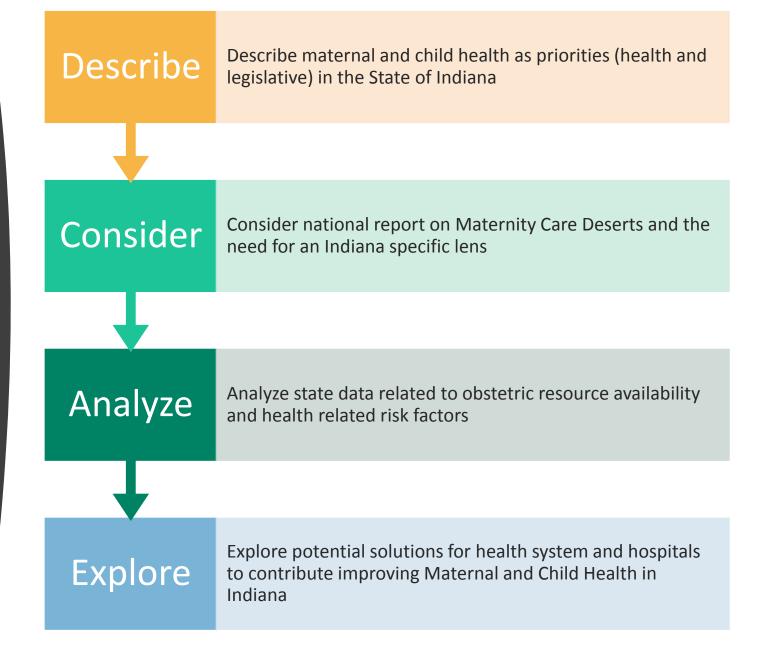
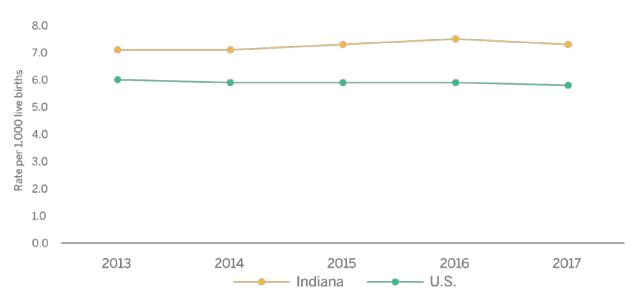


Presentation Objectives



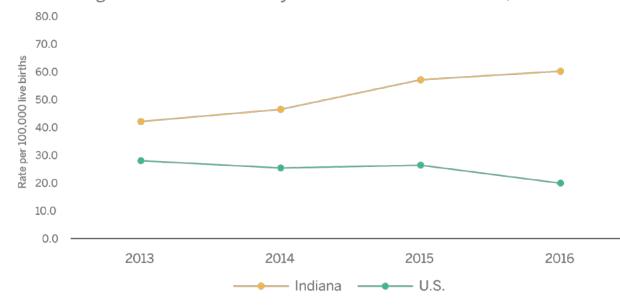
Maternal & Infant Mortality: Call to Action

Figure 1. Infant Mortality Rate for Indiana and the U.S., 2013 - 2017



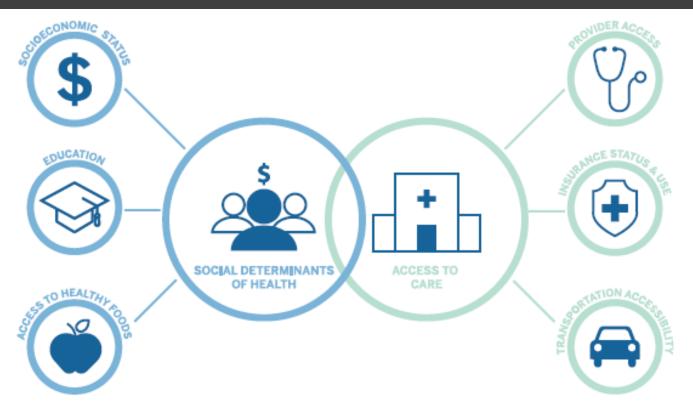
Source: National Center for Health Statistics, CDC: World Bank

Figure 2. Maternal Mortality Rate for Indiana and the U.S., 2013 - 2016



Source: National Center for Health Statistics, CDC; World Bank

Recent Programmatic Initiatives



STATE PROGRAMS TO ADDRESS SOCIAL DETERMINANTS OF HEALTH

TANF

Temporary Assistance for Needy Families

SAFETY PIN

Protecting Indiana's Newborns

SAFE SLEEP

SNAP

Supplemental Nutrition Assistance Program

WC

Special Supplemental Nutrition Program for Women, Infants, and Children

NEWBORN SCREENING

Protecting Indiana's Newborns

NFP

Nurse-Family

Partnership

ACCESS TO CARE

OB NAVIGATOR Supplemental Nutrition Assistance Program

PQC

Indiana Perinatal Quality Improvement Collaborative

Recent Legislative Initiatives

Year	Bill Number and Title	Summary by Bowen Center
2019	HEA 1007 – Perinatal Care	Created a perinatal navigator program through ISDH that will target communities throughout Indiana with the highest infant mortality rates. Also ensures every pregnant woman will be assessed for substance use disorder.
2019	SEA 278- Local Fetal-infant mortality review teams	Allows for establishment of local fetal-infant mortality review teams (review team) to review fetal deaths and infant deaths to gather information to improve community resources and systems of care.
2019	SEA 41-Newborn screenings for health disorders	Adds certain disease screenings to be performed on newborns.
2019	SEA 416-Medicaid coverage for doula services.	Provides that Medicaid pregnancy services may include reimbursement for doula services.
2018	SEA 142-Maternal mortality review committee	Establishes a statewide maternal mortality review committee through ISDH.
2018	SEA 360-Perinatal levels of care designation certification	Requires ISDH to establish a program to certify perinatal levels of care designations for licensed hospitals and birthing centers that provide birthing services.

National Report on Maternity Care Deserts

Nowhere To Go: Maternity Care Deserts Across the U.S.

- 2018 March of Dimes Report
- Used following measures from national data sources to examine access to maternity care:
 - hospitals offering obstetric care,
 - count of OB providers per 10,000, and
 - proportion of women 18-64 without health insurance.

In a very broad sense, access to maternity care can be defined by availability of hospitals providing obstetric care, availability of providers offering obstetric care and access to that care through health insurance. Counties without a hospital offering obstetric care and without any obstetric providers is defined here as a maternity care desert. Women may have limited access to appropriate preventive, prenatal and postpartum care if they live in counties with few hospitals providing obstetric care, few OB providers and a high proportion of women without health

Definitions	Maternity care	Limited access to maternity care (LAMC)		
	deserts	Level 1	Level 2	
Hospitals offering obstetric (OB) care	zero	<2 Hospitals	<2 Hospitals	
OB Providers (OB/GYN, CNM) per 10,000	zero	<60	<60	
Proportion of women 18-64 without health insurance*	any	10% or greater	Less than 10%	
Notes: OB/GYN = obstetrician/gy necologists; CNM = certified nurse midwives *U.S. av erage is approximately 10%.				

Map 1. Access to Maternity Care in U.S. Counties, 2016

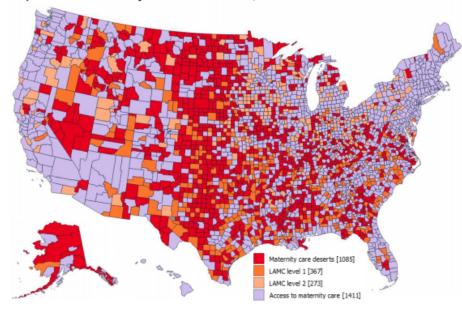


Table 1. Distribution of counties, women, and births by access to maternity care

	Maternity care deserts		Limited access to maternity care (LAMC)			Access to maternity		Total	
			Level 1		Level 2		care		Total
	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count
Counties	1,085	34.6	367	11.7	273	8.7	1,411	45.0	3,136
Women over 15 (in 1,000s)	5,306	4.2	5,857	4.7	4,546	3.6	109,237	87.4	124,946
Births	148,631	3.8	195,308	4.9	137,397	3.5	3,464,664	87.8	3,946,000

© 2018 MARCH OF DIMES 2

Indiana Specific Lens

Why?

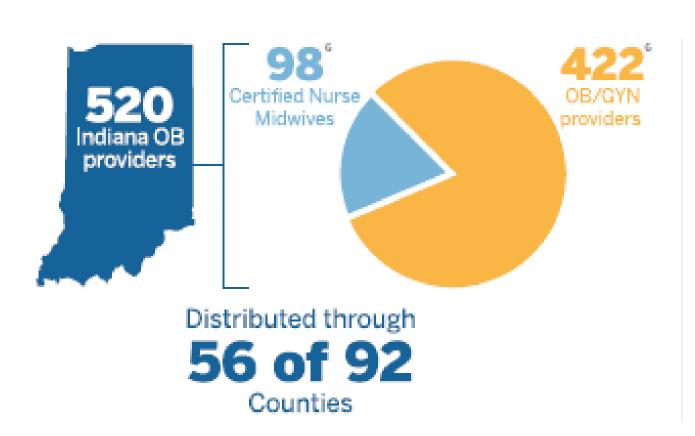
- The March of Dimes report is a useful resource for national planning, but lacks granularity for community-specific planning
- Simultaneously analyzes obstetric care **resources** (obstetric providers, hospitals with obstetric services) and infant/maternal health **risks** (IMR, prevalence of women who smoke during pregnancy, % pregnant women who received prenatal care in 1st trimester)

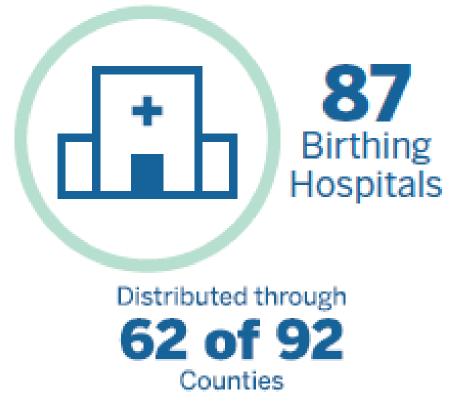


Indiana Landscape Analysis

Category Assignment	Data Points		
Obstetric Care Resources			
No Resources	Birthing Hospitals AND OB providers		
Partial Resources	O Birthing Hospitals, <34 OB provider FTE per 100,000		
Limited Resources	1 birthing hospital, <34 OB provider FTE per 100,000		
Ample Resources	1 birthing hospitals, >34 OB provider FTE per 100,000 or 2 or more Birthing Hospitals, 34 OB provider FTE per 100,000		
Infant/Maternal Health Risk			
Low Risk	0-1 Risk factors worse than state average		
Moderate Risk	2 Risk factors worse than state average		
High risk	3 Risk factors worse than state average		

Results: Obstetric Care Resources





Results: Obstetric Care Resources (Cont.)



53 COUNTIES

✓Birthing Hospital
✓OB provider

9 COUNTIES

✓ Birthing Hospital
X OB provider

3 COUNTIES

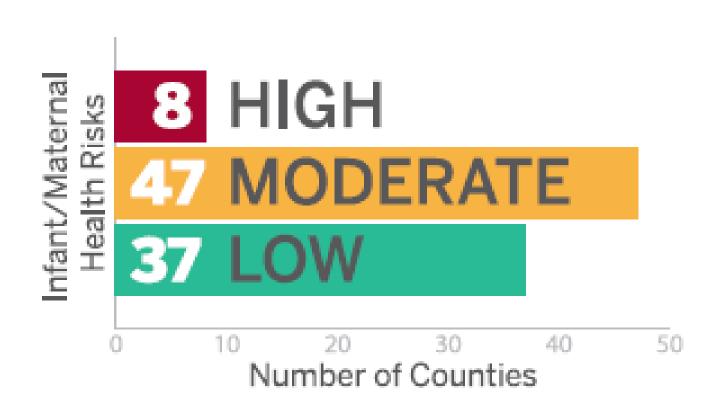
■ Birthing Hospital
OB provider

27 COUNTIES

■ Birthing Hospital

▼ OB provider

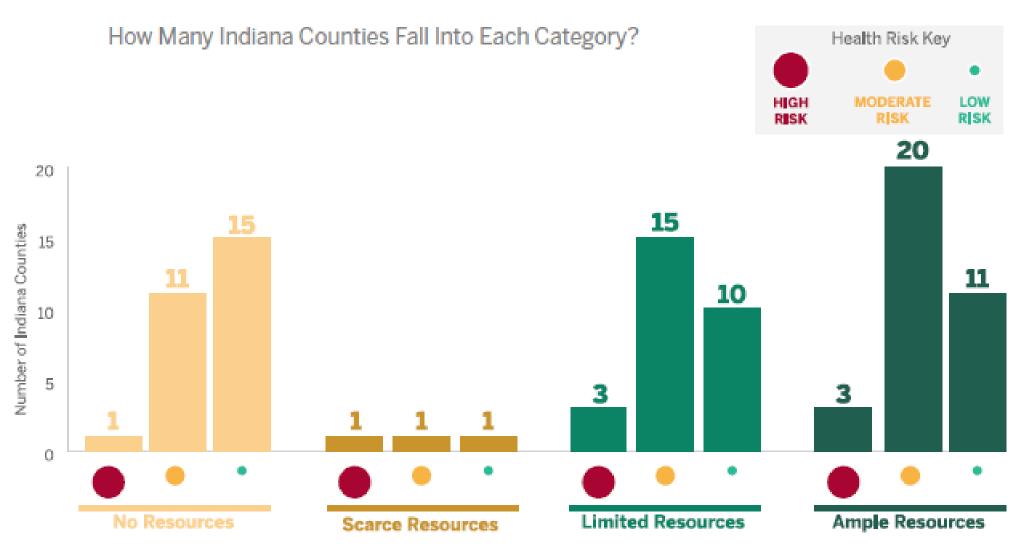
Results: Infant/Maternal Health Risk Factors



Results

Obstetric Care Resources			Infant/Maternal Health Risk	
Obstetric Resource Level Birthing per 100		OB provider FTE per 100K Women of Childbearing Age	Category	Total Counties
	0	0	● High Risk	1
No Resources			Moderate Risk	11
			Low Risk	15
		< 34	High Risk	1
Scarce Resources	0		Moderate Risk	1
			Low Risk	1
			● High Risk	3
Limited Resources	1	< 34	Moderate Risk	15
			Low Risk	10
	1 or more	34 or greater	High Risk	3
Ample Resources	or	or	Moderate Risk	20
	2 or more	Any	Low Risk	11

Results



Health Risk and Obstetric Resources Per Indiana County

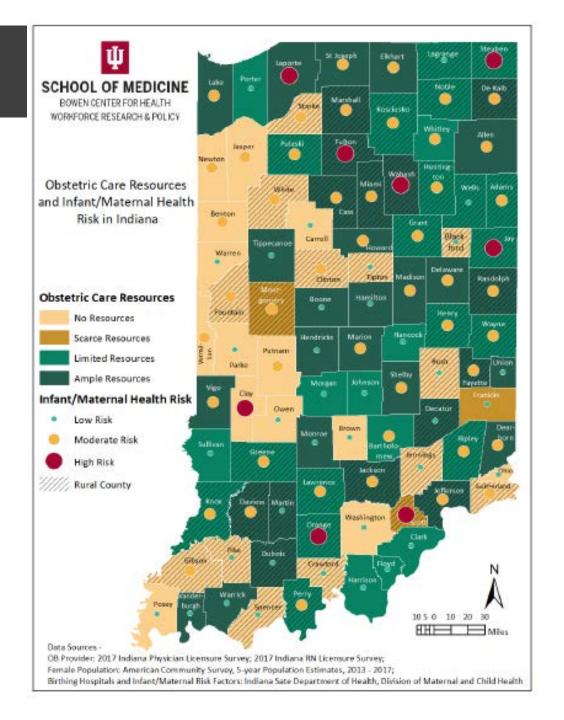
The Landscape

How to interpret this map?

- The lighter the "landscape" the scarcer the resources
- The larger the dot the greater the risk

Major take a ways. . .

 Variations in resources and risk across Indiana counties point to the need for local solutions



Exploring Potential Solutions

Resources	Ri	sk		
	• Low	Moderate + High		
Ample	Maintain	+ Social Determinants		
Scarce Coordinate		+ Social Determinants		
Limited Coordinate		+ Social Determinants		
None Recruit, Expand, & Collaborate		+ Social Determinants		

Moderate-to-High



Exploring Potential Solutions for Moderate-to-High Risk



Moderate to High Risk: Social Determinants of Health

Regardless of the Level of Resources:

- Screen for social determinants of health.
- Identify champions among the local health systems/ providers, public health, and social services organizations
- Consider opportunities to enhance health system and social services capacity through new community-based partnerships
- Ensure robust health education programs for prenatal women.
- Develop integrated health and social services strategies (example: perinatal navigator).
- Maintain bidirectional communication between health care and social services.
- Generate strategy for ongoing referrals and coordination between health care and social services

Low Risk

Ample Resources



- Low Risk: Maintain
 - Health systems should ensure proper provider, support staff, and facilities are maintained.
 - Public health and social services organizations should educate
 patients/community members about the services offered within the
 local community.

Scarce and Limited Resources



Low Risk: Coordinate

- Care coordination staff within Primary Care should refer and coordinate OB/GYN Services.
- In the absence of a birthing hospital, connect birthing facility to local care source via tele-health, joint privileges for health care providers, and shared charting.

No Resources



Low Risk:

Recruit/Expand/Collaborate

- Consider **recruiting** family medicine/general internal medicine providers to offer more robust pre- and postnatal services to women in the community.
- Develop **regional model** for labor and delivery services to ensure resources accessible within a sufficient distance.

Summary

 Data on health resources are critical to informing policy initiatives

 Examining health resources and outcome/risk factors simultaneously help the community highlight the strengths that already exist and the areas for potential improvement

 Regardless of your community's resource availability and risk factors associated with infant/maternal outcomes, there are steps that can be taken to improve outcome and health resource availability.