

Surveillance and Prevention with Maternal Mortality Review Committees

Wednesday, June 29, 2022





Julie Zaharatos, MPH

Partnerships & Resources

Maternal Mortality Prevention Team

Division of Reproductive Health,

National Center for Chronic Disease Prevention

and Health Promotion, CDC

Lisa Hollier, M.D., MPH
Professor of Obstetrics and Gynecology
Baylor College of Medicine

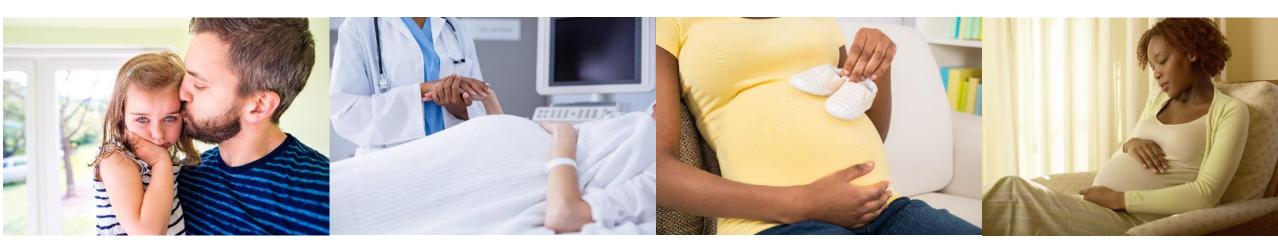






Surveillance and Prevention with Maternal Mortality Review Committees

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.

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.

700

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

2-3x

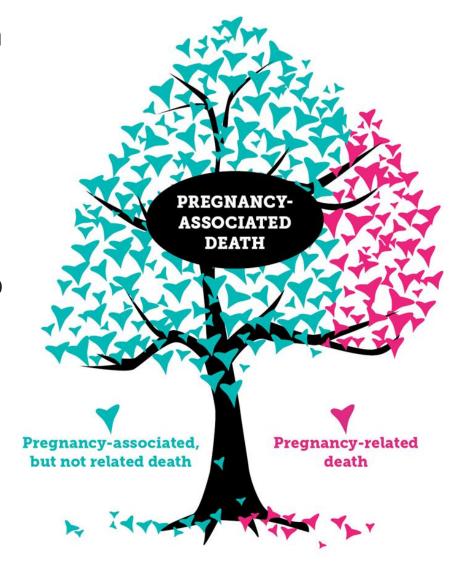
Black and AI/AN women are 2 – 3 times more likely to die of pregnancy-related causes than white women



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)

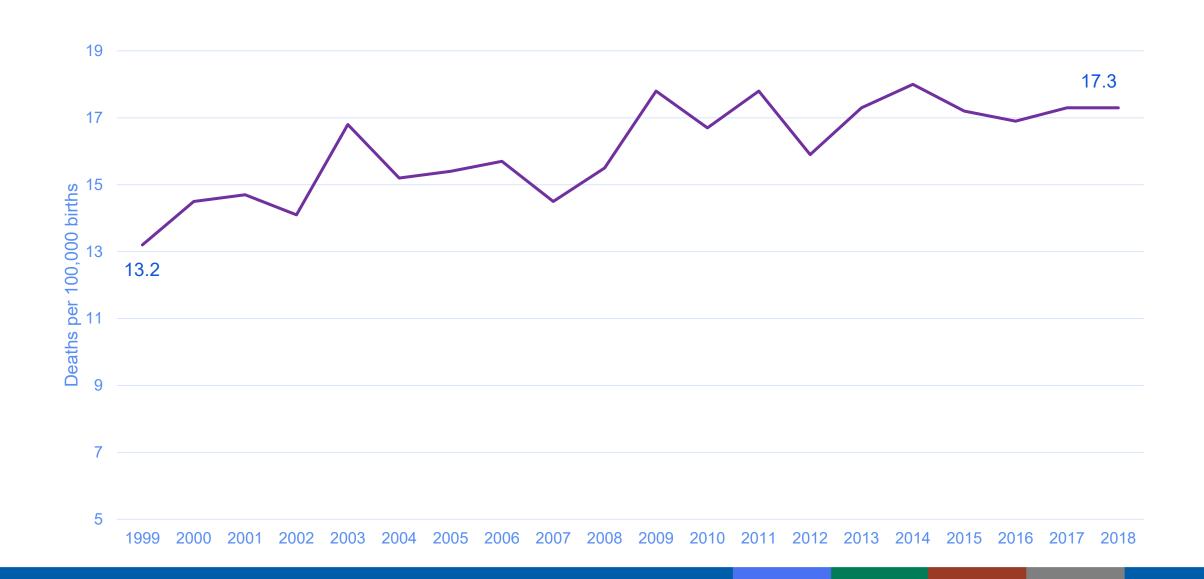
Pregnancy-associated, but not related, death: the death of a person while pregnant, or within one year of pregnancy, from a cause that is unrelated to pregnancy

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

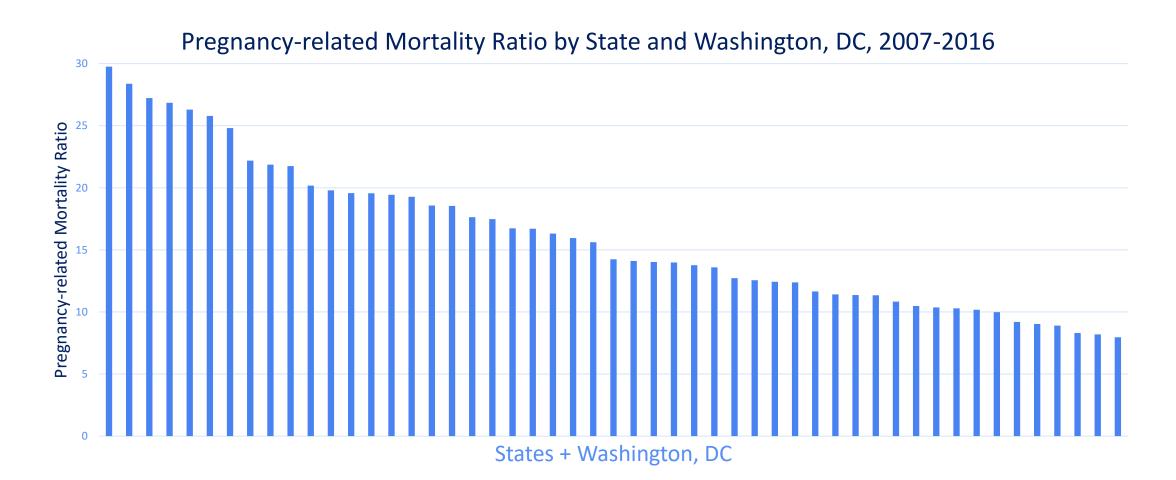


https://reviewtoaction.org/content/mmria-committee-facilitation-guide
Graphic sourced from: South Dakota Department of Health https://doh.sd.gov/statistics/maternalmortality.aspx

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



PMSS: State Variation

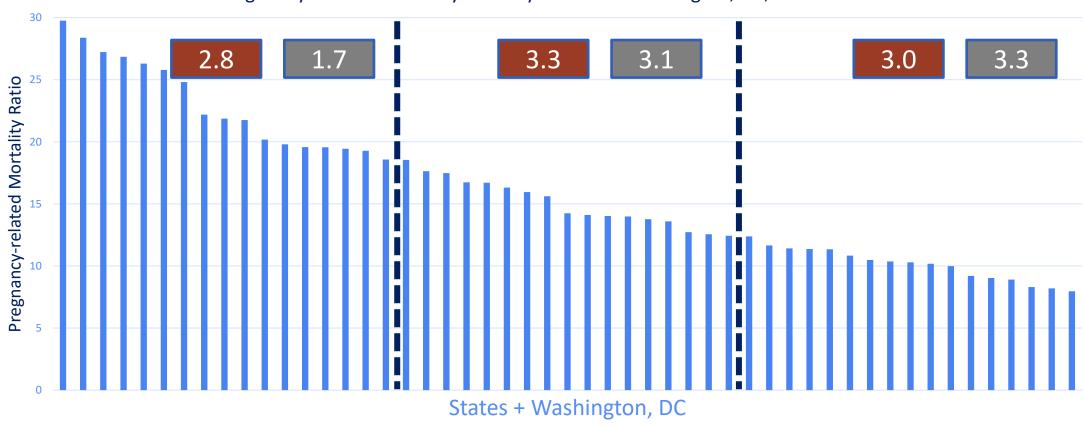


PMSS: State Variation

Black PRMR ÷ White PRMR

Native PRMR ÷ White PRMR

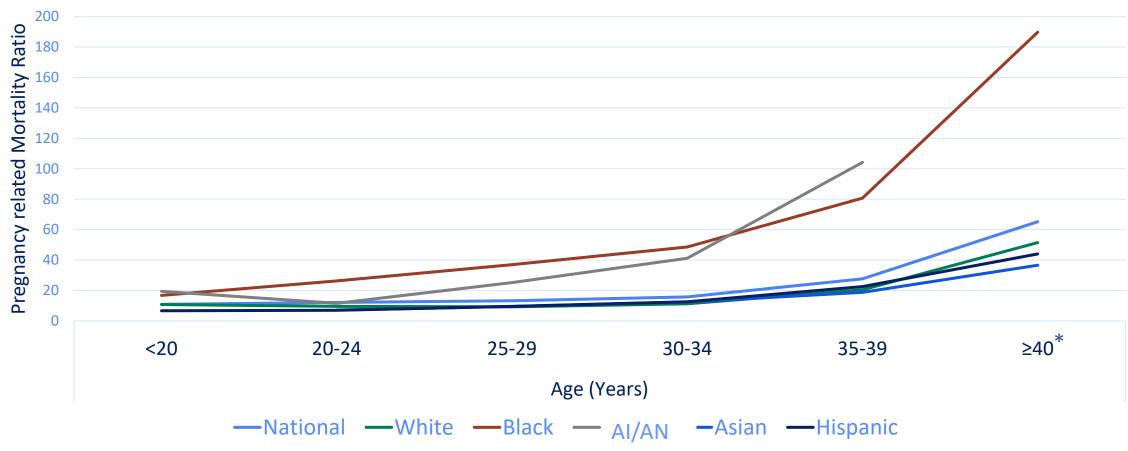
Pregnancy-related Mortality Ratio by State and Washington, DC, 2007-2016



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

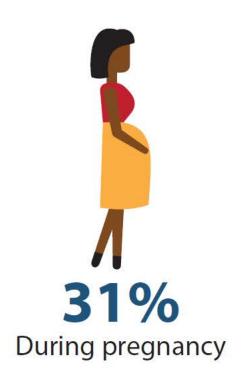




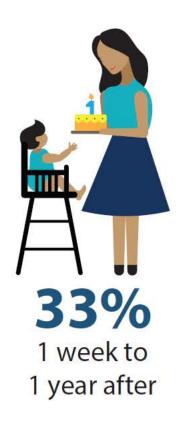
Petersen EE, Davis NL, Goodman D, et al. Racial/Ethnic Disparities in Pregnancy-Related Deaths — United States, 2007–2016. MMWR Morb Mortal Wkly Rep 2019;68:762–765

*≥40 for AI/AN due to suppression rules

PMSS: by timing of death in relation to pregnancy







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



	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		

State and Local Maternal

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.

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

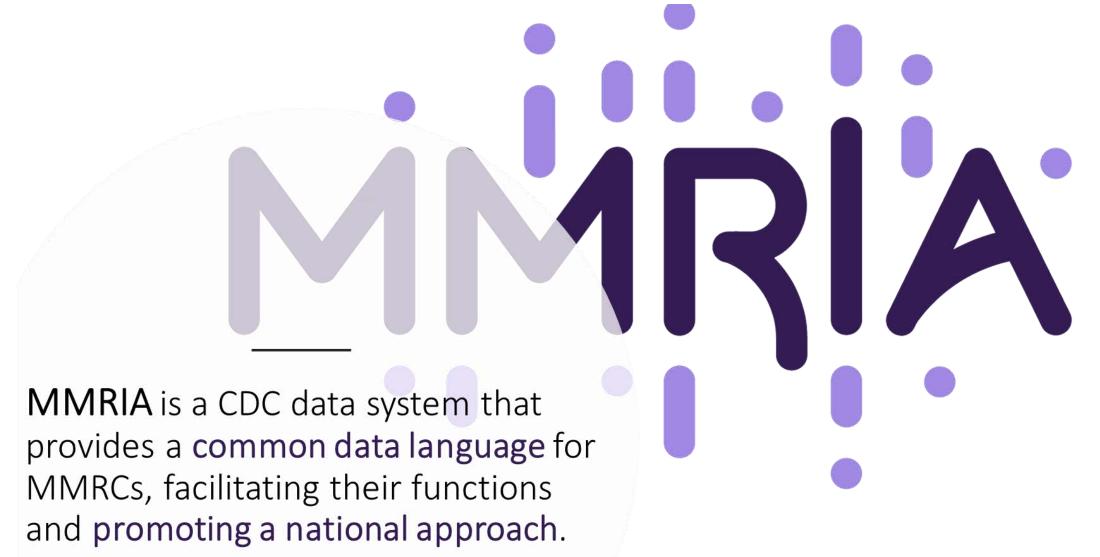
Maternal Mortality Review
Committees (MMRCs) rely on
death certificates, birth
certificates and fetal death
certificates to identify
pregnancy-associated deaths

ALFILE NO. made				U.S. ST.	ANDARD CE	RTIFICA	TE OF DEA	TH	STATE FILE NO.	Sen		
1. DECEDENT'S LEGA	L NAME (Inc	Sude AS(A's	Fany) (Find,	Midde, La	6		2. SEX	3 SOCIAL SE	CURTY NUMBER			
de. AGE-Last Birthday	IA LINES	TYEAR	No. UNDER	a i Day	15 0000000	PER THUM	Co-could Did	THE ACT (CHAIN	d State or Foreign 0	Countrie		
(Years)	Months	Days	Hours	Minutes		Marine David		the fourte find an	d days to 1 days	The same of		
TAL RESIDENCE-STAT			75. COUN	TY	<u> </u>		AL OTH OR TO	OWN				
			J. S. C. S. C.	8		- 3						
74. STREET AND NUM	MER			Za. AP	T. NO. 71.	ZIP CODE			7g. INSIDE CITY	UMITST	□ Yea	D No.
D Yes Oxio	PORCES?	D Married	ALSTATUS And general	but separ	nated () Widow			e Baptiste	E (if wife, give name	se prior to	fint number	ph)
H. FATHER'S NAME	First, Middle,						12 MOTHE		TO FIRST MARRIA	IGE (Fine	Middle, La	et)
June	e Filias	136. R	Siste		EDENT		15c. MAILING ACCRESS (Street and Number, City, State, Zip Code) Same as above					
			14 PLA	OE OF DE	EATH (Check ori)							
F DEATH OCCURRE	DINAHOSP	CTAL:	Dead on Ard	· 3				THER THAN A HE		nnew	Courte	200
Othpatient of Emerge es. FACULTY NAME (II Regio	not instator	nter H	(4 number)	10.	CITY OR TOW		ming home Long term care facility of Decedent's home of Other (Spe. TE, AND ZIP CODE 17. COU Atlanta , GA 30327				TY OF DEATH Fulton	
20. LOCATION-CITY, 1 22. SIGNATURE OF FL	300 3000	27,642	NSEE OR OT	Brot								GA 33036
ITEMS 24-28 MUS WHO PRONOUN					24. DATE	4/26/	NOED DEAD (A	AciDay/Yrj	- 33	1	and his contract	MONOUNCED DEAD
20. SIGNATURE OF PE	Jose	Gome	ez	1011			27. LICENSE NUMBER 20. DATE SIGNE 5566 4/26/09			26/09	O (Mo/Dwy/Yr)	
4/26/09 Spel	Moreh)	OF DEATH		30	0030	PRESUME	ST. WAS MEDICAL EXAMINER OR CORONER CONTACTED? Yes					
lines if necessary	arrest, or ven	rb-dware router fort	es, injuries, or listics without	complicati showing to	the etiology: DO	ly caused the	e death, DO NO	OT enter terminal e	wester much as cardi a line. Add additio			Approximate Interval: Onset to death
disease or condition a Cardiogenic Shock			OCK (or as a consequence of:									
Sequentially list condit if any, leading to the o listed on line a. Enter UNDERLYING CAUSE	the	Perip	artum (Cardio	omyopat	thy du	e to NS	TEMI				
(disease or injury that Due to (or as a consequence of): initiated the events resulting in death) LAST d												

Abstracting and reviewing pregnancy-associated deaths

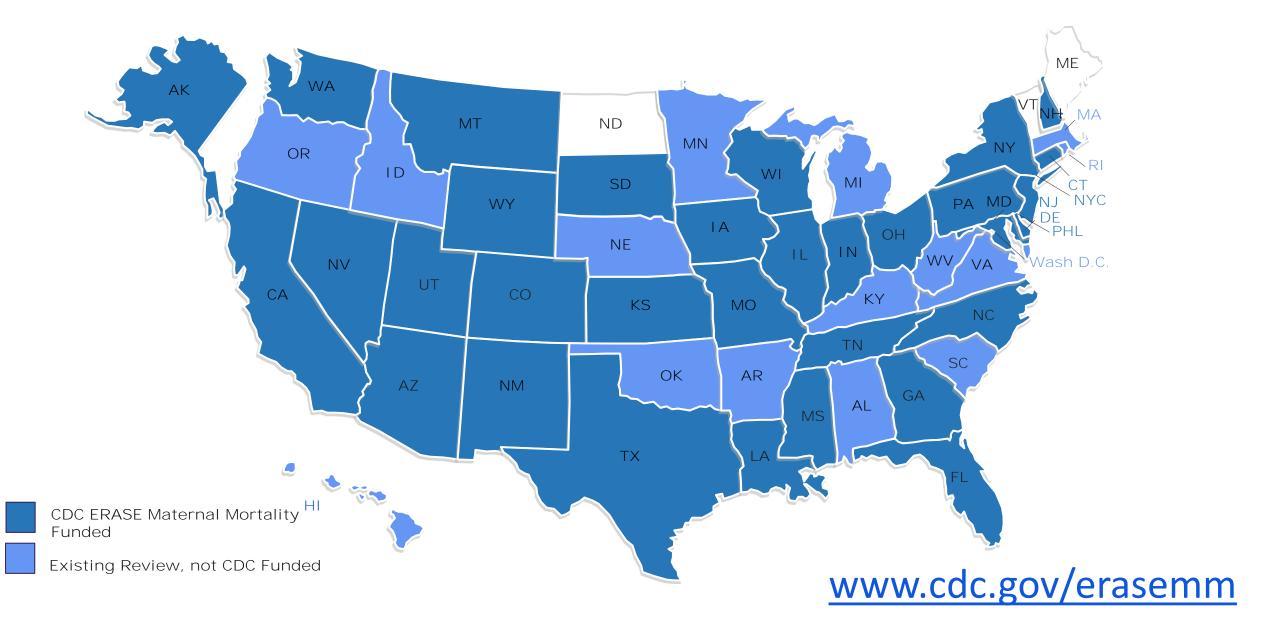
- Significant medical and social history
- Prenatal care
- ED visits / hospitalizations
- Screening / treatment / referral
- Access to care (available/accessible)





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

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

What have we learned from MMRCs?

Leading causes of pregnancy-related deaths





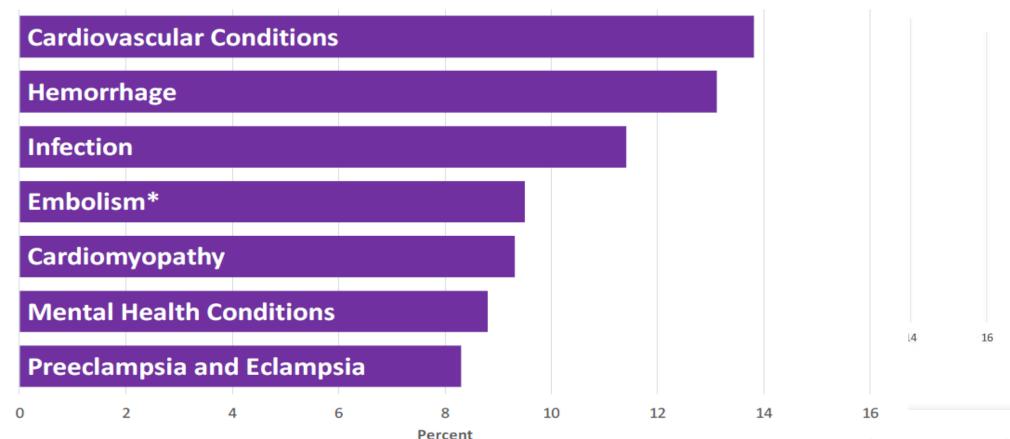










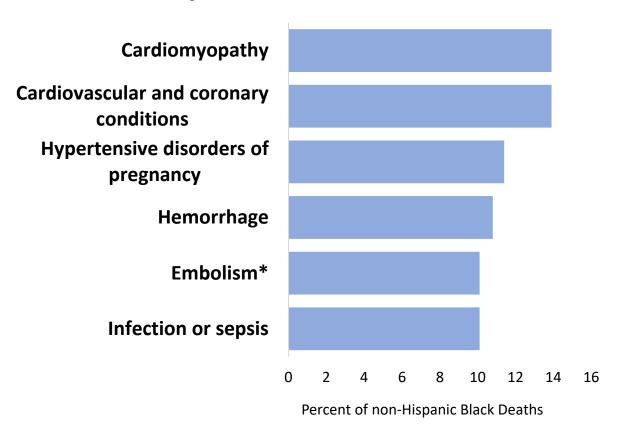


^{*}Embolism includes thrombotic pulmonary or other embolism (i.e., air, septic, or fat). It does not include amniotic fluid embolism.

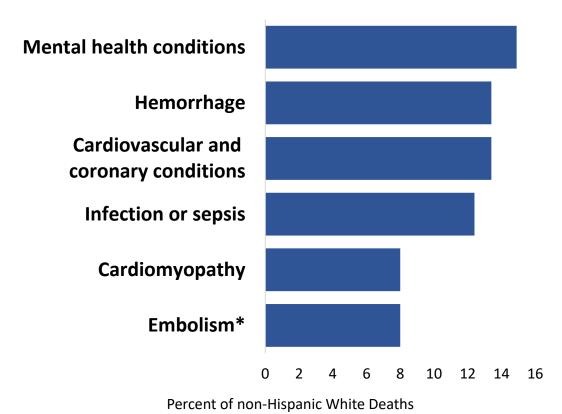
Davis NL, Smoots AN, Goodman DA. Pregnancy-Related Deaths: Data from 14 U.S. Maternal Mortality Review Committees, 2008-2017. Atlanta, GA: Centers for Disease Control and Prevention, U.S. Department of Health and Human Services; 2019

Leading causes vary by race-ethnicity: 14 MMRCs

Non-Hispanic Black



Non-Hispanic White



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

	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 Save Your Life 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; Increas 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



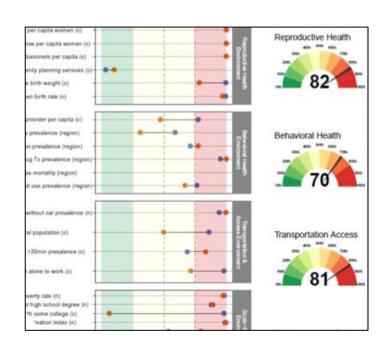
Discrimination: treating someone more or less favorably based on the group, class or category they belong to resulting from biases, prejudices, and stereotyping. It can manifest as differences in care, clinical communication and shared decision-making.

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.



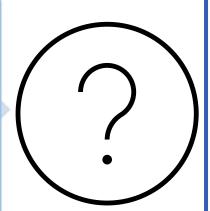
Review to Action

MMRC reviews cases using the case narrative

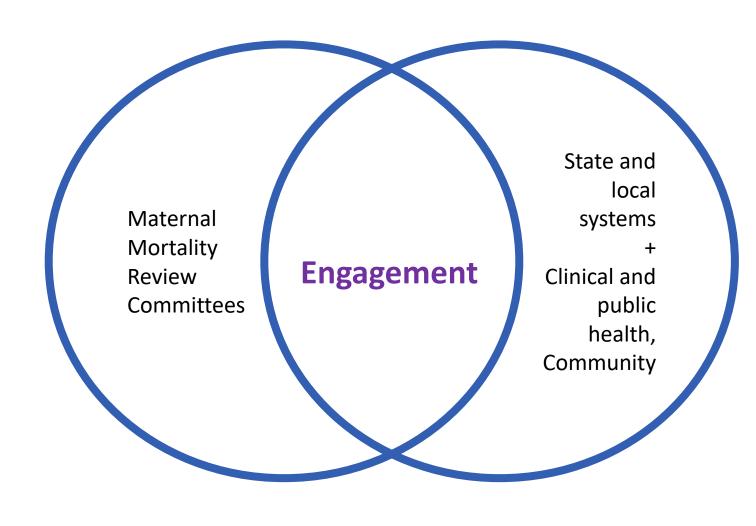
MMRC discusses and makes key recommendations for action about each death

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

MMRC discusses and makes key recommendations for action about each death

Enter key decisions into **MMRIA**

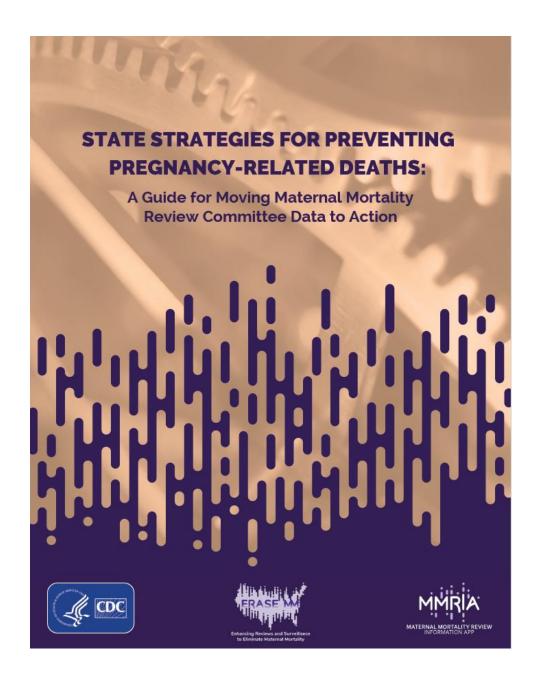
Analyze data, identify key issues and recommendations themes

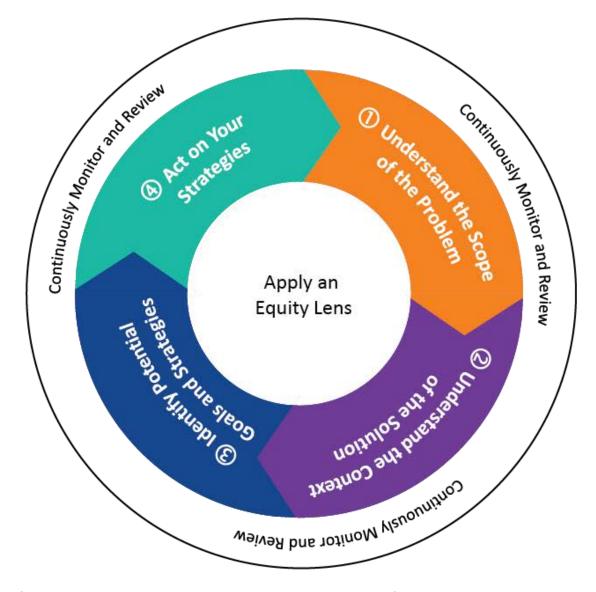
Prioritize and disseminate findings to inform action

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**



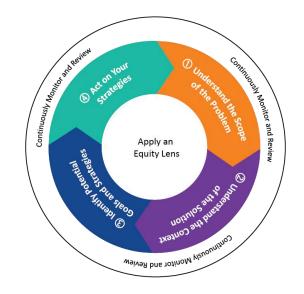




The 4 Iterative Steps.

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

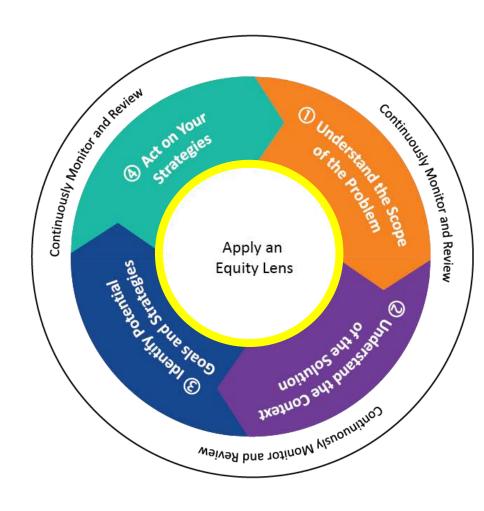
Step 4. Act on Your Strategies

Covers assessing strategies for fit, implementation planning, and evaluation

All Steps— Apply an Equity Lens

Applying an equity lens means taking deliberate steps to

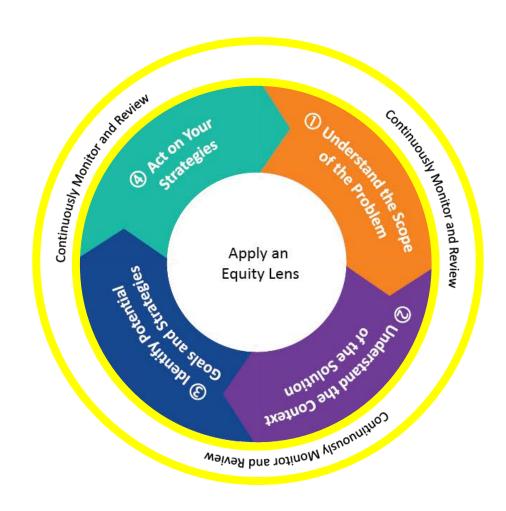
- Be sure every mother's life is valued equally
 - Ensuring respectful care, client centered care, and a diverse workforce
- Understand the impacts of historical trauma and the role of inequitable institutional structures
 - Expanding insurance coverage, paid family leave policies, and earned income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



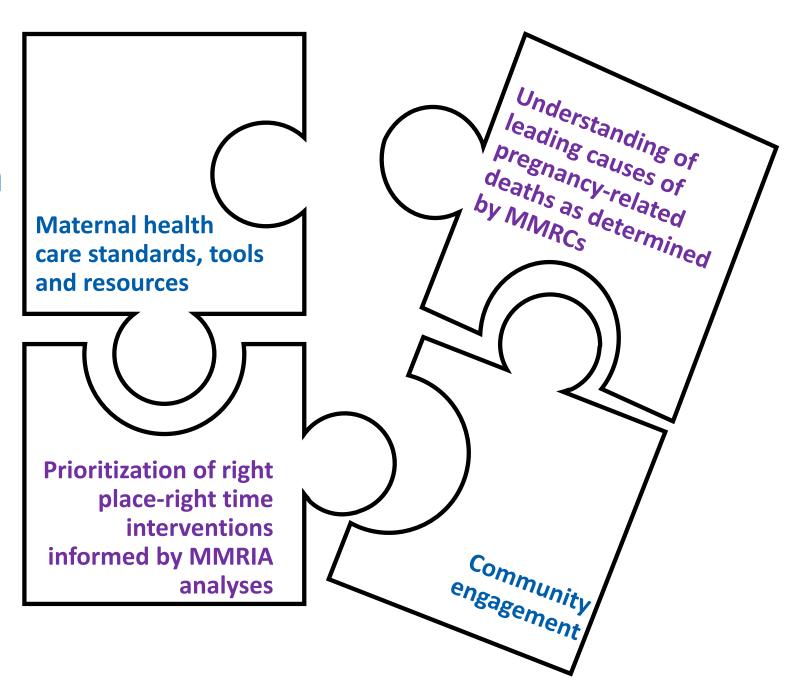
All Steps— Continuously Monitor and Review

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



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







Acknowledgements

Arizona Louisiana CDC Maternal Mortality Prevention Team

Colorado Mississippi CDC Foundation

Delaware North Carolina Emory Rollins School of Public Health

Florida Ohio Association of Maternal and Child Health Programs

Georgia South Carolina

Hawaii Tennessee

Illinois Utah

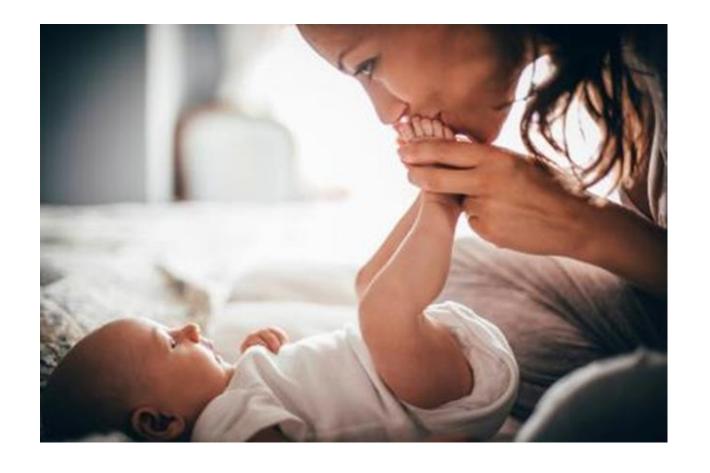
Any published findings and conclusions are those of the authors and do not necessarily represent the official position of the above Departments of Health or agencies responsible for maternal mortality review. This project was supported in part by an appointment to the Research Participation Program at the Centers for Disease Control and Prevention administered by the Oak Ridge Institute for Science and Education through an interagency agreement between the U.S. Department of Energy and the Centers for Disease Control and Prevention.

Thank you!

For more information, visit

www.cdc.gov/erasemm or

contact: erasemm@cdc.gov



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



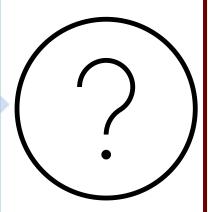
Review to Action

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



Review to Action

MMRC reviews cases using the case narrative

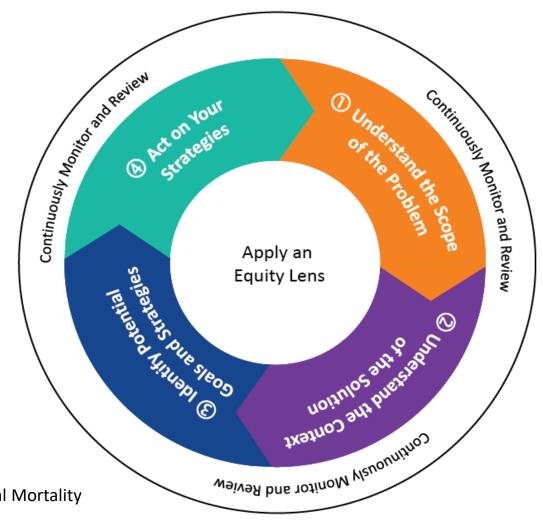
makes key
recommendations
for action about
each death

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

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

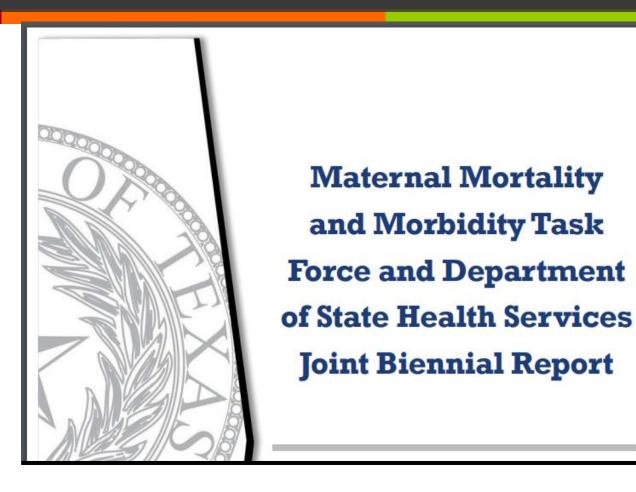


State Strategies for Preventing Pregnancy-Related Deaths: A Guide for Moving Maternal Mortality Review Committee Data to Action. CDC/NCCDPHP/DRH

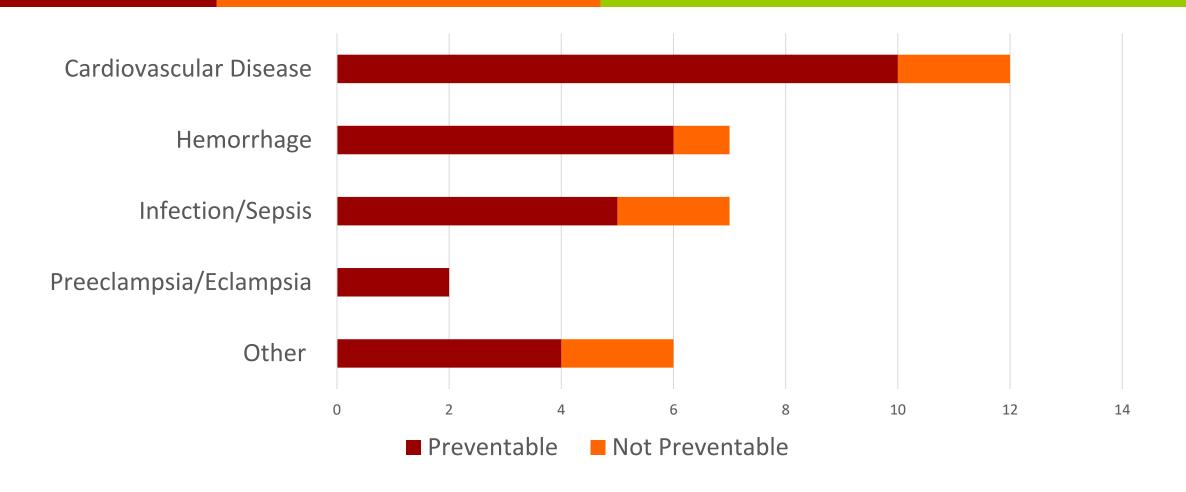
Texas MMMRC History

- 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



Pregnancy-Related Deaths, 2012



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
Cerebrovascular Event		0	8	9	10	27
Hemorrhage		3	12	2	3	20
Hypertension/Eclampsia		0	7	4	7	18
Pulmonary Embolism		2	3	4	4	13
Amniotic Fluid Embolism		1	9	0	0	10
	Other	5	5	8	50	68
Total		16	64	64	215	382

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 Disease
- Delay

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



TexasAIM

Obstetric Hemorrhage

 First bundle statewide implementation 2019

Severe Hypertension

 Second bundle statewide implementation 2020

Opioid Use Disorder

ON MATERNAL HEALTH

 Pilot project with 10 experienced 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

- Access
- Outreach

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

lisahollier1@gmail.com



Questions



This event was supported by cooperative agreement number CDC-RFA-OT18-1802, funded by the Centers for Disease Control and Prevention. Its contents are solely the responsibility of the presenters and do not necessarily represent the official views of the Centers for Disease Control and Prevention or the U.S. Department of Health and Human Services Office for the Assistant Secretary for Planning and Evaluation