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, Pediatric 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
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
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.

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.
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
Jan 2023
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
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
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 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 Severe Maternal Morbidity (SMM), 2016-2020

*C2018, 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 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 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
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.

<table>
<thead>
<tr>
<th>Healthy Women</th>
<th>Healthy Mothers</th>
<th>Healthy Babies</th>
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<tbody>
<tr>
<td><strong>Maternal and Child Health Knowledge, Leadership, and Partners</strong></td>
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<td><strong>Individual and Public Awareness and Knowledge</strong></td>
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<tr>
<td>Increase Knowledge to Change Attitudes and Behaviors for Improved Maternal and Infant Health Outcomes</td>
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<td><strong>Professional Education</strong></td>
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<tr>
<td>Strengthen Competencies and Prepare Professionals to Transmit Knowledge, Skills, and Motivation to Patients, Clients, and Colleagues</td>
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<td><strong>Community Empowerment</strong></td>
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<td>Engage Community Partners to Strengthen Networks for Collaboration, Innovation, and Collective Impact</td>
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<td><strong>Community Improvement</strong></td>
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<td>Foster Development of Policy, Systems and Environments to Reduce Barriers, Promote Healthy Lifestyle Choices, and Optimize Maternal and Infant Health Outcomes</td>
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<td><strong>Perinatal Quality Improvement Network</strong></td>
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<td>Drive System Changes to Support Adoption and Diffusion of Quality Improvements for Maternal and Infant Health and Safety</td>
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| **Maternal and Child Health Epidemiology, Surveillance, Research, and Analytics** |
| **Texas Maternal Mortality & Morbidity Review Committee** |
| CDC ERASE MM Program |
| TexasAIM Initiatives |
| Texas Collaborative for Healthy Mothers and Babies |
| Texas Strategic Action Partnership to Reduce Violent Pregnancy-Associated Deaths |
| Texas Star Achiever Initiative |

- Hear Her Texas Maternal Health & Safety Campaign
- Healthy Texas Babies Infant Health and Safety Campaign
- Lactation Support Hotline
- After Hours Services and Strategic Expansion Program
- HTMB Peer Dads Program
- Right from the Start Campaign
- Information for Parents of Newborn Children Pamphlet
- TCHMB Annual Summit
- DSHS Grand Rounds
- Online Provider Education Webinars, Workshops, Seminars, and Technical Trainings
- Train the Trainer Courses
- HTMB Community Coalitions
- Collaborative improvement and Innovation Networks
- State and National Networks
- Community Forums and Listening Sessions
- High-Risk Maternal Care Coordination Services Pilot
- Texas Mother-Friendly Worksite Program
- Infant Sleep Safety
- Smoke Free Environments
2022 Maternal Health Reports

tinyurl.com/MMMRC2022

Texas Maternal Mortality and Morbidity Review Committee and Department of State Health Services Joint Biennial Report 2022

As Required by Texas Health and Safety Code, Section 34.015

December 2022

This report covers a partial cohort for maternal deaths that occurred in 2019. OSHS will issue an update to the report following final analysis of the 2019 cohort.

tinyurl.com/MHSReport2022

Maternal Health and Safety Initiatives Biennial Report 2022

As Required by Texas Health and Safety Code, Sections 34.0156 and 1001.264

December 2022
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
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.

The SMM rate decreased by 6.2 percent from Baseline to Intervention Period in Obstetric Hemorrhage Cases in TexasAIM enrolled hospitals, 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.
The SMM rate decreased by 11.5 percent from Baseline to Intervention Period in Obstetric Hemorrhage Cases in TexasAIM enrolled hospitals, cohorts 4-5.
Texas SMM Among In-Hospital Deliveries with or without Obstetric Hemorrhage per 10,000 Delivery Hospitalizations, 2016-2020.
Texas SMM Among In-Hospital Deliveries by Race and Ethnicity, per 10,000 Delivery Hospitalizations, 2016-2020.
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.

Support:
- Email
- Online Collaboration
- Phone Conferences
- Team Reports
- Assessments

Action Period 1
- Learning Session 1
  - Jan-Feb 2023
- Action Period 2
  - Learning Session 2
    - Sept-Oct 2023
- Action Period 3
  - Learning Session 3
    - Mar-Apr 2024

Through 8/2024

Recruit Faculty
Refine Framework and Changes
Enroll Participants
Prework
Hear Her Texas Campaign

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.
<table>
<thead>
<tr>
<th>Hear Ashley's Story</th>
<th>Hear Brianna's Story</th>
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<tbody>
<tr>
<td><img src="image1" alt="Image" /></td>
<td><img src="image2" alt="Image" /></td>
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<tr>
<td>Hear Carmen's Story</td>
<td>Hear Lori's Story</td>
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<td><img src="image3" alt="Image" /></td>
<td><img src="image4" alt="Image" /></td>
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<tr>
<td>Hear Leila's Story</td>
<td>Hear All Their Stories</td>
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<td><img src="image5" alt="Image" /></td>
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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
• dshs.texas.gov/SuenoInfantilSeguro

Breastfeeding support -
• Ten Steps to Successful Breastfeeding
• Texas Mother Friendly Worksite Program (texasmotherfriendly.org)
Thank You

mchepi@dshs.texas.gov
Maternalhealth@dshs.texas.gov
Supplemental Data Results
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
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 Infant Mortality by Maternal Age, 2020

Deaths per 1,000 Live Births

<table>
<thead>
<tr>
<th>Age</th>
<th>Death Rate</th>
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<tbody>
<tr>
<td>Under 20</td>
<td>7.7</td>
</tr>
<tr>
<td>20-24</td>
<td>5.4</td>
</tr>
<tr>
<td>25-29</td>
<td>4.5</td>
</tr>
<tr>
<td>30-34</td>
<td>4.4</td>
</tr>
<tr>
<td>35-39</td>
<td>5.1</td>
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<tr>
<td>40 and Over</td>
<td>8.0</td>
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</tbody>
</table>

2020 data are provisional

Source: 2020 Linked Birth-Death Files, Texas Center for Heath Statistics
Prepared by: Maternal & Child Health Epidemiology Unit
Jan 2023
BREAK
09:45 – 10:00 am