Legislative Service Commission social determinants of infant mortality

Project update for Commission on Infant Mortality October 11, 2017



HPIO mission

To provide the independent and nonpartisan analysis needed to create evidence-informed state health policy.

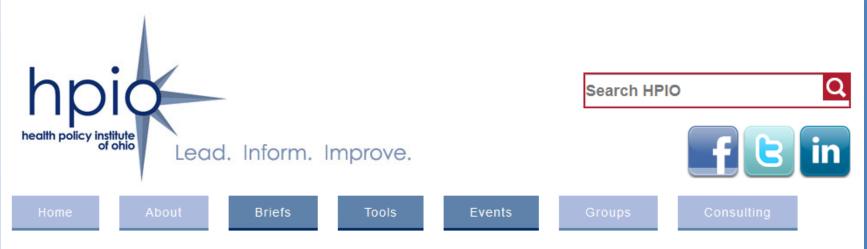


Timeline and deliverables

Deliverable/activity	May	June	July	Aug	Sept	Oct	Nov	Dec
Recruit and convene stakeholder groups		6/28 AG meeting		8/17 AG meeting 8/23 HS meeting	9/14 AG meeting 9/21 HS meeting	10/17 AG meeting		
Most improved state research and Dashboard analysis								
Literature review and environmental scan: Housing, transportation, employment, education — including focus on rental assistance program								
Inventory of evidence-informed SDOH strategies								
Development and prioritization of recommendations								
Final report							Draft	Final report due Dec. 1

AG= Advisory Group

HS= Housing Subcommittee



Health Policy Institute of Ohio > Social Determinants of Infant Mortality Advisory Group

Social Determinants of Infant Mortality Advisory Group

After a competitive selection process, the Legislative Service Commission (LSC) contracted with the Health Policy Institute of Ohio to study the social determinants of health and infant mortality. As a part of this project, HPIO is convening an advisory group that will contribute content expertise, provide feedback on preliminary findings and make recommendations for policy changes to improve the social, economic and physical environments that impact maternal and infant health.

The requirement for LSC to contract with a nonprofit entity to study and make recommendations related to the social determinants of infant mortality was included in **Senate Bill 332** (sponsored by Senators Jones and Tavares). SB 332 was enacted by the Ohio General Assembly in late 2016 and signed by Governor Kasich in early 2017.

HPIO will complete a report for this project by Dec. 1, 2017.

Click here to see advisory group members

Advisory group meetings

All meeting material will be posted as it becomes available

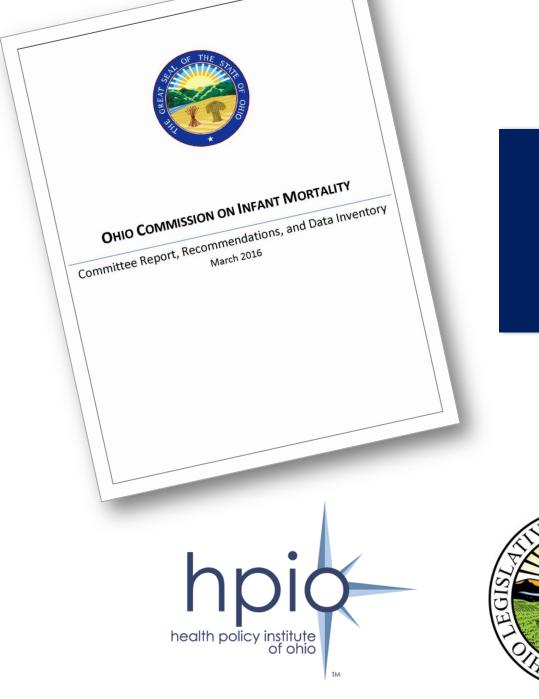
Objectives

- Background and purpose
- Stakeholder engagement and key concepts
- Progress on timeline and deliverables
 - Most-improved states (case studies)
 - Literature reviews and environmental scans
 - Policy recommendation development process

Objectives

Background and purpose

- Stakeholder engagement and key concepts
- Progress on timeline and deliverables



Senate Bill 332



SB 332 requirements

- 1. Review of policies and programs: housing, transportation, education, employment
- 2. Identify opportunities to improve policies and programs
- 3. Study impact of state-funded rental assistance program
- 4. Evaluate best practices from other states

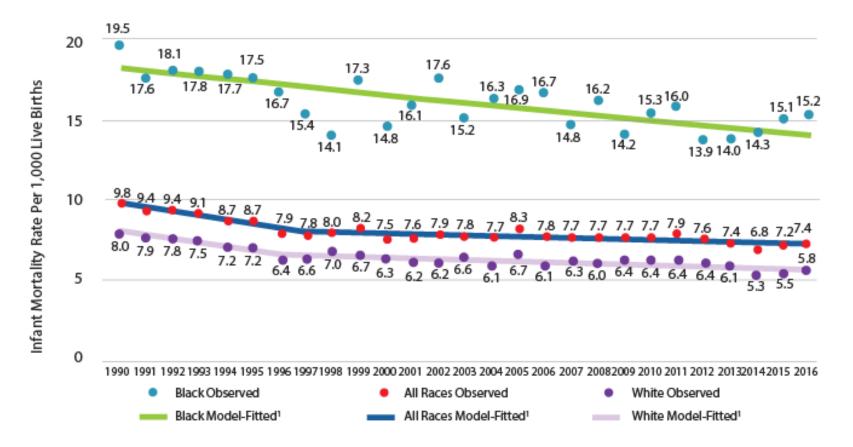
States with highest <u>overall</u> infant mortality rate, 2012-2014 (pooled)

Source: Preliminary analysis of Linked Birth/Infant Death Records 2005-2014 via CDC WONDER

States with highest <u>Non-Hispanic black</u> infant mortality rate, 2012-2014 (pooled)

Source: Preliminary analysis of Linked Birth/Infant Death Records 2005-2014 via CDC WONDER Copyright © 2017 Health Policy Institute of Ohio. All rights reserved.

Trends in Ohio infant mortality rates, by race (1990-2016)



Source: Ohio Department Of Health, Bureau Of Vital Statistics.

¹ "Model-Fitted" Definition – Joinpoint software models were used to test the statistical significance of changes in trends. For each group the best fitting trend lines are presented. A change in trend was observed for all races infant mortality in 1996 and for white mortality in 1997. No change in trend was detected for black infant mortality.

"The Commission recognized that improving the social determinants of health is critical to improving birth outcomes but did not have enough time to delve into these multisystem issues."

-Ohio Commission in Infant Mortality, March 2016

Objectives

- Background and purpose
 Stakeholder engagement and key concepts
- Progress on timeline and deliverables

Stakeholder engagement

Steering Committee (~ 10 participants)

Social Determinants of Infant Mortality Advisory Group (~100 participants)

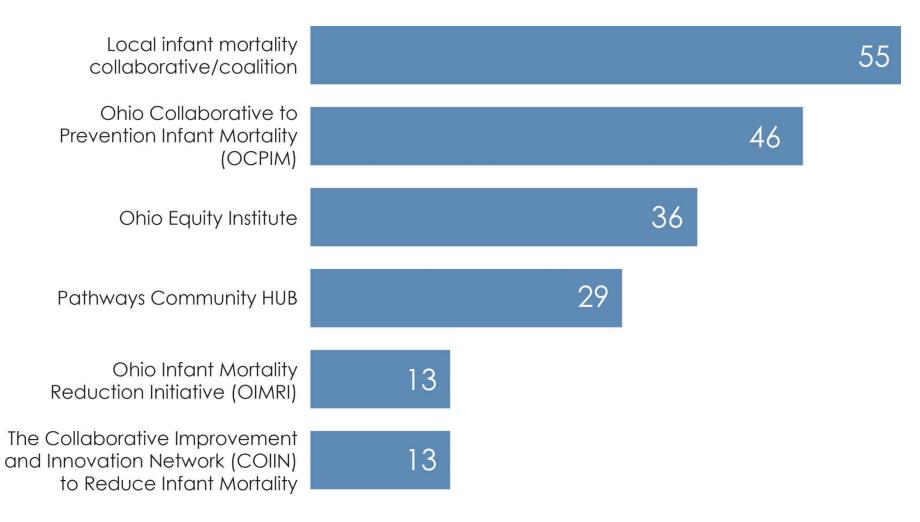
Housing Subcommittee (~ 12 participants)

Copyright © 2017 Health Policy Institute of Ohio. All rights reserved.

Advisory Group: Sectors As of 8/11/17

Advocacy (22)	Local health department (17)	State agency (14)	Housing (16)
Provider/clinician (12)	Hospital/health system (13)	Researcher/ academic (11)	Social service provider (10)
Community/ economic development (12)	Health plan/private insurer/managed care (6)	Grassroots/ consumer group (5)	Transportation/ regional planning (6)
Education/job training (4)	Child care (4)	Employment services/income (2)	Business (2)

Advisory Group: Involvement with infant mortality initiatives As of 6/22/17





Meetings:

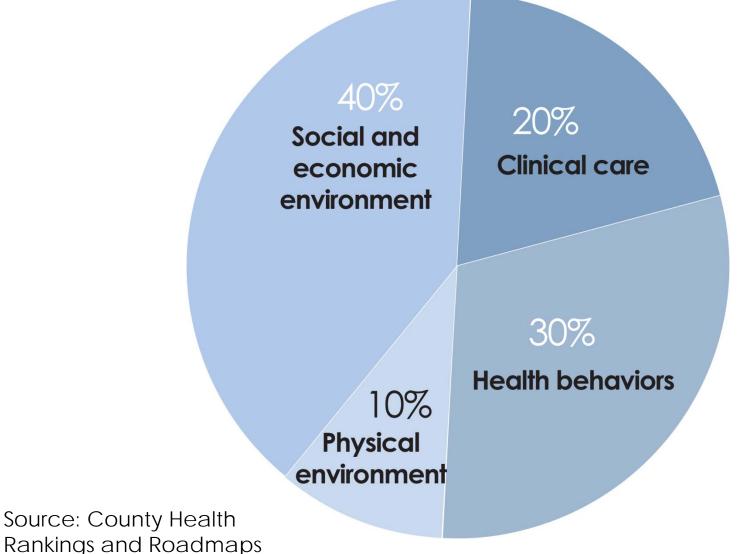
- Advisory Group: 4
- Housing
 Subcommittee: 2
- Steering Committee: 3



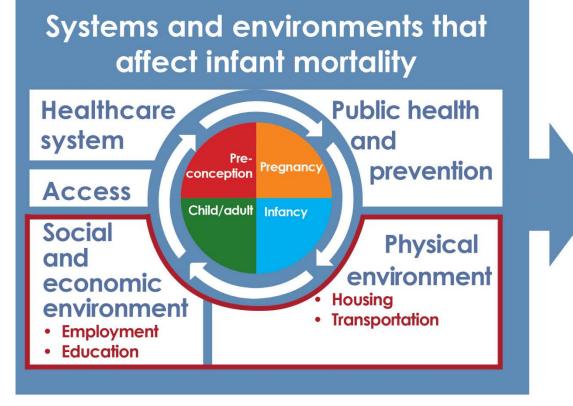
Key concepts

- 1. Beyond medical care
- 2. Health equity and priority populations
- 3. Life course perspective
- 4. Social ecological model
- 5. Policy relevance

Factors that impact health



Copyright © 2017 Health Policy Institute of Ohio. All rights reserved



Leading causes of infant mortality

- Preterm birth
- Low birth weight
- Birth defects
- Sudden unexplained infant death (including Sudden Infant Death Syndrome and sleep-related deaths)
- Accidents and injuries (including abusive head trauma)
- Maternal complications of pregnancy

Goals

- Reduce infant mortality
- Reduce and eliminate disparities and achieve equity

Infant mortality

- Neonatal
- mortalityPostneonatal
- mortality

"Health is about more than health care, and the same is true for health equity."

> -Steven H. Woolf Health Affairs, June 2017

Health inequities, disparities and equity

Health inequities

Disparities in rates due to differences in the distribution of social, economic, environmental or healthcare resources*

Health disparities differences in health status

among segments of the population such as by race or ethnicity, education, income or disability status

Health equity

*Working definition from the CDC Health Equity Working Group, October 2007

Copyright © 2017 Health Policy Institute of Ohio. All rights reserved.

Priority populations

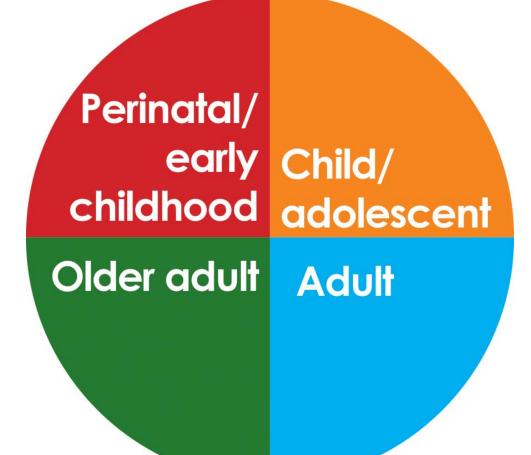
Groups of Ohioans most at risk for infant mortality:

- African Americans
- People with low levels of educational attainment
- People with low income
- Residents of infant mortality "hot spot" communities

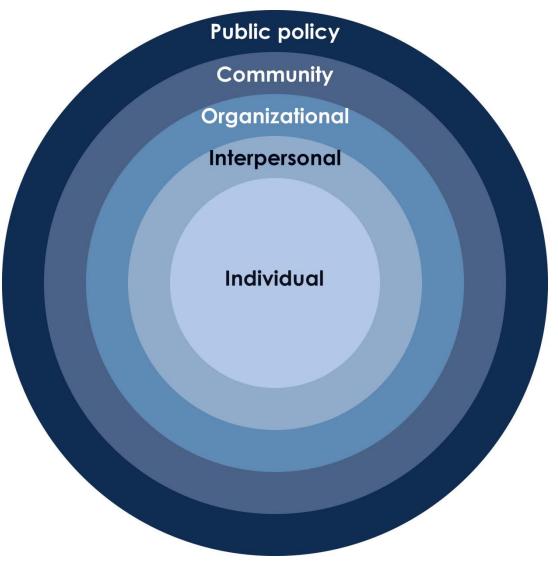
• Pregnant women and parents of infants

• People of childbearing age

Life course perspective



Social ecological model





Individual

Focus on state-level policy

Relevance to state policymakers

A P

C

Objectives

- Background and purpose
- Stakeholder engagement and key concepts
- Progress on timeline and deliverables

Timeline and deliverables

Deliverable/activity	May	June	July	Aug	Sept	Oct	Nov	Dec
Recruit and convene stakeholder groups		6/28 AG meeting		8/17 AG meeting 8/23 HS	9/14 AG meeting 9/21 HS	10/17 AG meeting		
Most improved state research and Dashboard analysis				meeting	meeting			
Literature review and environmental scan: Housing, transportation, employment, education — including focus on rental assistance program								
Inventory of evidence-informed SDOH strategies								
Development and prioritization of recommendations								
Final report							Draft	Final report due Dec. 1

Sources of information

Most improved state research

- State-level trend data analysis to identify mostimproved states, including most improved for black infant mortality
- Literature review, document review and keyinformant interviews to identify how other states improved

Literature review and environmental

scan

- Summarize research literature
 Focus on housing, transportation, employment, education
 - ✓ Describe existing programs and policies in Ohio

Health Value Dashboard data

 Analysis to identify strongest drivers of infant mortality from social, economic and physical environment

Stakeholder input

Inventory of evidence-informed SDOH strategies

- ✓ Systematic reviews, evidence registries and expert consensus reports
- ✓ Examples from other states

Most-improved states research

- 8 states
- Key-informant interviews
- Lessons learned and potential opportunities for Ohio

Selection criteria

1. States with data available for Black infant mortality (34 states including DC)

And at least one of the following: Most improvement from 2005-07 to 2012-2014 (top 10).....

2. Overall infant mortality rate reduction Statistically significant 3. Non-Hispanic Black infant mortality rate reduction Statistically significant 4. Black-White disparity reduction Among states with significant reductions for all groups

Selection criteria

Available data

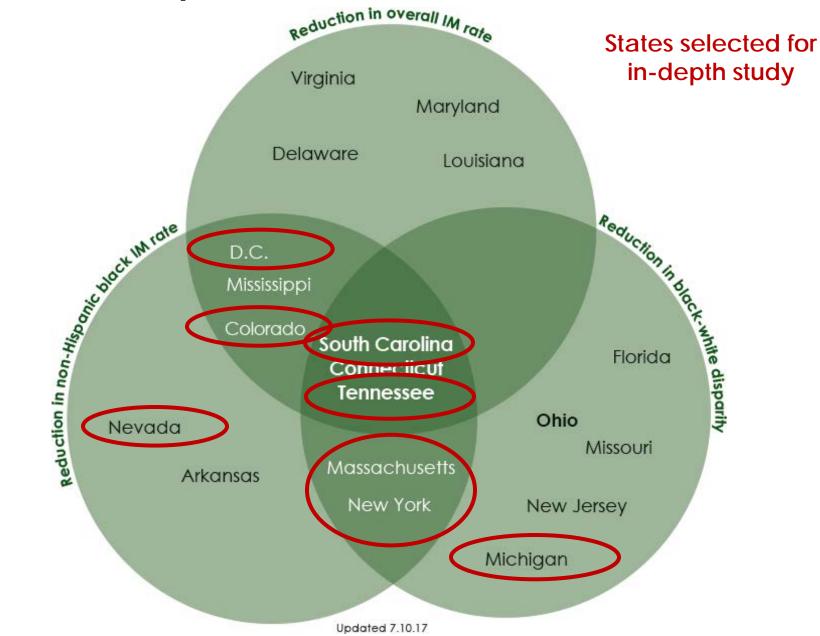
Biggest improvements in IM, Black IM, disparity

Indication of SDOH policies or programs; geographic balance



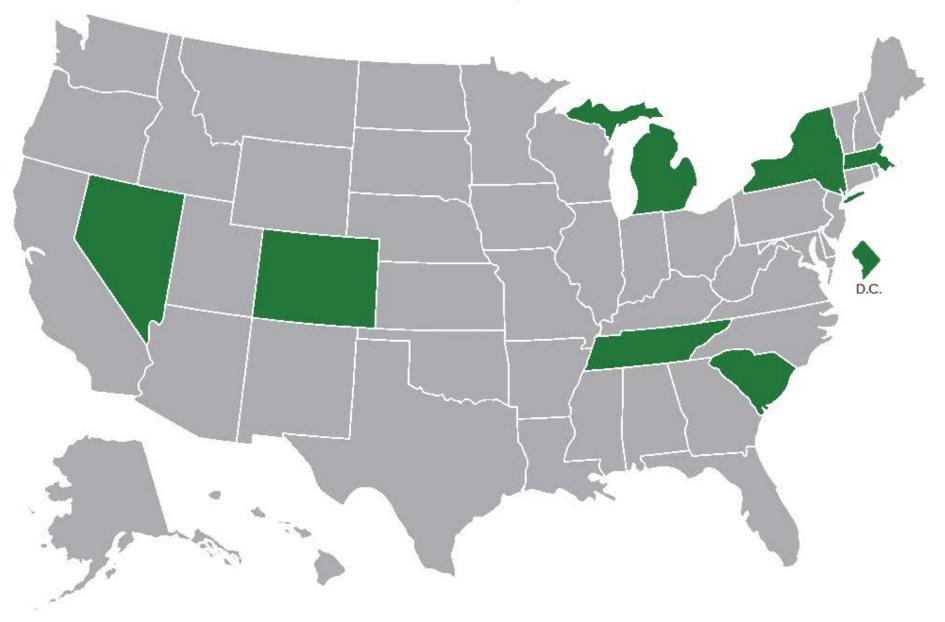
Copyright © 2017 Health Policy Institute of Ohio. All rights reserved.

Top 10 states for each criteria

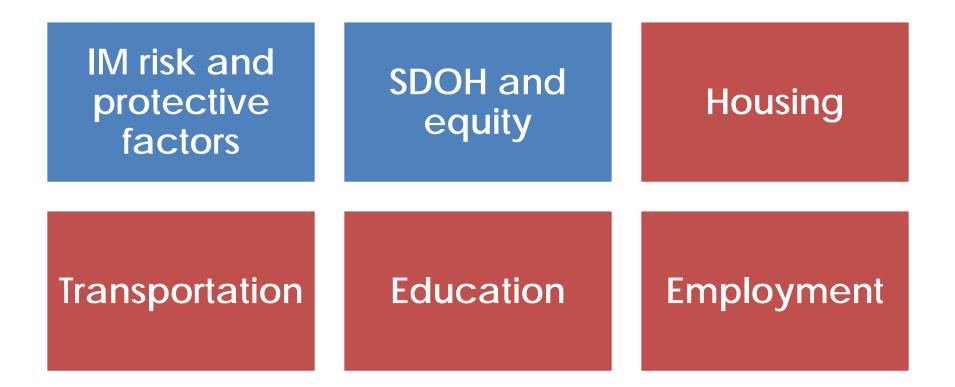


Copyright © 2017 Health Policy Institute of Ohio. All rights reserved.

Case study states



Literature reviews and environmental scans



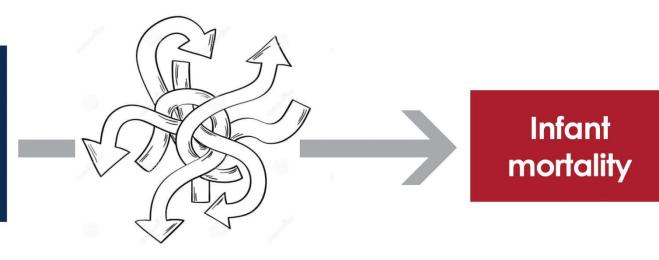
Copyright © 2017 Health Policy Institute of Ohio. All rights reserved.

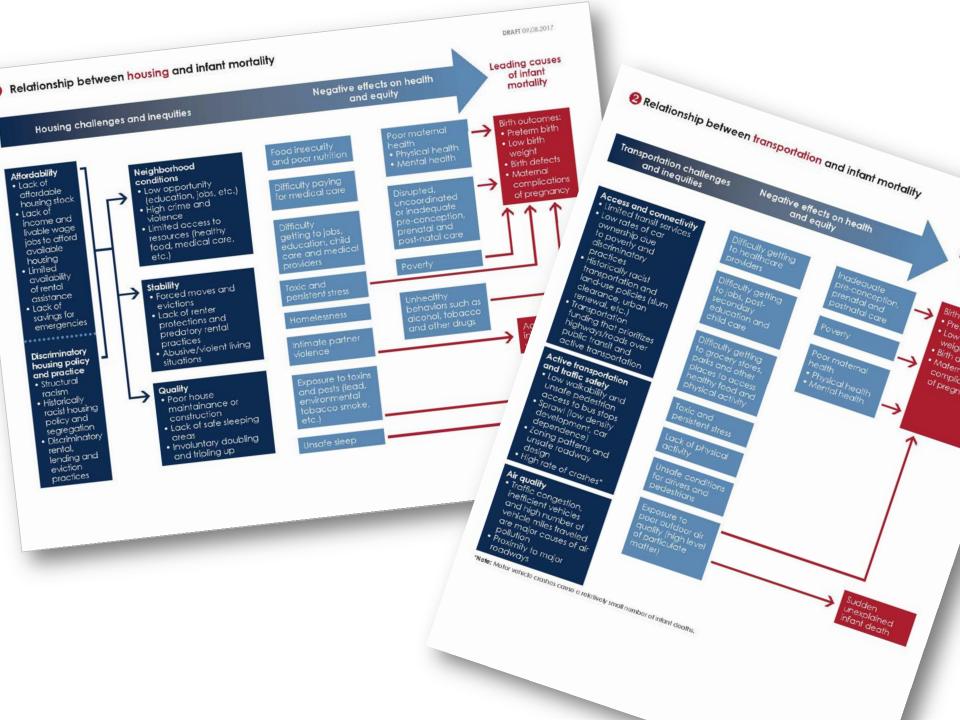
For each topic:

- 1. How does this affect infant mortality?
- 2. Scope of problem in Ohio
- 3. Policy landscape
- 4. Opportunities for improvement

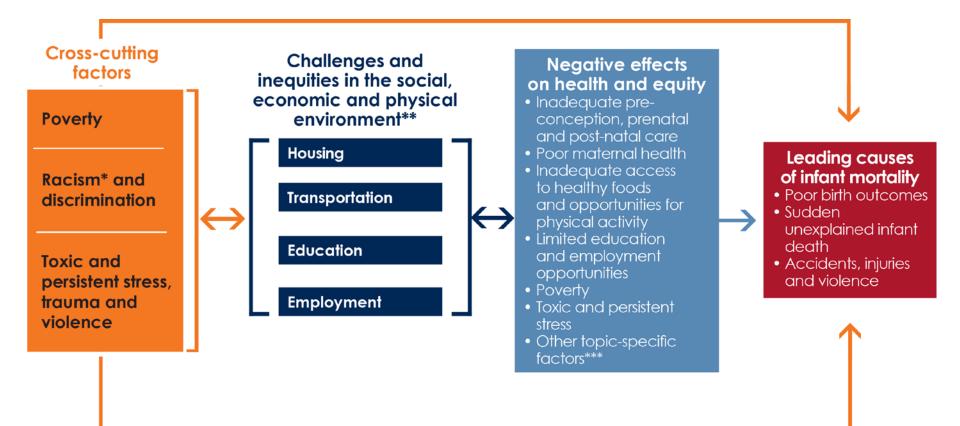


Housing Challenges and inequities





Summary of relationships between housing, transportation, education, employment and infant mortality



* Structural, institutional, interpersonal and internalized racism

** Topics specified for study by SB 332

*** See fiaures 2-5 for details



Housing policies and programs

Housing

- Improved housing
 - Affordability
 - Stability
 - Quality
- Decreased discriminatory housing policies and practices
- Improved neighborhood conditions

 Healthy mothers and

- babies
- Improved birth
 - outcomes
- Health equity





Transportation

Transportation policies and programs

Improved

- Access and connectivity, including public transit and NEMT
- Pedestrian safety
- Traffic safety
- Air quality



• Health equity

Policy recommendations

AL OF

H - 8

C

Policy recommendations will be informed by...

Inventory of evidencebased policies and programs (from evidence registries and systematic review)

Literature reviews

Most-improved state analysis

Suggestions and priorities from Advisory Group Policy recommendation development process
 ✓ Gather initial policy ideas through literature review and Advisory Group discussions

 Create evidence inventories for each topic

Share evidence inventories and initial draft recommendations as pre-read before Oct. 17 AG meeting

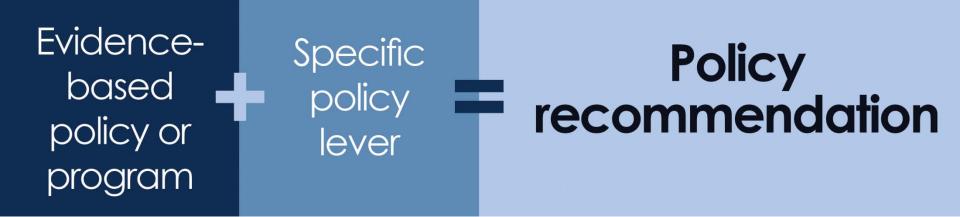
Policy recommendation development process, cont. Discuss and refine recommendations at Oct. 17 Advisory Group meeting Prioritization by Advisory Group via online survey (immediately after Oct. 17 meeting) □ Finalize recommendations (Oct.-Nov.)

Criteria for prioritizing policy recommendations

- Strength of evidence of effectiveness
- Relevance to the priority populations for infant mortality
- Potential size of impact on overall infant mortality rate and risk factors
- Potential size of impact on inequities and disparities
- Opportunities given current landscape and awareness of the problem in Ohio
- Short-term political feasibility (2 years)*

Effective policy recommendations are....

- Specific and actionable
- Directed at the decision-making authority that can implement the change
 - Legislative, executive or judicial branch
 - Federal, state or local
 - Public or private
- Evidence-informed
- Realistic within policy landscape





Questions

Copyright © 2017 Health Policy Institute of Ohio. All rights reserved.

Upcoming HPIO forum

Politics, perceptions and the role of evidence in policymaking

Thursday, Oct. 26, 2017 Sheraton Columbus Hotel at Capitol Square

Speakers include:

- •Ron Haskins, Co-Chair, Commission on Evidence-Based Policymaking and Brookings Institution
- Jennifer Haberkorn, Politico
- Aaron Sharockman, PolitiFact

For more information or to register, visit **WWW.hpio.net**

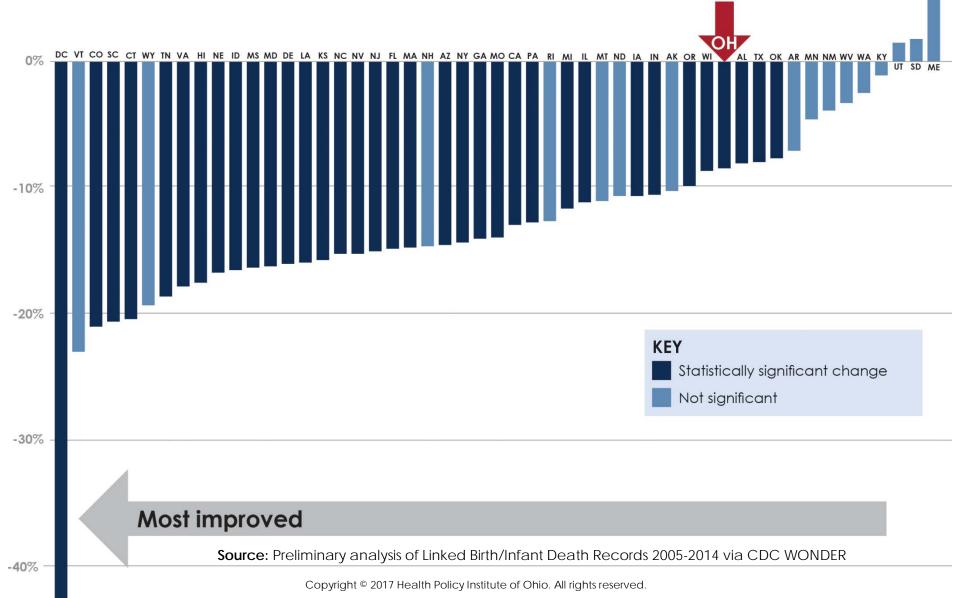


Amy Bush Stevens, MSW, MPH

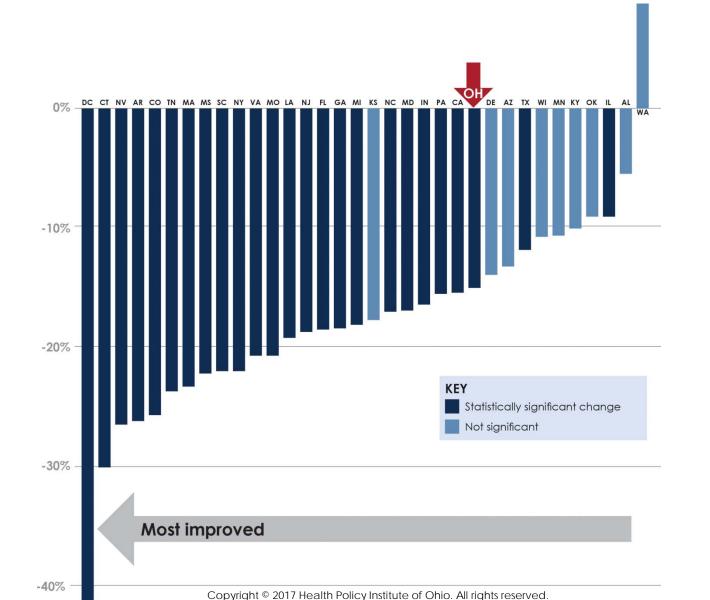
Health Policy Institute of Ohio astevens@healthpolicyohio.org

Copyright © 2017 Health Policy Institute of Ohio. All rights reserved.

Change in infant mortality rate, 2005-2007 to 2012-2014, by state



Change in <u>Non-Hispanic Black</u> infant mortality rate, 2005-2007 to 2012-2014, by state



Source: Preliminary analysis of Linked Birth/Infant Death Records 2005-2014 via CDC WONDER

