

South Carolina Maternal Health Innovation Collaborative

Maternal Health Task Force Quarterly Meeting

Tuesday, March 4, 2025 10 am to 2 pm Microsoft Teams



Institute for Families in Society at the University of South Carolina

SCMHIC LEADERSHIP TEAM

South Carolina Department of Public Health (SCDPH)



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Agenda

Presentations

SC Maternal Mortality Review Committee Overview & Update Current Statewide Maternal Health Initiatives: Opportunities for Alignment Panel Discussion

Community Birth Workers in Clinical Settings

MHI Supported Projects

Lunch Break

Breakout Sessions

Workgroup Meetings

Report Out

Next Steps/Adjourn



Housekeeping

• The Chatham House Rule

"When a meeting, or part thereof, is held under the Chatham House Rule, participants are free to use the information received, but neither the identity nor the affiliation of the speaker(s), nor that of any other participant, may be revealed."

- Share the information, but not who said it
- Keep names and affiliations private
- Encourages open and honest discussion



Icebreaker

What's the first thing you're excited to do in warmer weather?



SC Maternal Mortality & Morbidity Review Committee

2025 Legislative Brief Overview



Institute for Families in Society at the University of South Carolina



Maternal Morbidity and Mortality Review Committee Update

Nicholas Resciniti, PhD Kimberly Jenkins, BSN, RN

What is the South Carolina Maternal Morbidity and Mortality Review Committee (SCMMMRC)

- Legislatively mandated (2016 44-1-310).
- Statewide and multidisciplinary membership.
- Scope: deaths that occur during pregnancy or within 365 days.
- Goals: Identify the number of pregnancy-related deaths, identify trends and make actionable recommendations for prevention.
- Vision: Eliminate preventable pregnancy-related deaths, reduce maternal morbidities and improve population health for women of reproductive age in South Carolina.
- Reviewing Cohort 2022.
- Annual legislative brief published every March.
- Fall 2024 DPH was awarded a 5-year cooperative agreement by the CDC.





Pregnancy-associated death:

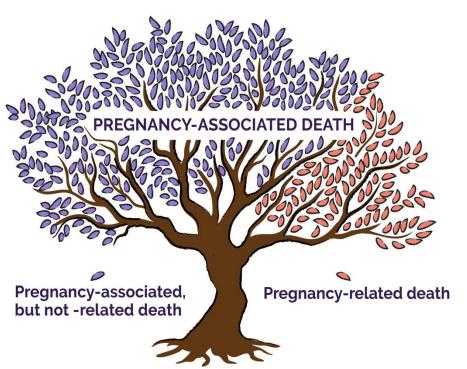
• A death during or within one year of pregnancy irrespective of cause.

Pregnancy-related death:

 A death while pregnant or within one year of the end pregnancy from a pregnancy complication, a chain of events initiated by pregnancy, or the aggravation of ar unrelated condition by the physiologic effects of pregnancy.

Pregnancy-associated, but not-related death:

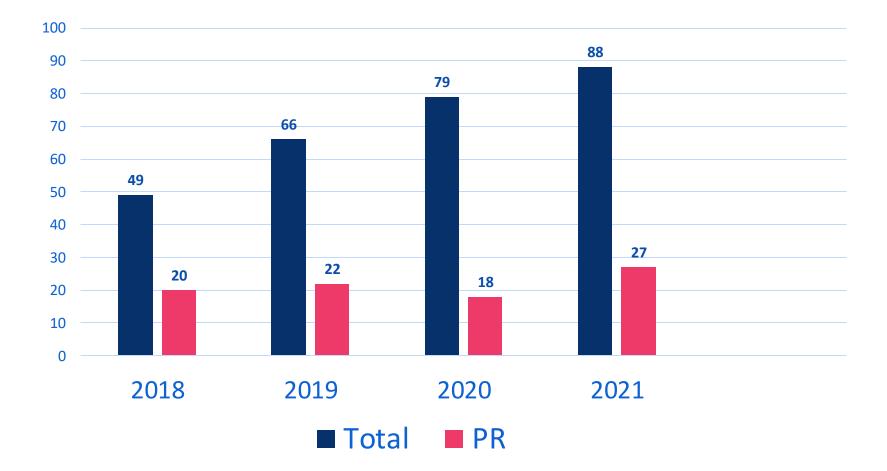
• A death during or within one year of the end of pregnancy from a cause that is not related to pregnancy.



To determine whether a pregnancy-associated death is related to pregnancy it can be helpful to ask the following question: If she had not been pregnant, would she have died?



Pregnancy-related deaths vs total deaths reviewed by the SCMMMRC





SCMMMRC Addresses Six Key Questions for Each Pregnancy- Related Death

- 1. Was the death pregnancy-related?
- 2. What was the cause of death?
- 3. Was the death preventable?
- 4. What are the critical contributing factors?
- 5. What are the recommendations and actions that address those contributing factors?
- 6. What is the anticipated impact of those actions if implemented?



Review: Pregnancy-Related Determination

MMRA								
REVIEW DATE Month/Day/Year	RECORD ID #							
PREGNANCY-RELATEDNESS: SELECT ONE PREGNANCY-RELATED A death during pregnancy or within one year of the end 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 PREGNANCY-ASSOCIATED, BUT NOT-RELATED A death during pregnancy or within one year of the end of pregnancy from a cause that is not related to pregnancy PREGNANCY-ASSOCIATED BUT UNABLE TO DETERMINE PREGNANCY-REI ATEDNESS								
THIS CASE:	ELEVANT INFORMATION (RECORDS) AVAILABLE FOR sdiction use in order to evaluate opportunities to gain reviews.							
 COMPLETE All records necessary for adequate review of the ca were available MOSTLY COMPLETE Minor gaps (i.e., informat that would have been ber but was not essential to ti review of the case) 	review of the case) NOT COMPLETE ion Minimal records available for review (i.e., death certificate and	l A t						
DOES THE COMMITTEE AGRE UNDERLYING ¹ CAUSE OF DE/ CERTIFICATE? The underlying cause of death d documented by a multidisciplina different from the underlying ca pathologists in the course of dea documented in the Vital Statistic	ATH LISTED ON DEATH letermination as YES NO ary MMRC may be use of death used by th certification	p c						

PREGNANCY-RELATEDNESS: SELECT ONE

PREGNANCY-RELATED

A death during pregnancy or within one year of the end 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

PREGNANCY-ASSOCIATED, BUT NOT-RELATED

A death during pregnancy or within one year of the end of pregnancy from a cause that is not related to pregnancy

PREGNANCY-ASSOCIATED BUT UNABLE TO DETERMINE PREGNANCY-RELATEDNESS

Pregnancy-related death:

A death during pregnancy or within one year of the end 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 If she had not been pregnant, would she have died?



7 ____

DPH DPH DPH DPH

APPENDIX C. CONSENSUS PREGNANCY-RELATED CRITERIA FOR SUICIDE AND UNINTENTIONAL OVERDOSES^{9, 10}

Present Y/N	Consensus pregnancy-related criteria for suicide and unintentional overdoses	Examples
	Pregnancy Complication	
·	Increased pain directly attributable to pregnancy or postpartum events leading to self-harm or drug use that are implicated in suicide or unintentional drug-related death. [consensus during pregnancy]	Back pain, pelvic pain, kidney stones, cesarean incision, or perineal tear pain
·	Traumatic event in pregnancy or postpartum (diagnosis of fetal anomaly, stillbirth, preterm delivery, neonatal or infant death, traumatic delivery experience, removal of children from custody) with a temporal relationship between the event leading to self-harm or increased drug use and subsequent death. [consensus in all time periods]	Stillbirth, preterm delivery, diagnosis of fetal anomaly, traumatic delivery experience, relationship destabilization due to pregnancy, removal of child(ren) from custody
•	Pregnancy-related complication likely exacerbated by drug use leading to subsequent death. [consensus in pregnancy – only time period considered] Chain of Events Initiated by Pregnancy	Placental abruption or preeclampsia in setting of drug use
·	Cessation or attempted taper of medications for pregnancy-related concerns (neonatal/fetal exposure risk, fear of child protective service involvement) leading to maternal destabilization or drug use and subsequent death. Neonatal or fetal risk - [consensus in all time periods]. Child Protective Service involvement - [consensus during pregnancy]	Substance use pharmacotherapy (methadone or buprenorphine), psychiatric medications, pain medications
·	Inability to access inpatient or outpatient addiction or mental health treatment due to pregnancy. [consensus during and within 6 months of pregnancy]	Health care professionals uncomfortable with treating pregnant women, facilities not available that accept pregnant women
·	Perinatal psychiatric conditions resulting in maternal destabilization or drug use and subsequent death. [consensus during and within 6 months of pregnancy]	Depression diagnosed in pregnancy or postpartum resulting in suicide
	Recovery/stabilization of substance use disorder achieved during pregnancy or postpartum with clear statement in records that pregnancy was motivating factor with subsequent relapse and subsequent death. [no consensus at any time period]	Relapse leading to overdose due to decreased tolerance or polysubstance use
	Aggravation of Underlying Condition by Pregnancy	
•	Worsening of underlying depression, anxiety or other psychiatric condition in pregnancy or postpartum period with documentation that mental illness led to drug use or self-harm and subsequent death. [consensus during and within 6 months of pregnancy]	Pre-existing depression exacerbated in the postpartum period leading to suicide
	Exacerbation, under-treatment or delayed treatment of pre-existing condition in pregnancy or postpartum leading to use of prescribed or illicit drugs resulting in death, or suicide. [consensus during and within 6 months of pregnancy]	Undertreatment of chronic pain leading to misuse of medications or use of illicit drugs, resulting in death
_	Medical conditions secondary to drug use in setting of pregnancy or postpartum that may be attributable to pregnancy-related physiology and increased risk of complications leading to death. <i>[no consensus at any time period]</i>	Stroke or cardiovascular arrest due to stimulant use

⁹ Smid MC et al, 2023. Consensus pregnancy-related criteria for suicide and unintentional overdoses using a Delphi process. Arch Womens Ment Health.

¹⁰ The italicized text in brackets specify where the Delphi exercise with representatives from 48 MMRCs and eight experts in maternal mortality, substance use disorder, and maternal mental health reached consensus on the criterion. Lack of Delphi consensus as shown in brackets should not override committee consensus on a specific case. If "Yes" is chosen by the committee for at least one of the boxes under any of the three categories then that would constitute a pregnancy-related death.



Review: Cause of Death (PMSS-MM codes)

MATERNAL MORTALITY REVIEW COMMITTEE DECISIONS FORM v24 1						
COI	MMITTEE DETERMINATIO	ON OF CAU	JSE(S) OF DE	ATH		
IF PREGNANCY-RELATED, OF UNDERLYING ¹ CAUSE Refer to Appendix A for PM		N			•	
If a death is pregnancy-as optional box below.	sociated, not related then an u	underlying ca	use of death e	ntry is not	necessary. Use	
ТҮРЕ	OPTIONAL: CAUSE (DESCRI	PTIVE)				
UNDERLYING ^{1,2}						
CONTRIBUTING ^{2,3}						
IMMEDIATE ²						
OTHER SIGNIFICANT ²						
COMMITTEE DI	ETERMINATIONS ON CIR	CUMSTAN	CES SURRO	UNDING	DEATH ⁴	
DID OBESITY CONTRIBUT	E TO THE DEATH?	🗆 YES		r 🔲 NO		
DID DISCRIMINATION ⁵ CONTRIBUTE TO THE DEATH?						
DID MENTAL HEALTH CONDITIONS OTHER THAN SUBSTANCE USE DISORDER CONTRIBUTE TO THE DEATH?						
DID SUBSTANCE USE DIS DEATH?	DRDER CONTRIBUTE TO THE	VES		r 🗆 NO		
	MANNER O	OF DEATH				
WAS THIS DEATH A SUICI	DE?	I YES		(🗆 NO		
WAS THIS DEATH A HOM	ICIDE?	🗆 YES		r 🔲 NO		
IF ACCIDENTAL DEATH, HOMICIDE, OR SUICIDE, LIST THE MEANS OF FATAL INJURY	FIREARM SHARP INSTRUMENT BLUNT INSTRUMENT POISONING/OVERDOSE HANGING/ STRANGULATION/ SUFFOCATION	 FALL PUNCHII KICKING EXPLOSI DROWN FIRE OR MOTOR 	/BEATING VE ING BURNS		ECT R, SPECIFY:	
IF HOMICIDE, WHAT WAS THE RELATIONSHIP OF THE PERPETRATOR TO THE DECEDENT?	NO RELATIONSHIP PARTNER EX-PARTNER OTHER RELATIVE	OTHER	NTANCE		OWN IPPLICABLE	

COMMITTEE DETERMINATION OF CAUSE(S) OF DEATH

IF PREGNANCY-RELATED, COMMITTEE DETERMINATION OF UNDERLYING¹ CAUSE OF DEATH Refer to Appendix A for PMSS-MM cause of death list.

If a death is pregnancy-associated, not related then an underlying cause of death entry is not necessary. Use optional box below.

Underlying cause refers to the disease or injury that <u>initiated</u> the chain of events leading to death or the circumstances of the accident or violence which produced the fatal injury.

PMSS-MM Codes for Reference

MATERNAL MORTALITY REVIEW COMMITTEE DECISIONS FORM v24

5

APPENDIX A. PMSS-MM CODES: IF PREGNANCY-RELATED,⁷ COMMITTEE DETERMINATION OF UNDERLYING¹ CAUSE OF DEATH

Hemorrhage (Excludes Aneurysms or CVA)

- 10.1 Hemorrhage Uterine Rupture
- 10.2 Placental Abruption
- 10.3 Placenta Previa
- 10.4 Ruptured Ectopic Pregnancy
- 10.5 Hemorrhage Uterine Atony/Postpartum Hemorrhage
- 10.6 Placenta Accreta/Increta/Percreta
- 10.7 Hemorrhage due to Retained Placenta
- 10.10 Hemorrhage Laceration/Intra-Abdominal Bleeding
- 10.9 Other Hemorrhage/NOS

Infection

MMRIA

- 20.1 Postpartum Genital Tract (e.g., of the Uterus/ Pelvis/Perineum/Necrotizing Fasciitis)
- 20.2 Sepsis/Septic Shock
- 20.4 Chorioamnionitis/Antepartum Infection
- 20.6 Urinary Tract Infection
- 20.7 Influenza
- 20.8 COVID-19
- 20.10 Pneumonia
- 20.11 Other Non-Pelvic Infection (e.g., TB, Meningitis, HIV)
- 20.9 Other Infection/NOS

Embolism (Excludes Cerebrovascular)

- 30.1 Embolism Thrombotic
- 30.9 Other Embolism (Excludes Amniotic Fluid Embolism)/NOS

Amniotic Fluid Embolism

31.1 - Amniotic Fluid Embolism

Hypertensive Disorders of Pregnancy (HDP)

- 40.1 Preeclampsia
- 50.1 Eclampsia
- 60.1 Chronic Hypertension with Superimposed Preeclampsia

Anesthesia Complications

70.1 - Anesthesia Complications

Cardiomyopathy

- 80.1 Postpartum/Peripartum Cardiomyopathy 80.2 - Hypertrophic Cardiomyopathy
- 80.9 Other Cardiomyopathy/NOS

Hematologic

82.1 - Sickle Cell Anemia 82.9 - Other Hematologic Conditions including Thrombophilias/TTP/HUS/NOS

Collagen Vascular/Autoimmune Diseases

- 83.1 Systemic Lupus Erythematosus (SLE)
- 83.9 Other Collagen Vascular Diseases/NOS

Conditions Unique to Pregnancy

85.1 - Conditions Unique to Pregnancy (e.g., Gestational Diabetes, Hyperemesis, Liver Disease of Pregnancy)

Injury

- 88.1 Intentional (Homicide) 88.2 - Unintentional
- 88.9 Unknown Intent/NOS

Cancer

- 89.1 Gestational Trophoblastic Disease (GTD)
- 89.3 Malignant Melanoma
- 89.9 Other Malignancies/NOS

Other Cardiovascular Conditions (excluding cardiomyopathy, HDP, and CVA)

- 90.1 Coronary Artery Disease/Myocardial Infarction
- (MI)/Atherosclerotic Cardiovascular Disease 90.2 - Pulmonary Hypertension
- 90.2 Pulmonary Hypertension
- 90.3 Valvular Heart Disease Congenital and Acquired
- 90.4 Vascular Aneurysm/Dissection (Non-Cerebral) 90.5 - Hypertensive Cardiovascular Disease
- 90.6 Marfan Syndrome
- 90.7 Conduction Defects/Arrhythmias
- 90.8 Vascular Malformations Outside Head and Coronary Arteries
- 90.9 Other Cardiovascular/NOS, including CHF, Cardiomegaly, Cardiac Hypertrophy, Cardiac Fibrosis, Non-Acute Myocarditis

Pulmonary Conditions (Excludes ARDS-Adult Respiratory

- Distress Syndrome)
- 91.1 Chronic Lung Disease
- 91.2 Cystic Fibrosis
- 91.3 Asthma
- 91.9 Other Pulmonary Disease/NOS

Neurologic/Neurovascular Conditions (Excluding CVA)

- 92.1 Epilepsy/Seizure Disorder
- 92.9 Other Neurologic Diseases/NOS

Renal Disease

- 93.1 Chronic Renal Failure/End-Stage Renal Disease (ESRD) 93.9 - Other Renal Disease/NOS
- Cerebrovascular Accident (CVA) not Secondary to HDP
- 95.1 Cerebrovascular Accident (EvA) not secondary to
- Thrombosis/Aneurysm/Malformation) not Secondary to Hypertensive Disorders of Pregnancy

Metabolic/Endocrine

96.2 - Diabetes Mellitus 96.9 - Other Metabolic/Endocrine Disorders/NOS

Gastrointestinal Disorders

- 97.1 Crohn's Disease/Ulcerative Colitis
- 97.2 Liver Disease/Failure/Transplant
- 97.9 Other Gastrointestinal Diseases/NOS

Mental Health Conditions

- 100.1 Depressive Disorder
- 100.2 Anxiety Disorder (including Post-Traumatic Stress Disorder)
 100.3 - Bipolar Disorder
- 100.4 Psychotic Disorder
- 100.5 Substance Use Disorder
- 100.9 Other Psychiatric Conditions/NOS

Unknown COD 999.1 - Unknown COD



Review: Committee Determinations on Circumstances Surrounding Death



MATERNAL MORTALITY REVIEW COMMITTEE DECISIONS FORM v24 1							
CON	MMITTEE DETERMINATIO	ON OF CAU	SE(S) OF DE	АТН			
IF PREGNANCY-RELATED, OF UNDERLYING ¹ CAUSE Refer to Appendix A for PMS		N			-		
If a death is pregnancy-as optional box below.	sociated, not related then an u	underlying ca	use of death en	tr y is not	necessary. Use		
ТҮРЕ	OPTIONAL: CAUSE (DESCRI	PTIVE)					
UNDERLYING ^{1,2}							
CONTRIBUTING ^{2,3}							
IMMEDIATE ²							
OTHER SIGNIFICANT ²							
COMMITTEE DE	TERMINATIONS ON CIR	CUMSTAN	CES SURROU	NDING	DEATH ⁴		
DID OBESITY CONTRIBUTE TO THE DEATH?							
DID DISCRIMINATION ⁵ CONTRIBUTE TO THE DEATH?							
DID MENTAL HEALTH CONDITIONS OTHER THAN SUBSTANCE USE DISORDER CONTRIBUTE TO THE DEATH?							
DID SUBSTANCE USE DISC DEATH?	ORDER CONTRIBUTE TO THE	TES YES	PROBABLY	NO			
	MANNER	OF DEATH			-		
WAS THIS DEATH A SUICIE	DE?	VES	PROBABLY	🗆 NO			
WAS THIS DEATH A HOMI	CIDE?	I YES	PROBABLY	🗆 NO			
IF ACCIDENTAL DEATH, HOMICIDE, OR SUICIDE, LIST THE MEANS OF	FIREARM SHARP INSTRUMENT BLUNT INSTRUMENT POISONING/OVERDOSE HANGING/	NSTRUMENT DUNCHING/ NEGL NSTRUMENT KICKING/BEATING OTHE NG/OVERDOSE EXPLOSIVE					
FATAL INJURY	SUFFOCATION	FIRE OR E	BURNS		OWN APPLICABLE		
IF HOMICIDE, WHAT WAS THE RELATIONSHIP OF THE PERPETRATOR TO THE DECEDENT?	NO RELATIONSHIP PARTNER EX-PARTNER OTHER RELATIVE	OTHER ACQUAIN OTHER, S	TANCE	UNKN	OWN APPLICABLE		

The checkboxes refer to the woman's own experience, <u>not</u> the broader context surrounding her death.

COMMITTEE DE	TERMINATIONS ON CIR	CU	MSTAN	CES SURRO	UNDI	NG	DEATH ⁴
DID OBESITY CONTRIBUTE		YES	PROBABL	ا 🗆 ۱	NO		
DID DISCRIMINATION ⁵ CO	NTRIBUTE TO THE DEATH?		🗆 YES	PROBABLY	۱ 🗆	NO	
DID MENTAL HEALTH CON SUBSTANCE USE DISORDE	H?	VES	PROBABLY	(0		
DID SUBSTANCE USE DISO DEATH?	RDER CONTRIBUTE TO THE		YES	PROBABL	(NO	
	MANNER	OF	DEATH				
WAS THIS DEATH A SUICID	E?		YES	PROBABL	(NO	
WAS THIS DEATH A HOMIC	CIDE?		YES	PROBABL	r 🔲	NO	UNKNOWN
IF ACCIDENTAL DEATH, HOMICIDE, OR SUICIDE, LIST THE MEANS OF FATAL INJURY	 FIREARM SHARP INSTRUMENT BLUNT INSTRUMENT POISONING/OVERDOSE HANGING/ STRANGULATION/ SUFFOCATION 		FALL PUNCHIN KICKING/ EXPLOSIN DROWNI FIRE OR E MOTOR N	/BEATING /E NG BURNS		GLE	ITIONAL ECT R, SPECIFY: OWN APPLICABLE
IF HOMICIDE, WHAT WAS THE RELATIONSHIP OF THE PERPETRATOR TO THE DECEDENT?	 NO RELATIONSHIP PARTNER EX-PARTNER OTHER RELATIVE 		OTHER ACQUAIN OTHER, S				OWN APPLICABLE



Review: Committee Determination on Discrimination

MATERNAL MORTALITY REVIEW COMMITTEE DECISIONS FORM v24 1							
COMMITTEE DETERMINATION OF CAUSE(S) OF DEATH							
IF PREGNANCY-RELATED, OF UNDERLYING ¹ CAUSE Refer to Appendix A for PMS		N			•		
If a death is pregnancy-as optional box below.	sociated, not related then an u	inderlying ca	use of death e	ntry is not	necessary. Use		
ТҮРЕ	OPTIONAL: CAUSE (DESCRIF	PTIVE)					
UNDERLYING ^{1.2}							
CONTRIBUTING ^{2,3}							
IMMEDIATE ²							
OTHER SIGNIFICANT ²							
COMMITTEE DE	TERMINATIONS ON CIRC	CUMSTAN	CES SURRO	UNDING	DEATH ⁴		
DID OBESITY CONTRIBUTE	E TO THE DEATH?	THE YES		(🗆 NO			
DID DISCRIMINATION ⁵ CONTRIBUTE TO THE DEATH?							
DID MENTAL HEALTH CONDITIONS OTHER THAN SUBSTANCE USE DISORDER CONTRIBUTE TO THE DEATH?							
DID SUBSTANCE USE DISC DEATH?							
	MANNER C	F DEATH					
WAS THIS DEATH A SUICIE	DE?	THE YES		(🗆 NO	UNKNOWN		
WAS THIS DEATH A HOMI	CIDE?	🗆 YES		r 🔲 NO	UNKNOWN		
IF ACCIDENTAL DEATH, HOMICIDE, OR SUICIDE, LIST THE MEANS OF FATAL INJURY	FIREARM SHARP INSTRUMENT BLUNT INSTRUMENT POISONING/OVERDOSE HANGING/ STRANGULATION/ SUFFOCATION	FALL PUNCHIN KICKING, EXPLOSI DROWN FIRE OR MOTOR	/BEATING VE ING BURNS		ECT R, SPECIFY:		
IF HOMICIDE, WHAT WAS THE RELATIONSHIP OF THE PERPETRATOR TO THE DECEDENT?	NO RELATIONSHIP PARTNER EX-PARTNER OTHER RELATIVE	OTHER			OWN APPLICABLE		

DID DISCRIMINATION⁵ CONTRIBUTE TO THE DEATH? 🛛 YES 🗆 PROBABLY 🗆 NO 🗆 UNKNOWN

This checkbox refers to discrimination.* Discrimination is treating someone less or more 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. (Smedley et al, 2003 and Dr. Rachel Hardeman)

Family Interviews often provide insight regarding discrimination determinability.

MMRIA DISCRIMINATION & RACISM FIELDS

DPH CAROLINA THEATON HIS

Discrimination

Treating someone less or more 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.

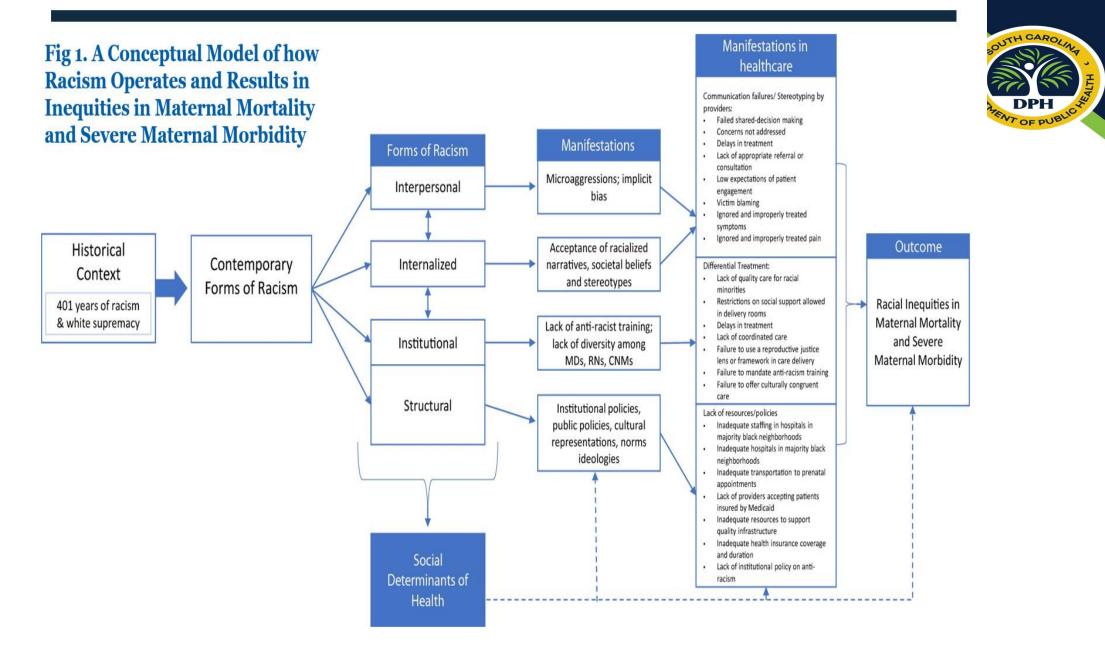
Interpersonal Racism

Discriminatory interaction between individuals based on differential assumptions about the abilities, motives, and intentions of others and resulting in 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

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.

Hardeman RR, Kheyfets A, Mantha AB, et al. Developing Tools to Report Racism in Maternal Health for the CDC Maternal Mortality Review Information Application (MMRIA): Findings from the MMRIA Racism & Discrimination Working Group. Matern Child Health J. 2022 Apr;26(4):661-669



Hardeman RR, Kheyfets A, Mantha AB, et al. Developing Tools to Report Racism in Maternal Health for the CDC Maternal Mortality Review Information Application (MMRIA): Findings from the MMRIA Racism & Discrimination Working Group. Matern Child Health J. 2022 Apr;26(4):661-669

Preventability

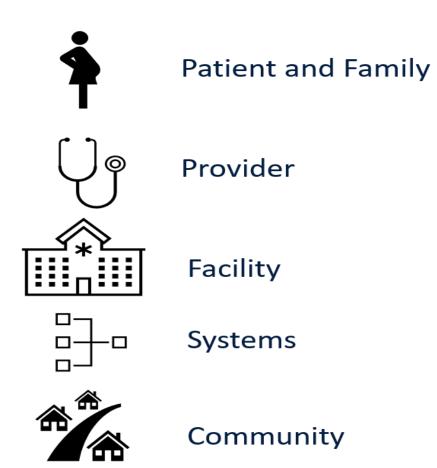


	COMMITTEE DETERMINATION OF PREVENTABILITY A death is considered preventable if the committee determines that there was at least some chance of the death being averted by one or more reasonable changes to patient, family, provider, facility, system and/or community factors.		WAS THIS D	EATH PREVENTABLE?	VES	□ NO			
some o			ted by one or	ne or more reasonable changes to		CHANCE TO	ALTER OUTCOME ⁶	GOOD CHANCE	SOME CHANCE
MRIA			MATERN	AL MORTALITY REVIEW COMMITTE	E DECISIONS FORM v24	2			
death is considered preve ome chance of the death b atient, family, provider, fa ONTRIBUTING FACTO ONTRIBUTING FACTO /hat were the factors that cotors may be present at e	eing averted by one or more cility, system and/or commu IRS AND RECOMMEND/	ermines that there was at leas e reasonable changes to nity factors. ATIONS FOR ACTION (Entr Aultiple contributing buting factor per row	CHANCE TO ALTER OF ies may continue to grid of OMMENDATIONS OF ere was at least some char ins that, if implemented o	UTCOME [®] GOOD CHAI NO CHANCE on page 3)	UNABLE TO DETERN averted, what were the specific an surse of events? Develop one				
DESCUPTION OF USUE (enter a description for FADH countributing factor listed)	CONTRIBUTING FACTOR (inter one per may repeat needed) if a contributor has than one recommendation	as [Who smore Map r	MITTE BECOMMENDATION 2 Johnaf (do whater) (when?) ecommendations to contribuit d if a recommendation has more	IFVEL	IREXPERITION TYPE (choose below)	etow)	A death is	-	preventable if the that there was a
CONTRIBUTING FACTOR I (DESCRIPTIONS IN APPEN Access/financial Adherence Assessment Chronic disease Cinical skil/quality of care Communication Communication Continuity of care/care cordination Contribution Discrimination Environmental Esuioment/technology	DDX B) • Mental health conditions • Outreach • Policies/procedures • Referral • Social support/ isolation • Structural racism • Substance use disorder - alcohol, illicit/prescription drugs • Tobacco use	DEFINITION OF LEVELS PATIENT/FAMILY: An indi after a pregnancy, and the householi individual PROVIDER: An individual expertise who provides c explored and a provided in a provided provided range in the householi provided range in the householi services before, during, c ranges from healthcare s public services and progr	heir family, internal or d, with influence on the with training and are, treatment, and/or are, treatment, and/or tion where direct care is mall clinics and urgent with trauma centers ties that support or after a pregnancy - ystems and payors to	PREVENTION TYPE • PRIMARY: Prevents the contributing factor before it ever occurs • SECONDARY: Reduces the impact of the contributing factor once it has occurred (i.e., treatment) • TERINARY: Reduces the impact or progression of what has become an ongoing contributing factor (i.e., management of complications)	EXPECTED IMPACT • SMALL: Education/counseling (community-and/or provider health promotion and educat activities) • MEDIUM: Clinical intervention coordination of care across co of well-wom visits (protoco prescriptions) • LARGE: Long-lang protectiv recognition and response to c emergencie/LARC) • EXTRA LARGE: Change in cont (promote environments that :	-based lon n and notinuum ess, bostetric ext	averted by changes to	one or more patient, fan	he death being e reasonable nily, provider, community facto

Sourced from: Berg CJ, Harper MA, Atkinson SM, Bell EA, Brown HL, Hage ML, et al. Preventability of pregnancy-related deaths: results of a state-wide review. Obstet Gynecol 2005;106:1228–34.



Levels of Prevention



Contributing Factors

- 1. Access/financial
- 2. Adherence
- 3. Assessment
- 4. Chronic disease
- 5. Clinical skill/quality of care
- 6. Communication
- 7. Continuity of care/care coordination
- 8. Cultural/religious
- 9. Delay
- 10. Discrimination
- 11. Environmental
- 12. Equipment/technology
- 13. Interpersonal racism
- 14. Knowledge

- 15. Law Enforcement
- 16. Legal
- 17. Mental health conditions
- 18. Outreach
- 19. Policies/procedures
- 20. Referral
- 21. Social support/isolation
- 22. Structural racism
- 23. Substance use disorder
- 24. Tobacco use
- 25. Trauma
- 26. Unstable housing
- 27. Violence
- 28. Other





Specific and Actionable Recommendations



WHO is the entity/agency who would have been/be **WHERE** is the responsible for the intervention?*

WHAT is the intervention and intervention point?* Patient/Family 0

- Provider Ο
- Facility Ο
- System Ο
- Community Ο

WHEN is the proposed intervention point?

- Among women of reproductive age ٠ ("preconception")
- In pregnancy and in the postpartum period
 - Labor & Delivery (L&D) 0
 - Prior to L&D hospitalization discharge Ο
 - First 6 weeks postpartum 0
 - 42-365 days postpartum Ο

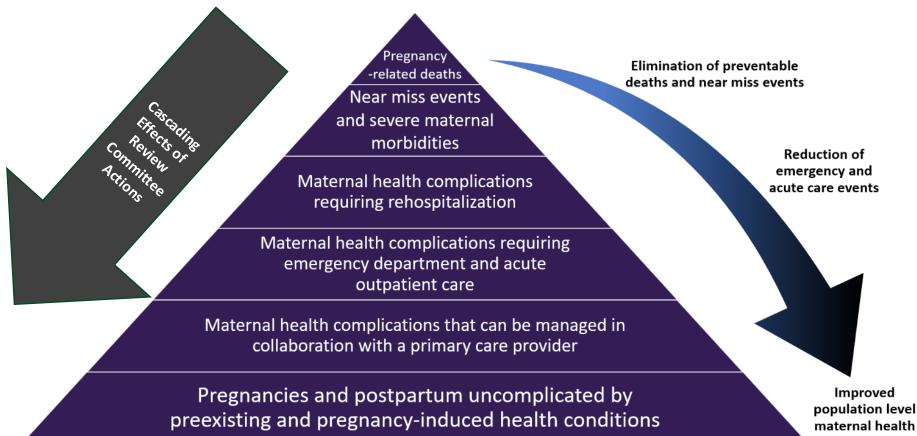
*Enter recommendation at the relevant level (Patient/Family, Provider, Facility, System, Community).

Sourced from: MMRIA Facilitation Guide





Data that Fuels Action



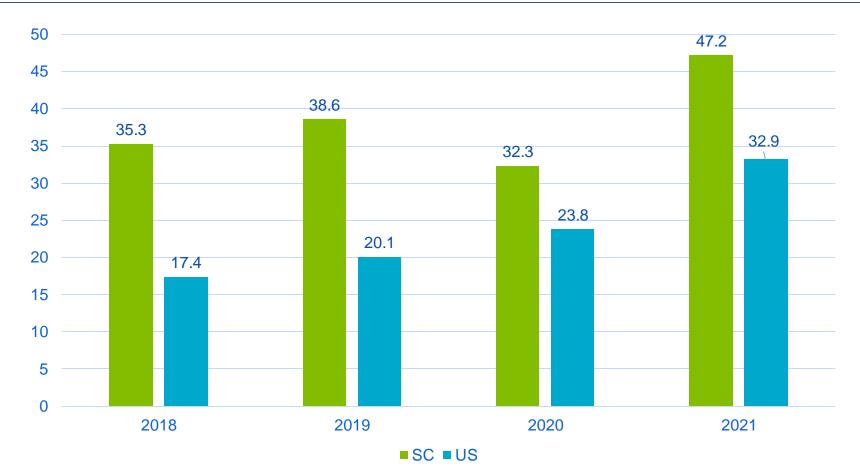


SCMMMRC Data



Pregnancy-Related Mortality Rate, South Carolina and United States

Rate per 100,000 live births

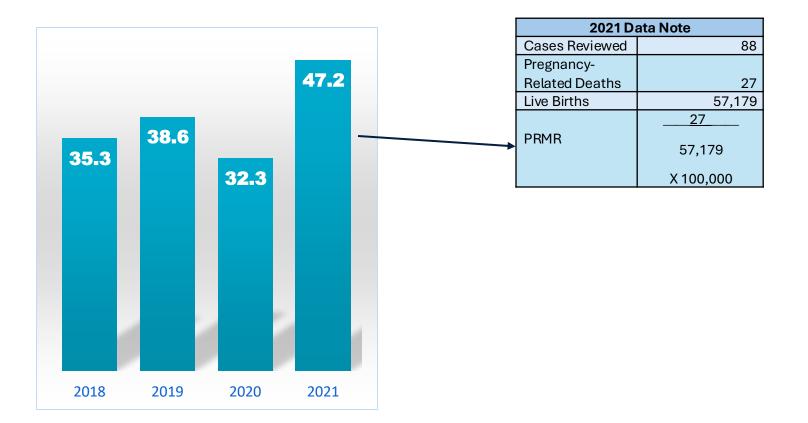


UTH CAROLIA



Pregnancy-Related Morality Rate, by Year

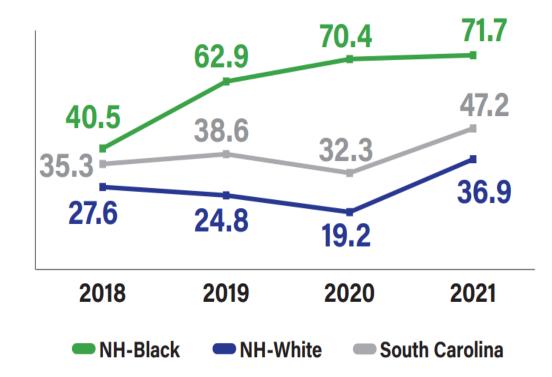
Rate per 100,000 live births



Trend in Pregnancy-Related Mortality Rate, by Race and Ethnicity



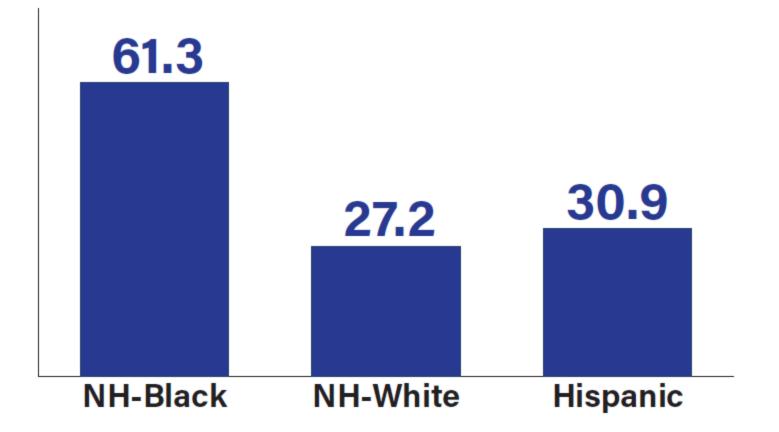
Rate per 100,000 live births



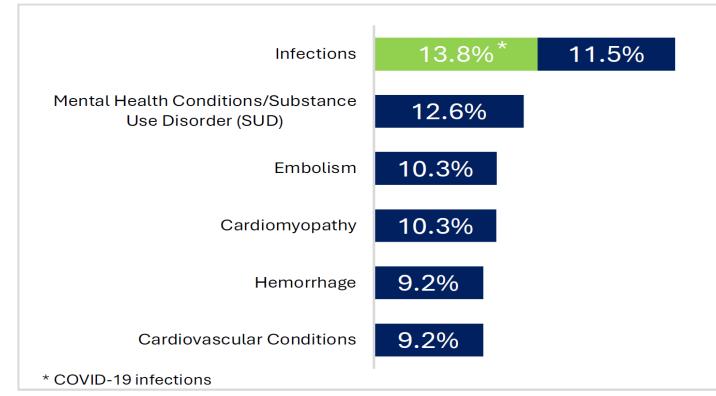
Pregnancy-Related Mortality Rate, Race and Ethnicity, 2018-2021



Rate per 100,000 live births



Leading Causes of Pregnancy-Related Deaths Percent of pregnancy-related deaths; 2018-2021



Non-Hispanic White Women	Non-Hispanic Black Women
Infections	Infections
Mental Health Conditions/SUD	• Embolism
Hemorrhage	Heart Conditions



Circumstances of Pregnancy-Related Deaths

35.6%

28.9%

23.0%

21.8%

Percent of pregnancy-related deaths, 2018-2021

Obesity

Discrimination

Substance Use Disorder

Mental Health Conditions

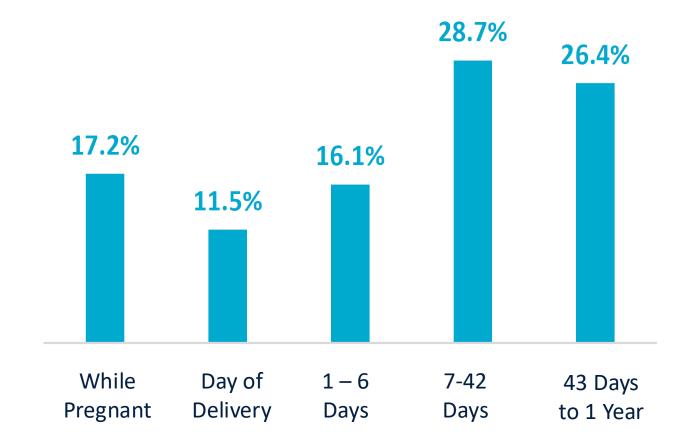
Discrimination The possibility of discrimination is described as treating someone less or more favorably based on the group, class, or category they belong to resulting from biases, prejudices, and stereotyping. It can manifest as differences in care, clinical communication, and shared decision-making. Discrimination was recognized as the contributing factor in almost one third of the pregnancy-related deaths reviewed.



Timing of Pregnancy-Related Deaths

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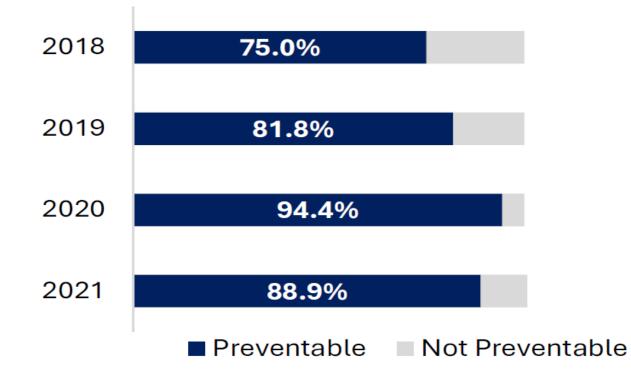
Percent of pregnancy-related deaths; 2018-2021



Preventability of Pregnancy-Related Deaths

Percent of pregnancy-related deaths; 2018-2021

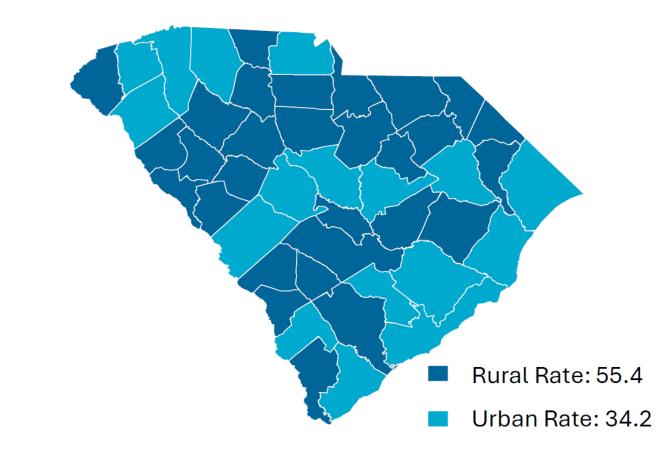




Pregnancy-Related Mortality Rate, by Urban and Rural Designation

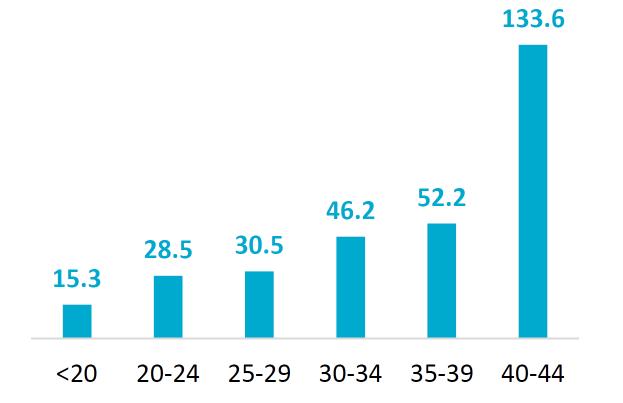
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Rate per 100,000 live births; 2018-2021



Pregnancy-Related Mortality Rate, by Age

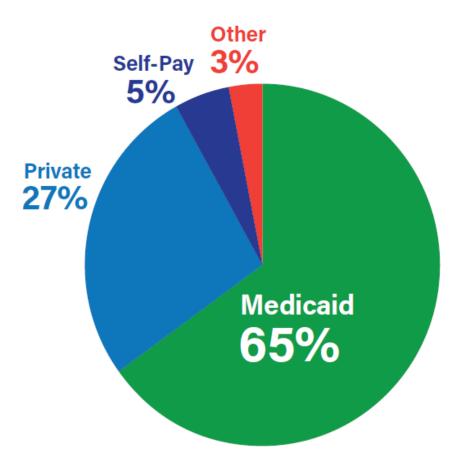
Rate per 100,000 live births, 2018-2021



BOUTH CAROLINA DEPARTMENT OF PUBLIC N

Pregnancy-Related Deaths, by Payor Source

Percent of pregnancy-related death and live births, 2018-2021





SCMMRC recommendations to improve maternal outcomes

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System Level:

- All women should have access to maternity care regardless of where they live and their ability to pay for care.
- All pregnant and post-partum women should receive healthcare that is respectful, non-judgmental, and non-biased and considers their cultural differences.
- SC should adopt an access to treatment model versus a punitive model for pregnant women who have a substance use disorder.
- SC should promote fair treatment of women with substance use disorder; it should be de-stigmatized and given the same consideration as a medical diagnosis.
- Case management and nurse navigators should be utilized for care coordination to assist pregnant women with complex medical conditions, including mental health conditions and substance use disorder.

Facility Level:

- Facilities should implement maternal safety bundles and use these tools to adopt standards of care.
- Drug and alcohol screenings should be required at facilities for women who received no prenatal care or have a history of substance use disorder.
- Additionally, facilities should require Emergency Room physicians and personnel to participate in training on the appropriate care of pregnant and post-partum women.

Provider Level:

- Providers should advise pregnant and post-partum women on the benefits of the COVID-19 and all recommendation vaccines.
- For pregnant women with moderate to severe COVID- 19 infection, providers should consider the administration of monoclonal antibodies.
- Providers should screen and refer pregnant and post-partum women who screen positive for substance use or mental health conditions to the appropriate services for treatment.



Community Level:

- South Carolina communities should provide community outreach to include education about Urgent Maternal Warning Signs.
- South Carolina should have community-wide education, resources, and information about substance use disorder available to pregnant and post partum women and their families.

Patient and Family Level:

 Pregnant women should follow of the American College of Obstetricians and Gynecologists and Society for Fetal Medicine recommendations that the Covid-19 vaccination is safe in any trimester.





Thank you! Questions?

Contact Info: Nicholas Resciniti <u>rescinnv@dph.sc.gov</u> Kimberly Jenkins <u>jenkinka@dph.sc.gov</u>



Concurrent Maternal Health Initiatives

SC DPH Title V Institute of Medicine & Public Health



UNITE WITH, INTEGRATE, ALIGN, AND COMPLEMENT THE COMPONENTS OF THESE THREE STATEWIDE INITIATIVES TO IMPROVE MATERNAL AND INFANT OUTCOMES.



organizations and stakeholders around a shared goal to achieve large-scale positive changes.

The collective impact approach aims to foster collaboration, minimize duplication of efforts, prevent partner burnout, complement current efforts, and eliminate contradicting elements.

INCORPORATE THE THREE STATEWIDE PLANS INTO THE WRITING OF THE MCH CHAPTER OF THE SC SHIP.

MATERNAL & INFANT STATEWIDE HEALTH IMPROVEMENT INITATIVES		POPULATION DOMAINS	AIM	FIRST MEETING		MEETING SCHEDULE
Health Resources & Services Administration	5 YEARS	Maternal	Impact and reduce infant and maternal mortality and morbidity.	AUG 2024	AUG 2024	Aug 2024 Dec 2024 Mar 2025 Jun 2025 Sep 2025
South Carolina Institute of Medicine & Public Health MATERNAL AND INFANT PROJECT	10* YEARS	Infant & Maternal	Impact and reduce infant and maternal mortality and morbidity with focus on access to care.	AUG 2024	MAY 2025	Aug 2024 Sep 2024 Oct 2024 Nov 2024 Dec 2024 Jan 2025 Feb 2025 Mar 2025
SOUTH CAROLINA DEPARTMENT OF PUBLIC HEALTH MCH TITLE V NEEDS ASSESSMENT	5 YEARS	Infant Maternal Children Adolescent & CYSHCN	Impact overall health throughout all five domains.	SEP 2024	JUL 2025	Sep 2024 Jan 2025 Apr 2025 Jun 2025
SHIP: STATE HEAL IMPROVEMENT PL MATERNAL/INFAN	AN 🗧 🚽	5 Infant 8	Impact and	naternal	ETING IMPLEMENTA	ar milestone and action ite

Panel Discussion

Community Birth Workers in Clinical Settings



Panel Discussion: Community Birth Workers in Clinical Settings

• This panel will explore the evolving role of community-based maternal health workers, examine barriers to integration, and discuss strategies to foster stronger partnerships between clinical and community providers.





Participants

Jeffery Hall, MD

Clinical Professor of Family & Preventive Medicine University of South Carolina

Keisha Lockhart, DNP, CMN

Primary Care Pediatric Nurse Practitioner and Nurse Midwife, Founder & Owner

AfterBirth, LLC

Sara Covington-Kolb, CCHW, MSPH, MSW

Program Impact Manager Center for Community Health Alignment

Symon'e Johnson

Certified Holistic Doula, Founder & Owner Pamoja Partnership

Rho Sims

Community Organizer

Black Maternal Health Collective & Preeclampsia Foundation

Stormi Harmon

Certified Holistic Doula & Doula Trainer, Founder & Owner Set Apart Collective















Panel Discussion

Community Birth Workers in Clinical Settings



Partners in Innovation

An Overview of Projects Supported by MHI



MHI Supported Projects



SCMMMRC Nurse Abstractors



South Carolina State University

Mommy's Café Unite South Carolina



Project ECHO



MHI Supported Projects



SIMCoach

Expansion to emergency departments and non-birthing hospitals



Prisma Health Clinical Consultant Low fidelity, simulation-based curriculum Virtual training opportunities for rural providers



USC MCH Catalyst Student Internships



University of South Carolina's Institute for Families in Society (IFS)



Maternal Health Resource Hub

AI Chat Box Integration

Localized Data

Empowerment & Literacy

USC College of Engineering and Computing



Alliance for Innovation Community Care Initiative (AIM CCI)



Institute for Families in Society



SIMCoach Evaluation



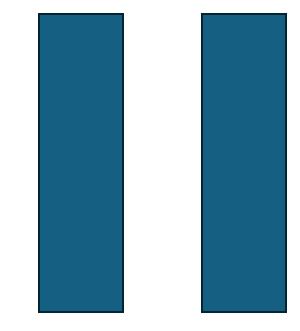
USC Patient Engagement Studio Perinatal Advisory Council



Small Grants Program



Break





Chat Question

If you could instantly master one skill, what would it be and why?



Breakout Sessions: Workgroups



Data Collection, Analysis, & Distribution



Service Delivery





Empowerment & Literacy



Next Steps

- Post Meeting Survey
- Next Meetings
 - Workgroups
 - May 2025
 - MHTF
 - June 17, 2025



https://redcap.link/scmhic3



in Society iversity of South Caroli



THANK YOU!



KRISTEN SHEALY SHEALYKH@DPH.SC.GOV LADREA WILLIAMS-BRIGGS WILLIALS@DPH.SC.GOV



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