core values, families, pride, independence, deep connections
(Re)Emerging Issues that May Affect your **Strategic Planning**

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(RE) EMERGING ISSUES

- Tobacco use
- Demographic changes
- Mental and behavioral health
- Income and wealth inequalities
- Public health modernization

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TOBACCO USE

(Re)Emerging Issues

SMOKING PREVALENCE BY INCOME



TOBACCO USE IS NOT AN EQUAL OPPORTUNITY KILLER. Smoking disproportionately affects those most in need such as the poor, the homeless, racial minorities, lgbtq persons and those suffering from mental illness and substance use disorders.



THERE ARE UP TO 10X MORE TOBACCO ADS IN BLACK NEIGHBORHOODS THAN IN OTHER NEIGHBORHOODS.

SEIDENBURG AB, CAUGHEY RW, REES VW, CONOLLY GH. STOREFRONT CIGARETTE ADVERTISING DIFFERS BY COMMUNITY DEMOGRAPHIC PROFILE. AM J HEALTH PROMOT. 2010; 24(6); E26–E31. (2–5X INCREASE)

MORELAND-RUSSELL S. HARRIS J., SNIDER D. WALSH H., CYR J. BARNOYA J. DISPARITIES AND Menthol Marketing : Additional Evidence in Support of Point of Sale Policies. Int J. Environ. Res Public Health. 2013: 10:4571–4583. (10X Increase)

J. CANTRELL ET AL. MARKETING LITTLE CIGARS AND CIGARILLOS: ADVERTISING, PRICE, AND Associations with Neighborhood Demographics. American Journal of Public Health: October 2013, Vol. 103, No. 10, PP. 1902–1909.

TOBACCO USE AND MENTAL ILLNESS

Current Use* of Specific Tobacco Products Among Adults with Mental Illness Compared with Adults with No Mental Illness^{†4}



Source: National Survey on Drug Use and Health, 2016



DEMOGRAPHIC CHANGES

(Re)Emerging Issues

A Changing Kansas:

Implications for Health and Communities



KANSAS HEALTH



Prepared by: D. Charles Hunt, M.P.H. Lawrence John Panas, Ph.D. Kansas Health Institute

June 2018

Kansas Health Institute

https://kansashealth.org/resources/a-changing-kansas-implications-for-health-and-communities/

DEMOGRAPHIC CHANGES

1. 82 counties in KS lost population

Population Change (%) for All Kansans by County, Between 2000 and 2016



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Source: KHI analysis of data from the National Center for Health Statistics' (NCHS) April 1, 2000 bridged-race population estimates and the NCHS's June 2017 Vintage July 1, 2016 bridged-race population estimates.

DEMOGRAPHIC CHANGES

- 1. 82 counties in KS lost population
- 2. 93 counties in KS lost <u>NH white</u> population

Population Change (%) for Non-Hispanic White Kansans by County, Between 2000 and 2016



Population Change (Percent)

-37.2% to -20.0% 🔲 -19.9% to -10.0% 🧾 -9.9% to -0.1% 🫄 0.0% to 9.9% 🌉 10.0% to 23.2%

Source: KHI analysis of data from the National Center for Health Statistics' (NCHS) April 1, 2000 bridged-race population estimates and the NCHS's June 2017 Vintage July 1, 2016 bridged-race population estimates.

DEMOGRAPHIC CHANGES

- 1. 82 counties in KS lost population
- 2. 93 counties in KS lost <u>NH white</u> population
- 3. All counties in KS gained "*minority*" population

Population Change (%) for All Minorities by County, Between 2000 and 2016



Population Change (Percent)

4.2% to 24.9% 25.0% to 49.9% 50.0% to 74.9% 75.0% to 99.9% 100.0% to 412.9%

Source: KHI analysis of data from the National Center for Health Statistics' (NCHS) April 1, 2000 bridged-race population estimates and the NCHS's June 2017 Vintage July 1, 2016 bridged-race population estimates.

DEMOGRAPHIC CHANGES

- 1. 82 counties in KS lost population
- 2. 93 counties in KS lost <u>NH white</u> population
- 3. All counties in KS gained "*minority*" population
- 4. Population growth will be 4x greater for age >65

Population Projections by Age Group in Kansas, 2016-2066



Age 14 and under Age 15 to 24 Age 25 to 64 Age 65 and over

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Source: Kansas Health Foundation and Kansas Health Institute (2018).

REFLECTION - How do these changes affect or will affect your mission, strategies, operations?

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THE MENTAL AND BEHAVIORAL HEALTH CRISIS

(Re)Emerging Issues

Shawnee County CHNA/CHIP Prioritization Health Issues Snapshot

+-	
Health Issue	Data & Information about Each Issue
a. Improve health literacy	 Ranked #2 during town hall meetings
b. Care coordination	 Ranked in top 8 issues during town hall meetings
c. State ID (easier to get)	 6.4% of respondents at the town hall meeting cited this issue.
	 ID is needed to access most medical services.
d. Preventive services	 Primary care <u>physicians</u> rate: 70/100,000 vs 76/100,000 state wide.
	 Access to care score is Good (US News & World Report).
e. Access to mental health	Ranked #1 during town hall meetings
	 Also ranked among top items that survey respondents need information about and struggle with.
	 Depression among the Medicare population is 23.1% compared with 17.8% for KS as a whole.

Morning Mix

Americans are the unhappiest they've ever been, U.N. report finds. An 'epidemic of addictions' could be to blame.



Number of children going to ER with suicidal thoughts, attempts doubles, study finds

By Dr. Edith Bracho-Sanchez, CNN

() Updated 11:37 AM ET, Mon April 8, 2019



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More from CNN



Buttigieg wants to 'change the channel' from Washington's...

D re C

Disaster relief package remains stalled in Congress

by Outbrain | >



The Washington Post

Homeland Security Secretary Kirstien

Ehe Washinaton Dost

Obama says he worries about

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B Prevalence of not receiving care in children with mental health disorders



B, State-level prevalence presented as quartiles of children with a mental health disorder not receiving needed treatment or counseling from a mental health professional (weighted estimate, 7.7 million).

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Source: JAMA Pediatrics April 2019 Volume 173, Number 4

KEY FINDINGS FROM KHA-KHI STUDY (2017)

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ADVANCI NG BEHAVIORAL HEALTH ITIES IDENTIFIED IN COMMUNITY HEALTH ASSESS AND COMMUNITY HEALTH IMPROVEMENT PLANS

> KHI/17-32 **NOVEMBER 2017**

- 78 CHAs/CHNAs and CHIPs reviewed mentioned behavioral health-related issues
 - However, about half of the reports did not prioritize behavioral health for further action.
- Low community capacity (e.g., skills, knowledge, resources) number one reason for not prioritizing these concerns for further action.

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REFLECTION - How does the behavioral health crisis affect your mission, strategies, operations?

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(Re)Emerging Issues **INCOME AND WEALTH INEQUALITIES**





THE INNER LEVEL

SANITY and IMPROVE EVERYONE'S WELL-BEING



RICHARD WILKINSON

Life expectancy is longer in more equal rich countries



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Health and social problems are worse in more unequal US states

Source: Wilkinson & Pickett, The Spirit Level (2009)

THE MAIN ARGUMENT

<u>All</u> people are healthier if they live in a more equal society

66

No man is an island entire of itself; every man is a piece of the continent, a part of the main

> John Donne, MEDITATION XVII, 1624



The Washington Post Democracy Dies in Darkness

Morning Mix

Disney's CEO made 1,424 times as much as his employees. An heir to the Disney fortune thinks that's 'insane.'



Abigail Disney is turning heads for speaking out about the pay taken home by Bob Iger, the CEO of the company that bears her name. (David Edwards/Jordan Strauss/Invision/AP)

Most R 1 Coa afte in th 2 A st 'prc Fac apo 3 Hig bar eve in a Afte 4 Bro

Distribution of Family Wealth, 1963–2016



Source: Urban Institute calculations from Survey of Financial Characteristics of Consumers 1962 (December 31), Survey of Changes in Family Finances 1963, and Survey of Consumer Finances 1983–2016.

Note: 2016 dollars.

URBAN INSTITUTE

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Health Equity or.....

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Health Equity?

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REFLECTIONHow does the growing wealth inequality affect your mission, strategies, operations?
PUBLIC HEALTH MODERNIZATION

(Re)Emerging Issues

PUBLIC HEALTH, BACK THEN ...

- Health problems, mostly acute, infectious
- Confined to one locality, slow spread
- Population traveled less between cities





"ONLY 186 DEATHS FROM TB"

GENERAL MORTALITY

INFECTIOUS AND COMMUNICABLE DISEASES

Tuberculosis

Only 186 deaths with a rate of 9.8 per 100,000 population makes 1950 another record low mortality year for that disease. This 1950 tuberculosis death rate represents a 14.3% reduction from the rate of the previous year. The significance of the remarkable Kansas tuberculosis record can best be seen by referring to Chart IV, which depicts the tuberculosis death rate trends in Kansas for the last thirty-five years. From this graph it is apparent that the 1950 death rate is onesixth of that for 1918; one-fourth of the 1928 rate, and one-third of the 1936 rate. Progress in the last decade has continued as shown by the 50% reduction in tuberculosis mortality within the last eight years.



Chart IV

KANSAS VITAL STATISTICS

provisional summary for 1950 and summary for DECEMBER

Kansas Health Institute Courtesy of Greg Crawford, KDHE

THE KANSAS PUBLIC HEALTH SYSTEM

Cheyenne	Ra	wlins	Decatur	Norton	Phillips	Smith	jewell	Republic	Washingt	on Mars	hall Nem	aha Bro	wn Donip	han	•
Sherman	T	iomas	Sheridan	Graham	Rooks	Rooks Osborne		Cloud	Clay	Riley Po	Pottawatomie		Jackson Leavenworth		
Wallace	Log	an	Gove	Trego	Ellis	Russell	Lincoln	Ottawa	Dickinson	Geary	Wabaunsee	Shawnee	Douglas	Wyandotte	•
							Ellsworth	Saline	Dickinson	Morris	` <u> </u>	Osage	Franklin	Miami	•
Greeley	Wichita	Scott	Lane	Ness	Rush	Barton	Rice	McPherson	Marion	Chase	Lyon			Miami	
Hamilton	Kearny	Finney	,	Hodgeman	Pawnee	Stafford		Harv	/ey			Coffey	Anderson	Linn	
					Edwards		Reno		· 	Butler	Greenwood	Woodson	Allen	Bourbon	
Stanton	Grant	Haskell	Gray	Ford	Kiowa	Pratt	Pratt Kingman		ick		Elk	Wilson	Neosho	Crawford	
Morton	Stevens	Seward	y Meade	Clark	Comanche	Barber	Harpe	Sumne		Cowley	Chautauqua	Montgomer	Labette Y	Cherokee	

- Decentralized system (local control)
- 105 counties
 - 100 local health departments
 - 2 multicounty departments
- Most governed by Board of County Commissioners serving as Local Boards of Health

PUBLIC HEALTH AS CHIEF HEALTH STRATEGIST

- Less direct care—more policy
- Convening
- Diverse sectors
- Emerging needs & populations
- Upstream focus
- Real-time and new data



How can a health system like yours leverage the role of public health to achieve your mission?



GETTING ENGAGED IN POPULATION HEALTH

POPULATION HEALTH, COMMUNITY HEALTH AND POPULATION HEALTH MANAGEMENT



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Source: American Hospital Association, 2018 Population Health Survey

Population Health Management

Improve clinical health outcomes Focuses on the defined group of individuals (patients) Includes:

- Risk
 - stratification
- Care coordination
- Disease care management

Kansas Health Institute

Source: American Hospital Association, 2018 Population Health Survey.



Kansas Health Institute Source: American Hospital Association, 2018 Population Health Survey.



POPULATION HEALTH MANAGEMENT VS COMMUNITY HEALTH: WHAT APPROACH DO YOU WANT TO TAKE AS A HEALTH SYSTEM?



JUST BECAUSE YOU WORK ON POPULATION HEALTH MANAGEMENT IT DOES NOT MEAN YOU ARE ADDRESSING THE SOCIAL DETERMINANTS OF HEALTH IN THE COMMUNITY



GOOD NEWS!

There are interventions to address factors that affect health





Quality of Care (35)

Policies & Programs

Policies and programs that can improve health

Policies & Programs	filtered by "Health Care"						
Using What Works for Health	118 results						
Choosing Your Strategy							
Our Ratings	Activity programs for older adults						
Our Methods	Offer group educational, social, or physical activities that promote social interactions, regular attendance, and community involvement among older adults						
Our Sources	Evidence Rating: Scientifically Supported						
Policies	Health Factor(s): Diet and Exercise, Family and Social Support						
Health Factors	Advocacy for victims of intimate partner violence						
Health Behaviors Alcohol and Drug Use (6)	Work to empower victims of intimate partner violence, help them with safety plans, and link them with community services (e.g., legal, housing, financial advice, emergency shelter, etc.)						
Diet and Exercise (16) Sexual Activity (12)	Evidence Rating: Insufficient Evidence						
Tobacco Use (3)	Health Factor(s): Community Safety						
Clinical Care Access to Care (30)	Alcohol brief interventions						

Provide information and increase motivation to change or prevent problematic alcohol consumption in a short session; also called alcohol

Behavioral health primary care integration

Evidence Rating

Scientifically Supported

Health Factors Quality of Care

Decision Makers Health Care Integrating behavioral health into primary care practice brings mental health and/or substance abuse screenings and treatments into a primary care setting. These efforts can include coordination between primary care providers, case managers or behavioral health consultants, and mental health specialists (e.g., psychiatrists), and often require training and redefinition or realignment of staff roles (SAMHSA-HRSA Integrate, CG-Mental health). Telehealth tools such as electronic health records (EHRs), text messaging, mobile applications (apps), and online therapies may be used to support integration (Raney 2017). Mental health conditions and substance abuse issues often occur with other chronic medical conditions; patients with severe conditions are referred to specialty care (SAMHSA-HRSA Integrate).

Expected Beneficial Outcomes (Rated)

- · Improved mental health
- Increased adherence to treatment
- · Improved quality of life
- Increased patient engagement
- Increased patient satisfaction

Other Potential Beneficial Outcomes

• Reduced drug and alcohol use

Evidence of Effectiveness

There is strong evidence that integrating behavioral health into primary care practice improves mental health (Asarnow 2015, Cully 2017, ICER-Tice 2015, Cochrane-Bower 2011), especially depression symptoms (ICER-Tice 2015, CG-Mental

Case-managed care for community-dwelling frail elders

Evidence Rating
Scientifically Supported

Health Factors Quality of Care

Decision Makers Health Care Government Community Members In a case management model, health professionals, often nurses, manage multiple aspects of patients' long-term care (LTC), including status assessment, monitoring, advocacy, care planning, and linkage to services, as well as transmission of information to and between care providers. Case managers often care for frail elderly patients who live independently. Frail elderly patients often have complex health needs that require care from multiple providers, and are at increased risk of adverse outcomes from conditions that could be prevented with early detection and treatment (Eklund 2009).

Expected Beneficial Outcomes (Rated)

- Reduced nursing home use
- Reduced hospital utilization
- Improved day-to-day functioning

Other Potential Beneficial Outcomes

- · Improved health outcomes
- Increased patient satisfaction
- Increased caregiver satisfaction
- Improved mental health
- · Improved cognitive function

System Collaboration Through Case Conferences for At-Risk and Vulnerable Populations

care providers work together to identify and address patients' complex social and medical needs. Public health nurses from the local health department joined case conference teams at federally gualified health center primary care sites to foster cross-sector collaboration, integration, and mutual learning. Public health nurse participation resulted in frequent referrals to local health department services, greater awareness of public health capabilities, and potential policy interventions to address social determinants of health. (Am J Public Health. 2018; 108:649-651. doi:10.2105/AJPH. 2018.304345)

In case conferences, health Joshua R. Vest, PhD, MPH, Virginia Caine, MD, Lisa E. Harris, MD, Dennis P. Watson, PhD, Nir Menachemi, PhD, MPH, Paul Halverson, DrPH, FACHE

To foster cross-sector collaband geriatric care representatives. oration, public health nurses joined existing primary care case conference teams. Case conferences are collaborative team meetings during which providers trained in medicine, behavioral health, and social services identify and address patients' social, financial, legal, and medical needs.1 Case conferences develop shared understanding. create consensus on management plans, address social determinants of health, and facilitate referrals and care coordination.1,2 Case conferences have been widely applied internationally, with promising effectiveness.3

INTERVENTION

Eskenazi Health initiated case conferencing in its primary care practices to better address the needs of patients with challenging issues. Part of the Marion County Health & Hospital Corporation, Eskenazi Health is the public hospital system serving the unrepresented and indigent populations of Indianapolis and has a 315-bed hospital. Also, Eskenazi Health is a federally qualified health center with 10 sites and nearly 1 million outpatient visits annually. Composition varies by site, but, in addition to a physician and nurses, teams may include physician assistants, medical assistants, clinical social workers, dietitians,

Activities include a review of the patient, identification of relevant patient goals, information sharing, discussion, and action items. If appropriate, the team may attempt to speak with the patient or a caregiver by phone during the conference. Any member of the health care team can nominate a patient for discussion at a case conference, which typically occurs at a designated weekly time. With such diverse represen-

tation of professionals engaged in focused problem-solving activities, case conferences present a unique opportunity to foster cross-sector collaboration, integration, and learning. We introduced public health nurses from the Marion County Public Health Department into case conference teams at three clinic sites. Also part of the Marion County Health & Hospital Corporation, the Marion County Public Health Department is the largest local health department in the state. The public health nurses were fully participating members of the case conferences; they reviewed

patient history, shared knowledge, and formulated action items

PLACE AND TIME

Three clinic sites initiated case conferencing in 2016. Public health nurse participation began February 2017.

PERSON

Patients (adult and pediatric) included in case conferences were high risk and had unmet psychosocial needs and were drawn from predominately urban and lower-income communities.

PURPOSE

We introduced local public health nurses into the case conference team to explore the activity as a point of integration and cross-sector collaboration between health care providers and public health professionals. Specifically, we sought to identify

ABOUT THE AUTHORS

Joshua R. Vest, Dennis P. Watson, Nir Menachemi, and Paul Halverson are with the Indiana University Richard M. Fairbanks School of Public Health, Indianapolis, Viroinia Caine is with the Marion County Public Health Department, Indianapolis. Lisa E. Harris is with Eskenazi Health, Indianavolis,

Correspondence should be sent to Joshua R. Vest, PhD, MPH, 1050 Wishard Blvd, Indianapolis, IN 46202 (e-mail: joshwest@iu.edu). Reprints can be ordered at http://www.ajph. on by clicking the "Reprints" link.

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Search.

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Community Health

Wellness Resources Community Health Fairs and Screenings Faith-Based

Community Health Services

Transforming Times Worksite Health Promotions and Screenings

Free and Low-Cost Care

Women-Inspired Neighborhood (WIN) Network: Detroit

The Detroit Regional Infant Mortality Reduction Task Force was formed in 2008 after the CEOs of the four major health systems serving Detroit (Detroit Medical Center, Henry Ford Health System, Oakwood Healthcare, and St. John Providence Health System), alarmed by persistently high infant mortality rates in the region and gaping health disparities, committed their organizations to find lasting, collaborative solutions.





CAN YOU MENTION THREE INTERVENTIONS THAT CAN DECREASE INFANT MORTALITY?

The Effect of an Increased Minimum Wage on Infant Mortality and Birth Weight

Kelli A. Komro, PhD, MPH, Melvin D. Livingston, PhD, Sara Markowitz, PhD, and Alexander C. Wagenaar, PhD

Objectives. To investigate the effects of state minimum wage laws on low birth weight and infant mortality in the United States.

Methods. We estimated the effects of state-level minimum wage laws using a differencein-differences approach on rates of low birth weight (< 2500 g) and postneonatal mortality (28–364 days) by state and month from 1980 through 2011. All models included state and year fixed effects as well as state-specific covariates.

Results. Across all models, a dollar increase in the minimum wage above the federal level was associated with a 1% to 2% decrease in low birth weight births and a 4% decrease in postneonatal mortality.

Conclusions. If all states in 2014 had increased their minimum wages by 1 dollar, there would likely have been 2790 fewer low birth weight births and 518 fewer postneonatal deaths for the year. (*Am J Public Health.* 2016;106:1514–1516. doi: 10.2105/AJPH.2016.303268)

wages are associated with reduced rates of low birth weight infants and infant mortality.¹⁰

METHODS

The main independent variable is the state-level minimum wage for each of the 50 states by month from 1980 through 2011 on the basis of the effective date (not passage date) of legislative bills passed by legislatures and signed into law by state governors and then codified into statutory records. In cases in which 1 law includes

VACCINES REDUCED MANY INFECTIOUS DISEASES



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CDC Home



EARCH

A-Z Index A B C D E E G H I J K L M N O P Q R S I U V W X Y Z

Morbidity and Mortality Weekly Report (MMWR)

MMWR



Persons using assistive technology might not be able to fully access information in this file. For assistance, please send <u>mmwrq@cdc.gov</u>. Type 508 Accommodation and the title of the report in the subject line of e-mail.

Ten Great Public Health Achievements --- United States, 2001--2010

Weekly May 20, 2011 / 60(19);619-623

During the 20th century, life expectancy at birth among U.S. residents increased by 62%, from 47.3 years in 1900 to 76.8 in 2000, and improvements in population health status were observed at every stage of life (1). In 1999, MMWR published a series of reports highligh achievements that contributed to those improvements. This report assesses advances in public health during the first 10 years of the 21 health scientists at CDC were asked to nominate noteworthy public health achievements that occurred in the United States during 2001 nominations, 10 achievements, not ranked in any order, have been summarized in this report.

Vaccine-Preventable Diseases

The past decade has seen substantial declines in cases, hospitalizations, deaths, and health-care costs associated with vaccine-preventa vaccines (i.e., rotavirus, quadrivalent meningococcal conjugate, herpes zoster, pneumococcal conjugate, and human papillomavirus vace tetanus, diphtheria, and acellular pertussis vaccine for adults and adolescents) were introduced, bringing to 17 the number of diseases immunization policy. A recent economic analysis indicated that vaccination of each U.S. birth cohort with the current childhood immuniz approximately 42,000 deaths and 20 million cases of disease, with net savings of nearly \$14 billion in direct costs and \$69 billion in totz

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Policy is the vaccine that can create resilience against chronic disease and social determinants of health

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"Medicine is a social science, and politics is nothing more than medicine on a large scale." — Rudolf Virchow, 1821-1902



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THANK YOU Any questions?



You can connect with me at: <a>gpezzino@khi.org

● 212 SW 8th Avenue | Suite 300 Topeka, Kansas | 66603-3936

785.233.5443

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