2ND ANNUAL HEALTH EQUITY SUMMIT

Dr. Jerome Adams, Executive Director, Health Equity Initiatives



Opening Remarks



PROVOST PATRICK WOLFE

Opening Remarks





DR. KAREN PLAUT, EXECUTIVE VICE PRESIDENT FOR RESEARCH

Opening Remarks





Health Equity

DR. JEROME ADAMS, EXECUTIVE DIRECTOR OF HEALTH EQUITY INITIATIVES



HEI Vision and Progress



HEIAT PURDUE VISION, PROGRESS AND FUTURE DIRECTIONS

Jerome Adams MD, MPH, FASA

Distinguished Professor and Executive Director of Health Equity Initiatives

THANK YOU TO OUR SUMMIT CONTRIBUTORS!!!

- Office of the Provost
- Office of Diversity, Inclusion and Belonging
- College of Health and Human Sciences
- College of Veterinary Sciences
- RCHE (Regenstrief Center for Healthcare Engineering)



OUR STRATEGIC ADVISORY TEAM

- Provosts Akridge and Wolfe
- Dr. John Gates
- Dr. Steve Abel
- Dean Barker
- Dean/ EVP Plaut
- Dean Reed
- Dean Underwood



THANKS TO OUR FACULTY CHAMPIONS

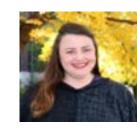
- Food for Health:
- Haley Oliver
- Infectious Diseases:
- Steve Steinhubl and Randolph Hubach
- Mental Health and Substance Misuse:
- Nicole Adams and Hugh Lee













THANKS TO <u>YOU</u>!!!

- Goals for today:
 - Celebration
 - Awareness
 - Education
 - Collaboration
 - Feedback and future directions

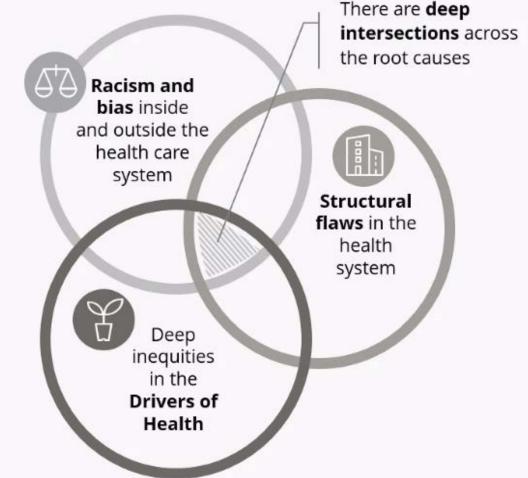




Of all the forms of inequality, injustice in health care is the most shocking and inhumane.

Health inequities, driven by root causes, are estimated to cost the United States \$320 billion a year!¹





Cost of Poor Health in Indiana

- Obesity: accounts for more than \$3.5 billion in medical costs in Indiana yearly.
- Chronic disease
 - \$53.3 Billion indirect cost including lost productivity of major chronic diseases
 - \$22.4 Billion direct cost of major chronic diseases
 - o \$75.5 Billion total direct and indirect cost of major chronic disease
- Smoking
 - o Nearly \$3 billion in annual health care costs, including \$590 million in Medicaid costs
 - o Indiana taxpayers pay over \$900 per household in smoking-caused expenditures
 - Smoking during pregnancy resulted in an estimated \$3.37 million in healthcare costs in 2019
- Cervical cancer: More than \$54 million in estimated direct healthcare costs



U.S. News and World Report 2021 Best States Ranking, Indiana ranks 32nd

Achievements

- Affordability
- Opportunity
- Pre-K through 12th grade
- Growth of the economy
- Public safety

#6 #7 #9 #19 #25

Opportunities

- Health care access
 #
- Health care quality
- Air quality
- Public health
- Pollution

#23 #27 #38 **#40** #48



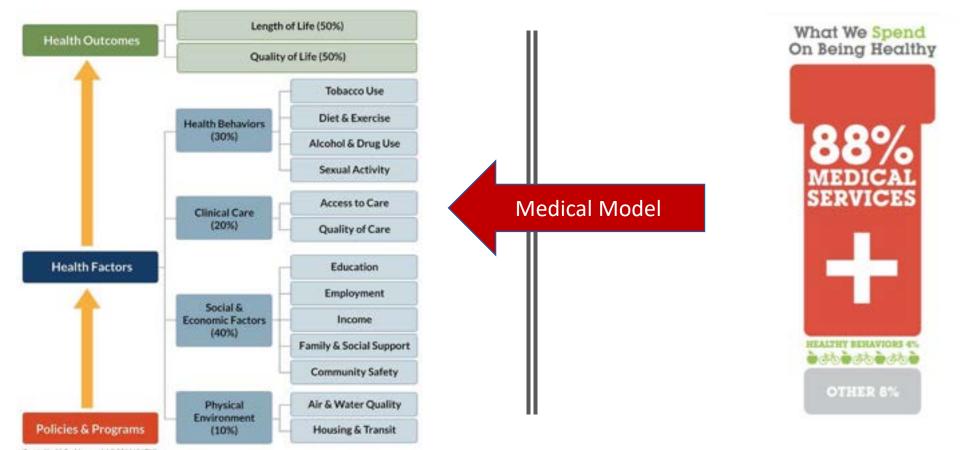


Equality is not equity.

EQUALITY



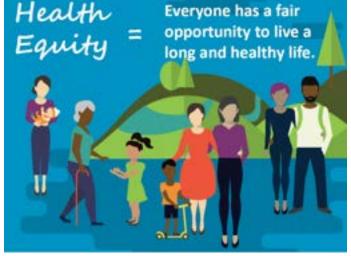
Healthcare is NOT health!!!



County Health Rankings model @ 2016 UWPHI

What is health equity?

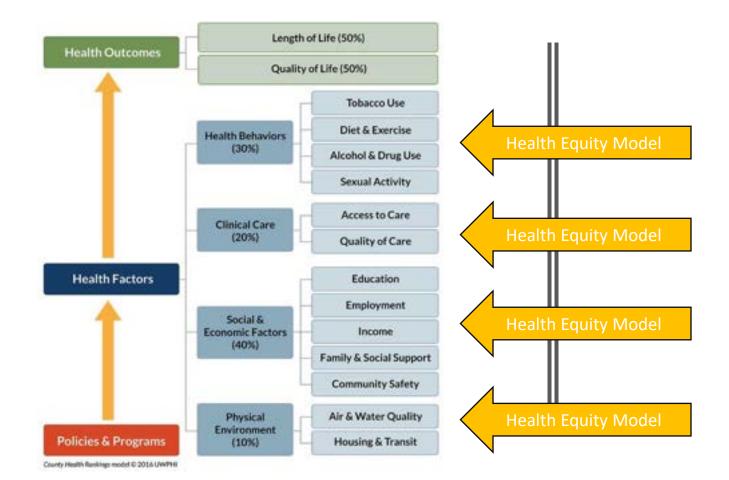
Health equity is when everyone has a fair opportunity to make healthy choices and can be their healthiest and happiest version of themselves







Health equity IS health!



- <u>College of Agriculture</u>
- College of Education
- <u>College of Engineering</u>
- Exploratory Studies
- College of Health and Human Sciences
- <u>College of Liberal Arts</u>
- Krannert School of Management
- College of Pharmacy
- Purdue Polytechnic Institute
- College of Science
- College of Veterinary Medicine

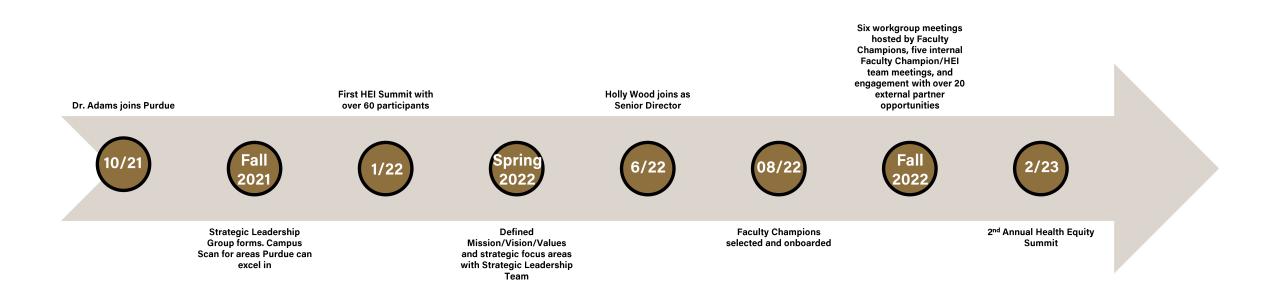


MY PERSONAL GOALS AT PURDUE

- Realization- understand the array of resources and talent at Purdue
- Coordination- find out where the Venn diagrams overlap in ongoing activities
- Collaboration- provide opportunities for those with shared interests to work together
- Innovation- look for new opportunities for Purdue to advance health equity regionally and nationally
- Amplification- be a megaphone to promote YOUR ongoing and future efforts
- Appreciation- increase knowledge and appreciation of Purdue as an important player in the health equity space



THE PURDUE HEI JOURNEY





MISSION AND VISION

Mission

 To marshal the considerable resources at Purdue to ensure all people have fair access to resources and opportunities that will allow them to make healthy choices.

Vision

 Purdue will be a collaborative, transformational, and interdisciplinary leader in Health Equity by leveraging its unique assets to address health disparities and social drivers to improve health outcomes across Indiana and beyond.



OUR VALUES

Equity

- Identifying and addressing health disparities.
- Helping to develop a pipeline of diverse health equity faculty, staff, and partners.

Collaboration

 Cross-campus, inter-disciplinary efforts to tackle complex challenges.

Results

 Tracking and sharing tangible & measurable outcomes on the most pressing HEI focus areas.

Community Engagement

- Connecting communities with the resources across Purdue to work together to build healthier communities.
- Building trust in communities through outreach and engagement.

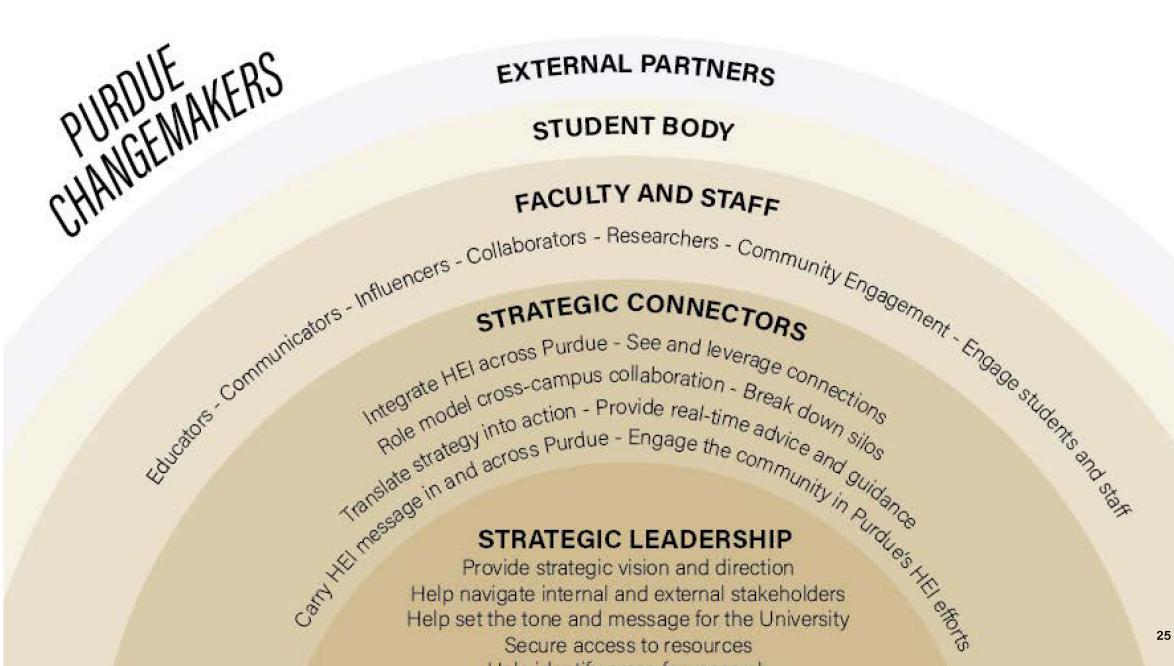
Education

- Faculty at the core using education, research, evaluation, and applied learning to make a significant change.
- Leveraging the power and passion of Purdue's student body.



PURDUE DIVERSITY, EQUITY, AND INCLUSION





Help identify areas for research

ACCOMPLISHMENTS SO FAR

- First-ever annual report!
- Ongoing faculty workgroup meetings
- State engagements: Governor's Public Health Commission, Mental Health Roundtable, projects with local health departments, hospitals, and other Purdue campuses and IN universities
- Federal engagements: White House Conference on Hunger, Nutrition and Health, White House Summit on Hepatitis C Elimination, CDC Foundation, HRSA, ONDCP
- State and National partner meetings: Eli Lilly, Anthem/Elevance Health, Humana, Wabash National, Indianapolis Colts, Indiana Pacers, Kroger Health, other National universities
- Helped interview/ recruit some of the new Health Equity cluster hires, and other campus hires
- HEI/I-HOPE work towards a CDC grant
- HEI/CHEqI micro-grants



CLUSTER HIRES





HEI/CHEQI MINI GRANTS

- In early 2022, \$50,000 donated by the Chaney's to support our HEI efforts
- In March 2022, 11 grants awarded to Indiana community-based organizations
 - Kheprw Institute: Implement a community gardening program and evaluate the impacts on healthy eating behaviors
 - Arsenal Tech: Open Art Studio at Arsenal Tech as an afterschool program
 - INCHWA: Mindfulness and resiliency classes for community health workers
 - Eskenazi Pedigo: Bi-weekly public health education classes provided by pharmacists at Wheeler Mission
- Shows how we can leverage our brand and networks to secure funding, work with the talented Faculty and staff at Purdue to target it in a way that promotes health equity at the community level
- Working to help partners improve interventions, assess outcomes, and write up findings



WHAT'S NEXT?

- Need to move from awareness to action and impact (ie "consequence")
- Faculty meetings with a focus on projects that have tangible outcomes
 - Pursuing several grants
 - Rural Health Center of Excellence?
 - Projects with the state and with counties
 - Involve even more Purdue partners- including at other campuses
- Work with campus leadership to continue crafting a health equity vision and infrastructure
- Involve new hires and more students in HEI work
- Make the business and workforce case in addition to the moral case- for health equity





PURDUE: INDIANA'S LAND GRANT UNIVERSITY

- Problem solvers, with a focus on practical applications of agriculture, science, and engineering
 - US Rep Justin Morrill: "We need engineers to build roads and bridges. We need people who understand science and agriculture."
 - Land-grant universities distinguish themselves from other institutions by directing their collective brainpower and resources toward research that addresses society's economic, political or social problems. Then they share what they learn with the public in an effort to identify workable solutions
- Economic development is a cornerstone of the land grant mission
 - The land-grant concept was established to... encourage economic development through scientific research
 - Health equity leads to a healthy workforce and a healthy economy

https://landgrantimpacts.org/about/#:~:text=Land-

grant%20institutions%20have%20traditionally%20pursued%20a%20threefold%20mission,agricult ure%20and%20engineering%2C%20and%20contributing%20to%20economic%20development.



WHAT OUR HEI TEAM AND EFFORT CAN BRING TO THE TABLE



Teaching Research



We Need You

31

HOLLY WOOD, SENIOR DIRECTOR OF HEALTH EQUITY INITIATIVES

HEI Vision and Progress





Health Equity

I-HOPE

- Community capacity building through:
 - Strategic collaborations
 - Seed funding opportunities to advance health equity
 - Grant writing assistance
 - Evaluation effort support
 - Utilization of evidence-based tools and resources





I-HOPE

Social and Community Context

- · IDOH Trauma Informed Communities Project Wayne County Paramedics
- · Develop community coalitions to address COVID-19 issues Qsource
- Responding to Racial Disparities in Health Indiana University Center for Rural Engagement
- Develop Linguistically and Culturally Appropriate Community-level Communications Campaigns Purdue University

Neighborhoods and Built Environment

- Healthcare and Rural Housing Corporation for Supportive Housing Indiana Program
- · Bicycle and pedestrian master planning for rural areas IDH

Economic Stability: Food Access/Food Security

- · Indiana Black Breastfeeding Coalition Indiana Department of Health (IDH)
- Donor Milk Express Pilot Program IDH
- SNAP/WIC Outreach IDH
- · Rural food quality and access programs IDH
- · Food as Medicine Models for Rural Southern Indiana Indiana University Center for Rural Engagement

Healthcare Access and Quality

- · Heart Healthy Hoosiers Cardiovascular Disease Prevention IDH
- · Expansion of the Sexual Assault Nurse Examiner (SANE) Program IDH
- Interventions to Reduce Smoking During Pregnancy in the Rural and Southern Indiana IU-School of Public Health-Bloomington
- · Ensure zero barriers to Naloxone access ShipHappens
- Assist community members living with SUD in navigating recovery systems and provide services Wayne County Paramedics
- Address patient barriers that prevent access to telemedicine and support utilization of remote patient monitoring Indiana Primary Health Care Association
- · Mobile crisis intervention Wayne County Paramedics
- · Viral hepatitis services programs Damien Center and Step Up Inc.



Health Equity

WAYNE COUNTY

- Community Action Event
- Wayne County Cares Support

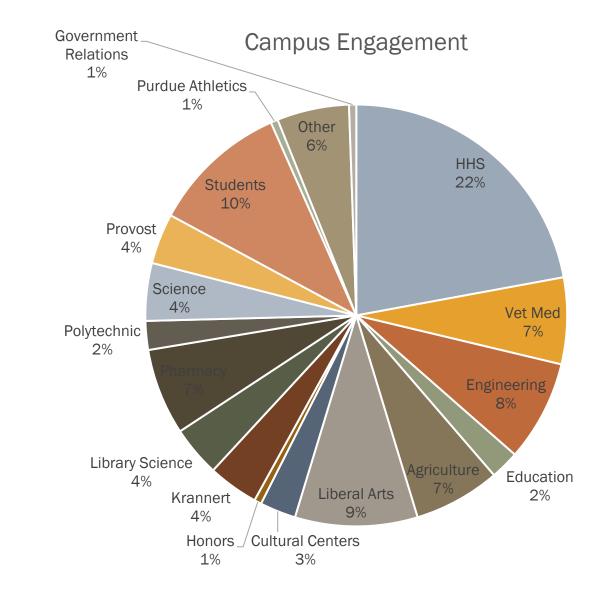


"I attended the I-HOPE forum in Wayne County in April of 2022. Little did I know it would impact my life forever... realizing adults in the community wanted youth to become more engaged with our workforce, I decided to start my own business... Hogg Helps... also partners with Future Achievers... I can testify that if I didn't attend the I-HOPE event, or gain support from community leaders that attended, none of these opportunities would have come to fruition for me."



Health Equity

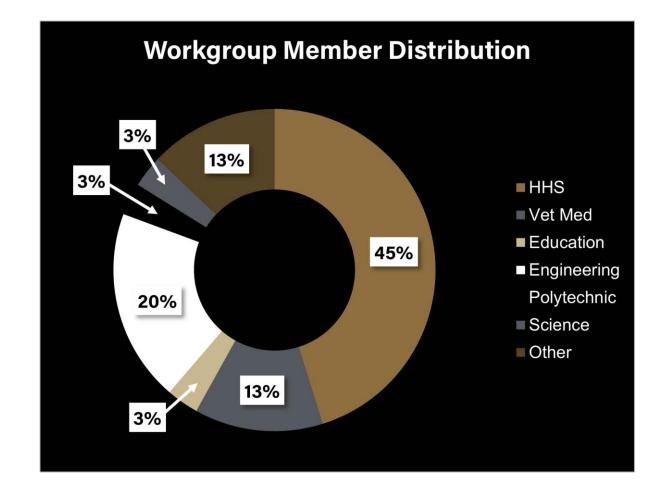
Engagement Across Campus





Health Equity

Workgroup Engagement Across Campus

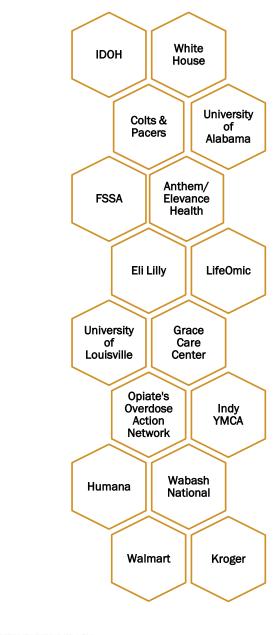




Health Equity

37

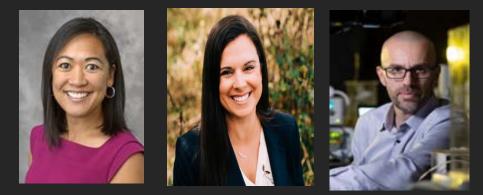
Engagement with External Partners





Health Equity

COMMUNITY-FOCUSED RESEARCH ORGANIZATION (CFRO)



BOARD MEMBERS

IMPROVING DIVERSE REPRESENTATION IN CLINICAL TRIALS IN INDIANA



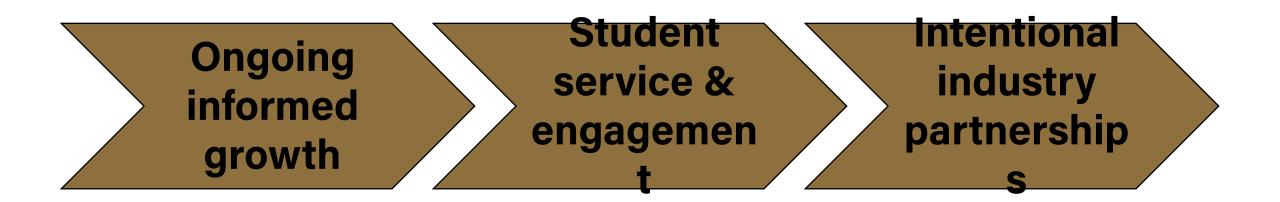


Health Equity

2/24/2023

39

VISION IN MOTION





UPCOMING FUNDING OPPORTUNITY

- Seed funding coming out of I-HOPE project
 - Eligible counties: Allen, Cass, Clark, Daviess, Delaware, Elkhart, Fayette, Lake, Madison, Scott, St. Joseph, Vanderburgh, and Wayne
 - Implementation funding for projects that focus on mental health, substance use, infant mortality, maternal mortality, and/or food security, as well as advance health equity among populations historically underserved





DR. JUDY MONROE, PRESIDENT AND CEO OF THE CDC FOUNDATION

Advancing Health Equity Through Data





Health Equity

2/24/2023 42



Advancing Health Equity Through Data









Together Our Impact Is Greater

We **unleash the power of collaboration** between CDC and philanthropies, organizations, corporations, governments and individuals in order to protect the health, safety and security of America and the world.

We believe that by aligning diverse interests and leveraging all parties' unique strengths, these collaborations create **greater impact** than any one entity could alone.



PAVING THE ROAD TO HEALTH EQUITY

Health Equity is when everyone has the opportunity to be as healthy as possible

Programs Successful health equity strategies Measurement Data practices to support the advancement of health equity Policy Laws, regulations, and rules to improve population health

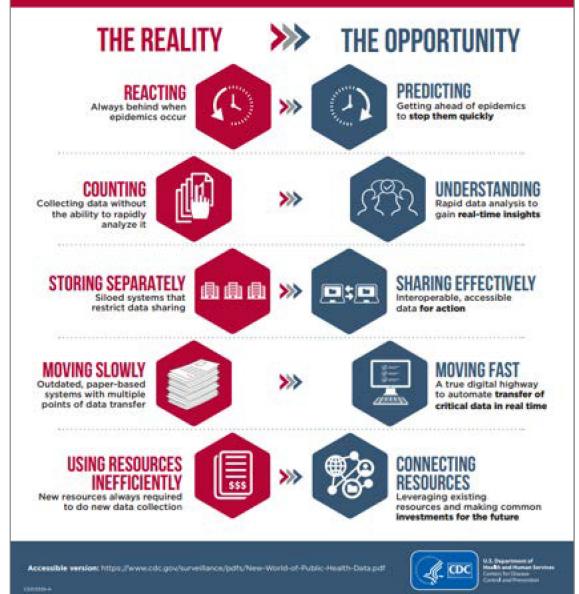
Infrastructure Organizational structures and functions that support health equity



U.S. Department of Health and Human Services Centers for Disease Control and Prevention

TIMELY. ACCURATE. ACCESSIBLE. THE NEW WORLD OF PUBLIC HEALTH DATA

CDC is building a digital public health superhighway to accelerate lifesaving prevention and response.



CDC Foundation's Six Strategies for Impact





CDC Foundation Health Equity Strategic Priorities



Build Public Health Workforce Capacity and Skills



Partner with Community-Based Organizations



Focus on Cross-Sector Collaboration for Systems Change

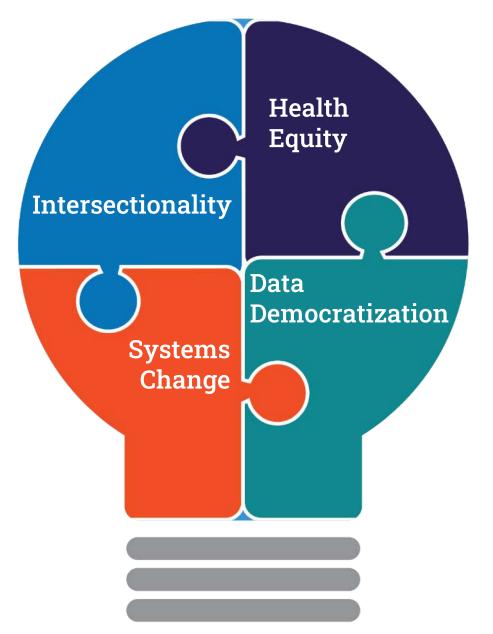


The Creation of More Equitable Data Systems

Public health practitioners, including funders, project managers and community partners, rely on **data when making decisions**. Data affects which regulations and laws are enacted and which programs are funded.

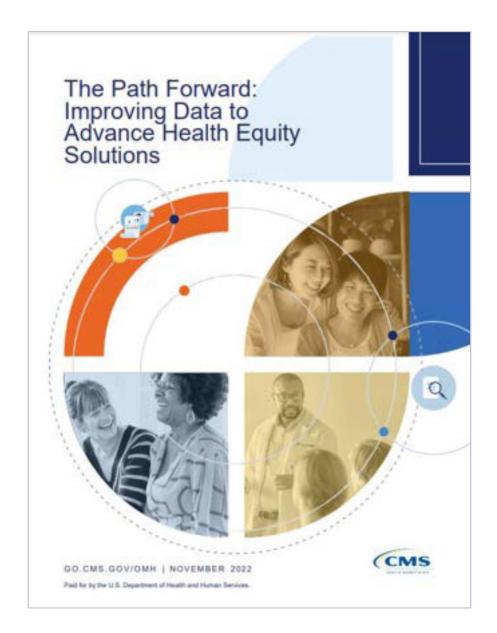
Data are the building blocks to help us better understand and eliminate health inequities. We need equitable data systems to be able to effectively address inequities.

These intersecting ideas form the basis for the data equity principles.



Health Equity Data Initiatives and Systems

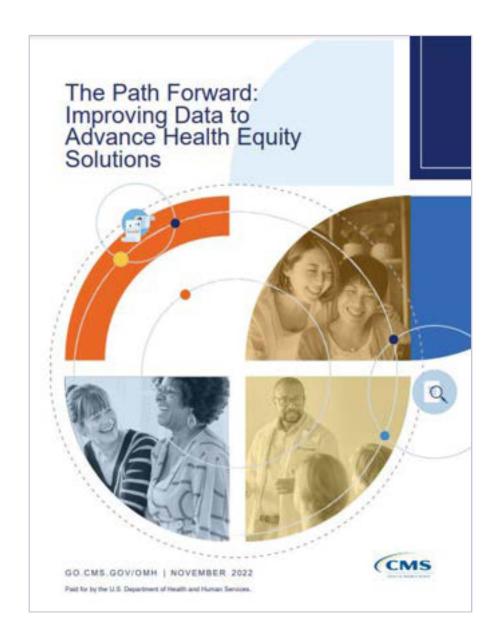




CMS Steps for Resolving Major Gaps in Health Equity Data

- Collecting new elements and filling existing gaps in CMS's health equity data
- Equipping the industry with new tools and capabilities
- Providing access to disaggregated data and insights





Examples of Progress to Date (2021-2022)

- Added race & ethnicity data fields on the Medicare Advantage Enrollment form
- Committed to expanding data collection and use
- Released RFI on equity data collection, stratification and summary score development
- Expanded Medicare Advantage stratified reporting to include Dual Eligibility or Low-Income Subsidy status
- Release guidance to state health officials on addressing SDOH



Better Data for Equity

Our tracker puts Health Equity first. Envisioned by the Satcher Health Leadership Institute, the Health Equity Tracker is designed to boost inclusivity, highlight at-risk populations, alert users to existing inequities in health data, and so much more.

Our goal for this tool is to support the work being done by policymakers, community leaders, researchers, and ultimately all champions for health equity. Explore our tracker today and find data to help your community reach their best level of health.





Recent news

News and stories from the Satcher Health Leadership Institute and beyond



THE <u>HEALTHY PLACES INDEX®</u> (HPI) MAPS NEIGHBORHOOD CONDITIONS DRIVING HEALTH

HPI advances health equity through actionable, <u>community-level data</u> and curated <u>policy recommendations</u>.

Used to invest **\$2.3 billion** to communities with greatest need.

HPI is a **peer-reviewed**, **proven**, **go-to data tool** with **hundreds of use cases** across multiple sectors.



Public Health Alliance

×

\equiv Tools



Explore the California Healthy Places Index score to examine neighborhood measures linked to health outcomes, and view key indicators of diversity and equity.

Learn more >

Lennox

HPI Score (3.0): 22.8 percentile



This Tract County Avg: 48.2 City / Town Avg: 16.1 This Tract has healthier community conditions than 22.8% of other California Tracts.

Tract 6016

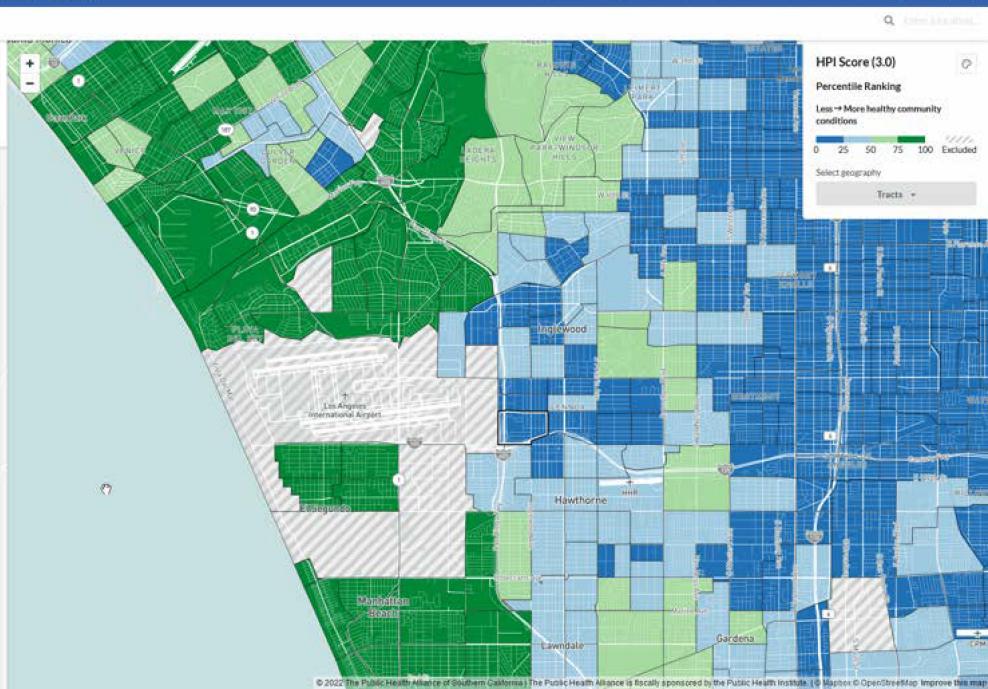
County > City / Town > Tract Los Angeles > Lennox > 6016

0010

Population: 4,439







Leading the Way...





Report to the Governor in fulfillment of Executive Order 21-21 Submitted by the Staff of the Indiana Department of Health

Public Health Funding

Workforce

Governance, Infrastructure and Services

Data and Information Integration

Emergency Preparedness

Child and Adolescent Health









www.cdcfoundation.org

10-Minute Break



Dr. Steve Abel, Dr. John Gates, Dr. Jasmine Gonzalvo, & Dr. Pavlos Vlachos

Panel: Health Equity on Campus





Health Equity

CHEqI BOARD OF DIRECTORS







CLINICAL PHARMACY FORUM 🖄 Open Access 🐵 🛈

A call to action from the Purdue University Center for Health Equity and Innovation

Jasmine D. Gonzalvo Pharm.D., 🗰 Ashley Meredith Pharm.D., MPH, Omolola Adeoye-Olarunde Pharm.D., M.S., Carlyn Kimlecik MSW, Sonak Pastakia Pharm.D., MPH, Ph.D., PCCP, Natalia Rodriguez Ph.D., MPH, Yumary Ruiz Ph.D., MPH Carol Ott Pharm.D., Ellen Schellhase Pharm.D., Elzabeth Crawford M.A., Susie Crowe Pharm.D., Jeffrey Samuel Pharm.D., MPHC, Megan Conkin Pharm.D., Jerome Adams M.D., MPH, Rakhi Karwa Pharm.D., ..., See fewer authors 🗢



JOURNAL ARTICLE

Building a University-School-Community Partnership to Improve Adolescent Well-Being

Get access >

Carlyn Kimiecik, MSW S, Jasmine D Gonzalvo, PlarmD, Shana Cash, MA, MPH, Drew Goodin, Sonak Pastakia, PharmD, PhD, MPH

Children & Schools, Volume 45, Issue 1, January 2023, Pages 27–34, https://doi.org/10.1093/cs/cdac029 Published: 02 December 2022 Article history * La constante de la constante de

Teaching

low public health partnerships are encouraging COVID-

opi State University, Brocke W

gration, Michigan State University, and

harmacy Practice, Purdue University

n, University of South Carolina, Debra

vaccination in Mississippi, Michigan, Indiana and South

avid R. Buys, Associate Profe

Omoiol

eever, Associate Professo

Iden, Associate Deal

Research | Open Access | Published: 27 January 2022

Indiana community health workers: challenges and opportunities for workforce development

Natalia M. Rodriguez, Yumary Ruiz, Ashley H. Meredith, Carlyn Kimiecik, Omolola A. Adeoye-Olatunde. Iymnet Francesca Kimera & Jasmine D. Gonzalvo 🖂

BMC Health Services Research 22, Article number: 117 (2022) Cite this article

40 ideas: Significantly expand community health workers in central Indiana



Statement from the Purdue University Center for Health Equity and Innovation on Tyre Nichols

The recent, senselves murder of Tyre Nichols has stirred up strong feelings of sadness, frustration, outrage, confusion, exhaustion, and hopelessness across the nation and across campus. Tyre's death is yet another reminder of the constant, palpable fear and pain experienced by Black and Brown individuals every day. This tragedy has reopened deep-seated wounds that will never fully heal.

Engagement HEql team is here to listen. Next week, on Thursday, February 9th, at 6:30 pm we will hold a listening session for students to share their grief and address their trauma. Please email cheqi@purdue.edu if you'd like to join.



Research

Implementation of a Global Health Equity fellowship established in partnership between an academic institution and governmental agency

Rakhi Karwa Pharm D., Ellen Schellt v., Pharm D., Christine Y. Marci, Pharm D., Sonak D. Pastakia Pharm D., MPC Ph.D., Imcan Manji BPharm, MPH, Jense M. Samuel Pharm D., Mi

CHEqI Request to Collaborate Form



Center for Health Equity and Innovation (CHEqI) at Purdue University: Request to Collaborate Form

C'Returning?

Please complete this request to collaborate form. This form will allow us to direct your interest in CHEql to the right team member. We look forward to working with you. Please anticipate a response within two weeks. Additional information may be requested from the CHEql team upon review of your submission.

If you have an issue with completing this form, please contact our CHEqI program managers at <u>cheqi@purdue.edu</u> for further assistance.

Thanks,

CHEql at Purdue University College of Pharmacy

Requestor Name (Information)

* must provide value

Email

* must provide value

Phone Number

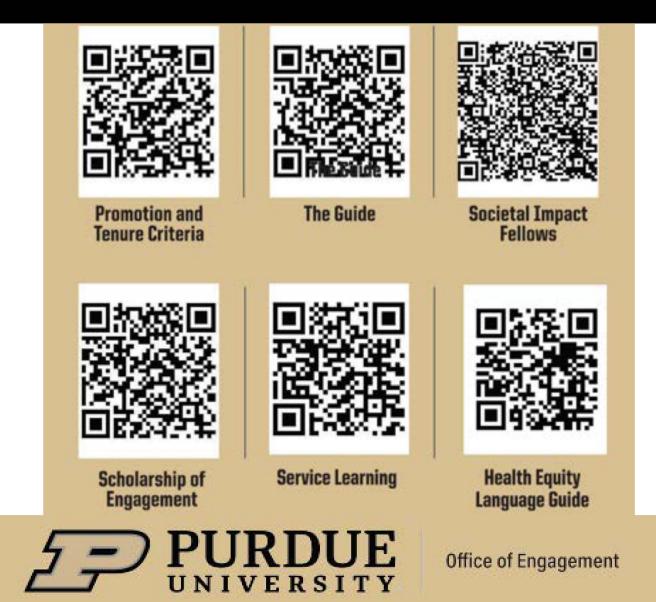
must provide value

Organization Name

must provide value

Division / Department Name (if applicable)

HEALTH EQUITY RESOURCES



Health Equity Workgroup Updates



HEALTH EQUITY INITIATIVE FACULTY CHAMPIONS REPORT

Inaugural Year 2022-2023



Health Equity

2/24/2023 67

Who We Are

Faculty Champions 2022-2023 by Pillar

- Food For Health
 - Dr. Haley Oliver- Professor of Food Science
- Infectious Diseases
 - Dr. Randolph Hubach- Associate Professor of Public Health
 - Dr. Steve Steinhubl- Professor Biomedical Engineering
- Mental Health and Substance Use
 - Dr. Nicole Adams- Clinical Associate Professor of Nursing
 - Dr. Hugh Lee- Associate Professor of Biomedical Engineering



Building Infrastructure

With the help of working groups from across campus

- Pillar specific websites to provide resources
- Email listservs to help connect faculty
- Workshop in April to provide an opportunity for faculty to learn, connect, and provide input into the direction for next year



Mental Health and Substance Use Workgroup

Upcoming and Potential Community Based Projects

- Seed funding for: Implementation of an Evidence-based Approach to Address the Mental Health of Long-Term Care Residents and Staff (PI: Kathy Abrahamson, School of Nursing)
- Teen Mental Health First Aid and Youth Mental Health First Aid from the National Council for Mental Wellbeing. Potential partnership opportunities
- Purdue Community: how can we support researchers in this space?
- Technology and Health...partnering across campus



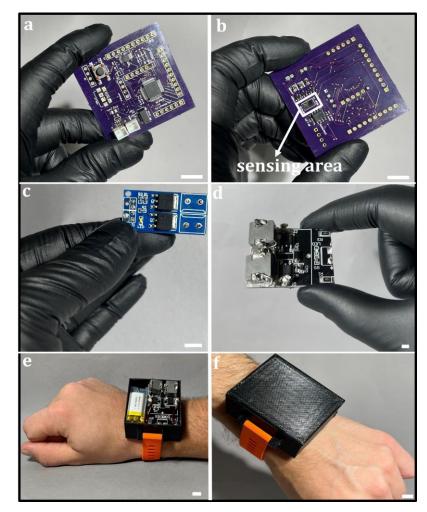
Addressing Social Determinants of Health in Primary Care

A Software Development Project

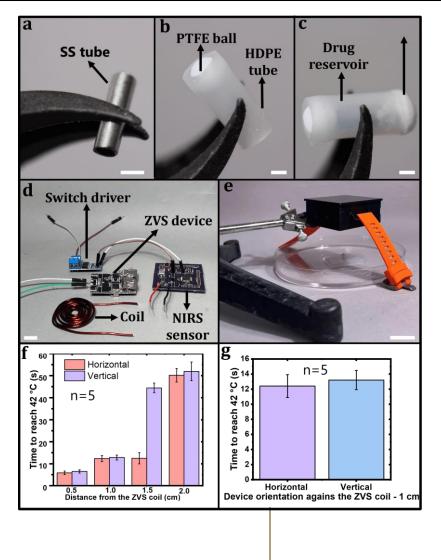
- The Need
- Bridges Software Platform
- Clinic Use
- Data Collection
- Future Technology



Translation of closed-loop naloxone delivery device



- Fast Track SBIR (1R44DA056277)
- NIH I-Corps (3R44DA056277-01S1)



Food for Health Workgroup

National Engagement



End hunger and increase healthy eating and physical activity by 2030, so that fewer Americans experience diet-related diseases like diabetes, obesity, and hypertension.



ATEXAS A&M INSTITUTE FOR ADVANCING HEALTH THROUGH AGRICULTURE

Engagement Across Campus

- 12 members from 5 colleges = Networking
- "Big Idea"



2/24/2023 73

FEED THE FUTURE INNOVATION LAB FOR FOOD SAFETY (FSIL)



Health Equity



Infectious Diseases Working Group

Community Engaged Programs

- Policy initiatives: SSP/SEP Programs
- Leveraging HRSA-funded Community Health Worker Training Program to increase ID awareness and intervention among this cadre of health professionals
 - Example: Engaging HCV coordinators funded through HEA 1007
- Next steps



Infectious Disease in Rural Health

Intersection of HIV and Rurality

- e-HERO (3U54MD012388-05S2)
 - mHealth intervention to increase HIV self-testing among rural among sexual minority men (SMM) and rural Native American men
- 3T-Prevent (R34 MH129208)
- Focuses on promoting bacterial sexually transmitted infection (BSTI) partner treatment through
 - patient-delivered partner therapy (PDPT)
 - increasing HIV testing by including HIV self-testing (HIVST) kits with PDPT
 - promoting HIV pre-exposure prophylaxis (PrEP) among SMM and partners
- Project GROW: Growing Rural Outreach and Wellness (SAMHSA 1 H79 SP082136-01)

ENDING THE HIV/AIDS EPIDEMIC

E-HERD

NDING THE HIV/AIDS EPIDEMIC In Rural Oklahoma

Digital Health Technologies to Address Health Inequities

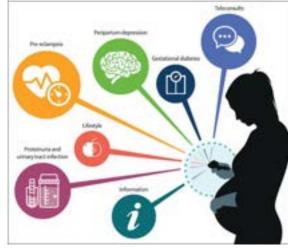
INDIANA





PowerMom

Scripps Research Digital Trials Center







from all 50 states.



The number of individual surveys and counting.



The number of total daily measurements of sleep, activity, blood pressure and heart rate,

Radin J. npj Digital Medicine 1, 45 (2018)

2/24/2023 77

Novel Technologies to Address Care Gaps

Hepatitis C is curable with treatment, but only ~37% people have achieved a cure.

What If You Have a Life-Threatening Disease That Can Be Cured...But You Don't Know It?

Hepatitis C: Get Checked. Get Care. Get Cured.

The hep C virus is more contagious than HIV. It causes chronic liver disease that can slowly progress for years, without symptoms or physical signs and can ultimately lead to death. You can have hep C and not even know it. The good news? Hepatitis C can be cured? Follow the 3 Cs to end hep C.

The 3 Cs of Hep C: Check. Care. Cure.





Get Checked

Getting checked for hep C is easy. Contact your physician to schedule a hep C schening. Get Care Persons infected with hep C should seek care with a physician who can prescribe treatment. A cure is as simple ao neo pill

Following treatment, 90-95% of patients are cured. That means countless lives are saved.

Get Cured

If you're one of thousands of individuals who have hepablis C and don't know it, following the 3 Cs can save your life. Contact a physician today to schedule your hepablis C screening. It could save your life.

a day for B-16 weeks.



Visit CheckCareCure.IN.gov for information on who is at risk, testing sites and more.

ase t?

Complications of Hepatitis C:

- 1 in 3 develop cirrhosis
- 1 in 20 develop liver failure
- It is the cause of ~50% of all liver cancers
- Reduces life expectancy by an average of 15 years

2/24/2023

78

Novel Technologies to Address Care Gaps



- In a pilot study of 288 people (~60% with a psychiatric condition, ~10% homeless) a digital medicine program was implemented to improve treatment to cure.
- Improved pill adherence to achieve cure up to 95%.

Successes

Seed Funding

- Developed a template and process for faculty to seek seed funding for community-engage research or engagement projects
- Each pillar has \$10,000 this year.
 - Matching funds available through I-HOPE if working in specific counties
- Mental Health and Substance Use have awarded funding for their first project!



Challenges

The Pillars

- Substantial overlap between pillars
- Some projects directly influencing health equity do not fit in any pillar
- Time and meetings
- For Consideration:
 - Health Equity Initiatives would be stronger together than divided. We propose to work as a single Champion group to provide support as needed to specific projects.



THANK YOU

We've only just begun...



DEAN MARION UNDERWOOD, COLLEGE OF HEALTH & HUMAN SCIENCES

Faculty Cluster Hires





Fall 2022 Health Equity Cluster



AFSAN BHADELIA Assistant Professor Department of Public Health



IA SOOJUNG JO or Assistant Professor blic School of Nursing



CARLOS MAHAFFEY Assistant Professor Department of Public Health



SHANDEY MALCOLM Assistant Professor Department of Public Health



PAUL ROBBINS Assistant Professor Department of Human and Family Studies



BUKOLA USIDAME Assistant Professor Department of Public Health



HAOCEN WANG Assistant Professor School of Nursing



PATRICIA WOLF Assistant Professor Department of Nutrition



MICHAEL PRESTON Assistant Professor Of Pharmacy Practice



FARIA CHAUDHRY Clinical Assistant Professor of Pharmacy Practice



ANDREA HAYES Assistant Professor Science and Engineering Libraries

Lunch



Panel: State of the State



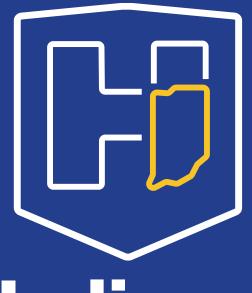
2/24/2023 86

DR. LINDSAY WEAVER, CHIEF MEDICAL OFFICER, INDIANA DEPARTMENT OF HEALTH

Governor's Public Health Commission, Current State of Public Health & the Vision for Health Equity 2023







Indiana Department of Health

PURDUE HEALTH EQUITY SUMMIT

LINDSAY M. WEAVER, M.D., FACEP CHIEF MEDICAL OFFICER

February 14, 2023

OUR MISSION:

To promote, protect, and improve the health and safety of all Hoosiers.

OUR VISION:

Every Hoosier reaches optimal health regardless of where they live, learn, work, or play.



2023: A Year of Looking Forward

- Moving beyond pandemic
- Assessing current state
- Building on lessons learned
- Focusing on big picture and public health transformation







INDIANA GOVERNOR'S PUBLIC HEALTH COMMISSION



Core Leadership Meeting



How Indiana Ranks Nationally

Affordability	6 th	Smoking and tobacco use	45
Opportunity	7 th	Obesity	46
Pre-K through 12 th grade	9 th	Mental Health	43'
Growth of the economy	19 th	Childhood Immunizations (by age 35 months)	41 ^s
Public safety	25 th	Public Health Funding	45 ^t



Public Health and Health Outcomes

- The things that most impact health outcomes are not well funded, which contributes to greater healthcare needs over the long-term.
- Investments in public • health have as high as a 14:1 ROI

Public Health's domain

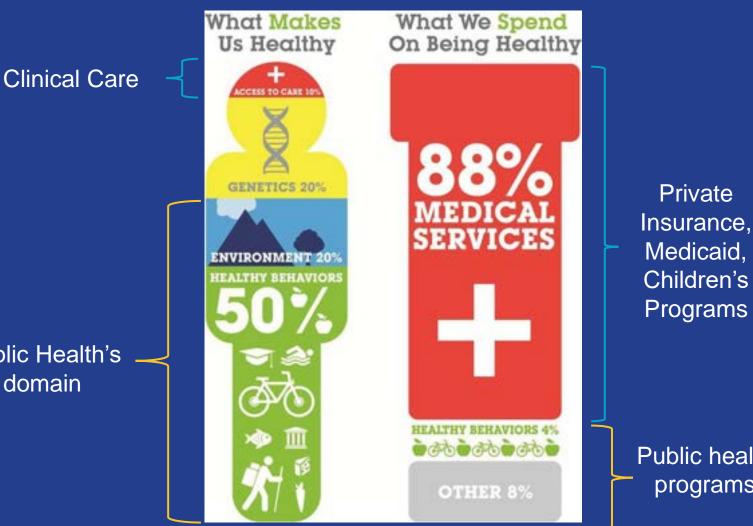
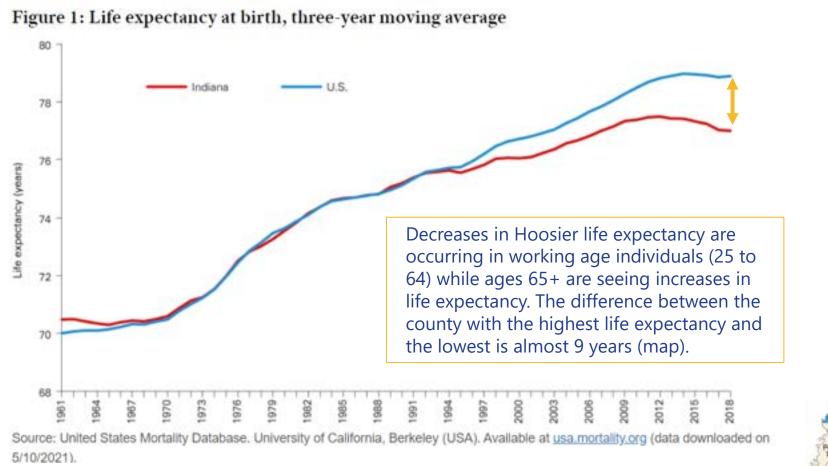


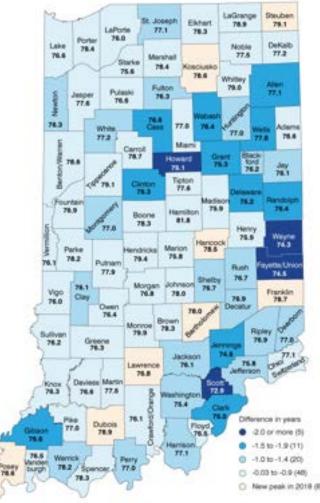


Figure from Bipartisan Policy Center. (2012). What Makes Us Healthy vs. What We Spend on Being Healthy. Retrieved from https://bipartisanpolicy.org/report/what makes us healthy vs what we spend on being healthy/

Public health programs

Life Expectancy in Indiana

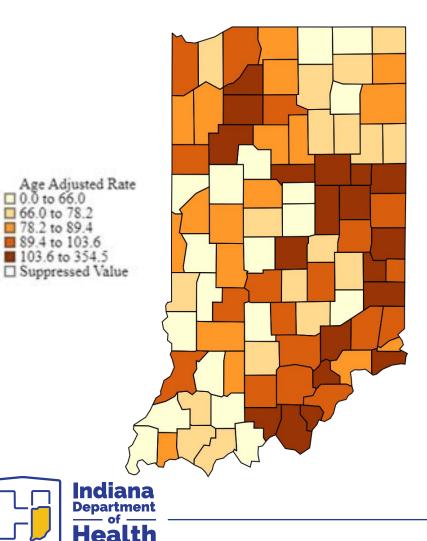






Risk of Mortality from Injury Compared to Access to a Trauma Center Within a 45-Minute Drive

Indiana Trauma Center Access:





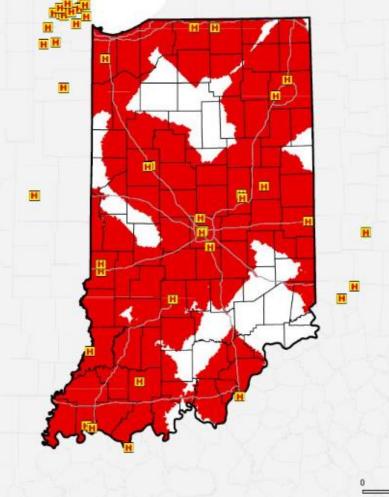
	(at average speed)		Total
	n	% of state	n
Land Area	26,648 sq mi	74%	35,826 sq mi
Population	5,937,078 people	92%	6,483,802 people
Interstates	1,219 miles	96%	1,266 miles

* Considered a trauma center for purposes of the triage and transport rule.

Travel times are calculated with 2016 street network reference data published by Esrl. Travel times do not take into account current traffic volume or restrictions. Population and land area are calculated from the 2010 U.S. Census block summary geography. Interstate mileage is calculated using a single direction of a divided highway (source: INDOT). All statistics should be considered an estimate.

> Indiana Department

Health

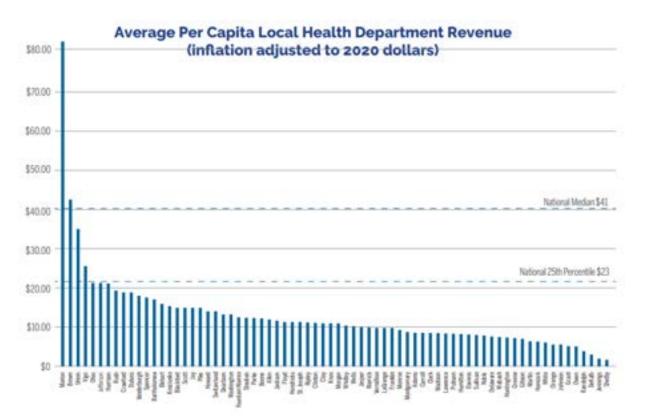


GPHC Reviewed Six Public Health Areas

- 1. Governance, Infrastructure and Services
 - Define core public health services available in every jurisdiction, regional support team model, credentials for local health officers and representatives to local health boards
- 2. Public Health Funding
 - Increase public health funding, sustainable public health investments, and maximize all funding sources
- 3. Workforce
 - Establish State Health Workforce Council and develop public health and healthcare workforce plan
- 4. Data Information Integration
 - Maintain the IDOH Office of Data and Analytics to securely analyze public health data for quality improvement and disease prevention and support local health departments
- 5. Emergency Preparedness
 - Invest in a State Strategic Stockpile, State Trauma System and trauma care, EMS training and readiness, access to emergency medical services
- 6. Child and Adolescent Health
 - Support current school health screenings and support oral health programs



Public Health Funding Findings



Source: Fairbanks School of Public Health IndianaPublic Health System review, December 2020

Marion County Health and Hospital Corporation (MCHHC)

MCHHC is the only county based LHD organized, by statute, as a municipal corporation. In addition to operating an LHD, MCHHC operates ingatient and outpatient facilities, long term care facilities, and indianapolis Emergency Medical Services. (EMS).



- Most of our local public health funding comes from the local government, ~70%, many times from property taxes.
- Across the nation this is reversed in many states, where the State government is a larger percentage of the funding for a local public health department.
- The revenue of 90 of our 94 local health departments is below the national 25th percentile
- Funding per capita ranges from \$1.25 to \$83 (Marion Co) across our state

PH Funding Recommendations

- Provide stable, recurring and accessible funding
- Local elected officials decide whether to opt-in to additional funding and agree would agree to provide core public health services
 - Vote to opt in every five years and maintain at least 20% local cost sharing
- Local officials who opt-out the first year will continue to receive state funding at their current (legacy) amount and have the option to opt-in in year two
- IDOH to provide technical assistance to local health departments
 - Grants writing, insurance billing, clinical consultation, and more.



Transforming Public Health

NextLevel

Key pillar of Governor Holcomb's Next Level Agenda

PUBLIC HEALTH COMMISSION

GOAL: Ensure all Hoosiers have access to foundational health services by increasing the state investment and providing stable, recurring, and accessible funding. Improve Indiana's life expectancy and public health funding ranking among states through increased local access to core services.

- Increase annual state public health appropriation +\$120M/yr in FY23and +\$227M in FY24
 - Out of these increases, \$100M in 1st year and \$200M in 2nd year will be solely dedicated to locals who opt-in for public health funding (up from \$6.9M/yr)
 - Remainder of state level public health funding will assist in areas such as healthcare workforce planning, data analytics, emergency preparedness, and promoting child screenings & oral health programs



Current Required LHD Services

- Vital records
 - Birth and death certificates



Environmental services



Food protection and inspection



• Fatality review





Lead assessment and case management



Immunizations



- Infectious disease monitoring and prevention
- Tuberculosis control and case management
- Tattoo, body piercing, and eyelash safety
 - Health-related areas during emergencies/ disasters

On average, LHDs have implemented about half of 20 recommended public health activities.

SOURCE: Fairbanks School of Public Health Indiana Public Health System Review, December 2020



Additional Services

- Tobacco Prevention and Cessation
 - Youth vaping and pregnant women



- Harm Reduction for Trauma and Injury Prevention
 - Child seat safety education



Maternal and Infant Mortality
 Safe sleep education and sleep sacks



- School Health Liaison
 - Vision, hearing and dental screenings



- Equitable Delivery of Core Services
 - Rural, urban, socioeconomic status, age, disability, gender, race, ethnicity

- Full-time Public Health Nurse
 - Clinical services and prevention



Updated Core Services



Communicable Disease Control

Food Protection

 Conduct inspections, foodborne illness investigations



Immunizations

Provide access and clinics.

Infectious Disease Surveillance and Prevention Review data, identify and investigate outbreaks

Tuberculosis Control and Case Management Coordinate clinical needs and provide education.



Tattoo, Body Piercing, Eyelash Safety and Sanitation

Respond to complaints and apply the state rule









Chronic Disease and Injury Prevention

Tobacco Prevention and Cessation

 Promote prevention and cessation . such as cessation programs or supporting a tobacco control coalition

Trauma and Injury Prevention

 Promote safety to reduce harm, such as iniury prevention initiatives, . Examples include child safety seat trainings, overdose education, and programs to prevent older adult falls.

Screenings and referrals

Screen for chronic diseases such as obesity, diabetes and cancer.



Environmental Public Health

 Investigate complaints, help ensure well water guality and inspect swimming pools

Vital Records

 Provide timely certificates through trained on-staff registrar



Updated Core Services



Access and Linkage to Clinical Care

 Include at least one full-time public health nurse on staff and after-hours access



Health-Related Areas during Emergencies/Disasters

 Staff includes dedicated preparedness coordinator on staff, and ensure resources are available in an emergency



Maternal, Child and Family Health

Fatality Review

Participate in review teams and develop prevention strategies



Maternal and Child Health

Provide linkages to care and promote safe sleep

School Health Liaison

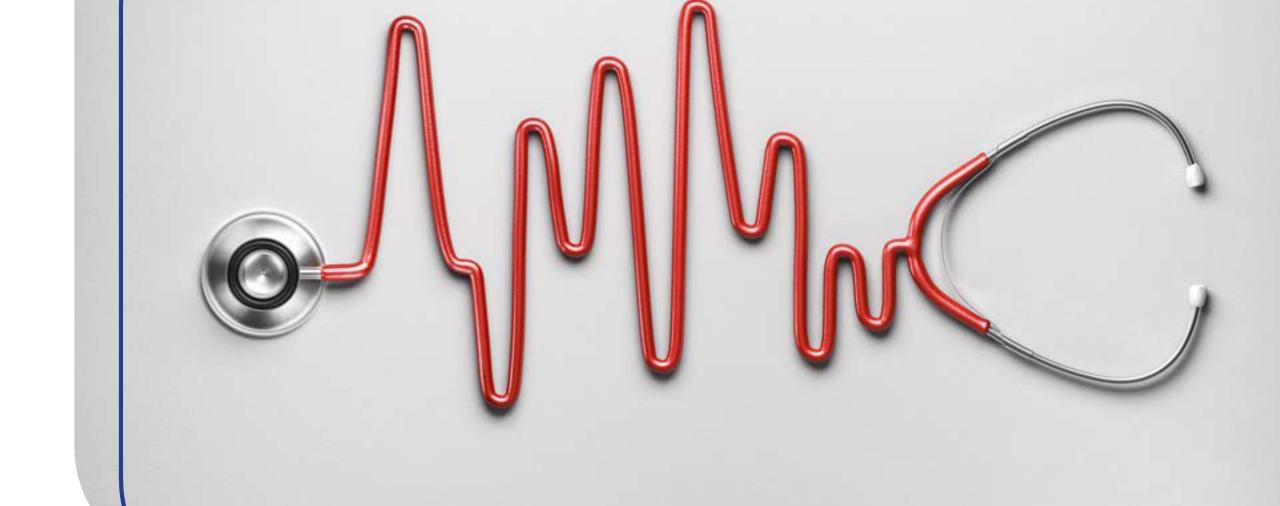
- Support school needs, including vision, hearing and dental screenings
- · Partner with schools to promote whole child health

Lead Case Manager and Risk Assessment

 Identify exposure risk and ensure no-cost testing for children younger than 7 years

in.gov/gphc





A Case for Health Equity



Health equity is the state in which everyone has a fair and just opportunity to attain their highest level of health.

Health disparities are preventable differences in the burden of disease, injury, violence, or opportunities to achieve optimal health that are experienced by populations that have been disadvantaged by their social or economic status, geographic location, and environment.

Social determinants of health are the conditions in the places where people live, learn, work, play, and worship that affect a wide range of health risks and outcomes. Long-standing inequities in key areas of social determinants of health are interrelated and influence a wide range of health and quality-of-life risks and outcomes.



105

Hoosiers by the Numbers

Population Demographic	IN	U.S.
White, Non-Hispanic	77.5%	59.3%
Black/AA, Non-Hispanic	10.2%	13.6%
Latinx/Hispanic	7.7%	18.9%
Asian	2.7%	6.1%
Multiple race, AI/NA, NHa/PI	~2%	~2%
Total	6,833,037	333,287,557
Female, all ages	50.4%	50.5%

- 2021 Income:
 - Median: \$61,944
 - Per capita: \$32,537
- Persons in poverty: 12.2%
 - Context: 2021 weighted threshold is \$21,559 for household of 3 people
- 70% own, 30% rent their housing unit
- 8.9% reported language other than English spoken at home at least part of the time



106

What is Social Vulnerability?

Every community must prepare for and respond to hazardous events, whether a natural disaster like a tornado or disease outbreak, or a human-made event such as a harmful chemical spill.

A number of factors, including poverty, lack of access to transportation, and crowded housing may weaken a community's ability to prevent human suffering and financial loss in a disaster.

These factors are known as social vulnerability.



Recognizing Health Disparities

- COVID cases and vaccination rates
- Infant and maternal mortality
- Cancer screenings
- Overdose rates
- Not just based on race and ethnicity urban/rural, age also factors

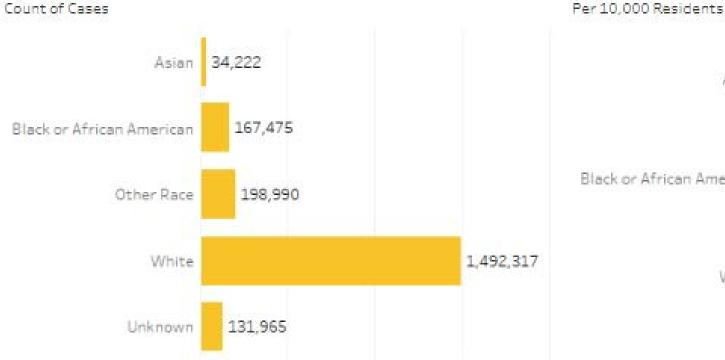


COVID-19 Case Demographics

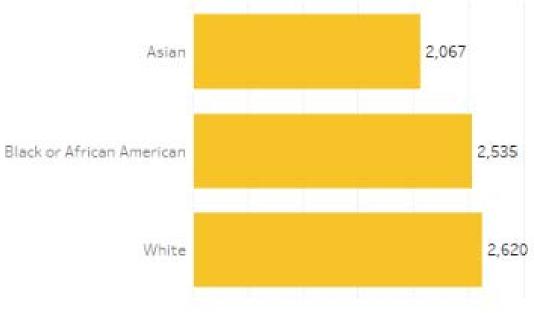
Statewide Cases Demographics

Indiana Department

Health

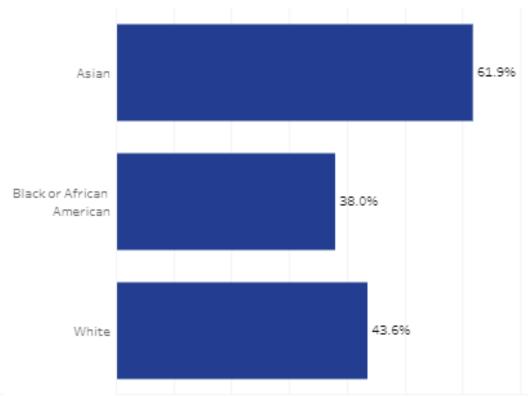


Race



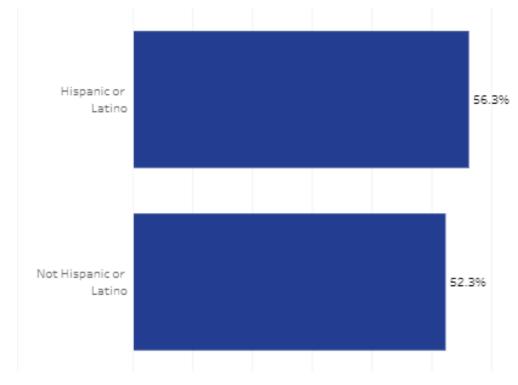
Demographic.

COVID-19 Vaccination Rates by Race & Ethnicity



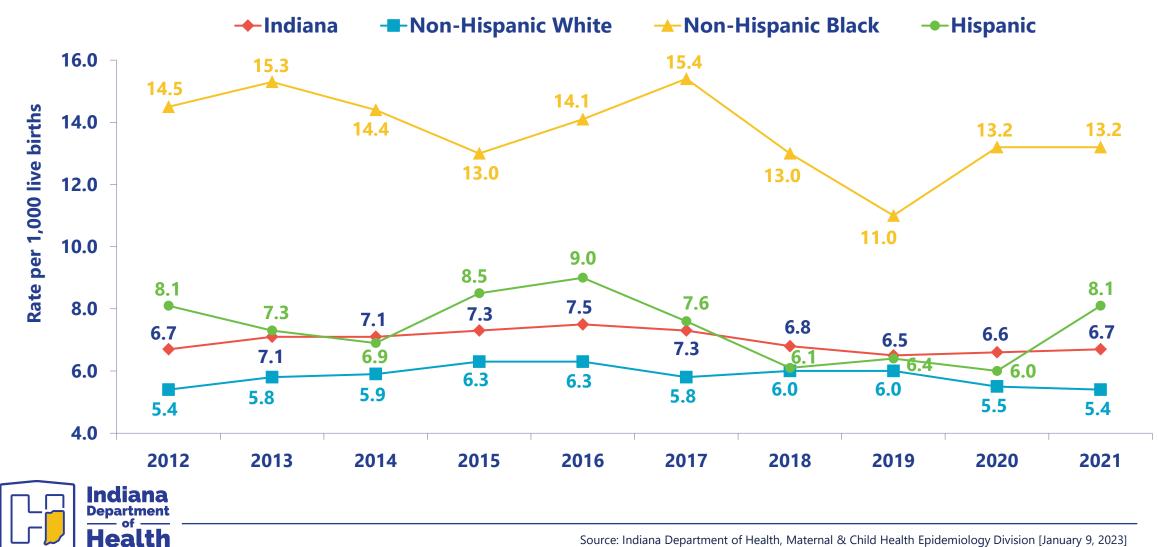
Percent of Race Completed Primary Series

Percent of Ethnicity Completed Primary Series





Indiana IMRs by Race and Ethnicity 2012-2021

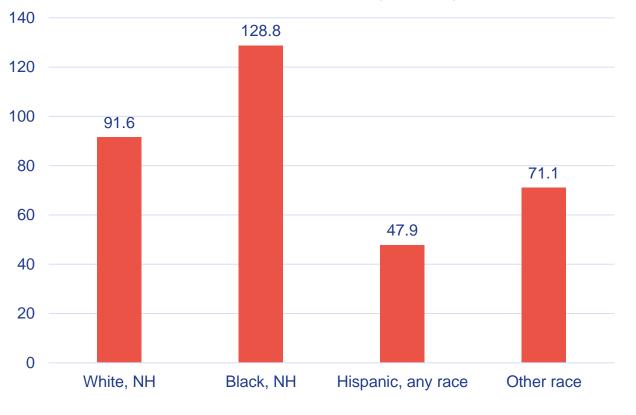


Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [January 9, 2023] Indiana Original Source: Indiana Department of Health, Vital Records, ODA, DAT

2018-20 Maternal Mortality, Preg.-Assoc. Deaths

Race/Ethnicity	Ν	%
White, non-Hispanic	157	73.0%
Black, non-Hispanic	41	19.1%
Hispanic, any race	12	5.6%
Other	5	2.3%

Avg. three-year ratio of pregnancyassociated deaths by race and ethnicity, per 100,000 live births (*n*=215)

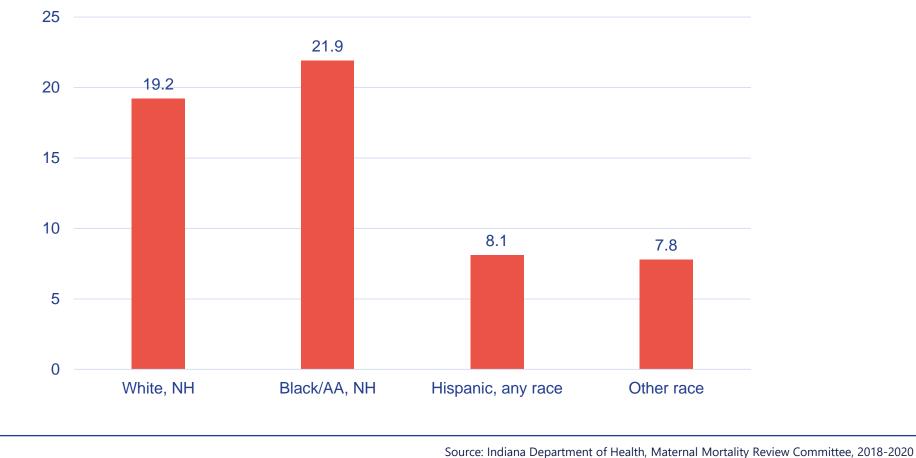




Source: Indiana Department of Health, Maternal Mortality Review Committee, 2018-2020

2018-20 Maternal Mortality, Preg.-Rel. Deaths

Avg. three-year ratio of pregnancy-related deaths by race and ethnicity, per 100,000 live births (n=43)



Indiana Department

Health

Colorectal screening 2016-2020

Colorectal Screening	Adults Aged 50-75 Who Have Ever Had a Sigmoidoscopy or Colonoscopy	Adults 50-75 Who Have Followed the USPSTF Colorectal Screening Guidelines
Urban	68.3%	68.1%
Rural	64.6%	64.8%

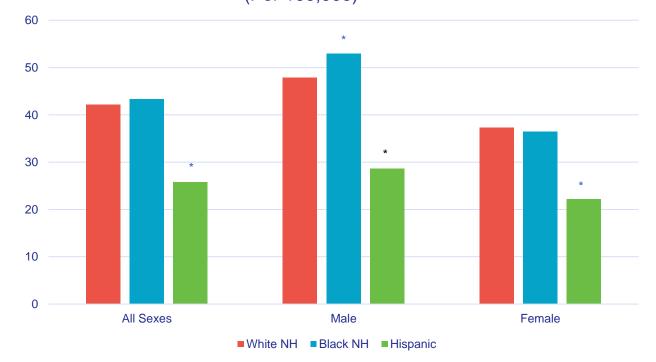
According to BRFSS 2016, 2018, and 2020 combined data rural counties had statistically significant lower rates of colorectal cancer screenings across multiple screening measures compared to urban counties (5).



Colorectal Cancer Incidence

- Hispanics are more likely to be diagnosed with diabetes, a risk factor for colorectal cancer.
- Hispanics are also less likely to be diagnosed with colorectal cancer due to reduced screening rates and access to timely follow-up treatment.
- Black individuals have the highest colorectal cancer incidence and mortality in Indiana and the US.
- Men have much higher rates than women in Indiana and the US (6).

Colorectal Cancer Incidence Rates 2015-2019 (Per 100,000)



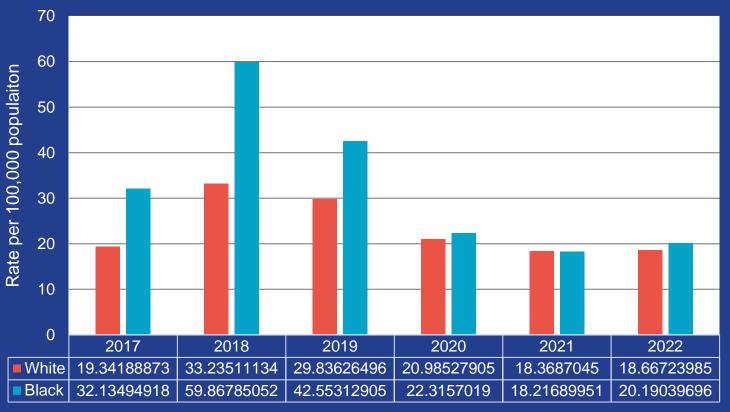
* Bars with an asterisk represent a statistically significant difference between rates compared with their white NH counterpart



Source: American Cancer Society. "Colorectal Cancer Risk Factors: Hereditary Colorectal Risk Factors." American Cancer Society, https://www.cancer.org/cancer/colon-rectal-cancer/causes-risks-prevention/risk-factors.html.

Deaths due to Any Opioid Drug Overdose in Indiana

 Rates for the Black population in Indiana are higher than those for the White population for all overdose-related ED visits, overdose-related hospitalizations and opioid-involved overdose deaths in the years provided

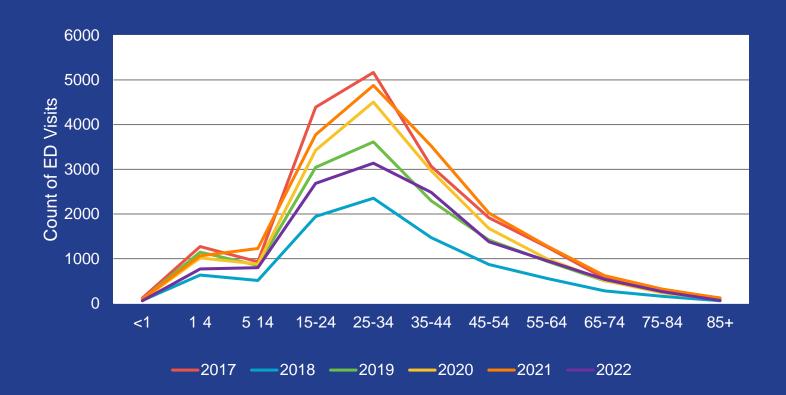


White Black



ED Visits due to Any Drug Overdose in Indiana

 The 25-34 age range is more likely to be seen in the ED for overdoses than any other age range in the years provided





Connecting the Dots

- We must look at health equity, social vulnerability when we address the health of our state
- GPHC funding addresses SVI more money for those with lower life expectancy/higher SVI
- Counties with poorer metrics often lacking access to public health services goal is to level playing field so where you live doesn't determine your access to core PH services



Summary & Next Steps

- Every Hoosier deserves access to core public health services
- Public health services are best delivered locally by trusted partners in community
- Investing in public health today helps ensure economic security and prosperity tomorrow through retention of a healthy, skilled workforce, emergency preparedness, and better health outcomes
- We can't afford NOT to invest so be a public health champion!



Thank you!





NOITJIUUA **ONA HTIABH IATNBM FONOISIVID ANAIDNI** ,AOTJAAIQ ,YAAHQUAHJ YAL

AS27, 9Idetbnuoß dtle9H letn9M



121 2/24/2023

Why is this so hard?

TENSIONS:

Public Safety vs. Compassionate Care

Bodily Autonomy vs. Forced Treatment





Why is this so hard? (Pt.2)



9-8-8

CCBHC



National Council for Mental Wellheims

Local Collaborations



Indiana's Roadmap

2023 DMHA Priorities

Build Infrastructure

Grow Workforce

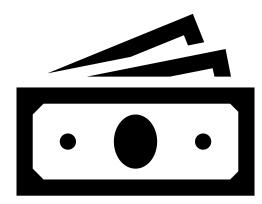
- Quality Improvement





What if there was a way to

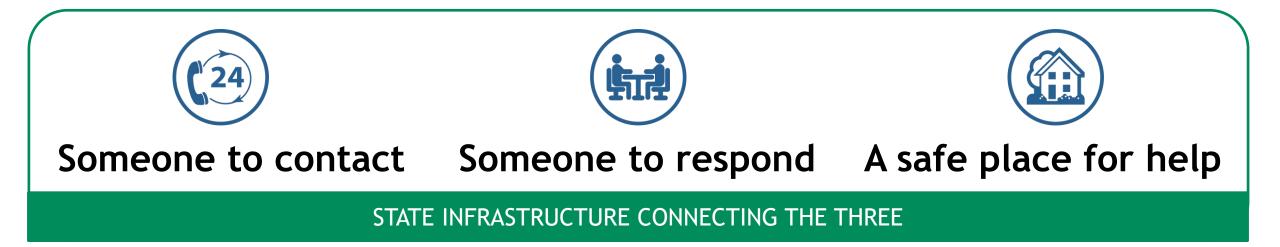




- Keep people with mental illness out of jails and the ED
- Let police do police work
- Divert people away from the justice system and into treatment
- Save hundreds of millions of dollars



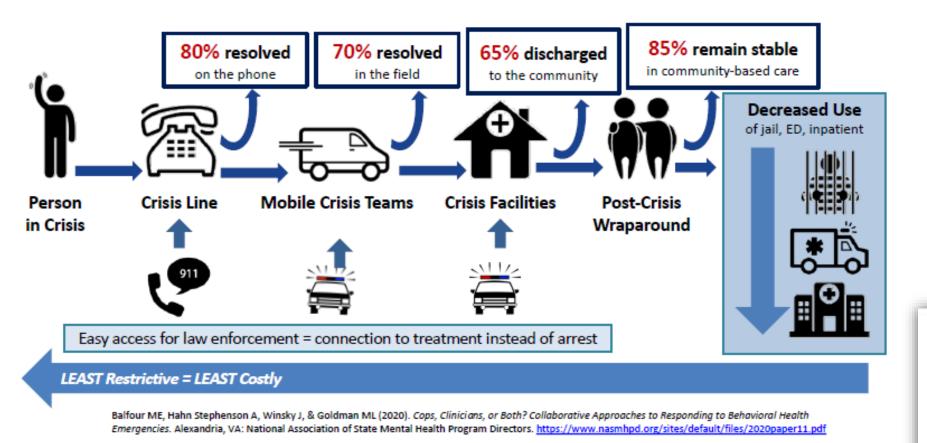
988 is More than a Number: It's a Chance to Transform Crisis Care



A system capable of serving *anyone*, *anytime*, *anywhere*

Putting it all together ...

Crisis System: Alignment of services toward a common goal



The above image is a reproduced slide from the April 2, 2021 Congressional Briefing: Mental Health is Not a Crime: How 988 and Crisis Services will Transform Care



No. for Selanianal Health Links Care 1 & Rost Warriss Tardel drivenings: Information Provide Tardel Sectors (1997).

National Guidelines for Behavioral Health Crisis Care Best Practice Toolkit

SAMHS

Invest \$100 million in crisis care and save:



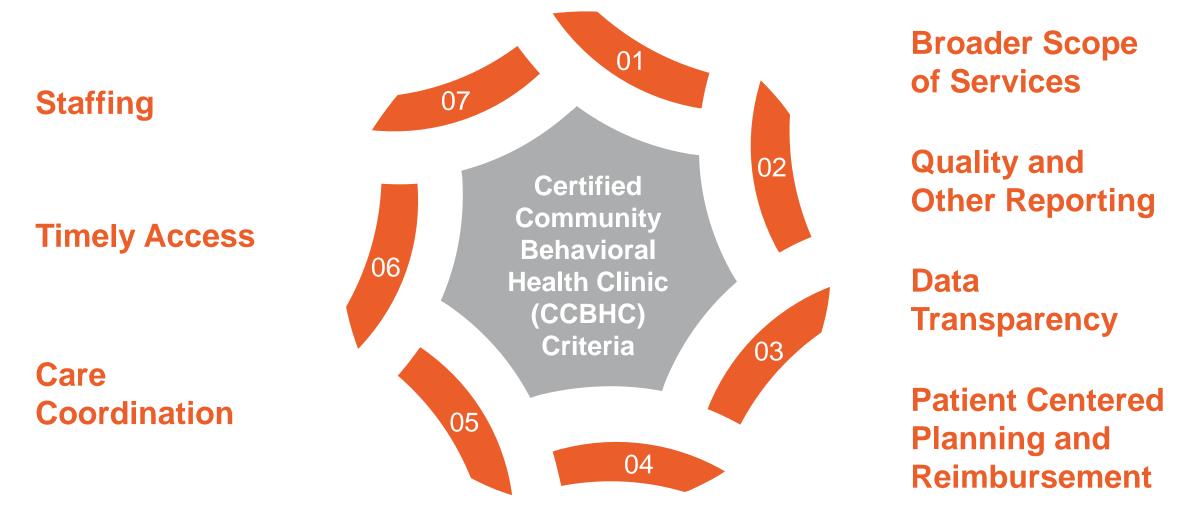
- \$37 million in ED costs,
- 45 years of psychiatric ED boarding hours, and
- 37 full-time equivalents of police officer time and salary

Source: Business Case: The Crisis Now Model. Alexandria, VA, National Association of State Mental Health Program Directors, 2018

Certified Community Behavioral Health Clinics

What is a CCBHC?

CCBHCs provide a **comprehensive range of mental health and substance use services.** The CCBHC model alleviates decades-old challenges that have led to a crisis in providing access to mental health and substance use care.



THE CHALLENGE VS THE CCBHC SOLUTION

THE CHALLENGE

Current system forces complex individuals into a predetermined treatment pathway



Allow for building custom treatment pathways



THE CHALLENGE

BH challenges touch on many different systems, but collaboration is difficult



Allows for pathways to strengthen entire ecosystem (schools, criminal justice, etc)

ß	S	
c	J	

THE CHALLENGE

We don't know how we are doing



Radical data transparency



Future Directions & Final Q&A



THANK YOU

To contact us, please reach out to Aubrey Anderson at adams339@purdue.edu.

<u>Health Equity Initiatives - Office of the Provost - Purdue</u> <u>University</u>

