### Housing and Infant Mortality... Ohio data regarding Infant Death.

Arthur R. James MD, FACOG July 18, 2018

### **Infant Mortality:**

Definition: The death of any live born baby prior to his/her first birthday. "The most sensitive index we possess of social welfare "yulia lathrop, Children's Bureau, 1913



Slide prepared by R. Fournier RN, BSI State of Michigan FIMR Director

"Infant mortality
is a community
mirror, reflecting
our collective
capacity to
promote and
protect the health
and well-being of
our very youngest
and most
vulnerable."

Infant Mortality is:
----------------------

Multi-factorial. Rates reflect a society's commitment to the provision of:

1. High quality health care

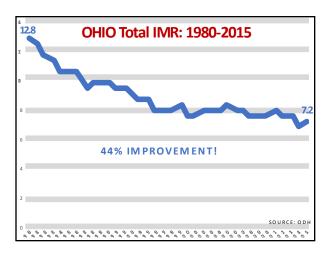
- \*Adequate food and good nutrition
- 3. \*Safe and stable housing
  4. \*A healthy psychological and physical environment
- 5. \*Sufficient income to prevent impoverishment

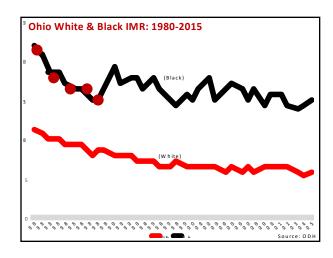
"As such, our ability to prevent infant deaths and to

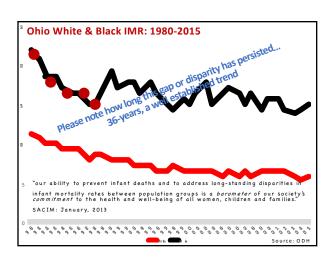
address long-standing disparities in infant mortality rates between population groups is a barometer of our society's commitment to the health and well-being of all women, children and families."

on-clinical measure

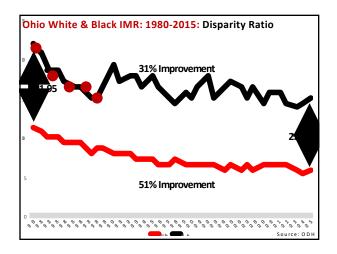
### **Ohio Infant Mortality Data:**

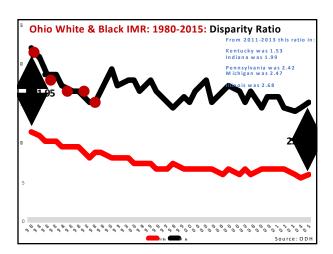




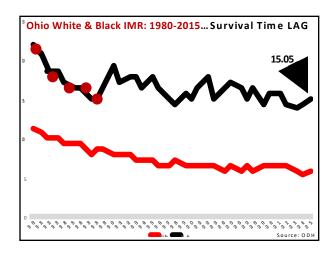


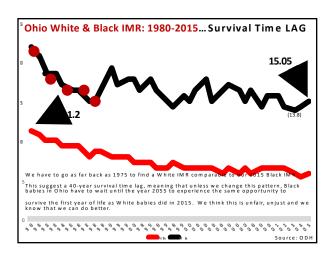
# Black to White Racial Disparity in Infant Mortality: 1. Disparity Ratio: Black infant deaths more than 2x that of Whites 2. Survival Time-lag between black and white infants 3. Healthy People: Infant deaths in reference to Healthy People Goals

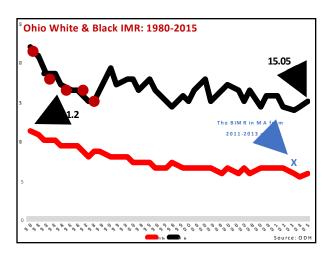


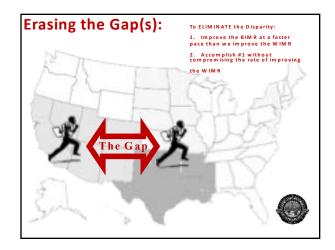


## Survival Time Lag:











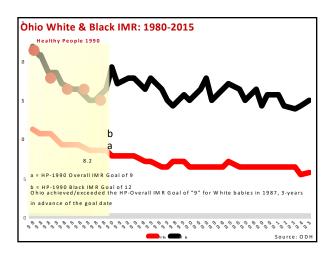
### Recent Declines in Infant Mortality in the **United States, 2005-2011**

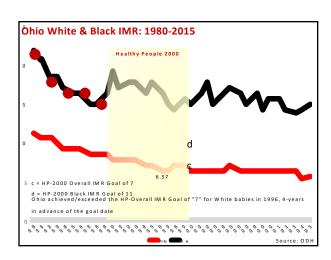
- Following a plateau, from 2000 through 2005, the US IMR declined 12% from 2005-2011.
   Declines in the neonatal and post neonatal mortality
  - rates were similar
- From 2005-2011 IMR declined
  - 16% for Black women
  - 12% for White women
  - 9 % for Hispanic women
- IMR declined for 4 of the 5 leading causes of infant death from 2005-2011.

NCHS Data Brief, #120, April 2013

### "Healthy People" History:

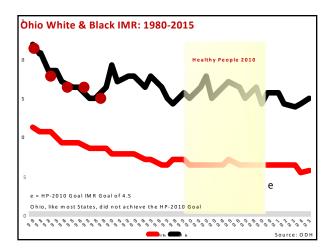
- 1990-Healthy People 2000-Healthy People
- 2010-Healthy People
- 2020-Healthy People

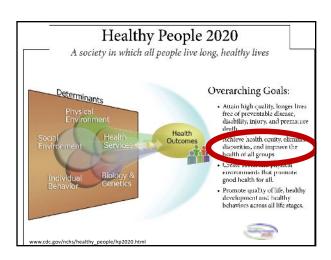


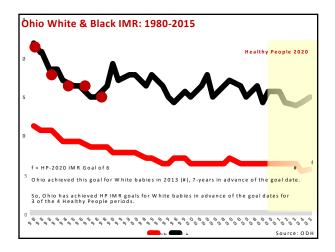


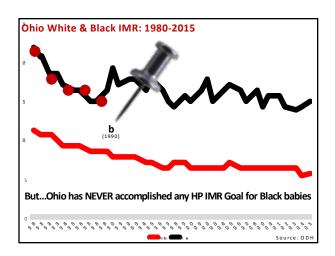
### Healthy People 2010: 2 Overarching Goals - Increase the quality and years of healthy life - Eliminate health disparities - Only one IMR Goal (4.5) for the entire population 28 Focus Areas - Maternal Child Health 467 specific objectives - Infgat Margality; goal of 4.5 deaths 1,000 live births

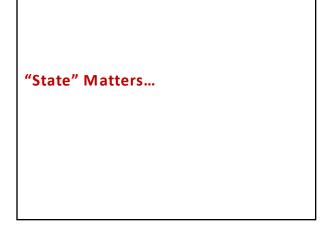
U.S. Department of Health and Human Services









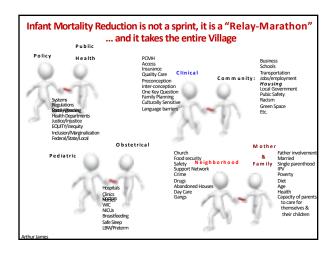


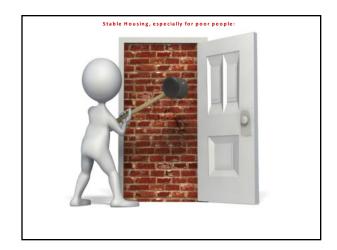
	Overall:		W hite:		Black:		Hispanic
USA	6.01		5.06		11.25		5.09
M S	9.25	wv	6.99	KS	14.18	RI	7.22
AL	8.57	AL	6.92	WI	14	PN	6.99
LA	8.35	M E	6.77	ОН	13.57	0 H	6.92
DE	7.64	M S	6.76	ΜI	13.13	KS	6.84
ОН	7.6	AR	6.7	IL	12.93	KY	6.75
AR	7.41	ОК	6.51	AL	12.9	ID	6.68
SC	7.23	IN	6.46	UT	12.89	ОК	6.54
N C	7.2	KY	6.4	IN	12.87	M S	6.35
IN	7.19	ОН	6.31	DE	12.82	AR	6.15
ОК	7.17	LA	6.15	PN	12.66	IN	6.09
TN	7.16	TN	6.09	N C	12.57	мо	6.08
*MA	4.21	*NJ	3.20	*MA	6.90	*IA	265





Place Matters  Housing and Infant Mortality:	
"The social determinants approach holds promise for reducing persistent health disparities, defined as health differences that are closely linked with social, economic, and environmental disadvantage [In Healthy People 2020]. Addressing the broader social determinants of health held the promise of complementing the traditional efforts of the health care and public health sectors with new cross-cutting efforts involving many diverse sectors of society. The broader social determinants approach also reinvigorates efforts to tackle complex health disparities in a way that engages people in all sectors and communities to become advocates for change."	
From Koh et al., 2011 based on Braveman et al., 2011; Braveman, Kumanyika, et al., 2010; Koh et al., 2010; Koh 2010; and Kumanyika & Morssink, 2006.	
A new approach to reduce infant mortality and achieve equity  Policy recommendations to improve howing, increportation, education and employment	









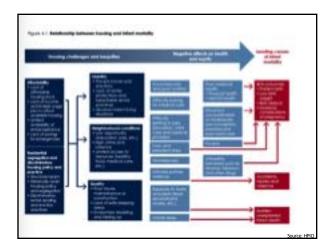
Senate Bill 332	
In March 2016, the Ohio Commission on Infant Mortality issued a report to the Governor and leaders of the General Assembly. The report included several specific recommendations for state agencies and the	
legislature designed to reduce infant mortality, and acknowledged the critical importance of reducing racial disparities and addressing contributing factors inside and outside the healthcare system.	
Most of the recommendations from the Commission's report were enacted in 2017 through Senate Bill 332 (SB 332), co-sponsored by	
Senators Shannon Jones and Charleta B. Tavares. SB 332 required the Legislative Service Commission (LSC) to contract with a nonprofit organization to convene a stakeholder group and issue a report	
regarding the social drivers of infant mortality.	
Source: HPIO	
56462.111.0	ı
Priority populations As described in part two of this HPIO report, infant mortality rates vary widely by race, ethnicity, education level, geography and other factors. in order to target resources to the areas of greatest need, this study	
focuses on babies born to the following groups of Ohioans most at risk for infant mortality and related risk factors:	
<ul> <li>African American/black Ohioans</li> <li>People with low levels of educational attainment</li> <li>People with low income</li> </ul>	
Residents of infant mortality hot spot communities	
It is important to note that racism and inequities in the social, economic and physical environment drive the increased risk of infant mortality for African Americans.	
Source: HPIO	
	•
Summary: Howdo social determinants contribute to infant mortality and disparities? Infant mortality is the result of complex interactions between biological, behavioral,	
social political and environmental factors. In some cases, research has identified oriect causal links between social determinants of realth and infant mortality. In other cases, the relationships are indirect or not well understood.	
Infant mortality reduction requires a comprehensive approach that touches on many different public policy challenges. The research summarized above suggests that in grider to make internal progress in reducing infant mortality and disparities,	
Reach priority populations across the life course, with a focus on early	
spild hood and "the specialism" approaches that promote optimal health Prevent trauma and violence, build stress reduction and coping skills	

winerable families and include trauma-informed services

• Specifically address the underlying causes of inequities, including poverty and racism

As specified in SB 332, this study focuses on four specific aspects of this complex picture: housing, transportation, education and employment.

13





### Mayor Andrew Ginther, 7/17/2018

Research has shown that "a woman who experiences housing instability or a shelter stay during her pregnancy, increases her risk of having a premature birth by 200%."

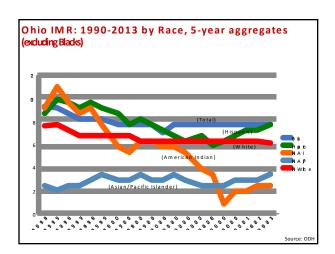
Prematurity is the leading cause of infant deaths before age 1.

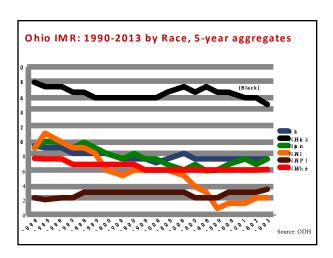
In 2016, our shelters saw over 160 pregnant women. In 2017 that number was nearly 300.  $\,$ 

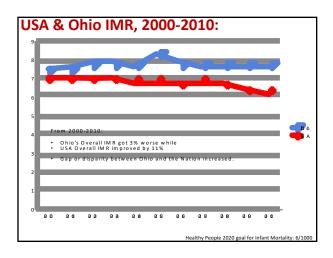
There is no more important time to ensure that someone has stable housing than when there is a baby on the way or in the first year of life. How do you get off to a good start when you, literally, don't know where you are starting from?"

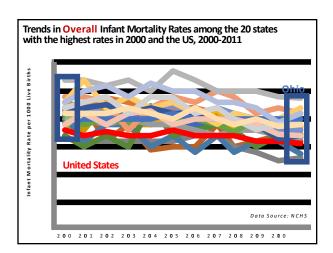
_					
	ha	nı	V 1	<b>/O</b> l	
	нa				

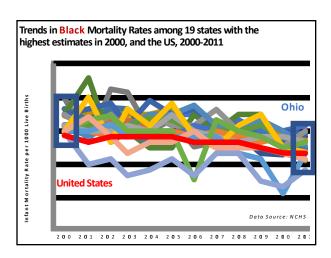


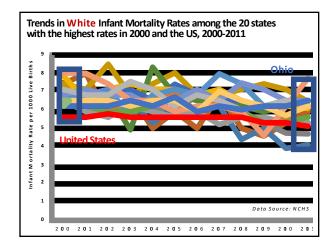












	NATION STRAIT
For	the past 26 years
•	In different neighborhoods  Complete the limited for the limit
•	In different neighborhoods  Cuntification  Different demographics  Different Races: Ghettoes, Barrios, Reservations  Despite inadequate funding
•	Different Races: Ghettoes, Barrios, Reservations
•	Despite inadequate funding
• 1	No matter how high risk the population
	No matter how under-resourced the community
HS	S has REPEATEDLY produced IIVRs better than the national average
₩.	rethan most VOHO panizations in this country, HS has proven us that this disparity coes not have to exist.