



**tchmb**

Texas Collaborative for  
Healthy Mothers & Babies

# 2023 TCHMB Summit

February 16-17

## From Data to Action for Healthy Texas Mothers and Babies



**Thursday, February 16**



**9:15 - 9:45AM**

**MODERATOR:** Kaashif Ahmad, M.D., MSc., FAAP, TCHMB Data Co-chair, National Research Director for Neonatal Clinical Trials, Pediatrix Medical Group



**SAVANNAH  
LARIMORE, PhD**

Epidemiologist IV  
& Maternal Mortality and  
Morbidity Epidemiology  
Branch Manager, DSHS



**AUDREY YOUNG, MPH**

Maternal and Child Health  
Unit Director, Title V  
Children with Special  
Health Care Needs  
Director, Community  
Health Improvement, Texas  
Department of State Health  
Services



**TEXAS**  
Health and Human  
Services

**Texas Department of State  
Health Services**

# Maternal and Child Health Epidemiology

Savannah Larimore, PhD

Maternal and Child Health Epidemiology

Community Health Improvement

February 2023

# Learning Objectives

- Describe one or more Texas maternal or infant health outcome or disparity.
- Identify one or more state resource or activity to address maternal and infant health priorities.

# Available DSHS Data Books



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# Texas Pregnancy Risk Assessment Monitoring System (PRAMS) Dashboard

- Cross-sectional surveillance study to determine maternal and child health trends:
  - Chronic conditions prior to pregnancy (obesity, diabetes, hypertension, depression);
  - Prenatal care;
  - Breastfeeding; and
  - Safe sleep.
- Data available for 2012-2019.
- Accessible at: [healthdata.dshs.texas.gov/dashboard/surveys-and-profiles/pregnancy-risk-assessment-monitoring-system](https://healthdata.dshs.texas.gov/dashboard/surveys-and-profiles/pregnancy-risk-assessment-monitoring-system).



# Healthy Texas Mothers & Babies Data Book

- Provides the most current maternal and child health data available from multiple data sources, over multiple years.
- Details:
  - Birth demographics;
  - Infant mortality and morbidity;
  - Infant health practices;
  - Prenatal care;
  - Maternal health; and
  - Delivery.
- Last updated in July 2022.
- The next data book update is estimated to be available this spring.
- Accessible at: [dshs.texas.gov/maternal-child-health/texas-data](https://dshs.texas.gov/maternal-child-health/texas-data).

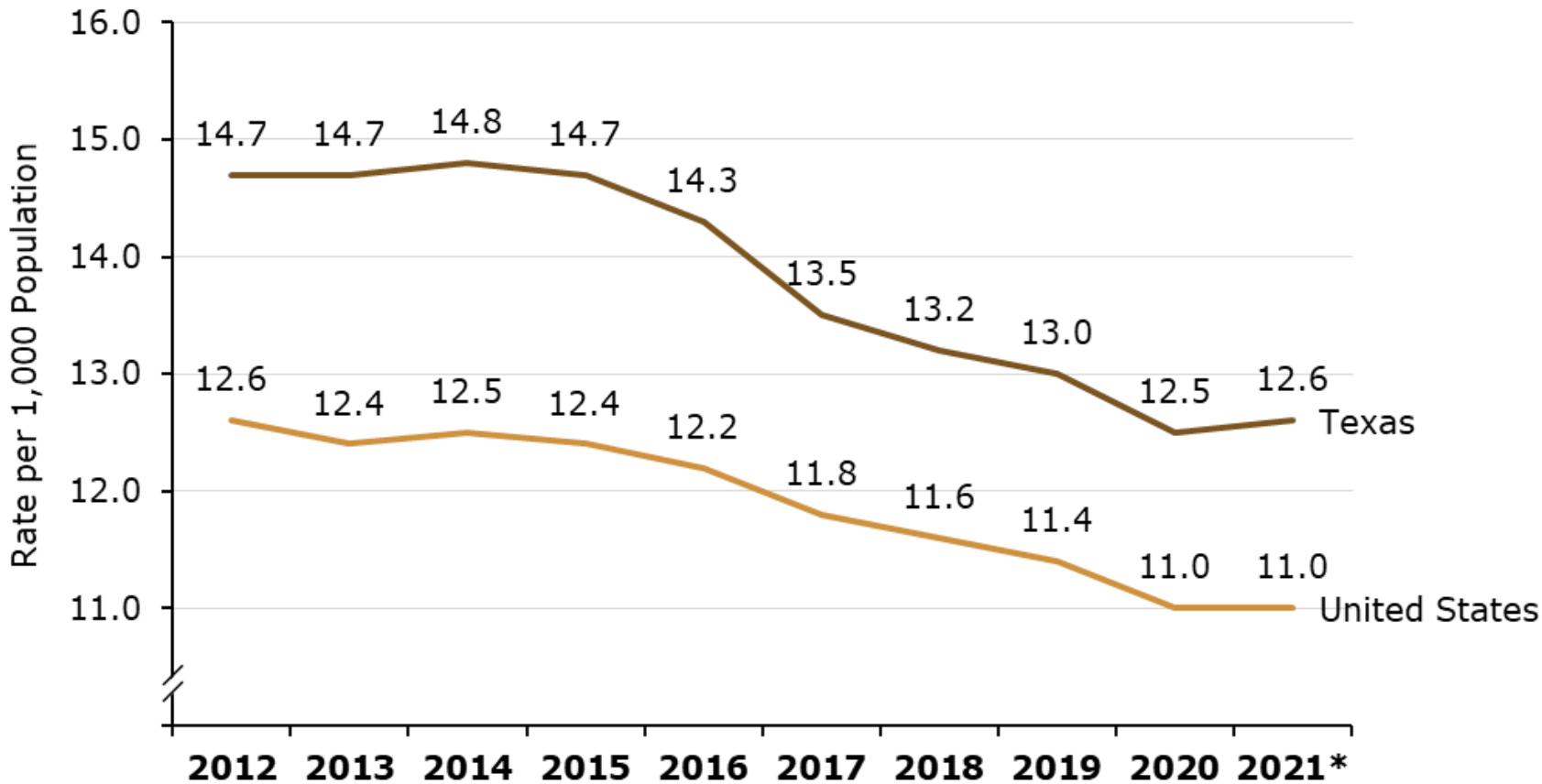


# Data Results





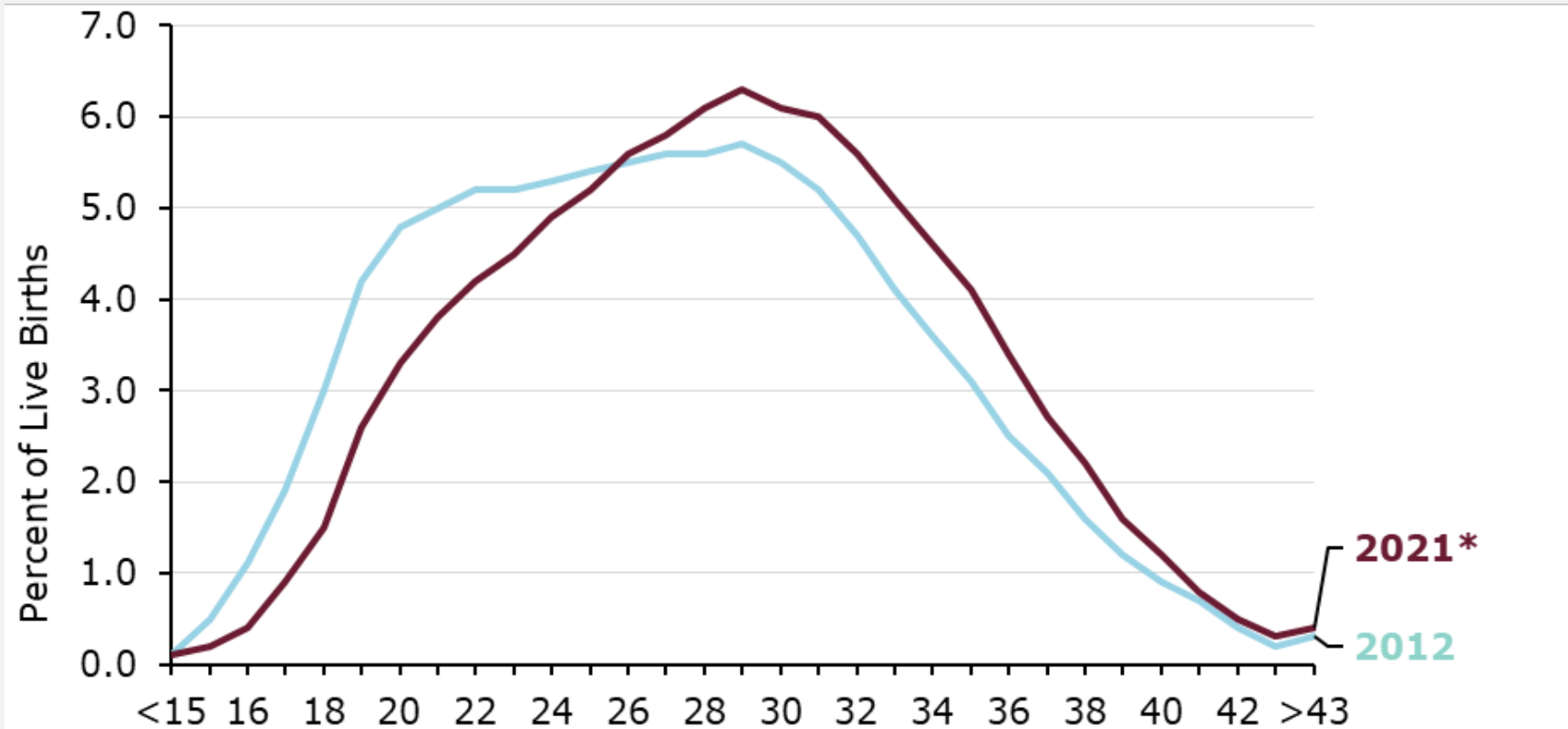
# Texas and the U.S. Birth Rate, 2012-2021



\*2021 data are provisional  
Source: 2012-2021 Birth Files, National Center for Health Statistics; 2012-2021 Population Estimates, U.S. Census Bureau  
Prepared by: Maternal & Child Health Epidemiology Unit  
Jan 2023



# Texas Maternal Age Distribution, 2012 and 2021



\*2021 Texas data are provisional

Source: 2012 and 2021 Live Birth Files, Texas Center for Health Statistics

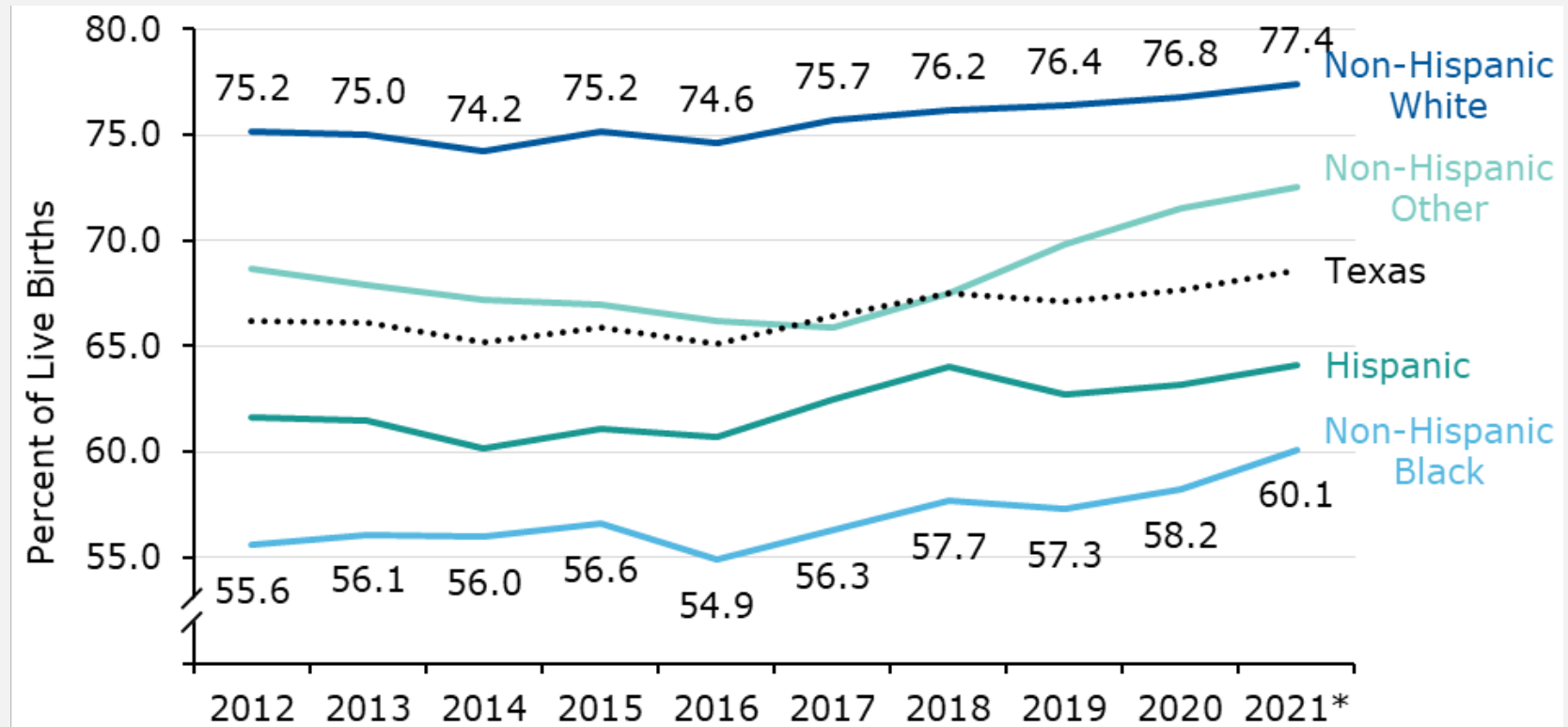
Prepared by: Maternal & Child Health Epidemiology Unit

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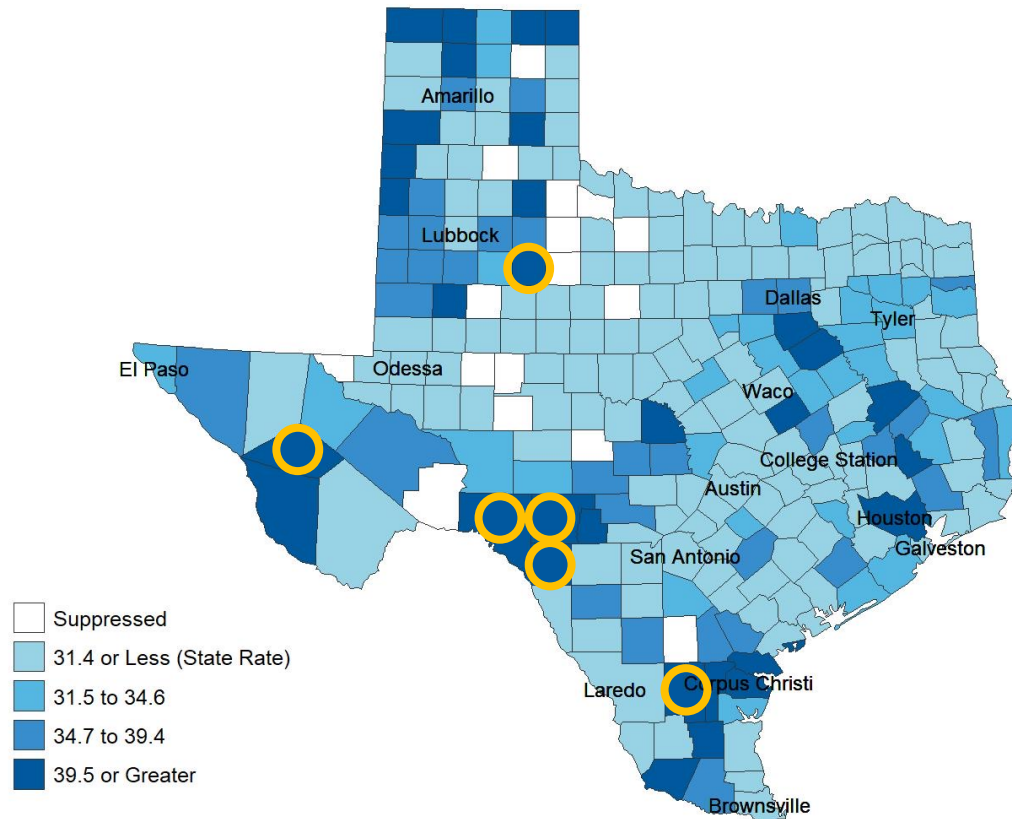
# First Trimester Prenatal Care by Race & Ethnicity, 2012-2021



\*2021 Texas data are provisional  
 Source: 2012-2021 Birth Files  
 Prepared by: Maternal & Child Health Epidemiology Unit  
 Jan 2023



# First Trimester Prenatal Care by Race & Ethnicity, 2012-2021 - Map

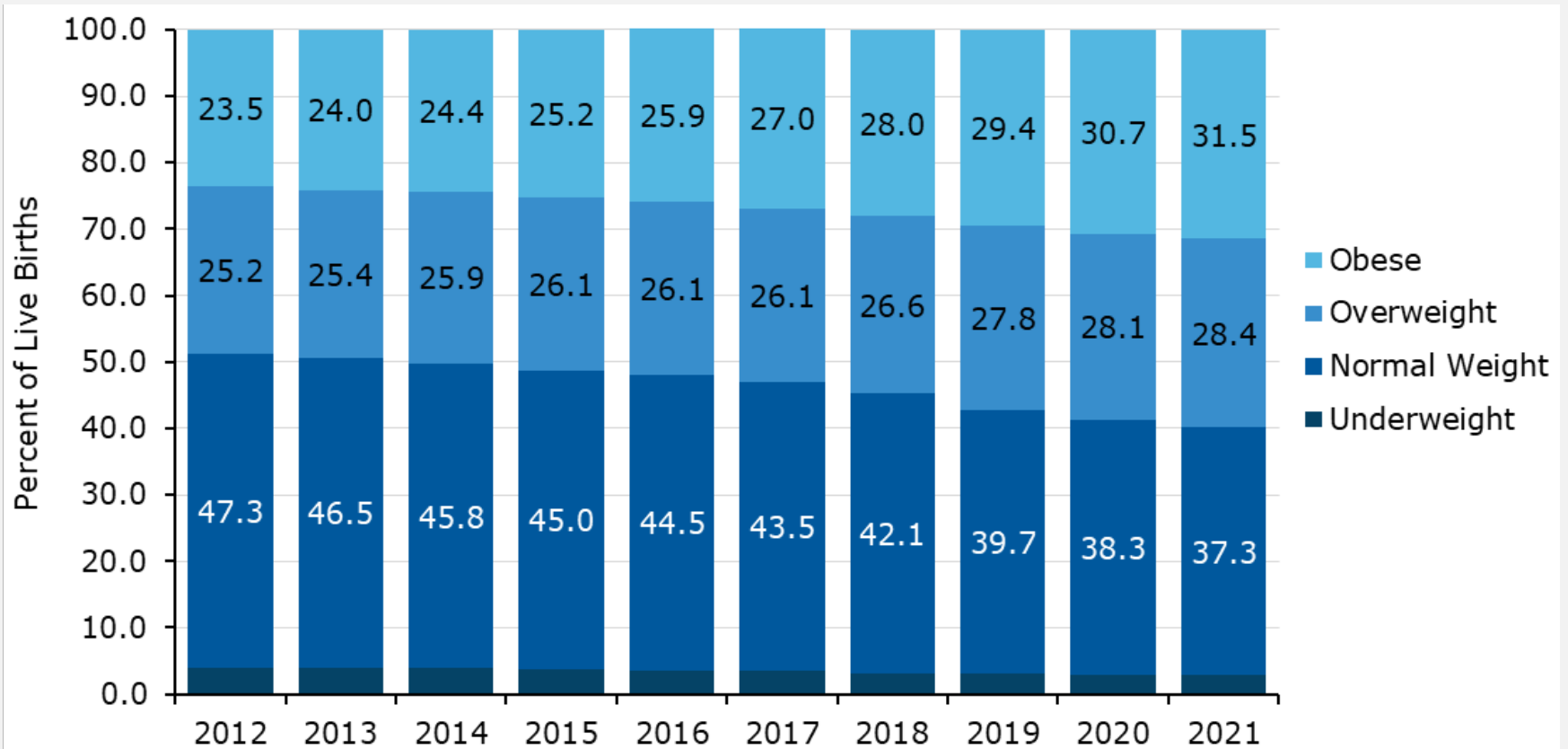


2021 Texas data are provisional  
Source: 2021 Live Birth Files, Texas Center for Health Statistics  
Prepared by: Maternal & Child Health Epidemiology Unit  
Jan 2023



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# Pre-Pregnancy Weight Status, 2012-2021

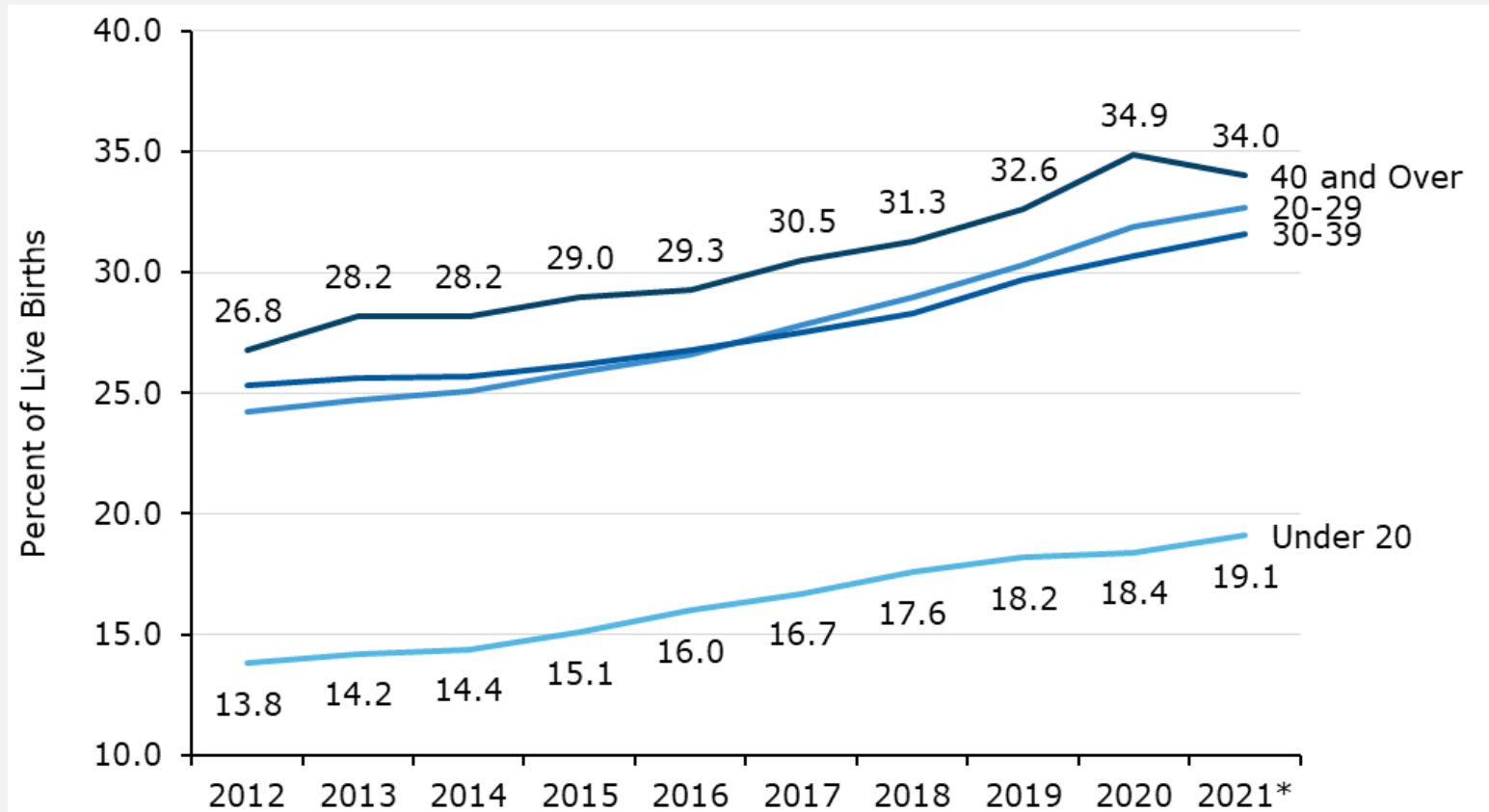


\*2021 Texas data are provisional  
Source: 2012-2021 Live Birth Files, Texas Center for Health Statistics  
Prepared by: Maternal & Child Health Epidemiology Unit  
Jan 2023



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# Texas Pre-Pregnancy Obesity by Age Group, 2012-2021

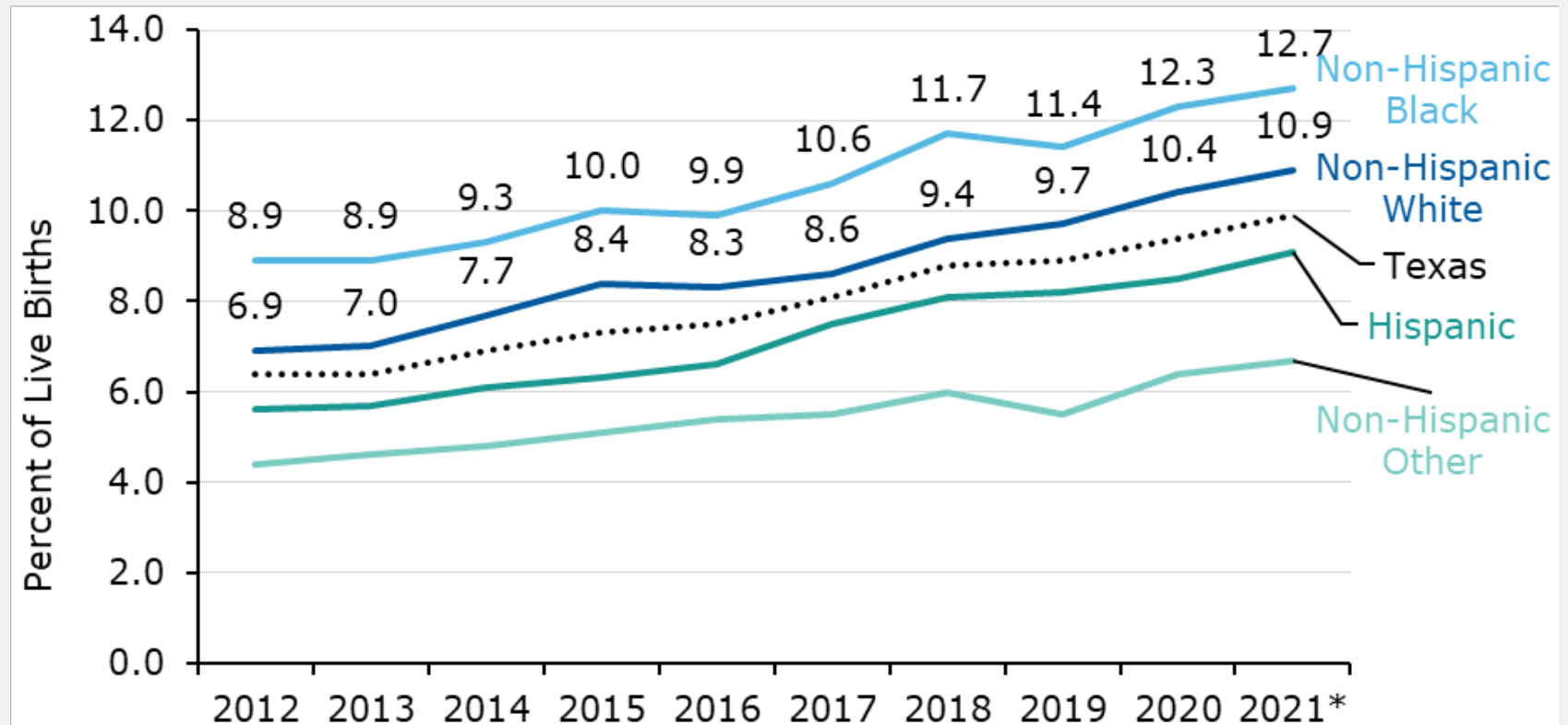


\*2021 Texas data are provisional  
 Source: 2012-2021 Live Birth Files, Texas Center for Health Statistics  
 Prepared by: Maternal & Child Health Epidemiology Unit  
 Jan 2023



Texas Department of State Health Services

# Texas Maternal Hypertension by Race & Ethnicity, 2012-2021

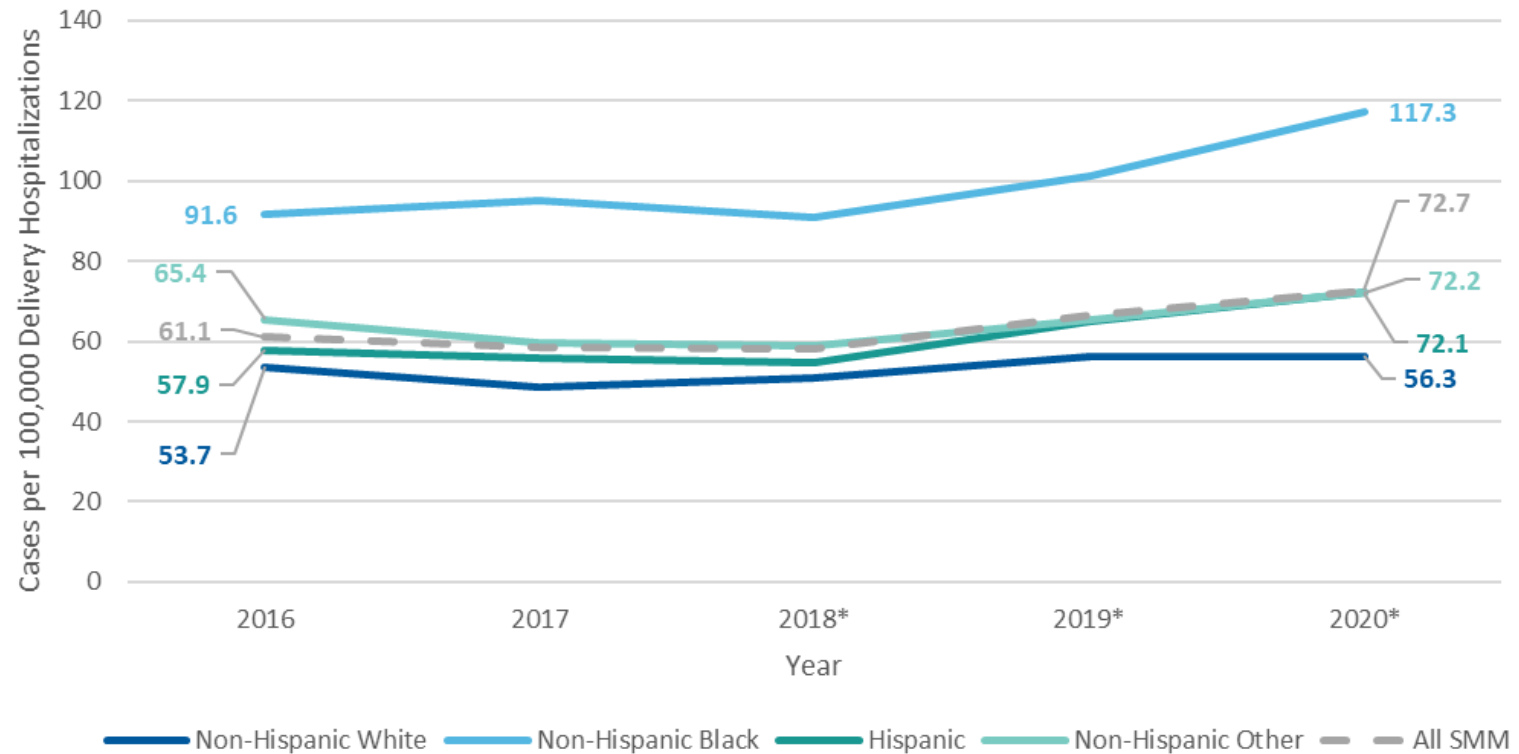


\*2021 Texas data are provisional  
 Source: 2012-2021 Live Birth Files, Texas Center for Health Statistics  
 Prepared by: Maternal & Child Health Epidemiology Unit  
 Jan 2023



Texas Department of State Health Services

# Texas Severe Maternal Morbidity (SMM), 2016-2020



\*2018, 2019, and 2020 rates are based on provisional birth records data

Source(s): 2016-2020 Texas Health Care Information Collection (THCIC) inpatient research data files; 2016-2020 Texas Birth Data Files

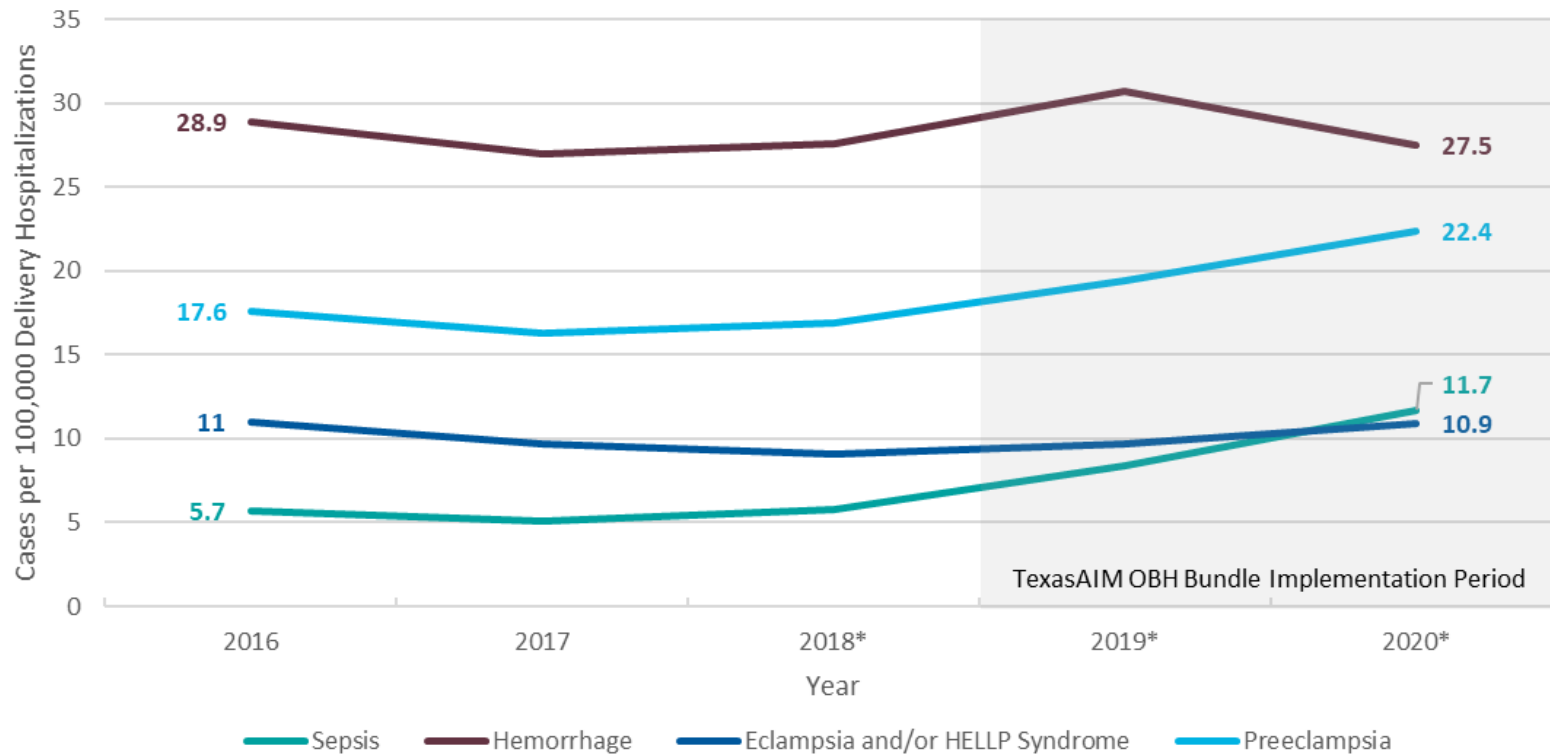
Prepared by: Maternal and Child Health Epidemiology, October 2022



Texas Department of State Health Services



# Texas SMM by Select Indicators, 2016-2020



\*2018, 2019, and 2020 rates are based on provisional birth records data

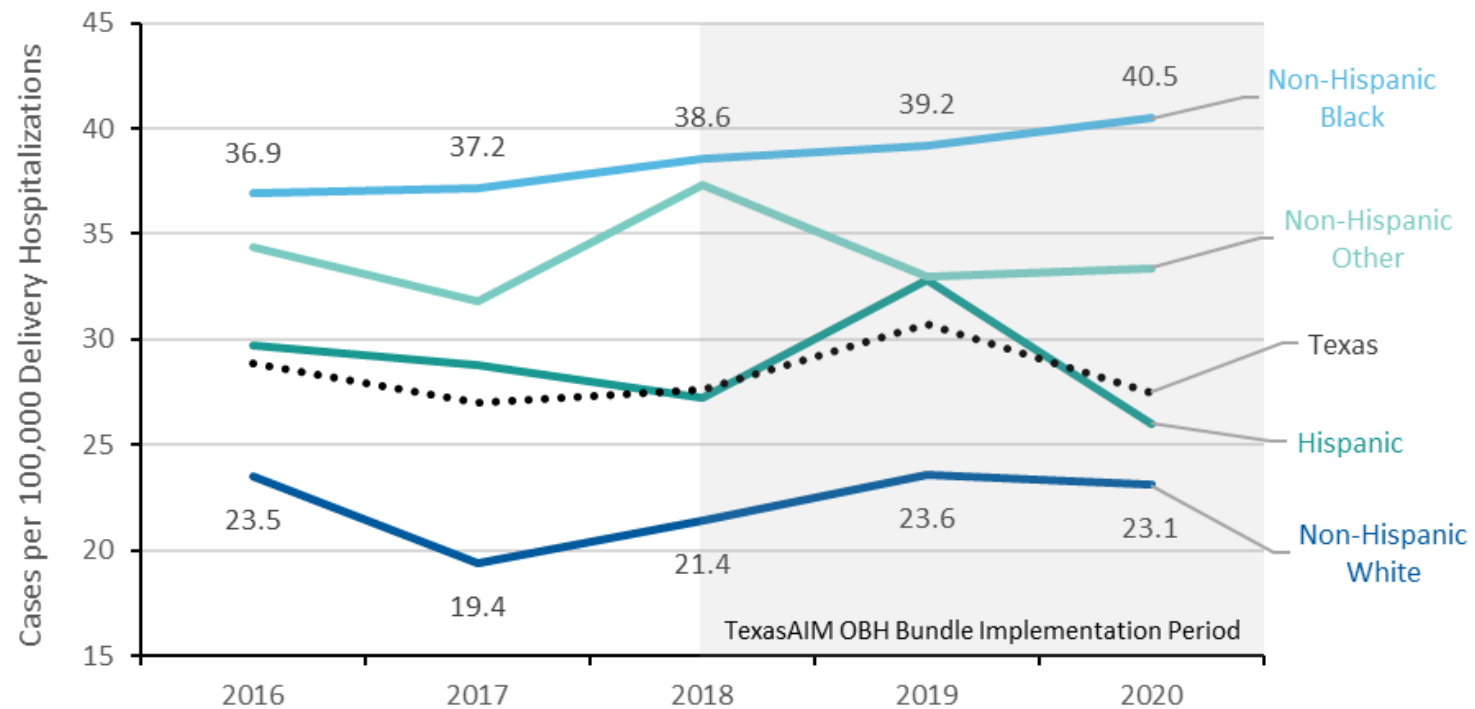
Source(s): 2016-2020 Texas Health Care Information Collection (THCIC) inpatient research data files; 2016-2020 Texas Birth Data Files

Prepared by: Maternal and Child Health Epidemiology, October 2022



Texas Department of State Health Services

# Texas SMM with Hemorrhage by Race & Ethnicity, 2016-2020



\*2018, 2019, and 2020 rates are based on provisional birth records data

Source(s): 2016-2020 Texas Health Care Information Collection (THCIC) inpatient research data files; 2016-2020 Texas Birth Data Files

Prepared by: Maternal and Child Health Epidemiology

October 2022



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# Maternal and Infant Health and Safety Initiative Updates

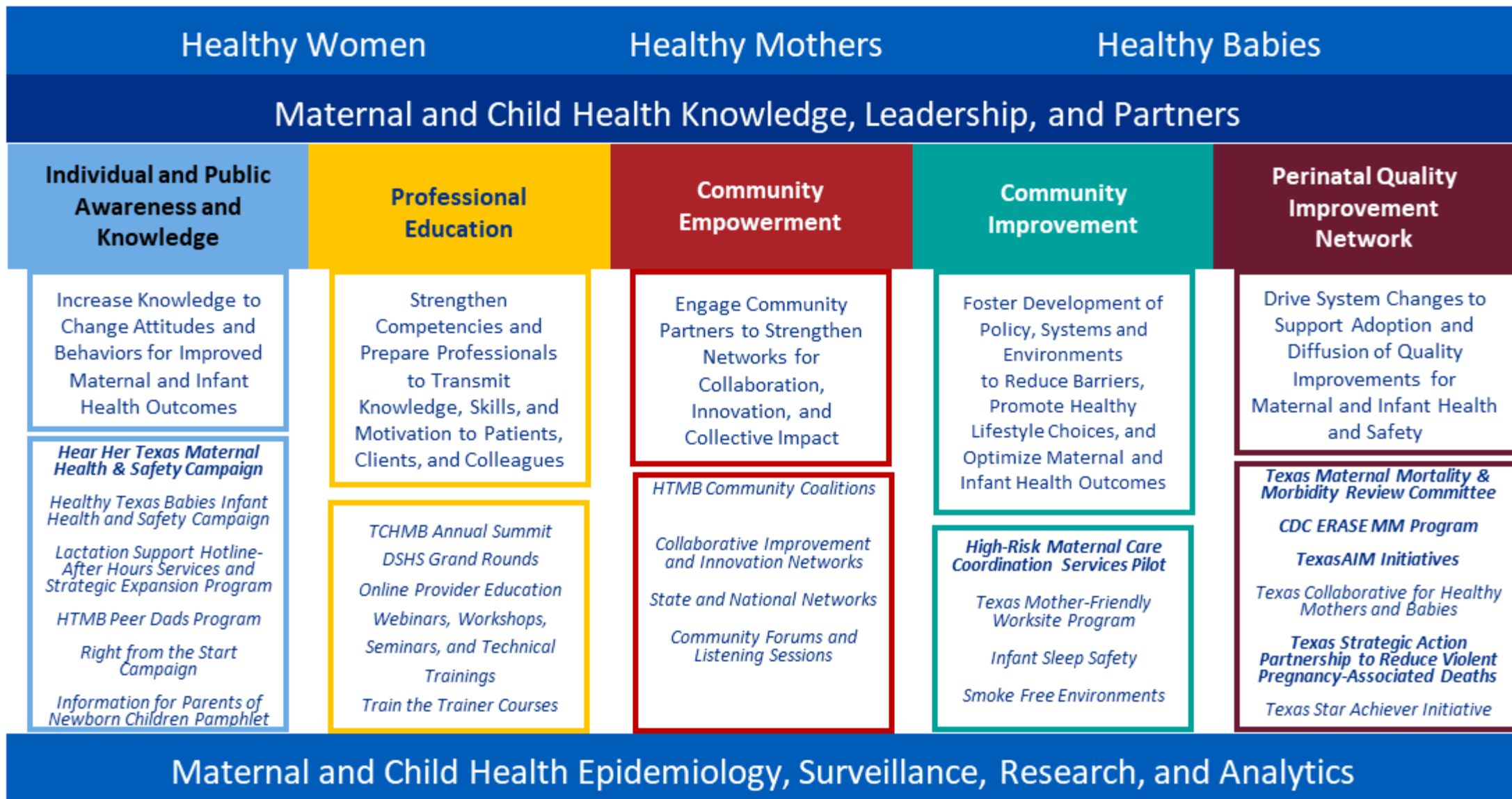
**Audrey Young, MPH**

Maternal and Child Health Unit Director  
Community Health Improvement Division  
February 2023



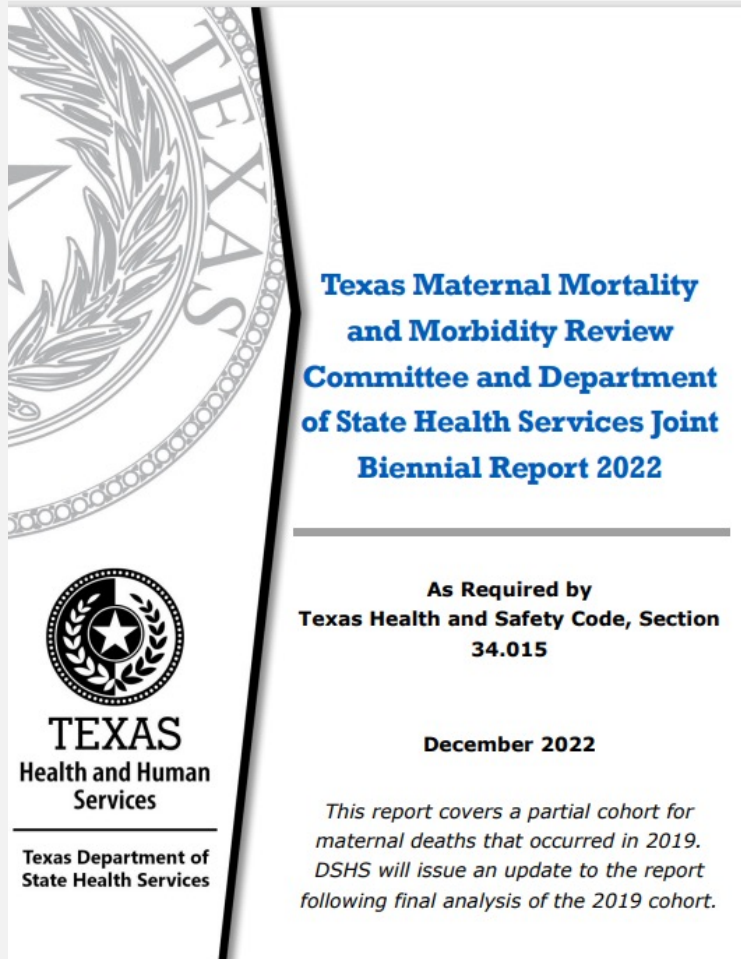
# Healthy Texas Mothers & Babies

Our mission is to improve maternal and infant health and safety by advancing quality, equity, and evidence-based prevention for all Texas mothers and babies.

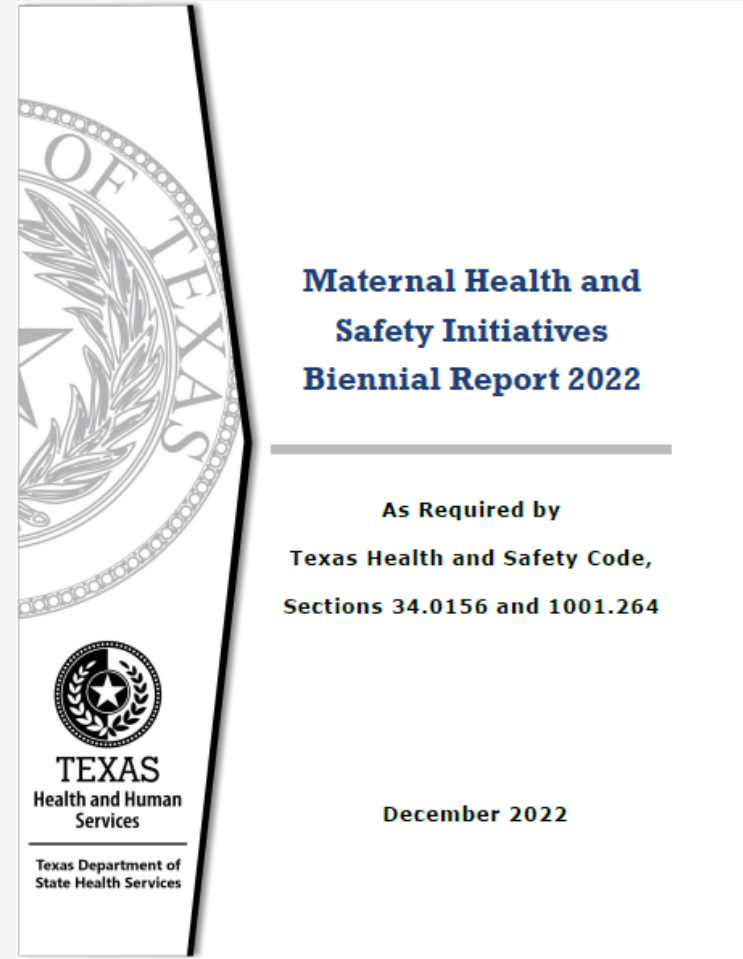


# 2022 Maternal Health Reports

[tinyurl.com/MMMRC2022](https://tinyurl.com/MMMRC2022)



[tinyurl.com/MHSReport2022](https://tinyurl.com/MHSReport2022)



# AIM Maternal Safety Bundles



## **Readiness**

*Every Unit- Prepare & Educate*

## **Recognition & Prevention**

*Every Patient- Detect and Escalate*

## **Response**

*Every Event- Team Approach*

## **Reporting/Systems Learning**

*Every Unit- Systems Improvement*

## **Respectful, Equitable, & Supportive Care**

*Every Unit/Provider/Team Member-*

*Include and Engage Patients in their Care*

# Reasons for TexasAIM Bundles

- Obstetric hemorrhage, preeclampsia, cardiac conditions, infection, mental health, and injury are leading causes of, and contributors to, preventable maternal mortality and morbidity in Texas.
- Marked racial disparities persist, with non-Hispanic Black women bearing the greatest burden of mortality and morbidity in Texas.
- Evidence shows that AIM bundles work to reduce severe maternal morbidity.

# TexasAIM

## Initial Focus on AIM bundles:

- Obstetric Hemorrhage;
- Severe Hypertension in Pregnancy; and
- Opioid and Substance Use Disorder.

## Future Bundles:

- Cardiac Conditions in Obstetrical Care - 12/2024.
- Sepsis in Obstetrical Care – 12/2026.





# TexasAIM Plus Obstetric Hemorrhage Learning Collaborative

153%  
improvement

Stage-based  
management  
plans

204%  
improvement

Risk level  
assessment  
and level  
assigned

823%  
improvement

Quantification  
and  
cumulative  
measurement  
of blood loss  
through  
recovery



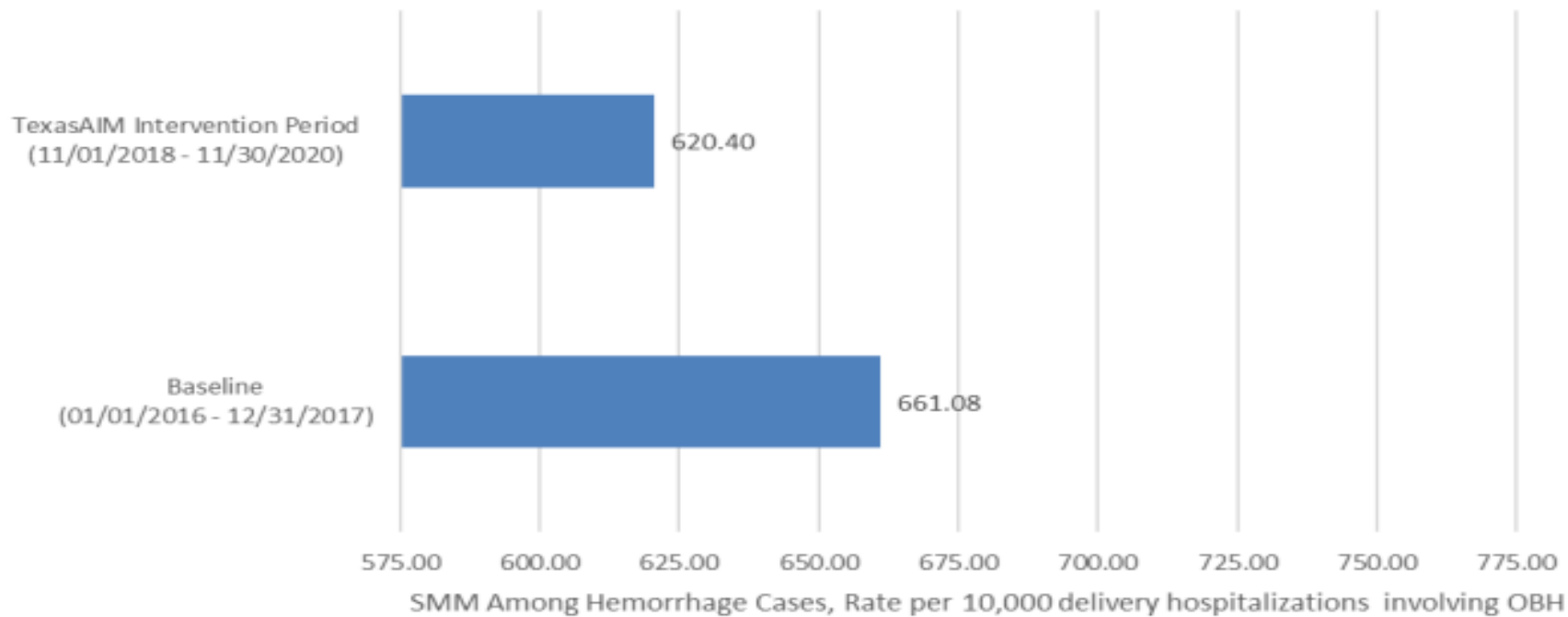
ALLIANCE FOR INNOVATION  
ON MATERNAL HEALTH



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# Findings During the Intervention Period, Cohorts 1-3

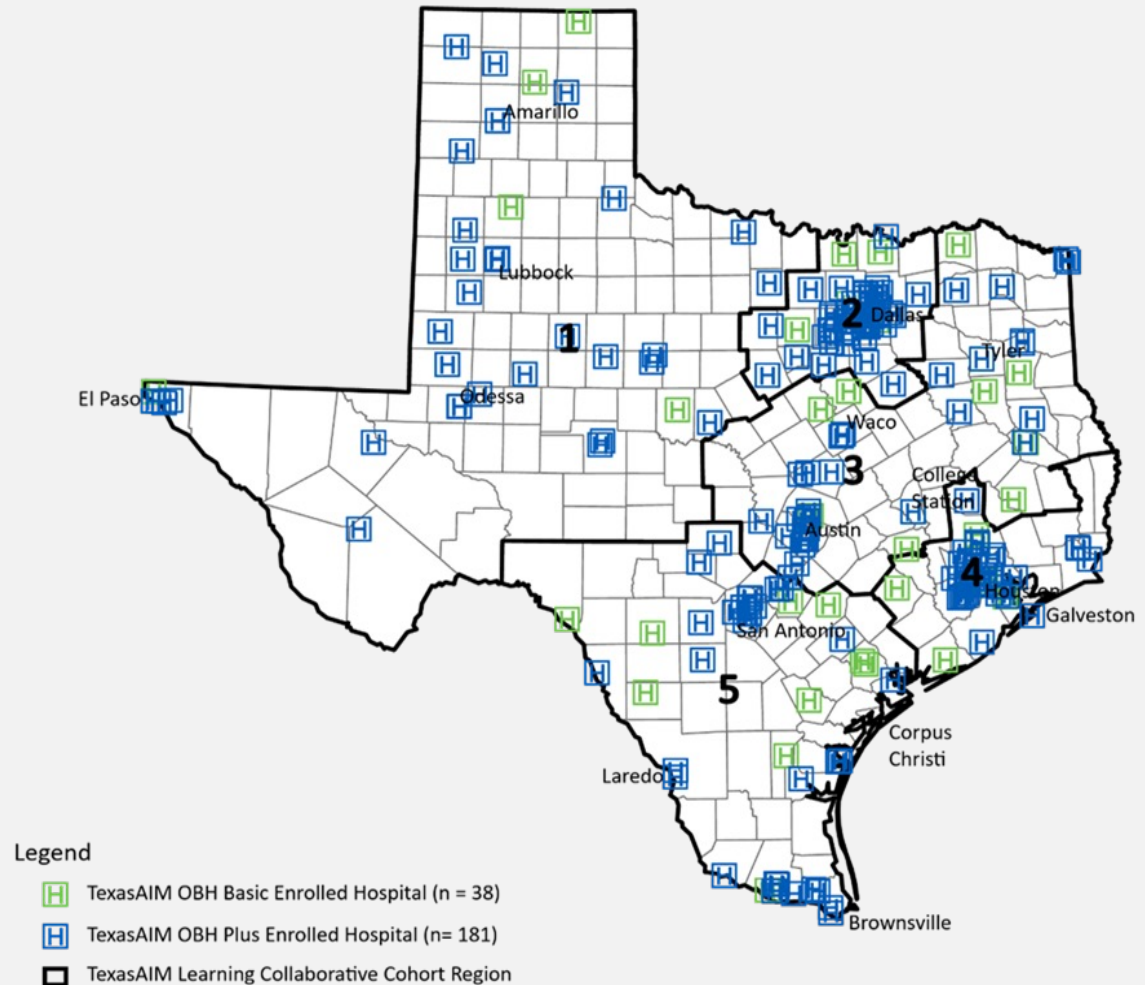


The SMM rate decreased by 6.2 percent from the Baseline to Intervention Period in SMM among Obstetric Hemorrhage cases in Texas AIM enrolled hospitals, cohorts 1-3.

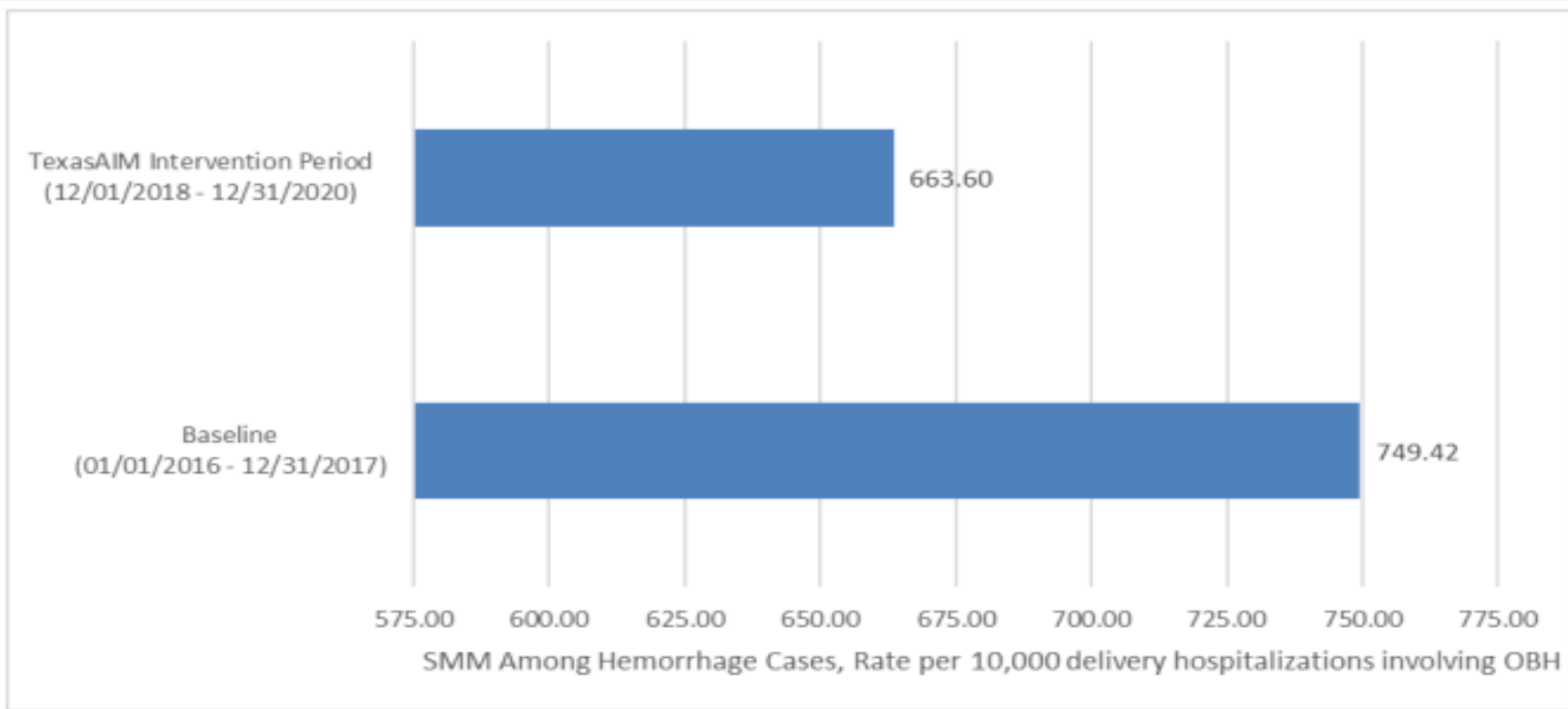
PREPARED BY: Maternal and Child Health Unit (MCHU), Community Health Improvement (CHI) Division, Department of State Health Services (DSHS). ANALYSIS BY: Maternal and Child Health Epidemiologists (MCHE), CHI Division, DSHS. DATA SOURCE: Hospital Inpatient Discharge Research Data File, 2016-2020. Birth Files, 2016-2020. Center for Health Statistics (CHS), DSHS. NOTES: 2018-2020 Birth Files are provisional. SMM was calculated using the Updated Alliance for Innovation on Maternal Health (AIM) SMM Code List, October 2021. The SMM National Workgroup recently advised calculating SMM using SMM indicators while excluding blood transfusion-only cases. Previously reported SMM rates may not be comparable. See [Federally Available Data Resource Document](#). See also, [saferbirth.org/aim-data/resources/](https://saferbirth.org/aim-data/resources/).

# Findings for Cohorts 1-3 Slide 2

The SMM rate decreased by 6.2 percent from Baseline to Intervention Period in Obstetric Hemorrhage Cases in TexasAIM enrolled hospitals, cohorts 4-5.



# Findings During the Intervention Period, Cohorts 4-5



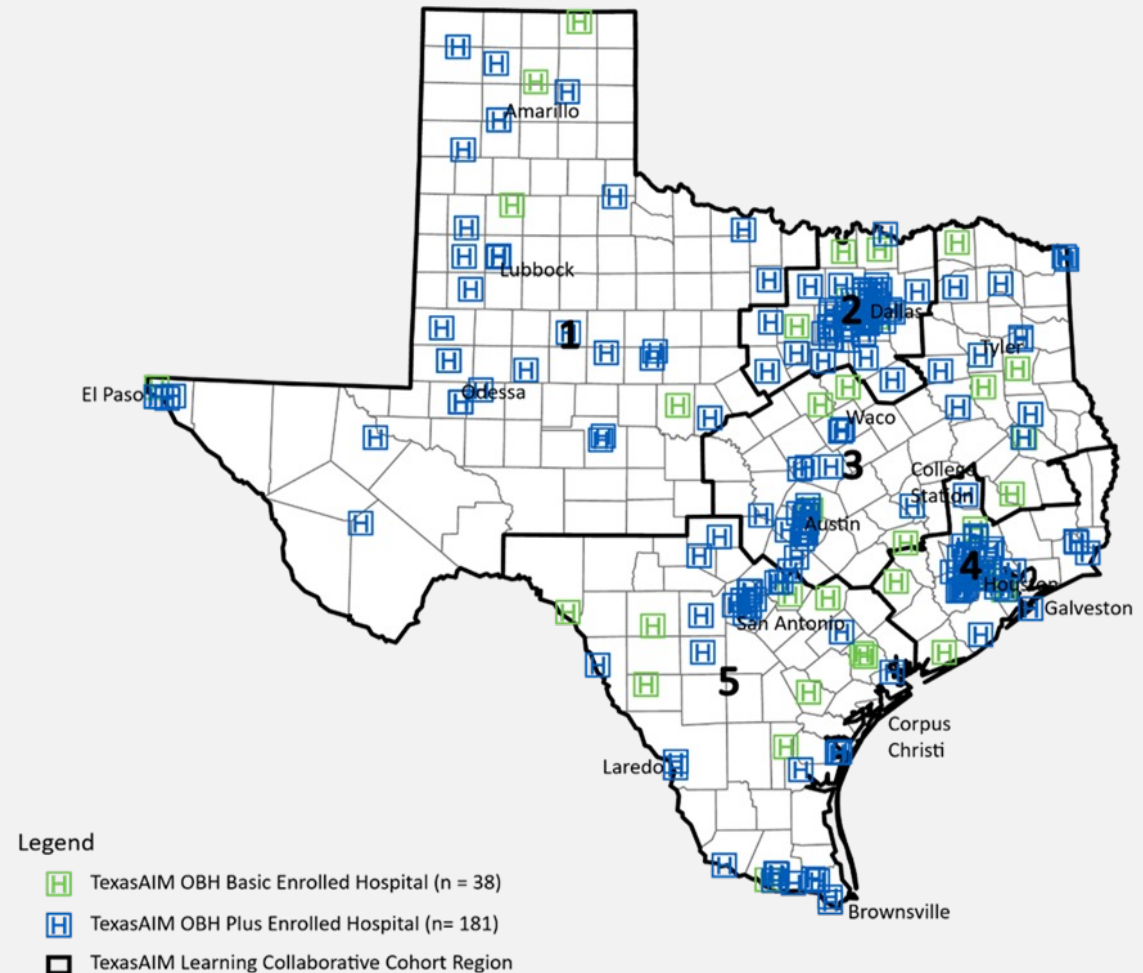
The SMM rate decreased by 11.5 percent from Baseline to Intervention Period in Obstetric Hemorrhage Cases in TexasAIM enrolled hospitals, cohorts 4-5.

PREPARED BY: MCHU, CHI Division, DSHS. ANALYSIS BY: MCHE, CHI Division, DSHS. DATA SOURCE: Hospital Inpatient Discharge Research Data File, 2016-2020. Birth Files, 2016-2020. CHS, DSHS.

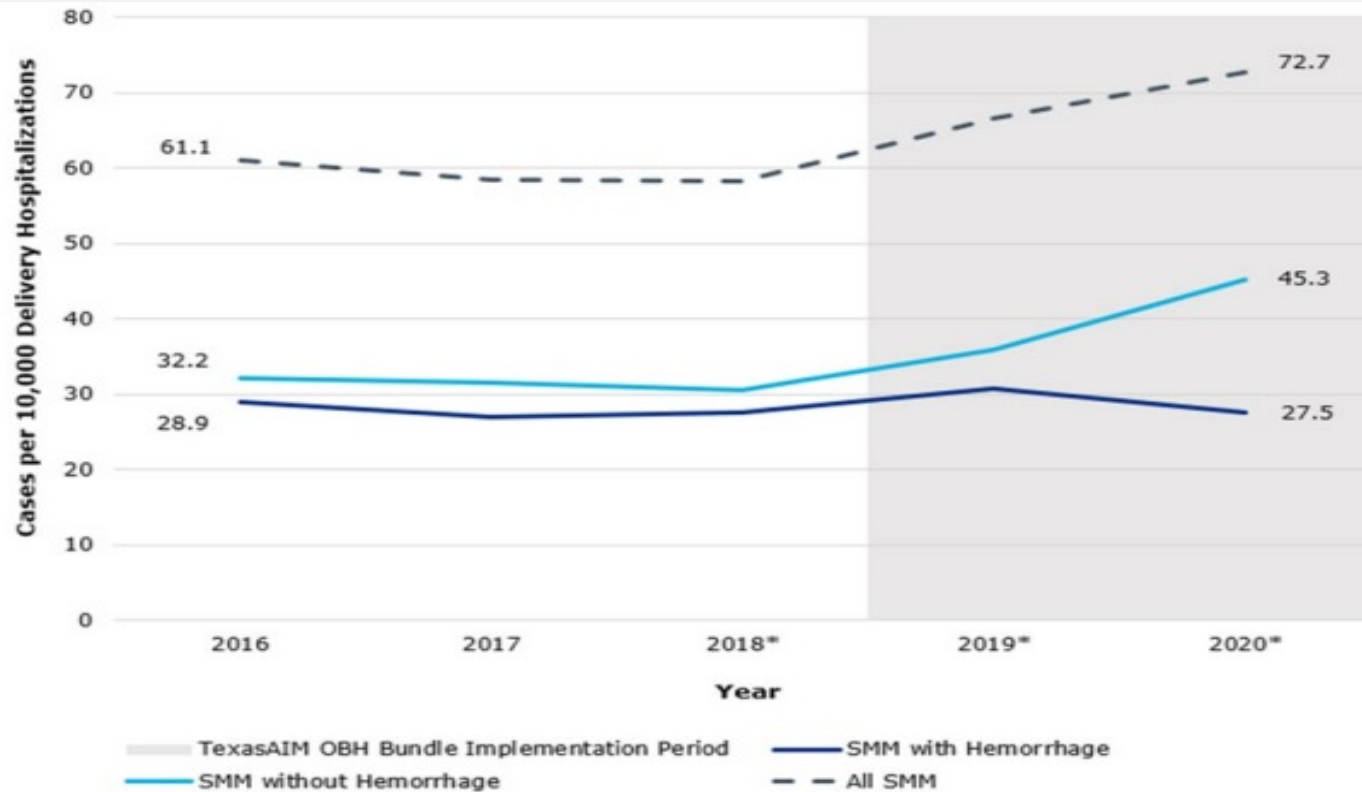
NOTES: 2018-2020 Birth Files are provisional. SMM was calculated using the Updated AIM SMM Code List, October 2021. The SMM National Workgroup recently advised calculating SMM using SMM indicators while excluding blood transfusion-only cases. Previously reported SMM rates may not be comparable. See [Federally Available Data Resource Document](#). See also, [saferbirth.org/aim-data/resources/](https://saferbirth.org/aim-data/resources/).

# Findings During for Cohorts 4-5 Slide 2

The SMM rate decreased by 11.5 percent from Baseline to Intervention Period in Obstetric Hemorrhage Cases in TexasAIM enrolled hospitals, cohorts 4-5.



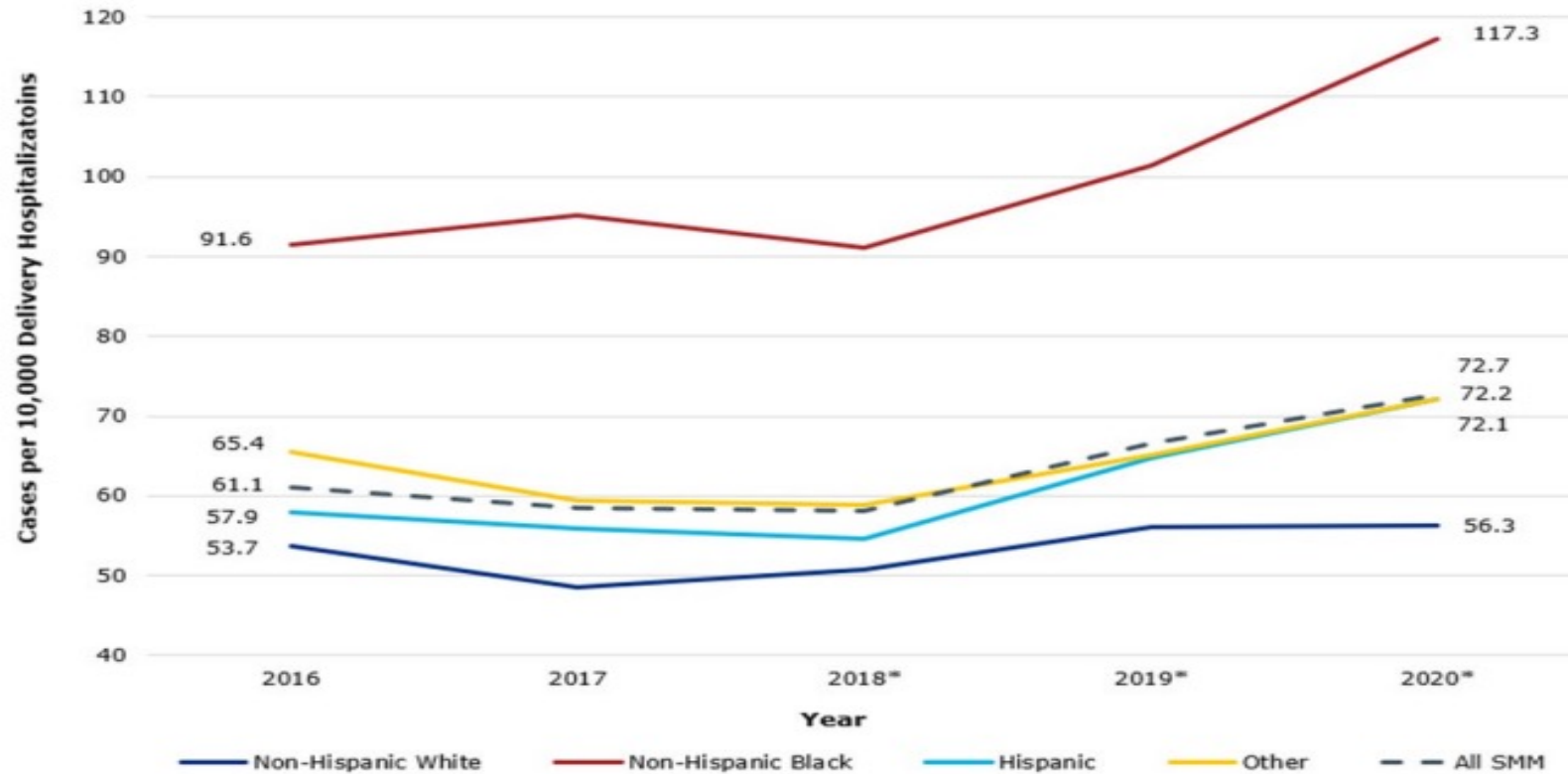
# SMM\* Among Obstetric Hemorrhage Cases During TexasAIM Implementation Period



Texas SMM Among In-Hospital Deliveries with or without Obstetric Hemorrhage per 10,000 Delivery Hospitalizations, 2016-2020.

PREPARED BY: Maternal and Child Health Epidemiologists (MCHE), Community Health Improvement (CHI) Division, DSHS. DATA SOURCE: Hospital Inpatient Discharge Research Data File, 2016-2020. Birth Files, 2016-2020. Center for Health Statistics (CHS), DSHS. NOTES: \*2018-2020 Birth Files are provisional. SMM was calculated using the Updated AIM SMM Code List, October 2021. The SMM National Workgroup recently advised calculating SMM using SMM indicators while excluding blood transfusion-only cases. Previously reported SMM rates may not be comparable. See [Federally Available Data Resource Document](#). See also, [saferbirth.org/aim-data/resources/](https://saferbirth.org/aim-data/resources/).

# SMM and SMM Disparities

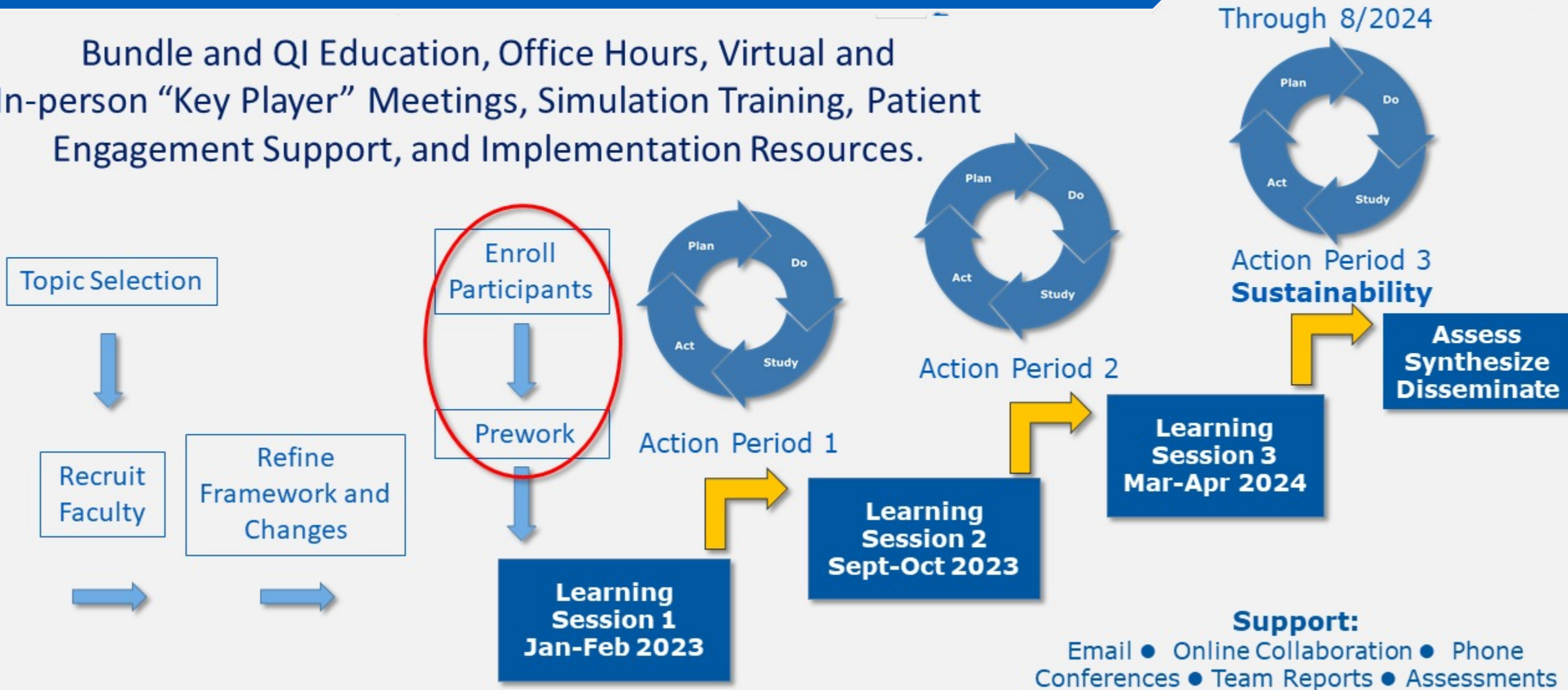


Texas SMM Among In-Hospital Deliveries by Race and Ethnicity, per 10,000 Delivery Hospitalizations, 2016-2020.

PREPARED BY: MCHE, CHI Division, DSHS. DATA SOURCE: Hospital Inpatient Discharge Research Data File, 2016-2020. Birth Files, 2016-2020. CHS, DSHS. NOTES: \*2018-2020 Birth Files are provisional. SMM was calculated using the Updated AIM SMM Code List, October 2021. The SMM National Workgroup recently advised calculating SMM using SMM indicators while excluding blood transfusion-only cases. Previously reported SMM rates may not be comparable. See [Federally Available Data Resource Document](#). See also, [saferbirth.org/aim-data/resources/](https://saferbirth.org/aim-data/resources/).

# TexasAIM Severe Hypertension Learning Collaborative 2.0

Bundle and QI Education, Office Hours, Virtual and In-person “Key Player” Meetings, Simulation Training, Patient Engagement Support, and Implementation Resources.





# Hear Her Texas Campaign

**HEAR**<sup>™</sup>  
HEAR HER CONCERNS  
TEXAS

[dshs.texas.gov/HearHerTX](https://dshs.texas.gov/HearHerTX)



Prevent maternal morbidity and mortality by increasing awareness of serious pregnancy-related complications and their warning signs.

## Goals:

- Empower women to understand their risks and related warning signs and speak up and raise concerns if something doesn't feel right.
- Encourage women's support systems to listen and advocate for care if she says something doesn't feel right.
- Encourage providers to ask questions, actively listen and to know, understand, and take action on the warning signs to ensure they don't miss any signs.

## Hear Her Texas Women's Stories

[Hear Ashley's Story](#)



[Hear Brianna's Story](#)



[Hear Carmen's Story](#)



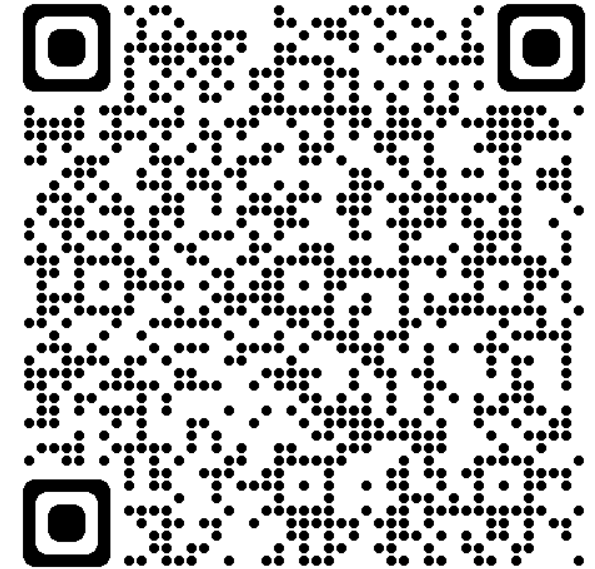
[Hear Lori's Story](#)



[Hear Leila's Story](#)



[Hear All Their Stories](#)



[tinyurl.com/HearHerTX](https://tinyurl.com/HearHerTX)

# Infant Health and Safety Campaign

Promote awareness and use among employers, hospitals, and public health partners about evidence-based strategies to increase:

## Safe Infant Sleep Practices -

- [dshs.texas.gov/SafeInfantSleep](https://dshs.texas.gov/SafeInfantSleep)
- [dshs.texas.gov/SuenoInfantilSeguro](https://dshs.texas.gov/SuenoInfantilSeguro)

## Breastfeeding support -

- Ten Steps to Successful Breastfeeding
- Texas Mother Friendly Worksite Program ([texasmotherfriendly.org](https://texasmotherfriendly.org))



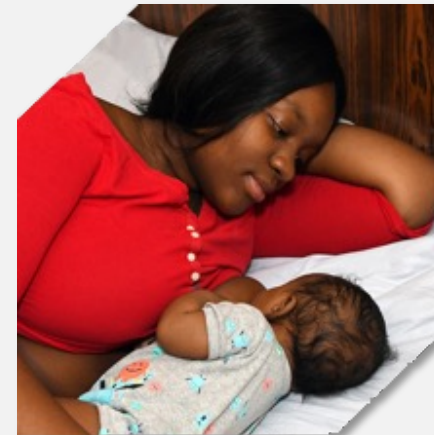
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Health Services

Learn more about safe infant sleep  
recommendations:

[dshs.texas.gov/SafeInfantSleep](https://dshs.texas.gov/SafeInfantSleep)

Adapted from the Safe to Sleep Campaign®



# Thank You

[mcheper@dshs.texas.gov](mailto:mcheper@dshs.texas.gov)

[Maternalhealth@dshs.texas.gov](mailto:Maternalhealth@dshs.texas.gov)

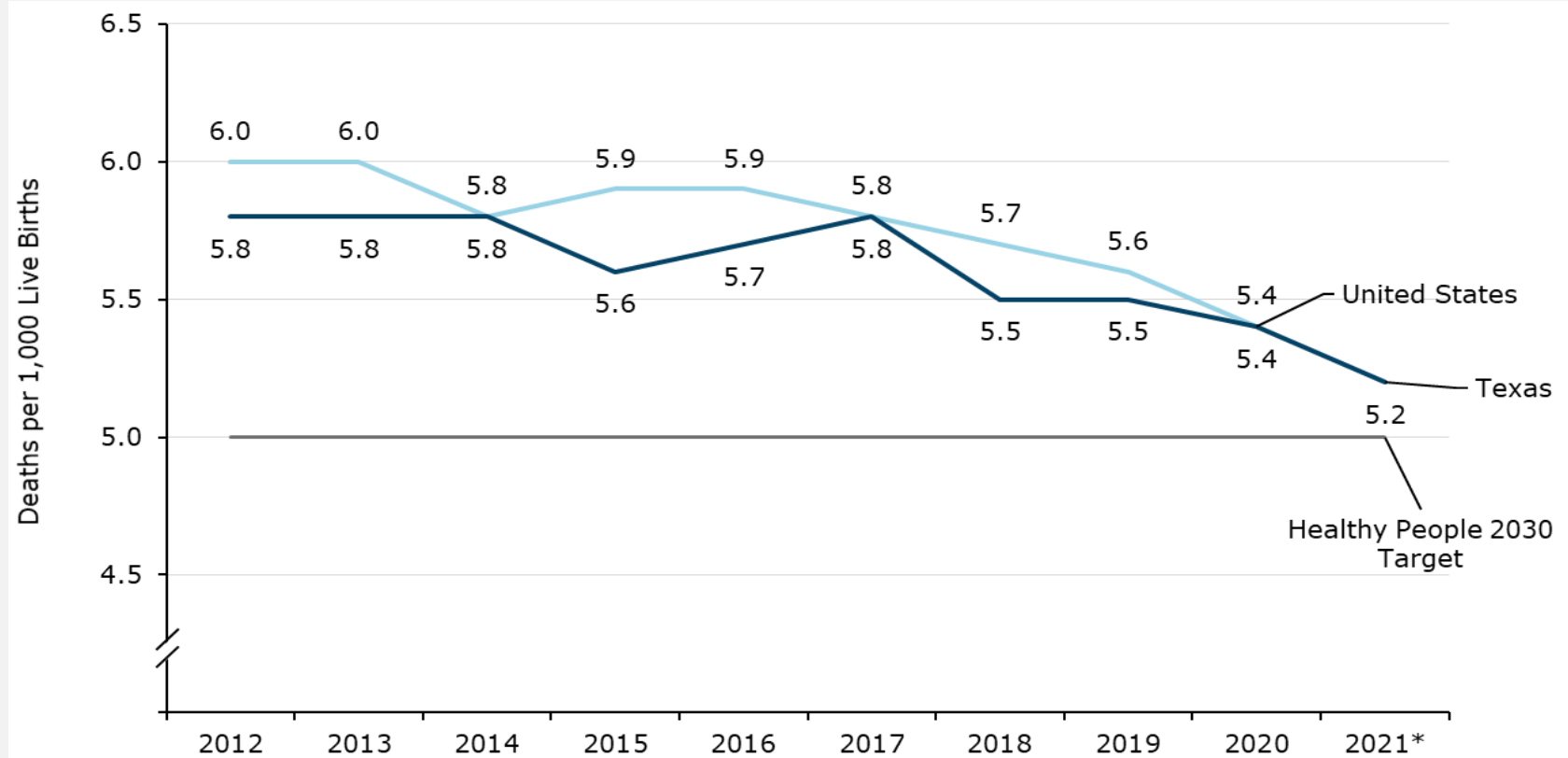
# Supplemental Data Results



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# Texas and the U.S. Infant Mortality Rate, 2012-2021



\*2021 Texas rates are provisional

Source: 2012-2021 Live Birth & Death Files, Texas Center for Health Statistics; 2012-2020 Death Files, National Center for Health Statistics; Healthy People 2030

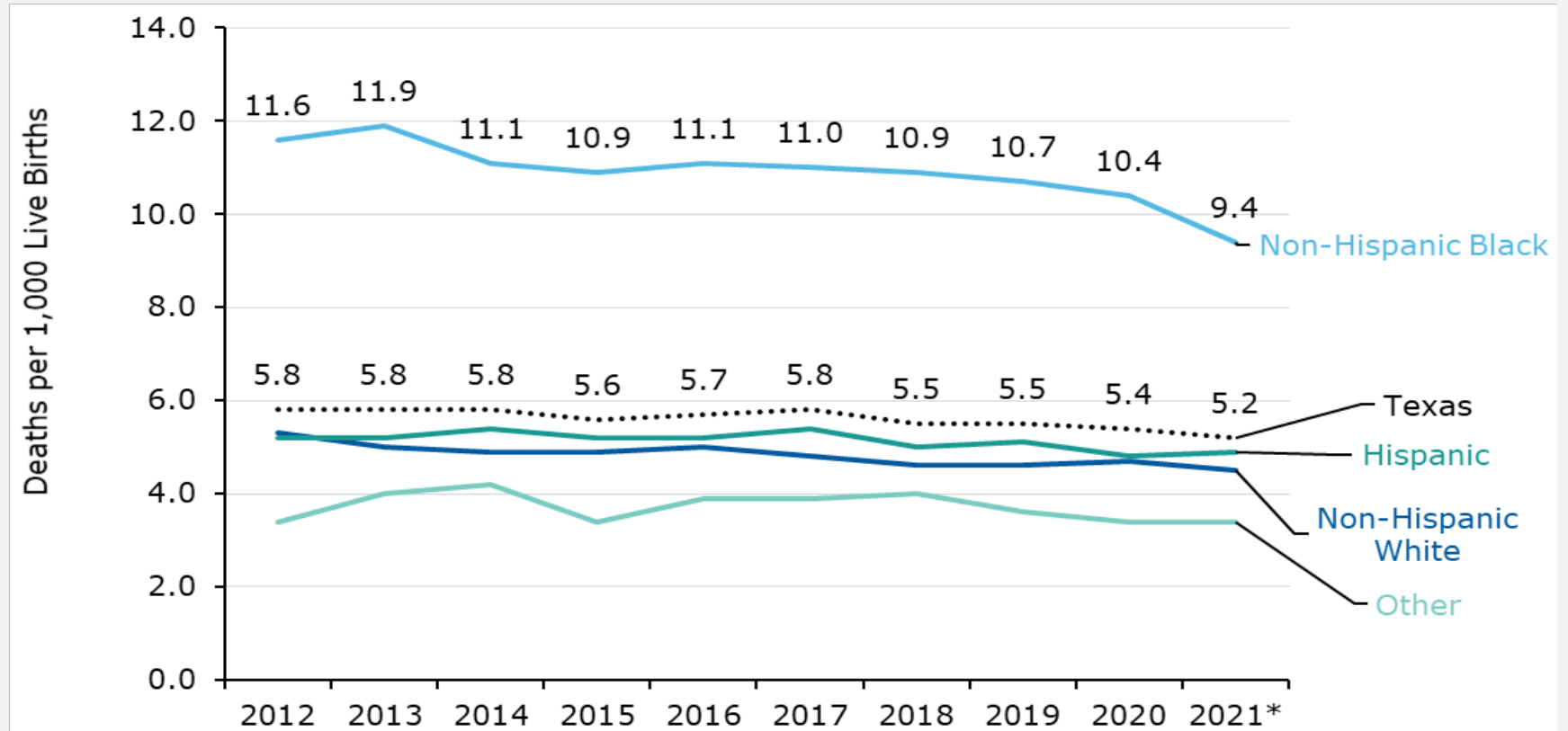
Prepared by: Maternal & Child Health Epidemiology Unit

Jan 2023



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# Texas Infant Mortality by Race & Ethnicity, 2012-2021

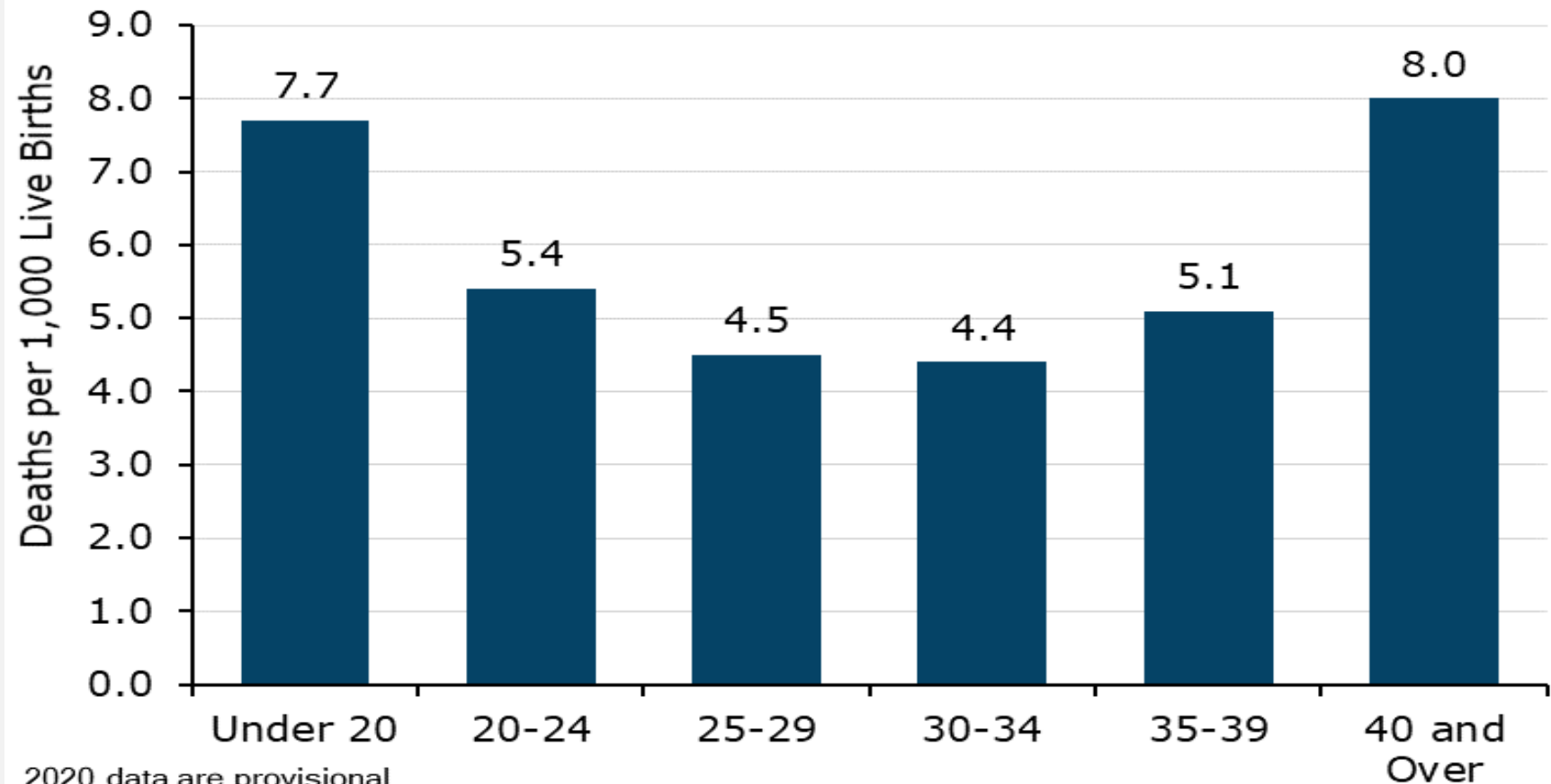


\*2021 Texas rates are provisional  
 Source: 2012-2021 Live Birth & Death Files, Texas Center for Health Statistics  
 Prepared by: Maternal & Child Health Epidemiology Unit  
 Jan 2023



Texas Department of State Health Services

# Texas Infant Mortality by Maternal Age, 2020



2020 data are provisional  
Source: 2020 Linked Birth-Death Files, Texas Center for Health Statistics  
Prepared by: Maternal & Child Health Epidemiology Unit  
Jan 2023



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Texas Collaborative for  
Healthy Mothers & Babies

**2023 TCHMB Summit**

February 16-17

**BREAK**

09:45 – 10:00 am

Check in for **Day 1**  
by scanning this QR code:

