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Protecting New Hoosiers and their Parents

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Protecting New Hoosiers and their Parents



Indiana Family Impact Seminars

A project of the Indiana Consortium of Family Organizations

Center for Families, Purdue University

Department of Early Childhood, Youth, and Family Studies, Ball State University

Indiana Association for Marriage and Family Therapy

Indiana Clinical and Translational Sciences Institute

Indiana Extension Homemakers Association

Indiana Youth Institute

Health and Human Sciences Extension, Purdue University

National Association of Social Workers - Indiana Chapter

Report Authors: Inga Nordgren; Rob Duncan, PhD; Kate Kester; Shelley MacDermid Wadsworth, PhD

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Family Impact Seminars

Family Impact Seminars have been well received by federal policymakers in Washington, DC, and Indiana is one of several states to sponsor such seminars for state policymakers. Family Impact Seminars provide state-of-the-art research on current family issues for state legislators and their aides, Governor's Office staff, state agency representatives, educators, and service providers. One of the best ways to help individuals is by strengthening their families. The Family Impact Seminars speakers analyze the consequences an issue, policy or program may have for families. The seminars provide objective, nonpartisan information on current issues and do not lobby for particular policies. Seminar participants discuss policy options and identify common ground where it exists.

Protecting New Hoosiers and their Parents is the twenty-fifth seminar in a continuing series design to bring a family focus to policy making. The seminar focused on the changing the shape of the American labor force during the pandemic. The topic was chosen by a bipartisan committee of legislators, representing the very audience the seminars are intended to inform.

Seminar Speakers

s Public Health,

Seminar Legislative Advisory Committee

Senator Veneta Becker	Senator Fady Qaddoura
Senator Jean Breaux	Representative Vanessa Summers
Representative Dale DeVon	Representative Jeff Thompson
Senator Jon Ford	Representative Ann Vermilion
Representative Sheila Klinker	Senator Shelli Yoder
Senator Jean Leising	

The Indiana Seminars are a project of the Indiana Consortium of Family Organizations, which includes

Center for Families, Purdue University	Indiana Extension Homemakers Association
Department of Early Childhood, Youth, and Family Studies, Ball State University	Indiana Youth Institute
Indiana Association for Marriage and Family	Health and Human Sciences Extension, Purdue University
Therapy	National Association of Social Workers – Indiana
Indiana Clinical and Translational Sciences Institute	Chapter

Key Terms and Definitions

Term	Definition
INFANT MORTALITY ¹	 The number of infant deaths for every 1,000 live births that occurs between birth of the infant to the child's first birthday Is recorded based on mother's home address
MATERNAL MORTALITY ²	 The death of a pregnant person from complications of pregnancy or childbirth that occur during the pregnancy or within 6 weeks after the pregnancy ends
SOCIAL DETERMINANTS OF HEALTH ³	 The conditions in the environments where people are born, live, learn, work, play, worship, and age that affect a wide range of health, functioning, and quality-of-life outcomes and risks Can be grouped into five categories: Economic Stability; Education Access and Quality; Health Care Access and Quality; Neighborhood and Built Environment; Social and Community Context
HEALTH EQUITY4	 The state in which everyone has a fair and just opportunity to attain their highest level of health Requires ongoing societal efforts to: address historical and contemporary injustices; overcome economic, social, and other obstacles to health and health care; eliminate preventable health disparities
COLLECTIVE IMPACT ⁵	 A network of community members, organizations, and institutions who advance equity by learning together, aligning, and integrating their actions to achieve population and systems level change Must meet these five conditions to qualify as collective impact: a common agenda, shared measurement, mutually reinforced activities, continuous communication, a backbone organization
HOUSING INSECURITY ⁶	 An umbrella term that encompasses several dimensions of housing problems people may experience, including affordability, safety, quality, insecurity, and loss of housing
OTHER ADVERSE INFANT BIRTH OUTCOMES	 Preterm/Premature Birth⁷: Infant born before 37 weeks gestation Low Birthweight⁸: Infant born less than 5.8 pounds Neonatal Intensive Care Unit (NICU) Stay⁹: Infant is admitted into the NICU due to a sickness or other need for specialized nursing care

Issue Overview

Even though most instances of infant or maternal mortality are preventable^{10,11}, Indiana ranks 3rd and 9th in the nation for maternal¹² and infant¹³ mortality, respectively. Infant mortality rates are a marker for overall population health while maternal mortality rates reflect the access and quality of available health services¹⁴. Maternal and infant mortality can have significant impacts. For example, maternal mortality alone costs the U.S. over \$30 billion a year¹⁵. In Tennessee (ranked 14th), where rates are already lower than Indiana's, infant mortality costs the state \$610 million¹⁶ a year.

Indiana's 2022 Family Impact Seminar was focused on the current state of infant mortality and ways policymakers can get involved to help reduce infant deaths. Stable and secure housing was a theme identified across speakers as a key point for improving maternal and infant wellbeing. In Indianapolis, the Richard M. Fairbanks School of Public Health at IUPUI recently received a \$2.4 million dollar grant to support the Housing Equity for Infant Health Initiative¹⁷. By helping pregnant women find safe housing, the Indianapolis initiative intends to reduce infant mortality rates as evidenced by a pilot study conducted in Ohio.

Another evidence-based program in Ohio, called Cradle Cincinnati¹⁸, has reduced infant mortality in Hamilton County. On a larger, county-sized scale this program costs \$4.5 million dollars a year from federal, state, and local funding sources. Cradle Cincinnati has resources for families and uses community partners to help improve infant and maternal health. Research, along with personal accounts, indicates that mothers and infants are best helped through systemic changes like housing availability, public transportation accessibility, and support in healthcare.

Considerations for Legislators

Need for System-Level Change

- Forty-nine percent of the Indiana maternal mortality review committee recommendations for prevention of pregnancy-associated deaths in Indiana are for system-level change, followed by facility-level change (22%) recommendations¹⁹.
- Included as a significant predictor of population health, social determinants of health are as influential on health as a person's genes/biology, health behavior, or medical care²⁰.
- There is a persistent inequitable racial gap in Indiana that contributes to higher infant and maternal mortality rates for women and infants of color¹⁹.

Addressing Housing Insecurity

- Pregnant women who have housing instability or poor quality of housing are at increased risk of poor infant and birth outcomes²¹.
- Compared to the top 100 evicting large cities, Fort Wayne, Indianapolis, and South Bend are ranked as 13th, 14th, and 18th in the country²².
- In 2021, Marion County had the highest recorded number of people experiencing homelessness in a decade²³ with an average of 250 pregnant women experiencing homelessness in the county from 2017-2021.
- In 2020, over half of the 78 recorded infant deaths reviewed in Marion County had housing-related stressors.

Policy Action Asks from the Pregnant Hoosier Community

- Increased public transportation options.
- Effective efforts to address domestic violence.
- Creation of workplace environments that are sensitive to pregnancy and infant parenting.
- Improved access to affordable childcare.

Current Indiana Initiatives

Housing Equity for Infant Health in Indianapolis, IN

- The initiative provides rental assistance, housing navigation, and case management to effectively reduce infant mortality and other poor birth outcomes.
- Women will also receive a health-justice intervention, including education, strategic litigation, and legal analysis, that has previously been successful at stabilizing housing and utilities for families as well as increasing families' ability and access for infant wellbeing.

Senate Enrolled Act No. 416

- Effective July 1st, 2019, Gov. Eric Holcomb signed legislation to extend Medicaid coverage for doulas. However, funding for the doula Medicaid expansion has since been pulled²⁴.
- Doulas provide support to pregnant women and can both help to counteract the negative effects of the social determinants of health²⁵ and can provide potential cost savings by reducing poor birth outcomes²⁶.

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Appendix: Seminar Presentations

Understanding Social Determinants of Infant and Maternal Mortality in Indiana

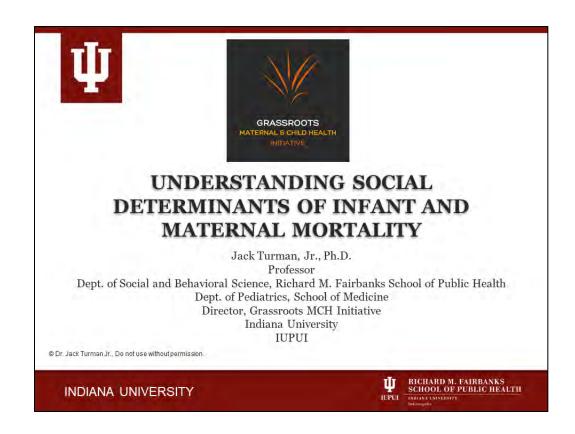
Jack E. Turman, Jr., PhD

Professor, Interim Chair, Social and Behavioral Sciences

Richard M. Fairbanks School of Public Health, IUPUI

Dr. Jack Turman, Jr., has dedicated his career to building community-based participatory programs to improve maternal and child health outcomes. He received his Ph.D. at UCLA conducting neuroscience research, completed a fellowship at the UCLA Medical School in Child and Adolescent Psychiatry, and then went on to serve as a faculty member for 15 years at the University of Southern California, where he ran the perinatal neuroscience research laboratory and directed the Center for Premature Infant Health and Development.

After UCLA, he became a program director at the University of Nebraska Medical Center, where he founded and directed The Connections Project, a community-based program to improve birth and infant development outcomes in Omaha's African American community. Dr. Turman then came to Indiana State University where he served three years as the Dean of the College of Health and Human Services, where he was also a fellow in the National Leadership Academy for the Public's Health. He led programming to address poor birth outcomes in the Wabash Valley and then led the team that created the smartphone application, Mom 101, to promote preconception, prenatal and postpartum health.





What do High Infant and Maternal Mortality Rates Tell Us

- Infant and material mortality are critical indicators of population health
 - Health
 - · Social stability
 - · Well-being



https://www.the-scientist.com/speaking-of-science/speaking-of-science-41544





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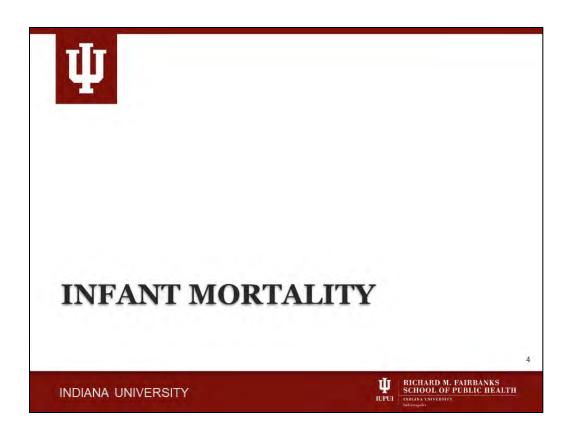
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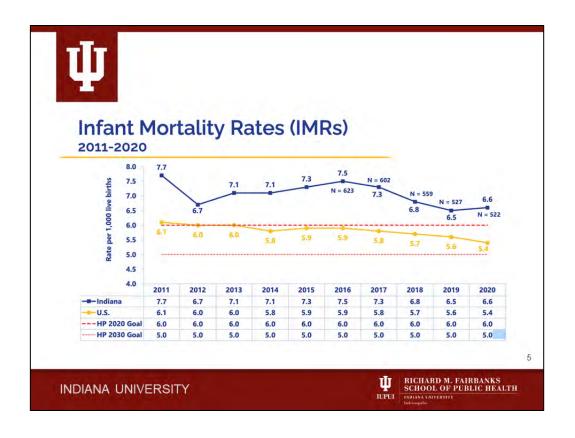
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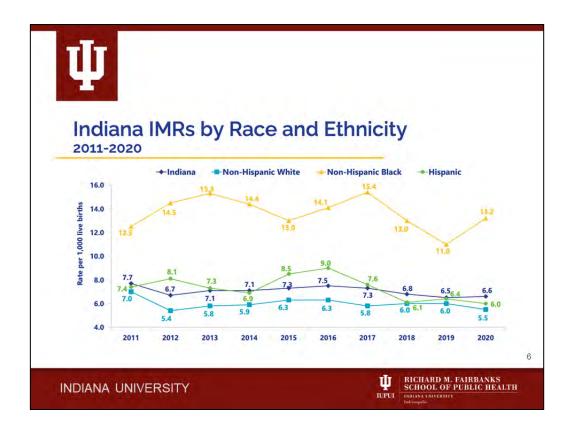
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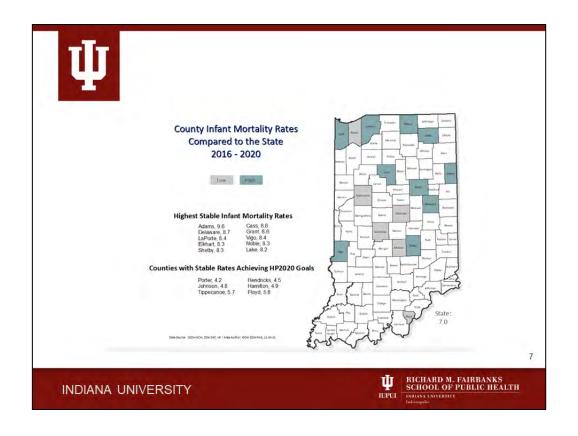


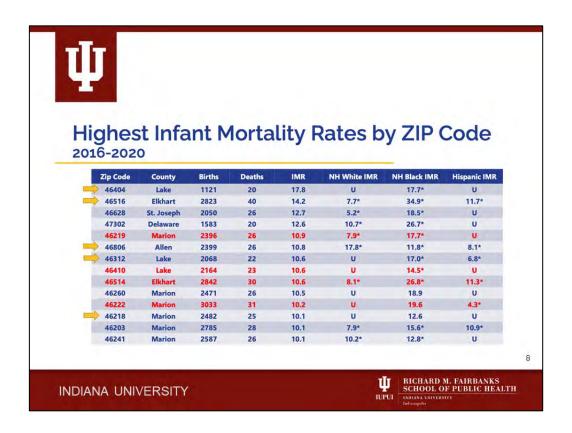
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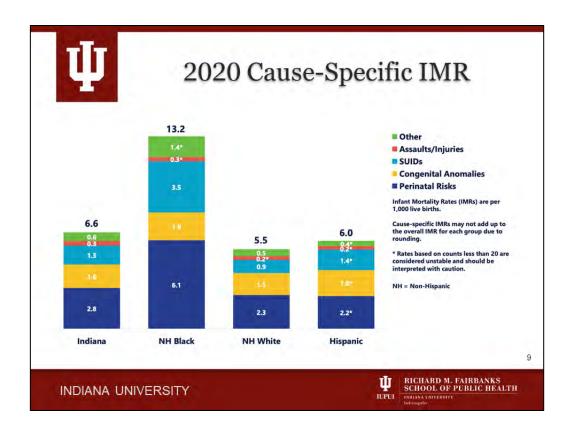














2020 Birth Outcomes by Race/Ethnicity

10.4%	14.7%	0.00/	
0 10/		9.8%	9.8%
0.170	14.2%	7.2%	7.1%
1.4%	3.1%	1.1%	1.3%
18.0%	26.7%	17.0%	14.8%
30.7%	43.7%	25.9%	44.9%
10.9%	7.8%	13.2%	2.7%
38.5%	61.7%	30.5%	62.6%
F 201	8.4%	4.4%	8.7%
	30.7% 10.9%	30.7% 43.7% 10.9% 7.8% 38.5% 61.7%	30.7% 43.7% 25.9% 10.9% 7.8% 13.2% 38.5% 61.7% 30.5%

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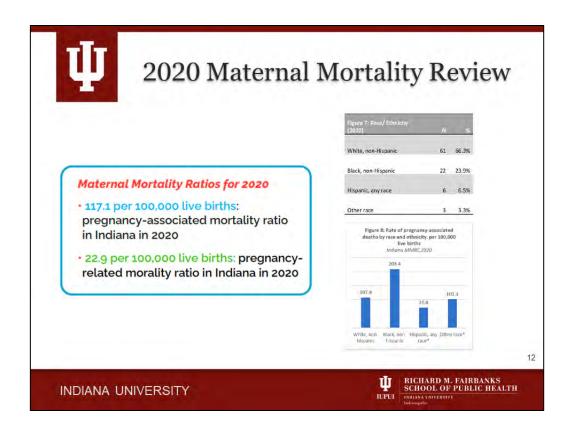
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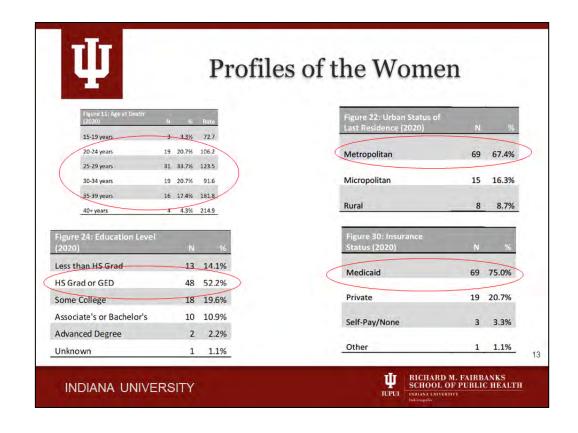
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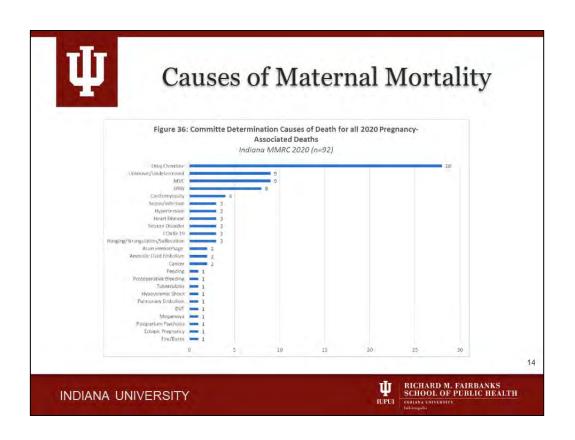
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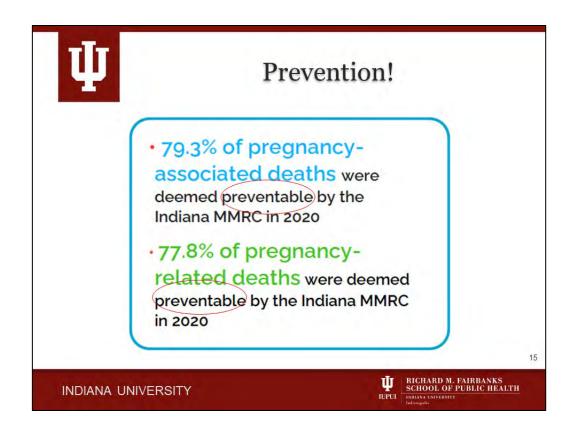


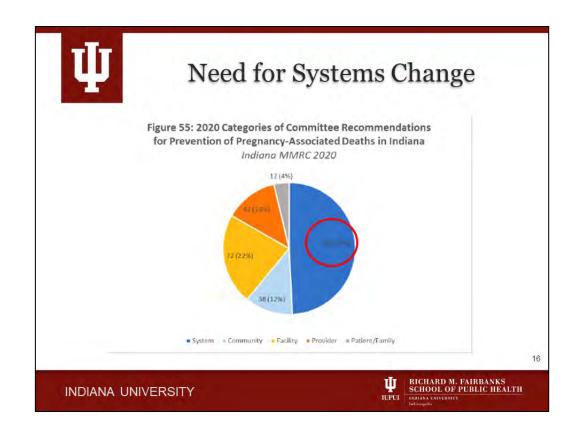
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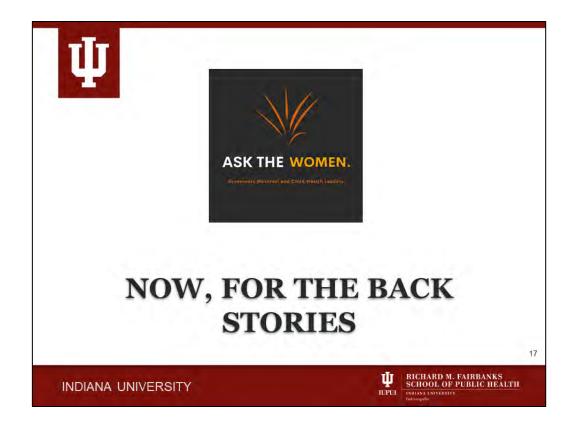














MOVING FORWARD WITH SOLUTIONS

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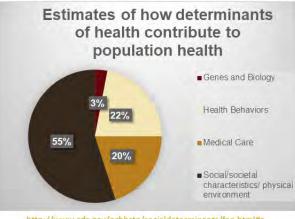


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The Need to Address Social Factors Surrounding the Families



http://www.cdc.gov/nchhstp/socialdeterminants/faq.html#c

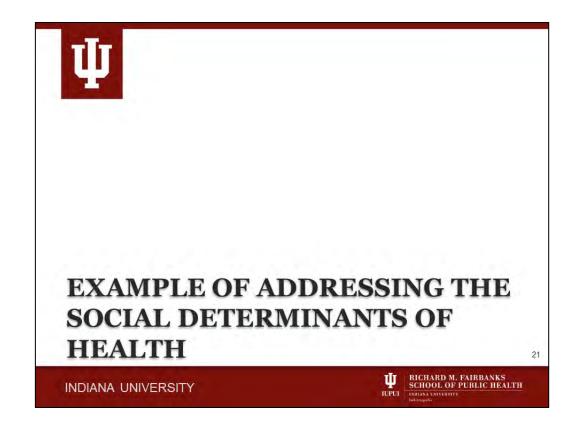
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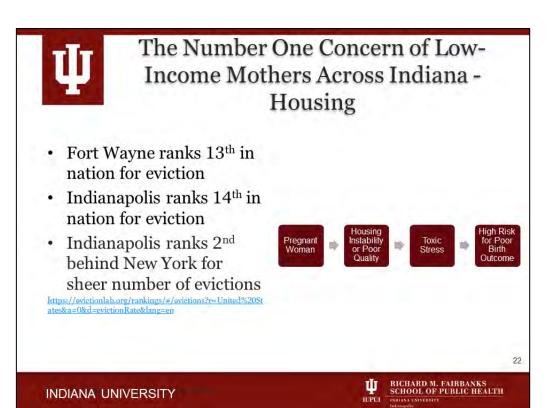
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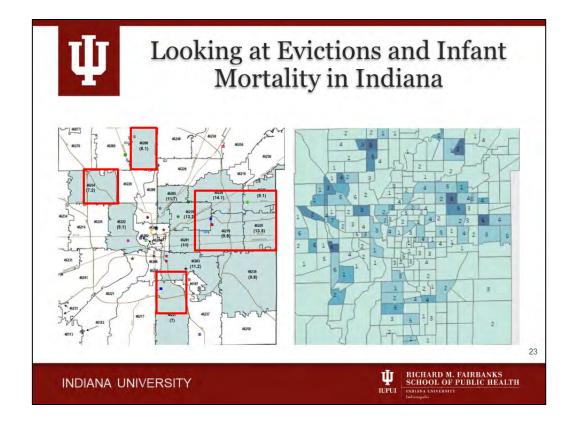
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A Winter's Night in Marion County - 2021 and 2022

2021

- Highest number of homeless individuals in 10 years
- 54% were Black or Hispanic
- 33% Women

2022



You'll soon start seeing striking images like this on sidewalks across Indianapolis, as part of a campaign to raise awareness about homelessness. Courtesy Wheeler Mission

Wheeler Mission https://www.indystar.com/story/sponsor-story/wheeler-mission/2018/07/18/wheeler-new-face-homelessness/774509002/

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Homeless and Pregnant, Homeless and Parenting



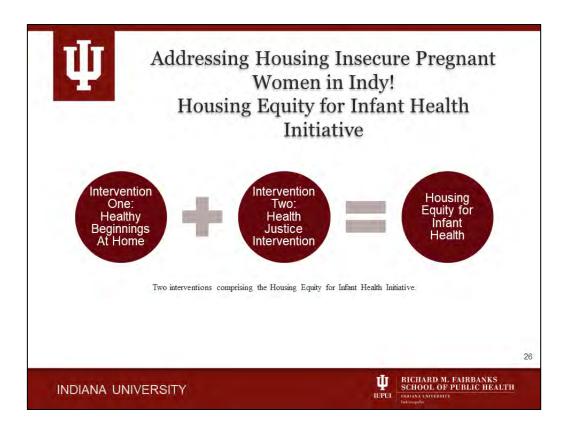
- On average, more than 250 pregnant women and their infants experience homelessness in Marion County between 2017-2021
- In 2020, of 78 infant deaths reviewed by Marion County FIMR – more than half had housing related stressors.

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Housing Equity for Infant Health Initiative: Healthy Beginnings at Home

Intervention shown to reduce infant mortality, preterm birth, NICU stays, Medicaid spending in Ohio – CareSource.

Components

Housing unstable pregnant women in 1st or 2nd trimester in Indy.

- Rental assistance for 24 months (tapered in last 9 months)
- Housing Navigation
- Case Management

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Housing Equity for Infant Health Health Justice Intervention

Health-justice interventions demonstrate

- Systems-level impact by:
 Identifying patterns in the social needs of vulnerable populations
 Leveraging legal expertise to change policies, laws, and regulations to improve their health and social outcomes. and social outcomes.

Previous health-justice interventions

- Successfully stabilized housing for vulnerable families
- Increased families' abilities to participate in infant well-care
- Prevented utility shut-offs for families with vulnerable children
- Increased access to nutritional supports for

Components

Education

Know your rights materials and presentations.

Strategic Litigation

- Filing appeals of evictions; enforcing lease and Indiana habitability rules.
- Filing amicus legal briefs.

Legal analysis

- Research and evaluation of Indiana eviction laws and processes.
- Comparative analysis with other states.
- Court rule analysis and amendments.

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Some Final Thoughts About Policy Action.... Based on the Voices of Indiana Women Living in High-Risk Zip Codes



Affordable Housing
Public Transportation
Options
Help Address Domestic
Violence
Workplace Space
Sensitive to Pregnancy
and Infant Parenting
Access to Affordable
Childcare

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To Learn More

Contact:

- Jack Turman, Jr., Ph.D., Director, (jaturman@iu.edu)
- 2022 APHA Thought Leadership Series Film: APHA TV Turman Film:

https://www.youtube.com/watch?v=RRE0W3jquwM&list=PL9CZabk3nD4HBRBttLBd4-KWgilWKPctl&index=17

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Reducing Infant Mortality through Cradle Cincinnati

James M. Greenberg, MD

Co-Director, Perinatal Institute; Professor, Department of Pediatrics, Division of Neonatology Co-Director, Science of Light Center; Lead Physician Executive, Critical Care Building/Master Planning Cincinnati Children's Hospital Medical Center University of Cincinnati College of Medicine

Dr. James Greenberg serves as Co-Director of the Perinatal Institute at Cincinnati Children's Hospital Medical Center, leading one of the largest comprehensive clinical and academic programs for newborn care in the United States. He has been an active faculty clinician, researcher, leader, and teacher at Cincinnati Children's for over 30 years. He also serves as Lead Physician Executive overseeing construction of the Cincinnati Children's Critical Care Building, and recently co-founded the Cincinnati Children's Science of Light Center.

His current research interests include neonatal epidemiology, prevention of preterm birth, and the environment of care in the NICU. His current work seeks to understand how variables, such as race and place of residence, translate into biomedical events such as preterm birth, and understand how environmental variables such as ambient light affect NICU outcomes. He has authored over 80 original research articles, and 12 textbook chapters.

Reducing Infant Mortality Through Cradle Cincinnati

James M. Greenberg, MD
Co-founder, Cradle Cincinnati
Co-director, Perinatal Institute
Professor of Pediatrics
Cincinnati Children's Hospital Medical Center
University of Cincinnati College of Medicine





Infant Mortality is a Wicked Problem

· Tame: a problem you can solve

VS.

- Wicked (malignant/risky/tricky/aggressive): a problem you can work at
- · Wicked problems:
 - Lack a common definition
 - Require continuous (endless) attention
 - No single solution (bad/better/best)
 - Difficult to validate solutions





.2

Infant Mortality is a Wicked Problem

- Controlled trial and error is risky/impossible
- The value of previous knowledge is limited
- Are characterized by a more desired future state
- Those who attempt to solve wicked problems are open to criticism if they are "wrong"





What is <u>made (monnate</u>?

- Co-Founded with Elizabeth Kelly, MD, MPH, Executive Vice Chair, Department of Obstetrics and Gynecology, UCCOM in 2013 as a collective impact collaborative to eliminate infant mortality in Hamilton County OH
- Response to excess infant morality in metropolitan Cincinnati
- Housed within the Perinatal Institute at the Cincinnati Children's Research Foundation/Cincinnati Children's Hospital Medical Center



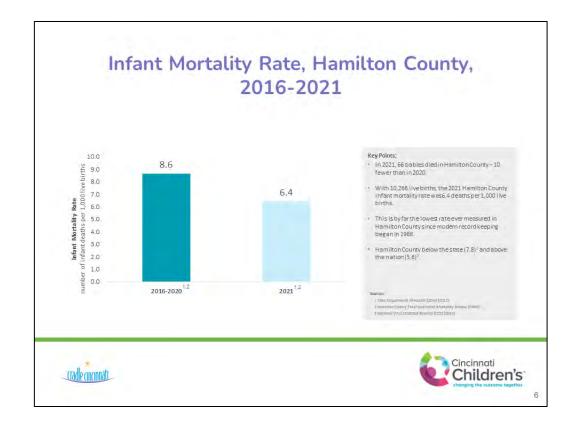




- Budget
 - Annual: \$4.5M
 - Public (federal, state, local)
 - Maternal Health Centers
 - Philanthropy
 - Direct service
 - Data
 - Communication/Outreach/Advocacy







"Questions"

- · What did you do?
- · How did you do it?
- · What are your interventions?
- We want to do this in (insert location/organization here). Can you help us get started?





_

"Answers"

- · Specifics are important
- · But not necessarily relevant
- · Context is key: "All politics is local"

But there are generalizable concepts





8

1. Choose a Framework

- Infant Mortality is a wicked problem
- Collective Impact: a framework for wicked problems
 - Common agenda
 - Shared measurement
 - Mutually reinforcing activities
 - Continuous communication
 - Backbone organization
- Cradle Cincinnati June, 2013
- · www.cradlecincinnati.org



Channeling Change: Making Collective Impact Work

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2. Define the Primary Outcome

- The single variable that you will use to judge success.
- Measurable
- Easily understood
- Matters to all stakeholders





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Infant Mortality!

- Among standard public health metrics, infant mortality is considered the "canary in the coal mine" as a measure of overall community wellbeing.
- Deaths per 1,000 live births in a specific geographic location
- "Live birth" in Indiana:
 - Evidence of live outside the womb
 - Breathing/gasping, heart action, movement of skeletal muscles
- Counted until first birthday
- · Counted at Mom's home address





3. Define the Geography

- · High incidence
- · Reliable and sustainable measurement
- · Minimal contamination
- · Hamilton County OH
 - 10,200 live births/year
 - 2007: 120 infant deaths
 - Two major public health department jurisdictions





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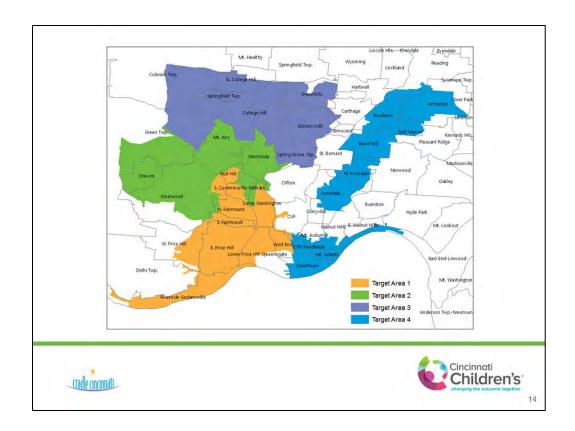
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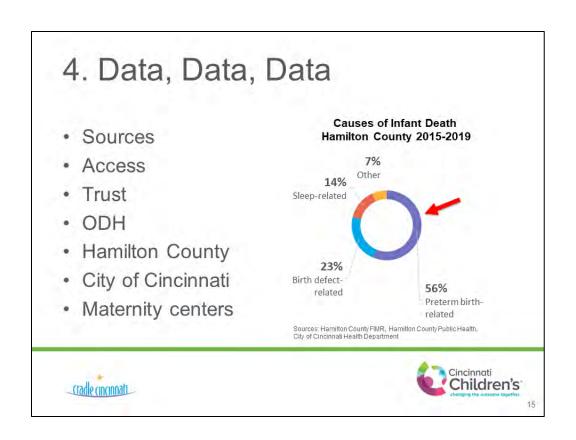






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5. Translate Theory Into Action

• Theory (preterm birth):







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A. Strategy

- · Community-driven!
- · Is it effective?
 - Published evidence/Plausibility
 - Learning from others
- · Will it matter?
- · Is it feasible?
 - Cost
 - Time
- · Is it measurable?





B. Tactics

Community-driven!

- The "3 S's"
 - Smoking
 - Spacing
 - Sleep

- Smoking
- · Spacing
- · Sleep
- · Equity





6. Avoid Well-Intended Distractions

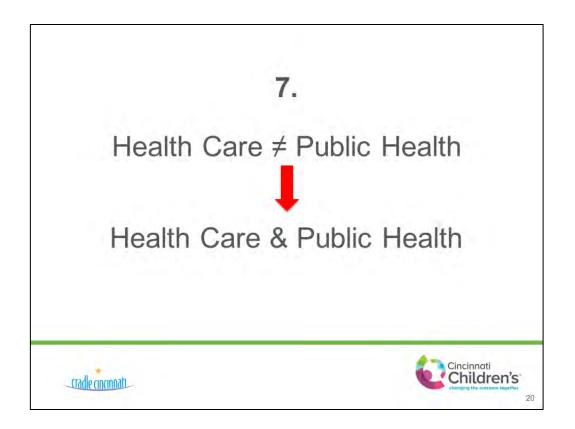
- Impact on IMR:
 - Poverty
 - Education
 - Housing
 - Breast feeding
 - Parent support/Home visiting
 - Infant vaccination





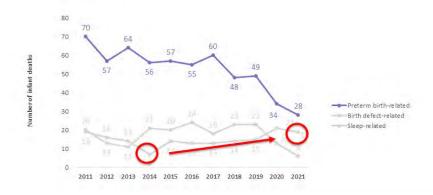


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A Few Final Thoughts

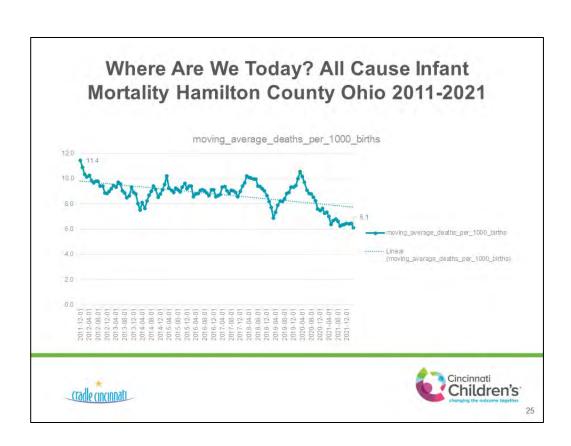
- This is not easy work (IM is a wicked problem)
- Focus
- Persistence
- · Systems thinking
- Equity-the racial disparity of infant mortality

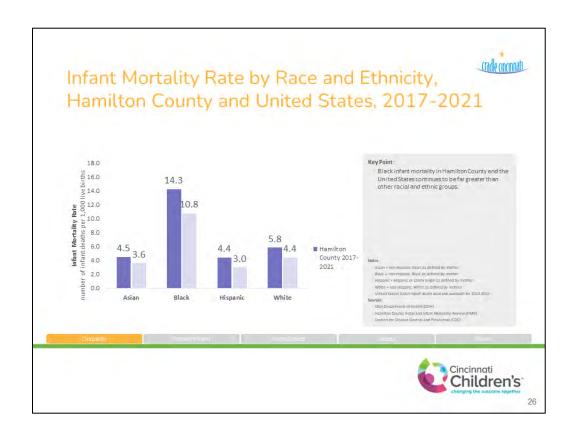


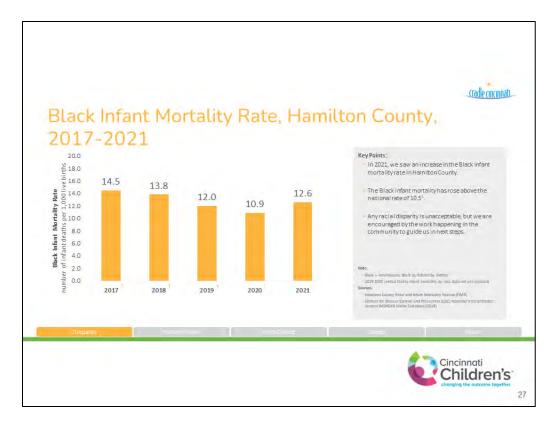


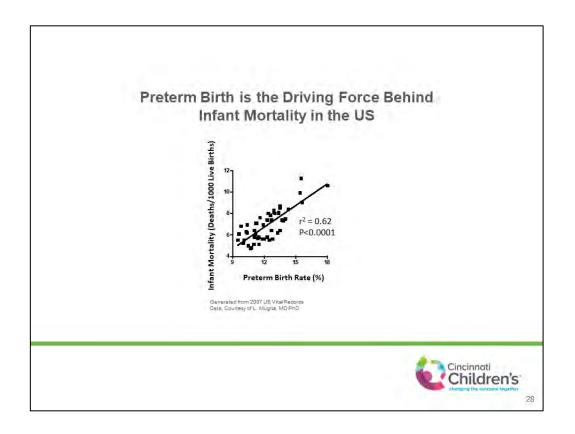
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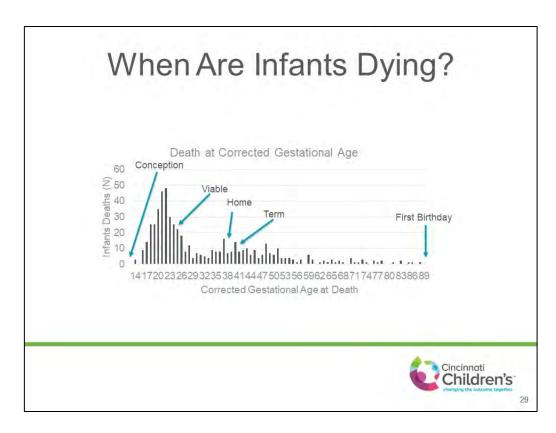


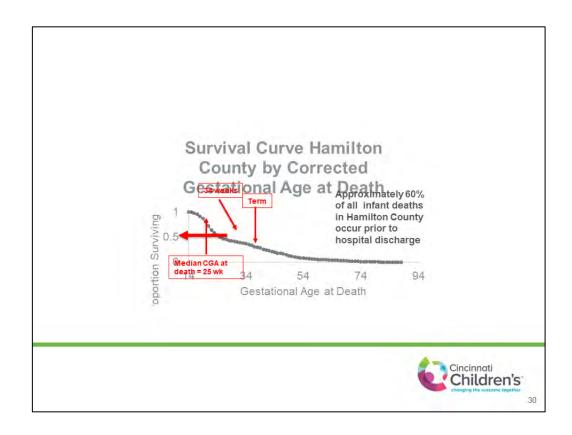


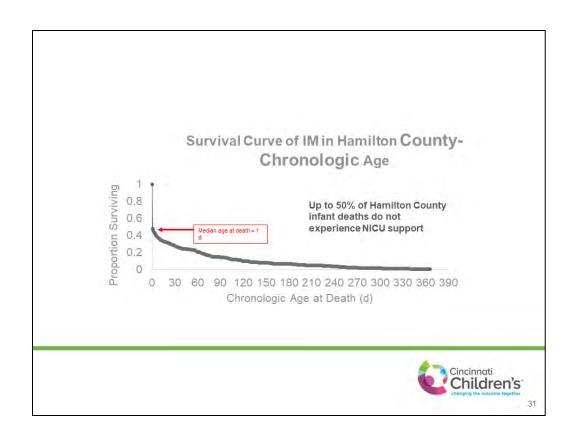












Social Determinants

Mever et al 2021 SMFN

- Prospective cohort nested case control study
- 261 Non-Hispanic Black postpartum women
- 14.5% preterm birth
- Significantly less social/emotional/financial support
- · Diminished resilience
- · Substandard housing, food insecurity

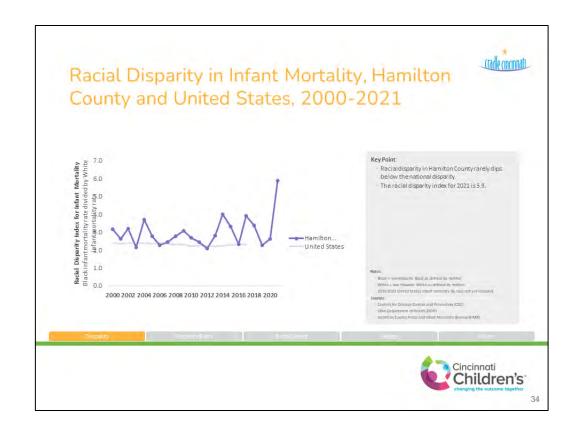


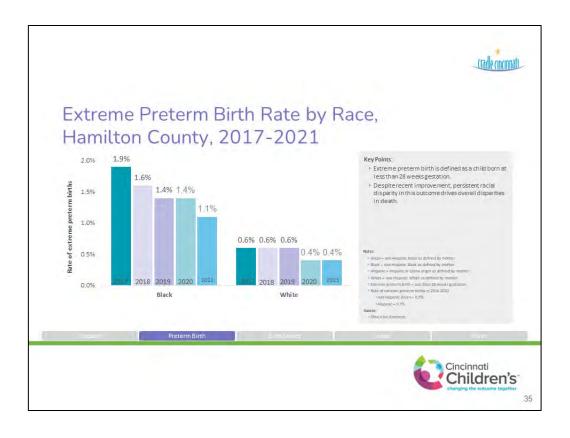
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Designing Direct Service

- Wraparound model
- Emphasis on trust
- Linking health care and community (public) health
- Care delivered by community health workers
- Focus on Black Women in 12 geographic zones







where research meets family policy

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