

			COMMITTEE DETERMINATION OF CAUSE(S) OF DEATH						
REVIEW DATE	RECORD II	D #	IF PREGNANCY-RELATED, COMMITTEE DETERMINATION OF UNDERLYING ¹ CAUSE OF DEATH Refer to Appendix A for PMSS-MM cause of death list.						
Month/Day/Year			If a death is pregnancy-associated, not related then an underlying cause of death entry is not necessary. Use optional box below.						
PREGNANCY-RELATEDNESS:	: SELECT ON	E	ТҮРЕ	OPTIONAL: CAUSE (DESCRI	PTIVE)				
☐ PREGNANCY-RELATED			UNDERLYING ^{1,2}						
		ne year of the end of pregnancy from a vents initiated by pregnancy, or the	CONTRIBUTING ^{2,3}						
		n by the physiologic effects of pregnancy	IMMEDIATE ²						
☐ PREGNANCY-ASSOCIATED	D. BUT NOT-I	RELATED	OTHER SIGNIFICANT ²						
A death during pregnancy	y or within o	ne year of the end of pregnancy from a	COMMITTEE DETERMINATIONS ON CIRCUMSTANCES SURROUNDING DEATH ⁴						
cause that is not related t	to pregnancy	y	DID OBESITY CONTRIBUTE	TO THE DEATH?	☐ YES	☐ PROBABLY	□ №	□UNKNOWN	
☐ PREGNANCY-ASSOCIATED PREGNANCY-RELATEDNES		LE TO DETERMINE	DID DISCRIMINATION ⁵ CO	ONTRIBUTE TO THE DEATH?	☐ YES	☐ PROBABLY	□ №	□UNKNOWN	
ESTIMATE THE DEGREE OF RELEVANT INFORMATION (RECORDS) AVAILABLE FOR		DID MENTAL HEALTH CONDITIONS OTHER THAN SUBSTANCE USE DISORDER CONTRIBUTE TO THE DEATH?				□ UNKNOWN			
THIS CASE: These fields are for internal jurisdiction use in order to evaluate opportunities to gain better access to information for reviews.		DID SUBSTANCE USE DISC DEATH?	DRDER CONTRIBUTE TO THE	☐ YES	☐ PROBABLY	□NO	□ UNKNOWN		
☐ COMPLETE		□ SOMEWHAT COMPLETE	MANNER OF DEATH						
All records necessary for adequate review of the case		Major gaps (i.e., information that would have been crucial to the	WAS THIS DEATH A SUICID	DE?	☐ YES	☐ PROBABLY	□ №	□UNKNOWN	
were available		review of the case)	WAS THIS DEATH A HOMI	CIDE?	☐ YES	☐ PROBABLY	□ №	□UNKNOWN	
☐ MOSTLY COMPLETE Minor gaps (i.e., informate that would have been been been but was not essential to the case)	tion neficial	☐ NOT COMPLETE Minimal records available for review (i.e., death certificate and no additional records)	IF ACCIDENTAL DEATH, HOMICIDE, OR SUICIDE, LIST THE MEANS OF FATAL INJURY	SHARP INSTRUMENT BLUNT INSTRUMENT POISONING/OVERDOSE HANGING/		FALL PUNCHING/ KICKING/BEATING EXPLOSIVE DROWNING		☐ INTENTIONAL NEGLECT ☐ OTHER, SPECIFY: ☐ UNKNOWN	
DOES THE COMMITTEE AGREE WITH THE UNDERLYING¹ CAUSE OF DEATH LISTED ON DEATH CERTIFICATE? The underlying cause of death determination as documented by a multidisciplinary MMRC may be different from the underlying cause of death used by pathologists in the course of death certification documented in the Vital Statistics system.			STRANGULATION/ SUFFOCATION	☐ FIRE OR BURNS ☐ MOTOR VEHICLE		☐ NOT APPLICABLE			
		IF HOMICIDE, WHAT WAS THE RELATIONSHIP OF THE PERPETRATOR TO THE DECEDENT?	☐ NO RELATIONSHIP ☐ PARTNER ☐ EX-PARTNER ☐ OTHER RELATIVE	☐ OTHER ACQUAII	NTANCE	□ UNKN □ NOT A	OWN PPLICABLE		

¹ Underlying cause refers to the disease or injury that initiated the chain of events leading to death or the circumstances of the accident or violence which produced the fatal injury.
² OPTIONAL field, CDC does not use this data.

³ Add descriptions of contributors in the pathway between the immediate and underlying cause of death, as provided by the committee. Note that this is different from the contributing factors worksheet on page 2.

⁴ If "Yes" or "Probably" is selected for preventable deaths, then an aligned contributing factor class and description would be expected in the grid on page 2.

⁵ As described in Appendix B.



Interpersonal racism

• Law Enforcement

Knowledge

• Legal

MMRIA			MATERNA	AL MORTALITY RE	VIEW COMMITTER	E DECISIONS FORM v24	1.3 2
COMMITTEE DETERMIN	IATION OF PREVENTAB	ILITY	WAS THIS DEATH PRE	EVENTABLE?	☐ YES	□ NO	
A death is considered preven some chance of the death be patient, family, provider, faci	eing averted by one or more	reasonable changes to		CHANCE TO ALTER OUTCOME ⁶		NCE SOME CHANCE UNABLE TO DETERMINE	
CONTRIBUTING FACTOR	RS AND RECOMMENDA	TIONS FOR ACTION (E	Entries may continue to grid o	on page 3)			
CONTRIBUTING FACTOR What were the factors that confactors may be present at ea until all contributing factors I	contributed to this death? M ch level: Choose one contrib	ultiple contributing If outing factor per row ac	ECOMMENDATIONS OF there was at least some char ctions that, if implemented o ecommendation per row unti	nce that the death r altered, might ha	could have been a	ourse of events? Develo	
DESCRIPTION OF ISSUE (enter a description for EACH contributing factor listed)	contributing factor (enter one per row; repeat a needed if a contributor has than one recommendation)	as [W more M	OMMITTEE RECOMMENDATION who?] should [do what?] [when?] ap recommendations to contributi seded if a recommendation has more		LEVEL	PREVENTION TYPE (choose below)	EXPECTED IMPACT (choose below)
CONTRIBUTING FACTOR KE							
(DESCRIPTIONS IN APPENDIX B) • Access/financial • Adherence • Assessment • Chronic disease • Clinical skill/quality of care • Communication • Continuity of care/care coordination • Cultural/religious • Delay • Discrimination • Equipment/technology • Mental health conditions • Outreach • Policies/procedures • Referral • Social support/ isolation • Structural racism • Substance use disorder - alcohol, illicit/prescription drugs • Tobacco use		 PATIENT/FAMILY: A woman before, during or after a pregnancy, and her family, internal or external to the household, with influence on the woman PROVIDER: An individual with training and expertise who provides care, treatment, and/or advice FACILITY: A physical location where direct care is provided - ranges from small clinics and urgent care centers to hospitals with trauma centers SYSTEM: Interacting entities that support services before, during, or after a pregnancy - ranges from healthcare systems and payors to public services and programs 		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) TERTIARY: Reduces the impact or progression of what has become an ongoing contributing factor (i.e., management of complications)		SMALL: Education/counseling (community- and/or provider-based health promotion and education activities) MEDIUM: Clinical intervention and coordination of care across continuum of well-woman visits (protocols, prescriptions) LARGE: Long-lasting protective intervention (improve readiness, recognition and response to obstetric emergencies/LARC) EXTRA LARGE: Change in context (promote environments that support	

healthy living/ensure available and

• GIANT: Address social drivers of health

accessible services)

(poverty, inequality, etc.)

Unstable housing

Violence

Other

• COMMUNITY: A grouping based on a shared

neighborhoods to a community based on

common interests and shared circumstances

sense of place or identity - ranges from physical

⁶ If "Good Chance" or "Some Chance" are selected, then CDC considers this is a "Yes" in their analytic use of the preventability determination.



CONTRIBUTING FACTORS AND RECOMMENDATIONS FOR ACTION (Continued from page 2)

CONTRIBUTING FACTORS WORKSHEET

What were the factors that contributed to this death? Multiple contributing factors may be present at each level: Choose one contributing factor per row until all contributing factors have been identified and described.

RECOMMENDATIONS OF THE COMMITTEE

If there was at least some chance that the death could have been averted, what were the specific and feasible actions that, if implemented or altered, might have changed the course of events? Develop one recommendation per row until all contributing factors have been addressed.

DESCRIPTION OF ISSUE (enter a description for EACH contributing factor listed)	CONTRIBUTING FACTOR (enter one per row; repeat as needed if a contributor has more than one recommendation)	LEVEL	COMMITTEE RECOMMENDATIONS [Who?] should [do what?] [when?] Map recommendations to contributing factors; repeat as needed if a recommendation has more than one contributor.	LEVEL	PREVENTION TYPE (choose below)	EXPECTED IMPACT (choose below)



CONTRIBUTING FACTORS AND RECOMMENDATIONS FOR ACTION (Continued from page 3)

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APPENDIX A. PMSS-MM CODES: IF PREGNANCY-RELATED, COMMITTEE DETERMINATION OF UNDERLYING 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

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

90.3 - 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

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 (Hemorrhage/ 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

¹ Underlying cause refers to the disease or injury that initiated the chain of events leading to death or the circumstances of the accident or violence which produced the fatal injury.

⁷ Pregnancy-related death: 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.



APPENDIX B. CONTRIBUTING FACTOR DESCRIPTIONS

LACK OF ACCESS/FINANCIAL RESOURCES

Systemic barriers, e.g., lack or loss of healthcare insurance or other financial duress, as opposed to noncompliance, impacted their ability to care for themself (e.g., did not seek services because unable to miss work or afford postpartum visits after insurance expired). Other barriers to accessing care: insurance non-eligibility, provider shortage in their geographical area, and lack of public transportation.

ADHERENCE TO MEDICAL RECOMMENDATIONS

The provider or patient did not follow protocol or failed to comply with standard procedures (i.e., non adherence to prescribed medications).

FAILURE TO SCREEN/INADEQUATE **ASSESSMENT** OF RISK Factors placing the woman at risk for a poor clinical outcome recognized, and they were not transferred/transported to a provider able to give a higher level of care.

CHRONIC DISEASE

Occurrence of one or more significant pre-existing medical conditions (e.g., obesity, cardiovascular disease, or diabetes).

CLINICAL SKILL/QUALITY OF CARE (PROVIDER OR FACILITY PERSPECTIVE)

Personnel were not appropriately skilled for the situation or did not exercise clinical judgment consistent with standards of care (e.g., error in the preparation or administration of medication or unavailability of translation services).

POOR **COMMUNICATION**/LACK OF CASE COORDINATION OR MANAGEMENT/ LACK OF CONTINUITY OF CARE (SYSTEM PERSPECTIVE)

Care was fragmented (i.e., uncoordinated or not comprehensive) among or between healthcare facilities or units, (e.g., records not available between inpatient and outpatient or among units within the hospital, such as Emergency Department and Labor and Delivery).

LACK OF **CONTINUITY OF CARE** (PROVIDER OR FACILITY PERSPECTIVE) Care providers did not have access to woman's complete records or did not communicate their status sufficiently. Lack of continuity can be between prenatal, labor and delivery, and postpartum providers.

CULTURAL/RELIGIOUS, OR LANGUAGE FACTORS

The provider or patient demonstrated that any of these factors was either a barrier to care due to lack of understanding or led to refusal of therapy due to beliefs (or belief systems).

DELAY

The provider or patient was delayed in referring or accessing care, treatment, or follow-up care/action.

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. (Hardeman, 2022)⁸

ENVIRONMENTAL FACTORS

Factors related to weather or social environment.

INADEQUATE OR UNAVAILABLE **EQUIPMENT/TECHNOLOGY** Equipment was missing, unavailable, or not functional, (e.g., absence of blood tubing connector).

INTERPERSONAL RACISM

Discriminatory interactions 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. (Hardeman, 2022) ⁸

KNOWLEDGE - LACK OF KNOWLEDGE REGARDING IMPORTANCE OF EVENT OR OF TREATMENT OR FOLLOW-UP

The provider or patient did not receive adequate education or lacked knowledge or understanding regarding the significance of a health event (e.g., shortness of breath as a trigger to seek immediate care) or lacked understanding about the need for treatment/follow-up after evaluation for a health event (e.g., needed to keep appointment for psychiatric referral after an ED visit for exacerbation of depression).

INADEQUATE LAW ENFORCEMENT RESPONSE

Law enforcement response was not in a timely manner or was not appropriate or thorough in scope.

LEGAL

Legal considerations that impacted outcome.

MENTAL HEALTH CONDITIONS

The patient had a documented diagnosis of a psychiatric disorder. This includes postpartum depression. If a formal diagnosis is not available, refer to your review committee subject matter experts (e.g., psychiatrist, psychologist, licensed counselor) to determine whether the criteria for a diagnosis of substance use disorder or another mental health condition are met based on the available information.

INADEQUATE COMMUNITY OUTREACH/RESOURCES

Lack of coordination between healthcare system and other outside agencies/organizations in the geographic/cultural area that work with maternal health issues.

LACK OF STANDARDIZED POLICIES/PROCEDURES

The facility lacked basic policies or infrastructure germane to the woman's needs (e.g., response to high blood pressure, or a lack of or outdated policy or protocol).

LACK OF REFERRAL OR CONSULTATION

Specialists were not consulted or did not provide care; referrals to specialists were not made.

SOCIAL SUPPORT/ISOLATION - LACK OF FAMILY/ FRIEND OR SUPPORT SYSTEM

Social support from family, partner, or friends was lacking, inadequate, and/or dysfunctional.

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. (Hardeman, 2022) 8

SUBSTANCE USE DISORDER – ALCOHOL, ILLICIT/ PRESCRIPTION DRUGS

Substance use disorder is characterized by recurrent use of alcohol and/or drugs causing clinically and functionally significant impairment, such as health problems or disability. The committee may determine that substance use disorder contributed to the death when the disorder directly compromised their health status (e.g., acute methamphetamine intoxication exacerbated pregnancy- induced hypertension, or they were more vulnerable to infections or medical conditions).

TOBACCO USE

The patient's use of tobacco directly compromised the patient's health status (e.g., long-term smoking led to underlying chronic lung disease).

TRAUMA

The woman experienced trauma: i.e., loss of child (death or loss of custody), rape, molestation, or one or more of the following: sexual exploitation during childhood plus persuasion, inducement, or coercion of a child to engage in sexually explicit conduct; or other physical or emotional abuse other than that related to sexual abuse during childhood.

UNSTABLE HOUSING

Individual lived "on the street," in a homeless shelter, or in transitional or temporary circumstances with family or friends.

VIOLENCE AND INTIMATE PARTNER VIOLENCE (IPV)

Physical or emotional abuse perpetrated by current or former intimate partner, family member, friend, acquaintance, or stranger.

OTHER

Contributing factor not otherwise mentioned. Please provide description.

⁸ Hardeman RR, 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.



APPENDIX C. CONSENSUS PREGNANCY-RELATED CRITERIA FOR SUICIDE AND UNINTENTIONAL OVERDOSES9, 10

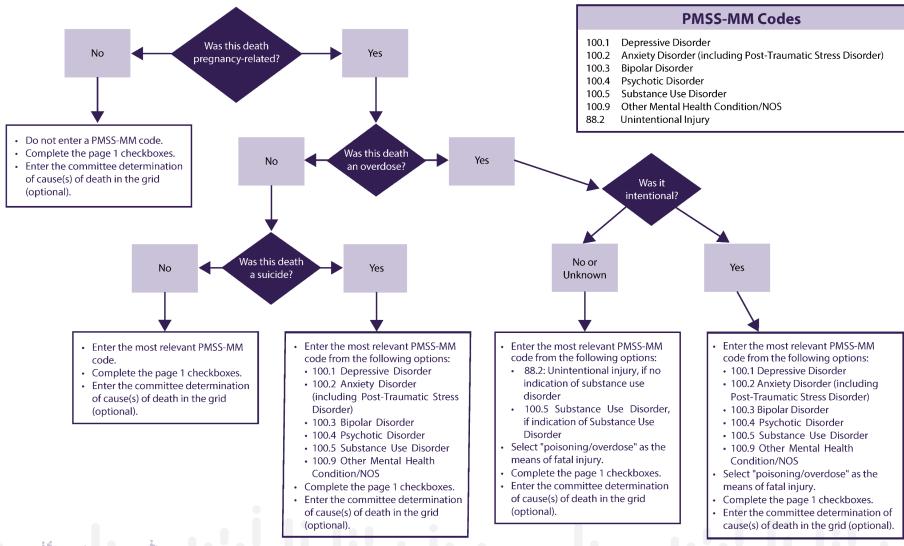
Present Y/N	Consensus pregnancy-related criteria for suicide and unintentional overdoses	Examples						
	Pregnancy Complication							
	Increased pain directly attributable to pregnancy or postpartum events leading to self-harm or drug use that are implicated in suicide or unintentional drug-related 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]	Placental abruption or preeclampsia in setting of drug use						
	Chain of Events Initiated by Pregnancy							
	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. [no consensus at any time period]	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.



APPENDIX D. CODING UNDERLYING CAUSE OF DEATH FOR SUICIDES AND OVERDOSES





to Eliminate Maternal Mortality







APPENDIX E. FAQ: COMMITTEE DETERMINATIONS ON CIRCUMSTANCES SURROUNDING DEATH & MANNER OF DEATH

These frequently asked questions refer to the following fields on the committee decisions form:

Did obesity contribute to the death?

Did discrimination contribute to the death?

Did mental health conditions other than substance use disorder contribute to the death?

Did substance use disorder¹¹ contribute to the death?

Was this death a suicide?

Was this death a homicide?

If accidental death, homicide, or suicide, list the means of fatal injury.

If homicide, what was the relationship of the perpetrator to the decedent?

1. Should the Circumstances Surrounding Death and the Manner of Death fields be completed for all pregnancy-associated deaths or just those determined to be pregnancy-related?

These fields only need to be completed for deaths determined to be pregnancy-related. If a death is not pregnancy-related, the only committee decisions form field that needs to be completed is the pregnancy-relatedness and degree of relevant information available selection, highlighted in light purple on page 1.

2. Should the Circumstances Surrounding Death and the Manner of Death fields be completed in reference to the pregnant or postpartum woman, or the broader context surrounding the death?

The Circumstance and Manner fields refer to the woman's own experience. For example, if a pregnant or postpartum woman had a substance use disorder which contributed to the death, the Circumstance should be marked 'yes'. In contrast, if the death was a homicide where the perpetrator had a substance use disorder that contributed to causing a death, and the victim did not have a substance use disorder, or the victim had a substance use disorder that did not contribute to the death, the Circumstance should be marked 'no'.

3. If substance use was involved in the death, should we choose 'yes' for substance use disorder circumstance?

This Circumstance refers to 'substance use disorder', not just substance use. The committee should only choose 'yes' or 'probably' if there is indication of a substance use disorder diagnosis or an expert on the committee (e.g., psychiatrist, psychologist, licensed counselor) who feels that the criteria for a diagnosis of substance use disorder are met based on the available information. Additionally, the Circumstance should only be marked 'yes' if the committee decides that the substance use disorder was a contributing factor in the death. If the pregnant or postpartum woman had a substance use disorder but this did not contribute to the death, the Circumstance should be marked 'no'.

If the committee determines the death was an intentional or accidental overdose, this should be recorded as poisoning/overdose under means of fatal injury.

4. For the substance use disorder and mental health conditions Circumstance fields, is a formal diagnosis required?

A diagnosis should ideally be indicated in the pregnant or postpartum woman's medical records. However, this may underestimate the number of pregnant or postpartum women with substance use disorder or mental health conditions if women are unable to access care or treatment. Refer to your review committee subject matter experts (e.g. psychiatrist, psychologist, licensed counselor) to determine whether the criteria for a diagnosis of substance use disorder or another mental health condition are met based on the available information.

5. If substance use disorder contributed to the death, but another mental health condition did not, should we also choose 'yes' for the mental health conditions Circumstance?

No, substance use disorder should be captured separately from other mental health conditions.

¹¹ Characterized by recurrent use of alcohol and/or drugs causing clinically and functionally significant impairment, such as health problems or disability. The committee may determine that substance use disorder contributed to the death when the disorder directly compromised a pregnant or postpartum woman's health status (e.g., acute methamphetamine intoxication exacerbated pregnancy-induced hypertension, or the pregnant or postpartum woman was more vulnerable to infections or medical conditions).



6. Does the substance use disorder Circumstance include tobacco use?

No, substance use disorder as defined here does not include tobacco use. You would NOT mark the substance use disorder Circumstance as 'yes' or 'probably' based solely on tobacco use. If the committee determines that tobacco use was a contributor to the death, ensure that Tobacco Use is noted in the contributing factor worksheet with an actionable recommendation that addresses it.

7. When do we need to choose a means of fatal injury on the committee decisions form?

If the committee determines that a death was a pregnancy-related death and an accidental death, homicide, or suicide, they should also determine the means of fatal injury to be recorded on the committee decisions form. Unintentional and intentional overdoses should be recorded as poisoning/overdose.

8. If the committee selects 'yes' or 'probably' for any of the Circumstances (obesity, discrimination, mental health conditions, and/or substance use disorder), should they always document the corresponding contributing factor class and an actionable recommendation?

Typically, we expect the circumstances surrounding a death to align with a specified contributing factor class and recommendation. However, recommendations are focused on actions that would have prevented the death. If your committee determines that a circumstance such as obesity contributed to a death that is not preventable, they do not need to document a contributing factor class and recommendation.

9. When do we need to choose a relationship of the perpetrator to the decedent?

If the committee determines that a death was a homicide, they should also record the relationship of the perpetrator to the decedent on the committee decisions forms. The means of fatal injury should also be filled out for all homicides.

10. If certain deaths are not reviewed by our committee (for example, suicides and homicides), should we still complete the Circumstances Surrounding Death and Manner of Death fields?

No, these fields are intended to capture the committee decisions. If a death is not reviewed by the committee, the Circumstances Surrounding Death and Manner of Death fields should not be completed.

11. What if our determination for Manner of Death does not match the manner indicated on the death record?

The MMRC determined Manner of Death is intended to capture the decisions of the review committee, and it is expected that sometimes these decisions may differ from the death record. For example, an overdose may have an unknown manner of death on the death certificate, but relevant subject matter experts (e.g. medical examiner), could review additional information and determine that the overdose was intentional. The committee would then check 'yes' for the suicide Manner. There is also a place on the committee decisions form for indicating whether the committee agrees with the cause of death listed on the death record.

12. Are there opportunities for quality improvement with the information in the Circumstances Surrounding Death and Manner of Death data?

Yes, there are lots of opportunities using the Circumstances Surrounding Death and Manner of Death data. For example, all unintentional overdoses and overdoses of unknown intent with indication of substance use disorder should have an underlying cause of death PMSS-MM code of 100.5 (Substance Use Disorder) or 100.9 (Other Mental Health Conditions/NOS). If the substance use disorder Circumstance is marked 'yes', but the PMSS-MM code is 88.2 (Unintentional Injury), there may be discrepancies in how the MMRC is selecting PMSS-MM codes.

Another opportunity for quality improvement is to compare the obesity Circumstance with the decedent's actual BMI calculated using the height and weight provided in the records. Are there instances where your committee is selecting 'yes' when the BMI suggests the woman was at a healthy weight? Of note—this Circumstance is intended to capture whether obesity contributed to the death, not whether the pregnant or postpartum woman was obese / obesity was present.