

Surveillance and Prevention with Maternal Mortality Review Committees

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Surveillance and Prevention with Maternal Mortality Review Committees

Julie Zaharatos, MPH, Maternal Mortality Prevention Team CDC Division of Reproductive Health





The data we have

	National (CDC) – National Vital Statistics System (NVSS)	National (CDC) – Pregnancy Mortality Surveillance System (PMSS)	State and Local Maternal Mortality Review Committees (MMRCs)		
Data Source	Death records	Death records, and death records linked birth or fetal death records, additional information as available	Death records, and death records linked birth or fetal death records, medical records, social service records, autopsy, informant interviews, etc.		
Time Frame	During pregnancy – 42 days	During pregnancy – 1 year	During pregnancy – 1 year		
Source of Classification	ICD-10 codes	Medical epidemiologists	Multidisciplinary committees		
Terms	Maternal death	Pregnancy associated, (Associated and) Pregnancy related, (Associated but) Not pregnancy related	Pregnancy associated, (Associated and) Pregnancy related, (Associated but) Not pregnancy related		
Measure	Maternal Mortality Rate - # of Maternal Deaths per 100,000 live births	Pregnancy Related Mortality Ratio - # of Pregnancy Related Deaths per 100,000 live births	Pregnancy Related Mortality Ratio - # of Pregnancy Related Deaths per 100,000 live births		
Purpose	Show national trends and provide a basis for international comparison	Analyze clinical factors associated with deaths, publish information that may lead to prevention strategies	Understand medical and non-medical contributors to deaths, inform prioritization of interventions that effectively reduce pregnancy- related deaths		

Adapted from: St. Pierre A, Zaharatos J, Goodman D, Callaghan WM. Challenges and opportunities in identifying, reviewing, and preventing maternal deaths. *Obstet Gynecol*. 2018;131(1):138–142.

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related deaths

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700

Each year in the U.S., about 700 women die as a result of pregnancy complications

2 – 3x

Black and AI/AN women are 2 – 3 times more likely to die of pregnancy-related causes than white women



Pregnancy-associated death: the death of a person while pregnant or within one year of pregnancy, regardless of cause (may be related or unrelated to pregnancy)

Pregnancy-associated, but not related, death: the death of a person while pregnant, or within one year of pregnancy, from a cause that is unrelated to pregnancy

Pregnancy-related death: the death of a person while pregnant or within one year of pregnancy from a pregnancy complication, a chain of events initiated by pregnancy, or the aggravation of an unrelated condition by the physiologic effects of pregnancy



<u>https://reviewtoaction.org/content/mmria-committee-facilitation-guide</u> Graphic sourced from: South Dakota Department of Health <u>https://doh.sd.gov/statistics/maternalmortality.aspx</u>

Pregnancy-Related Mortality, PMSS, 1999-2018: Not Improving



PMSS: State Variation



Pregnancy-related Mortality Ratio by State and Washington, DC, 2007-2016

PMSS: State Variation

Black PRMR ÷ White PRMR

Native PRMR ÷ White PRMR

Pregnancy-related Mortality Ratio by State and Washington, DC, 2007-2016



Petersen EE, Davis NL, Goodman D, et al. Racial/Ethnic Disparities in Pregnancy-Related Deaths — United States, 2007–2016. MMWR Morb Mortal Wkly Rep 2019;68:762–765

PMSS: by age grouping

Pregnancy-related Mortality Ratio by Race-Ethnicity and Age, 2007-2016



Petersen EE, Davis NL, Goodman D, et al. Racial/Ethnic Disparities in Pregnancy-Related Deaths — United States, 2007–2016. MMWR Morb Mortal Wkly Rep 2019;68:762–765 *>40 for Al/AN due to suppression rules

PMSS: by timing of death in relation to pregnancy





During delivery and up to 1 week afterward



Jurisdiction-level Maternal Mortality Review Committees provide local maternal mortality data



State and Local Maternal Mortality Review Committees (MMRCs)

Data Source	Death certificates and death certificates linked to birth or fetal death certificates, medical records, social service records, autopsy, informant interviews, etc.
Time Frame	During pregnancy – 1 year
Source of Classification	Multidisciplinary committees
Terms	Pregnancy associated, (Associated and) Pregnancy related, (Associated but) Not pregnancy related
Measure	Pregnancy Related Mortality Ratio - # of Pregnancy Related Deaths per 100,000 live births
Purpose	Understand medical and non-medical contributors to deaths, inform prioritization of interventions to effectively reduce pregnancy-related deaths

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Maternal Mortality Review IS NOT

- A mechanism for assigning blame or responsibility for any death
- A research study
- Peer review
 - It does not disclose facility or providers involved
- An institutional review
- A substitute for existing mortality and morbidity inquiries

Berg, C., Danel, I., Atrash H., Zane, S. Bartlett, L. (Eds.). Strategies to reduce pregnancy-related deaths: From identification and review to action. Atlanta: Centers for Disease Control and Prevention; 2001

Maternal Mortality Review IS

- Ongoing anonymous and confidential process of data collection, analysis, interpretation and action
- Systematic process guided by policies, statutes, rules, etc.
- Intended to move from data collection to prevention activities

Maternal Mortality Review Committees*

MMRCs gather data from multiple sources to determine

- pregnancy-relatedness,
- underlying cause,
- preventability,
- contributing factors and
- recommendations for action.

*To connect with an MMRC near you visit https://www.reviewtoaction.org/tools/networking-map



Identifying pregnancy-associated deaths

Maternal Mortality Review Committees (MMRCs) rely on death certificates, birth certificates and fetal death certificates to identify pregnancy-associated deaths

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Abstracting and reviewing pregnancy-associated deaths

- Significant medical and social history
- Prenatal care
- ED visits / hospitalizations
- Screening / treatment / referral
- Access to care (available/accessible)



MMRIA is a CDC data system that provides a common data language for MMRCs, facilitating their functions and promoting a national approach.

MATERNAL MORTALITY REVIEW INFORMATION APP

Existing Maternal Mortality Review Committees (MMRCs)



Review to Action

Staff present each *selected case* to the MMRC using the case narrative

MMRC discusses and makes key decisions about each death

Enter key decisions into MMRIA Analyze data, identify key issues and recommendation themes

Prioritize and disseminate findings

Adapted from WA State DOH

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What have we learned from MMRCs?

Leading causes of pregnancy-related deaths



*Embolism includes thrombotic pulmonary or other embolism (i.e., air, septic, or fat). It does not include amniotic fluid embolism. Davis NL, Smoots AN, Goodman DA. Pregnancy-Related Deaths: Data from 14 U.S. Maternal Mortality Review Committees, 2008-2017. Atlanta, GA: Centers for Disease Control and Prevention, U.S. Department of Health and Human Services; 2019

Leading causes vary by race-ethnicity: 14 MMRCs



Data Source: https://www.cdc.gov/reproductivehealth/maternal-mortality/erase-mm/mmr-data-brief.html

Notes: * Embolism – thrombotic pulmonary and other embolisms

	Contributing Factor	Recommendations to Address Contributing Factor				
	Access to clinical care	Expand office hours; Increase number of providers who accept Medicaid; Increase availability of group prenatal care				
ity	Unstable housing	Prioritize pregnant women for temporary housing programs				
Facil	Lack of/inadequate transportation options	Strengthen/build systems that link persons to affordable transportation; Provide vouchers for non-emergency transportation				
and	Obesity and associated chronic condition complications	Improve access to healthy food options; Improve education and promotion of health eating habits and weight management strategies				
Community	Limited experience with OB emergencies	Implement OB emergency simulation training for Emergency Dept. staff; Ensure Emergency Dept staff ask about recent pregnancy history and consult with OB on call if pregnant within prior year				
	Lack of appropriate personnel or services	Increase access to telemedicine by facilities with no OB onsite; Ensure Medicaid managed care organizations' contracts include sufficient access to high risk care specialists				
	Lack of guiding protocols	Ensure sepsis, hemorrhage, and mass transfusion protocols are in place and monitor for staff use; Develop/implement relevant patient safety bundles; Implement systems that foster care coordination across providers; Increase use of patient navigators				

	Contributing Factor	Recommendations to Address Contributing Factor				
	Lack knowledge of warning signs or need to seek care	Improve counseling and increase use of patient education materials on warning signs and when to seek care, such as the AWHONN <i>Save Your Life</i> discharge instructions				
nd Provider	Non-adherence to medical regimens or advice	Standardize patient education to ensure providers communicate consistent messages; Implement techniques that ensure patient understanding, such as patient "teaching back" to the provider; Make education materials available in clinic and online; Strengthen/expand access to patient navigators, case managers, and peer support; Ensure access/use of interpreter services when needed; Increase home health or social work follow-up services				
Patient ar	Missed/delayed diagnosis	Repeat blood pressure measurement in a timely manner (and perhaps manually) when initial blood pressure result is unexpected; Offer/expand non-OB provider education on cardiac conditions in pregnant and postpartum women; Increase the thorough evaluation of patients with pain and shortness of breath				
	Inappropriate/delayed treatment	Establish polices and protocols that support only performing cesarean deliveries when medically indicated; Implement a maternal early warning system				
	Lack of continuity of care	Improve care transition protocols and communication between OB providers and primary care providers and specialty care providers				

	Contributing Factor	Recommendations to Address Contributing Factor				
System(s)	Inadequate receipt of care	Develop/expand implementation of policies that ensure women deliver at/are transported to a hospital with a level of maternal care that matches her health risk; Enlist state perinatal quality collaboratives to identify quality improvement procedures and periodic drills/simulation training for birth facilities, including OB emergencies; Design/expand implementation of education initiatives				
	Case coordination/management	Extend/expand Medicaid eligibility for pregnant women to include 1 year of postpartum care; Create a quality improvement entity to manage outpatient care gaps and implement and monitor care coordination improvements; Develop/implement a postpartum care bundle that integrates services for high risk women; Develop and implement protocols and polices that improve hospital documentation of abnormal test results, follow-up care plans, and condition management plans; Develop a universal electronic health record system that allows sharing medical records within and between hospitals				
	Guiding policies, procedures, or standards not in place	Develop and implement protocols and policies that increase timely referrals and consultation; Increase (and monitor for) consistency of protocols and policies within healthcare systems				

Example of using qualitative analysis for a deeper understanding of MMRIA data on substance use

- MMRIA qualitative analysis showed fragmentation of screening for substance use disorder was commonly noted in case narratives and contributing factors.
- Individuals experienced:

Housing instability including homelessness
Violence* sometimes across their lifespan
Incarceration history
Financial instability/unemployment
Loss of child/children/pregnancy**

Only 50% of pregnancy-associated drug overdose deaths had substance use documented in the prenatal records



*Violence includes intimate partner violence, domestic violence, personal and familial violence including physical and sexual abuse, and childhood trauma. **Loss of child/children/pregnancy: defined as the death or loss child including stillbirth and induced termination or spontaneous loss of pregnancy, removal of a child by Child Protective Services, or loss of child to custody issues.

Identifying, Documenting, and Addressing Bias



Discrimination: treating someone more or less favorably based on the group, class or category they belong to resulting from biases, prejudices, and stereotyping. It can manifest as differences in care, clinical communication and shared decision-making. Interpersonal Racism: discriminatory interactions between individuals resulting in differential assumptions about the abilities, motives, and intentions of others and differential actions toward others based on their race. It can be conscious as well as unconscious, and it includes acts of commission and acts of omission. It manifests as lack of respect, suspicion, devaluation, scapegoating, and dehumanization.

Structural Racism: the systems of power based on historical injustices and contemporary social factors that systematically disadvantage people of color and advantage white people through inequities in housing, education, employment, earnings, benefits, credit, media, health care, criminal justice, etc.

Community Vital Signs dashboards for additional context

- Community Vital Signs dashboard data supports maternal mortality reviews by comparing community health indicators where the pregnant or postpartum person lived to those of all pregnant or postpartum persons in the same state or in the US.
- Community Vital Signs dashboards for MMRIA users expected by Fall 2022 through partnership with HHS Office of Minority Health and Emory University.



Review to Action

MMRC reviews cases using the case narrative

MMRC discusses and makes key recommendations for action about each death

Enter key decisions into MMRIA Analyze data, identify key issues and recommendations themes Prioritize and disseminate findings to inform action



Moving Data to Action to Prevent Maternal Mortality



In partnership with clinical and public health and community leadership and organizations, the recommendations from MMRCs can inform strategies to prevent maternal mortality within a state and local context.

MMRC reviews cases using the case narrative

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https://www.cdc.gov/reproductivehealth/maternalmortality/preventing-pregnancy-related-deaths/statestrategies.html

STATE STRATEGIES FOR PREVENTING PREGNANCY-RELATED DEATHS:

A Guide for Moving Maternal Mortality Review Committee Data to Action











https://www.cdc.gov/reproductivehealth/maternal-mortality/preventing-pregnancy-related-deaths/state-strategies.html

The 4 Iterative Steps.

Step 1. Use Data to Understand the Scope of the Problem

• Identify and review complementary information, such as from PRAMS

Step 2. Understand the Context of the Solution

 Based on who, what, when of MMRC recommendations assess current activities, partnerships, and resources

Step 3. Identify Potential Goals and Strategies

• Provides 5 example goals and strategies based on CDC experiences with MMRCs and MMRC data

Step 4. Act on Your Strategies

• Covers assessing strategies for fit, implementation planning, and evaluation


All Steps— Apply an Equity Lens

Applying an equity lens means taking **deliberate** steps to

- Be sure every mother's life is valued equally
 - Ensuring respectful care, client centered care, and a diverse workforce
- Understand the impacts of historical trauma and the role of inequitable institutional structures
 - Expanding insurance coverage, paid family leave policies, and earned income tax credits
- Consider patient and community perspectives
 - Engaging communities in prevention, and recognizing and building upon community assets



All Steps— Continuously Monitor and Review

Throughout the process, it is important to **systematically** examine progress:

- Data from population-based data sources can be used for process and outcome evaluation
- Community and organizational factors and resources may be inputs for the implementation plans
- Assessing whether the strategies selected for action are having the intended effect (evaluation) contributes to the evidence-base
- Stratifying indicators for process evaluations by race/ethnicity can identify which factors need directed attention to close the disparity gaps



https://www.cdc.gov/reproductivehealth/maternal-mortality/preventing-pregnancy-related-deaths/state-strategies.html

Data informing action



Data to make a difference—MMRCs are a cornerstone of action, connecting data-informed strategies to improve outcomes and save the lives of moms









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Arizona	Louisiana		
Colorado	Mississippi		
Delaware	North Carolina		
Florida	Ohio		
Georgia	South Carolina		
Hawaii	Tennessee		
Illinois	Utah		

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Thank you!

For more information, visit <u>www.cdc.gov/erasemm</u> or contact: <u>erasemm@cdc.gov</u>



The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.



Surveillance and Prevention with Maternal Mortality Review Committees

Lisa M. Hollier, MD, MPH, FACOG Past Chair, Texas Maternal Mortality and Morbidity Review Committee



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Adapted from WA State DOH

Review to Action

MMRC reviews cases using the case narrative

MMRC discuses and makes key recommendations for action about each death

Enter key decisions into MMRIA Analyze data, identify key issues and recommendation themes Prioritize and disseminate findings to inform action Recommendations catalyze partnerships and common goals for clinical, public health and community

Adapted from WA State DOH

The 4 Iterative Steps

Step 1. Use Data to Understand the Scope of the Problem

Identify and review complementary information

Step 2. Understand the Context of the Solution

Assess current activities, partnerships, and resources

Step 3. Identify Potential Goals and Strategies

Look for common goals

Step 4. Act on Your Strategies

Work together – whether it is legislatively or directly implementing initiatives

State Strategies for Preventing Pregnancy-Related Deaths: A Guide for Moving Maternal Mortality Review Committee Data to Action. CDC/NCCDPHP/DRH



Texas MMMRC History

- Established by legislation under the Texas Department of State Health Services as a "Task Force" in 2013 and updated to "Review Committee" in 2019
- > Duties by Statute amended in 2017
 - Study and Review
 - Trends, rates, or disparities in pregnancy-related deaths
 - Health conditions and factors that disproportionately affect the most at risk populations
 - Best practices and programs operating in other states that have reduced rates of pregnancyrelated deaths
 - Compare rates of pregnancy-related deaths based on SES of the mother
 - Determine the feasibility of the review committee reviewing cases of SMM
 - Consult with PAC when making recommendations to reduce MM and SMM

MMMTF Biennial Report 2018



Maternal Mortality and Morbidity Task Force and Department of State Health Services Joint Biennial Report

HTTPS://WWW.DSHS.TEXAS.GOV/MCH/MATERNAL_MORTALITY_AND_MORBIDITY.SHTM

Pregnancy-Related Deaths, 2012



Maternal & Child Health Epidemiology, Division for Community Health Improvement, DSHS.

Pregnancy-Associated Deaths, 2012-2015

	Cause of Death	While Pregnant	0-7 Days Postpartum	8-42 Days Postpartum	43-365 Days Postpartum	Total
	Drug Overdose	0	3	7	54	64
•	Cardiac Event	2	12	9	32	55
	Homicide	2	1	5	34	42
	Suicide	0	1	2	30	33
	Infection/Sepsis	1	3	14	14	32
Cerek	orovascular Event	0	8	9	10	27
	Hemorrhage	3	12	2	3	20
Hyperte	ension/Eclampsia	0	7	4	7	18
Pulr	monary Embolism	2	3	4	4	13
Amniot	ic Fluid Embolism	1	9	0	0	10
	Other	5	5	8	50	68
	Total	16	64	64	215	382

Maternal & Child Health Epidemiology, Division for Community Health Improvement, DSHS.

Role of Overdoses in Pregnancy-Associated Deaths, 2012-2015

- Drug overdose leading cause of maternal death, mostly occurring after 60 days postpartum
 - Combination of drugs involved in 66%
 - Opioids detected in 58%
- > Demographic groups at higher risk:
 - White women
 - Ages 40+
 - Medicaid at delivery
 - Urban counties

Contributing Factors

Patient/Family Level

Chronic DiseaseDelay

https://www.dshs.texas.gov/mch/maternal_mortality_and_morbidity.shtm

Contributing Factor: Chronic Disease

Example Committee Description of Chronic Disease contribution to death

• Complex medical issues during pregnancy with no single point of contact. Need for case management.

Recommendation to address

 Prioritize care coordination and management for pregnant and postpartum women, specifically expanding care management services for pregnant and postpartum women to provide education, service coordination, and advocacy for women's needs.

Chronic Disease AND Delay

Care Coordination

Texas Legislature appropriated funds for DSHS to develop and establish a highrisk maternal care coordination services pilot for women of childbearing age

Patient/Family/Provider Education

Funds appropriated for DSHS to develop public awareness campaigns



Contributing Factors

Provider Level

- Assessment
- Referral
- Clinical Skill
- Delay

Facility Level

- Assessment
- Clinical Skill
- Continuity of Care

Contributing Factors: Assessment & Delay

Example Committee Description of Assessment contribution to death

• Patient had risk factors for hemorrhage but she was not identified as high risk, early warning signs of hemorrhage were missed and there was delay in appropriate treatment.

Recommendations to address

 Promote a culture of safety and high reliability through implementation of best practices in birthing facilities. Specifically, continue support and promotion of state maternal safety initiatives that foster a culture of safety and high reliability of care.

Rapid Assessment and Appropriate Treatment

Texas Legislature

- Added "Maternal Health and Safety Initiative" into the Texas Health and Safety Code
- Added "Opioid Use Disorder Initiative" to Texas Health and Safety Code
- Subsequently appropriated funds for program staff and implementation of safety bundles

Texas DSHS

- Created the TexasAIM program and >99% of Texas birthing hospitals voluntarily enrolled
- Included standardized MEWS processes (led by TCHMB) in hospitals that provide maternity services



Texas Department of State Health Services

TexasAIM

Obstetric	Severe	Opioid Use
Hemorrhage	Hypertension	Disorder
 First bundle	 Second bundle	 Pilot project
statewide	statewide	with 10
implementation	implementation	experienced
2019	2020	facilities

 During COVID, the TexasAIM OB Learning Collaborative pivoted to providing support to hospitals who were treating COVID patients.



Pregnancy-Associated Deaths with OUD

- AIM national released a new Substance Use Disorder Bundle to be relaunched in Texas fall of 2022
- Community organizations partnering with others in on-going work:
 - SBIRT Training for providers
 - Expanded access to MAT
 - Training on Trauma-Informed Care and strategies to reduce stigma/bias
 - Development of Plans of Safe Care
 - Care Coordination Program will include screening for SUD

Contributing Factors

Systems/Community Level

AccessOutreach

https://www.dshs.texas.gov/mch/maternal_mortality_and_morbidity.shtm

Contributing Factor: Access

Example Committee Description of Access contribution to death

• Patient had medical complications but was unable to access necessary care between pregnancies

Recommendations to address

 Increase access to health services during the year after pregnancy and throughout the interconception period to improve the health of women, facilitate continuity of care, enable effective care transitions, and promote safe birth spacing. Specifically, the TF recommended extending access to healthcare coverage for 12 months following delivery.

Access and Coverage

Advocacy Efforts

- Medical organizations including Texas Medical Association (along with specialty organizations) worked together
- Hospitals and Hospital-systems
- Community-based organizations

Texas Legislature

- Expanded the Healthy Texas Women program to include a "plus" version with additional services/supports in 2019
- Extended postpartum Medicaid coverage for an additional 4 months (total of 6 months of coverage) in 2021



Thank you for your time today

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Questions

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