# Using the MMRIA Committee Decisions Form

**Dave Goodman**, Maternal Health Team Lead, CDC Division of Reproductive Health **Nicole Davis**, Epidemiologist, CDC Division of Reproductive Health **Amy St. Pierre**, Project Manager, CDC Foundation **Julie Zaharatos**, Partnerships and Outreach Manager, CDC Foundation

Please note: webinar is being recorded





### Agenda:

Review how to use the form, step-by-step

Amy

Share tips for facilitating decision-making
 Julie

Answer some FAQs
 Nicole

Discussion



### Who We Are



Building U.S. Capacity to Review and Prevent Maternal Deaths promotes the maternal mortality review process as the best way to understand why maternal mortality in the United States is increasing, and identify interventions to prevent maternal deaths. The initiative will produce stronger data than ever before and foster collaboration that can lead to effective interventions. It is the result of a collaboration between the CDC Foundation, the Centers for Disease Control and Prevention (CDC), and the Association of Maternal and Child Health Programs (AMCHP). Funding for the collaboration was provided through an award agreement with Merck on behalf of its Merck for Mothers program.





### What does the form provide?

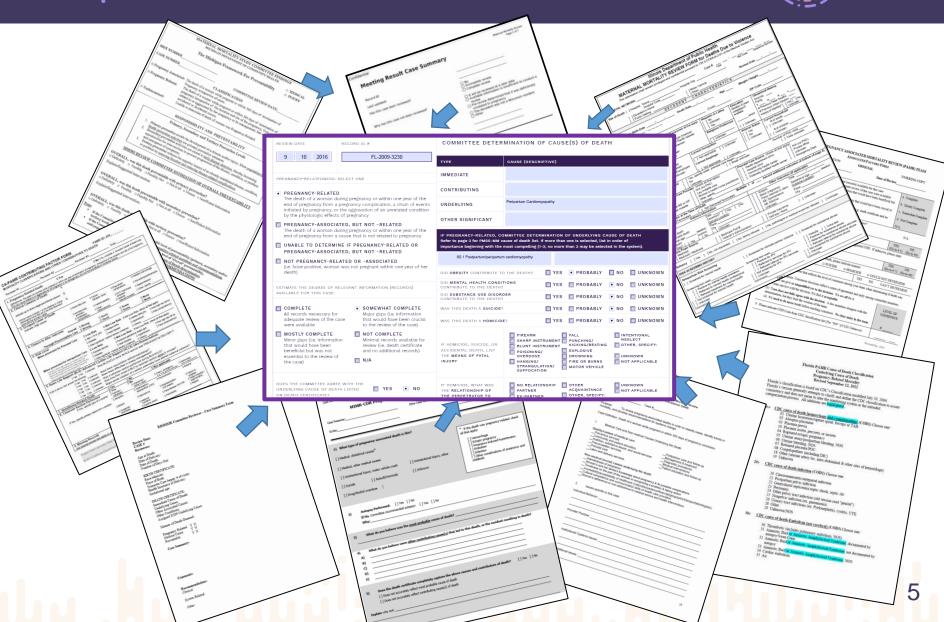
- A synthesis of various forms from MMRCs around the U.S.
- A common language
- A way to collect data that feeds ACTION!





### RIA Synthesis of Various Forms

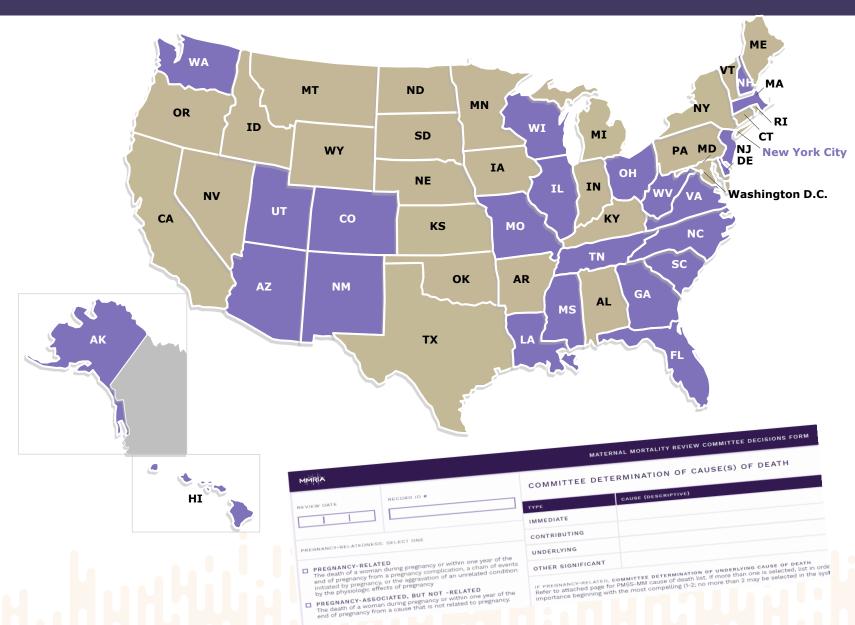






### A Common Language

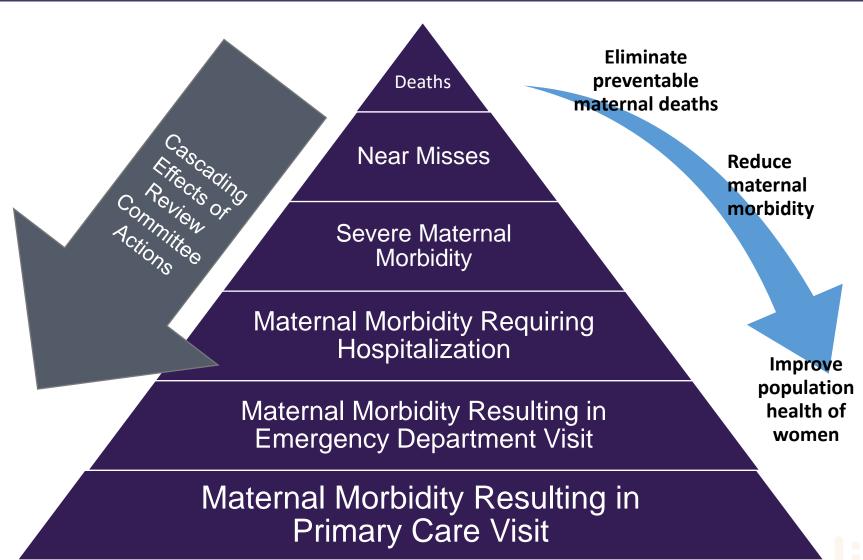






### **Data That Feeds Action**









### What does the form NOT provide?

- A perfect way to cleanly capture every possible cause, manner and contributor to every possible maternal death
- ...and never will



### Page 1: The Basics



REVIEW DATE	RECORD ID #	COMMITTEE DETER	MINATION OF CAUSE(S) OF DEATH
9   10   2016	FL-2009-3230	ТҮРЕ	CAUSE (DESCRIPTIVE)
PREGNANCY-RELATEDNESS:	SELECT ONE	IMMEDIATE	
■ PREGNANCY-RELATE	D	CONTRIBUTING	
end of pregnancy from a	luring pregnancy or within one year of the a pregnancy complication, a chain of events r the aggravation of an unrelated condition	UNDERLYING	Peripartum Cardiomyopathy
by the physiologic effect  PREGNANCY-ASSOCIA	s of pregnancy ATED, BUT NOT -RELATED	OTHER SIGNIFICANT	
The death of a woman during pregnancy or within one year of the end of pregnancy from a cause that is not related to pregnancy  UNABLE TO DETERMINE IF PREGNANCY-RELATED OR PREGNANCY-ASSOCIATED, BUT NOT -RELATED  NOT PREGNANCY-RELATED OR -ASSOCIATED		Refer to page 3 for PMSS-MM o	DMMITTEE DETERMINATION OF UNDERLYING CAUSE OF DEATH cause of death list. If more than one is selected, list in order of most compelling (1-2; no more than 2 may be selected in the system).
		80.1 Postpartum/peripartur	m cardiomyopathy
(i.e. false positive, woma death)	n was not pregnant within one year of her	DID OBESITY CONTRIBUTE TO	O THE DEATH? YES PROBABLY NO UNKNOWN
ESTIMATE THE DEGREE OF F	RELEVANT INFORMATION (RECORDS)	DID MENTAL HEALTH CONDICONTRIBUTE TO THE DEATH?	I YES I PROBABLY INO I UNKNOWN
AVAILABLE FOR THIS CASE:		DID SUBSTANCE USE DISORI CONTRIBUTE TO THE DEATH?	
COMPLETE All records necessary for	SOMEWHAT COMPLETE     Major gaps (i.e. information	WAS THIS DEATH A SUICIDE?	YES PROBABLY NO UNKNOWN
adequate review of the o	3 0 1 (	WAS THIS DEATH A HOMICID	E? ■ YES ■ PROBABLY ■ NO ■ UNKNOWN
MOSTLY COMPLETE  Minor gaps (i.e. informati that would have been beneficial but was not essential to the review of the case)	review (i.e. death certificate and no additional records)	IF HOMICIDE, SUICIDE, OR ACCIDENTAL DEATH, LIST THE MEANS OF FATAL INJURY	FIREARM FALL INTENTIONAL NEGLECT KICKING/BEATING OTHER, SPECIFY:  DISONING/ EXPLOSIVE OVERDOSE DROWNING UNKNOWN HANGING/ FIRE OR BURNS STRANGULATION/ SUFFOCATION
DOES THE COMMITTEE AGRE UNDERLYING CAUSE OF DEA ON DEATH CERTIFICATE?		IF HOMICIDE, WHAT WAS THE RELATIONSHIP OF THE PERPETRATOR TO	■ NO RELATIONSHIP ■ OTHER ■ UNKNOWN ■ PARTNER ■ ACQUAINTANCE ■ NOT APPLICABLE ■ EX-PARTNER ■ OTHER, SPECIFY:



### Page 2: Data for Action



#### 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 DEATH PREVENTABLE?	■ YES	NO
CHANCE TO ALTER OUTCOME?	■ GOOD CHANCE	SOME CHANCE
SIMMOL TO METER SOTTOMILE.	NO CHANCE	UNABLE TO DETERMINE

#### CONTRIBUTING FACTORS WORKSHEET

What were the factors that contributed to this death? Multiple contributing factors may be present at each level.

CONTRIBUTING FACTOR LEVEL	CONTRIBUTING FACTOR AND DESCRIPTION OF ISSUE
PATIENT/FAMILY	Low health literacy: lack of understanding of diagnosis; Lack of access to health care; Late entry into prenatal care with limited visits (36 weeks/4 visits); Intimate partner violence (restraining order against father of baby); English as a second language (Creole); Obesity
PROVIDER	Quality of care issues; Inadequate risk assessment (cardiac history) leading to lack of care coordination—prenatal/labor and delivery (anesthesiology); Misdiagnosis—emergency department; vital history of cardiomyopathy not obtained; Policies/procedures
FACILITY	Lack continuity care within same hospital at different visits (known chronic health history on previous records, OB not notified (postpartum ER visit); communication (postpartum discharge instructions); use of official translation services
SYSTEM	Communication, Continuity of care; Obstetrics/ cardiology/emergency medicine in postpartum period; Need for patient centered medical home (primary care) in inter-conception period for care coordination including reproductive health planning; Cultural competency:
COMMUNITY	Social support (Referral community resources for woman with history of IPV)

#### 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?

RECOMMENDATIONS OF THE COMMITTEE	LEVEL OF PREVENTION (SEE BELOW)	LEVEL OF IMPACT (SEE BELOW)
Obstetric provider should refer patients with a reported cardiac condition to cardiologist during prenatal care or between pregnancies.	primary	medium
Anesthesiology should evaluate and/or refer patients with reported cardiac conditions who present to Labor and Delivery, if not already done	secondary	small
All providers should utilize official translation services to discuss patient medical conditions, care, education, and follow-up.	secondary	small
OB should document reasons for patient's late entry to prenatal care.	secondary	small
OB should provide referrals to supportive community resources.	secondary	small
L&D nurses should perform postpartum risk screening on women with chronic medical needs in order to form postpartum discharge care plan.	primary	medium
State perinatal quality collaborative (PQC) should educate obstetric providers and ER staff on peripartum cardiomyopathy signs, treatment plans, and available resources	primary	large
State perinatal quality collaborative should consider an education campaign for prenatal care providers regarding resources available to victims of intimate partner violence during pregnancy and the postpartum	secondary	small



### Page 3: Reference



#### IF PREGNANCY-RELATED, COMMITTEE DETERMINATION OF UNDERLYING CAUSE OF DEATH\* PMSS-MM

If more than one is selected, please list them in order of importance beginning with the most compelling (1-2; no more than 2 may be selected in the system).

\*PREGNANCY-RELATED DEATH: THE DEATH OF A WOMAN 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.

□ 10 Hernorrhage (excludes aneurysms or CVA) □ 83 Colla	gen vascular/autoimmune diseases
☐ 10.1 Hemorrhage - rupture/laceration/ ☐ 83.1 System	emic lupus erythematosis (SLE)
intra-abdominal bleeding   83.9 Other	r collagen vascular diseases/NOS
☐ 10.2 Placental abruption ☐ 85 Cond	litions unique to pregnancy (e.g.
□ 10.3 Placenta previa gesta	itional diabetes, hyperemesis, liver
□ 10.4 Ruptured ectopic pregnancy disea	ise of pregnancy)
□ 10.5 Hemorrhage – uterine atony/ post-partum □ 88 Injury	/
hemorrhage   88.1 Inten	tional (homicide)
☐ 10.6 Placenta accreta/increta/percreta ☐ 88.2 Unint	tentional
□ 10.7 Hemorrhage due to retained placenta □ 88.9 Unkn	iown/NOS
☐ 10.8 Hemorrhage due to primary DIC ☐ 89 Canc	er
☐ 10.9 Other hemorrhage/NOS ☐ 89.1 Gesta	ational trophoblastic disease (GTN)
□ 20 Infection □ 89.3 Malig	nant melanoma
□ 20.1 Post-partum genital tract (e.g. of the uterus/ □ 89.9 Other	r malignancies/NOS
pelvis/perineum/necrotizing fasciitis)   90 Cardi	iovascular conditions
☐ 20.2 Sepsis/septic shock ☐ 90.1 Coro	nary artery disease/myocardial
□ 20.4 Chorioamnionitis/antepartum infection infarc	ction (MI)/atherosclerotic
	ovascular disease
meningitis, HIV) 🗆 90.2 Pulm	onary hypertension
☐ 20.6 Urinary tract infection ☐ 90.3 Valvu	lar heart disease
☐ 20.9 Other infections/NOS ☐ 90.4 Vasco	ular aneurysm/dissection
□ 30 Embolism - thrombotic (non-cerebral) □ 90.5 Hype	rtensive cardiovascular disease
☐ 30.9 Other embolism/NOS ☐ 90.6 Marfa	an's syndrome
□ 31 Embolism – amniotic fluid □ 90.7 Cond	luction defects/arrhythmias
☐ 40 Pre-eclampsia ☐ 90.8 Vasco	ular malformations outside head and
☐ 50 Eclampsia coror	nary arteries
	r cardiovascular disease, including CHF, omegaly, cardiac hypertrophy, cardiac
HT TO THE TOTAL TO THE TOTAL CONTROL OF THE TOTAL	sis, nonacute myocarditis/NOS
	onary conditions (excludes ARDS-Adult
	ratory distress syndrome)
	nic lund dicease
□ 82 Hematologic □ 91.3 Asthr	nic lung disease
	c fibrosis
	c fibrosis ma
□ 82.1 Sickle cell anemia □ 91.9 Other	c fibrosis

	92.1	Epilepsy/seizure disorder
	92.9	Other neurologic diseases/NOS
	93	Renal disease
	93.1	Chronic renal failure/End-stage renal disease (ESRD)
	93.9	Other renal disease/NOS
	95	Cerebrovascular accident (hemorrhage thrombosis/aneurysm/ malformation)
_	00	not secondary to hypertensive disease
	96	Metabolic/endocrine
	96.1	Obesity
	96.2	Diabetes mellitus
	96.9	Other metabolic/endocrine disorders
	97	Gastrointestinal disorders
	97.1	Crohn's disease/ulcerative colitis
	97.2	Liver disease/failure/transplant
	97.9	Other gastrointestinal diseases/NOS
	100	Mental health conditions
	100.1	Depression
	100 9	Other psychiatric conditions/NOS

☐ 999 Unknown COD





### Page 4: Reference



#### CONTRIBUTING FACTOR DESCRIPTIONS

#### **DELAY OR FAILURE TO SEEK CARE**

The woman was delayed in seeking or did not access care, treatment, or follow-up care/actions (e.g. missed appointment and did not reschedule).

#### ADHERENCE TO MEDICAL RECOMMENDATIONS

The woman did not accept medical advice (e.g. refused treatment for religious or other reasons or left the hospital against medical advice).

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

The woman 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).

#### CULTURAL/RELIGIOUS, OR LANGUAGE FACTORS

Demonstration 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).

#### **ENVIRONMENTAL FACTORS**

Factors related to weather or terrain (e.g. the advent of a sudden storm leads to a motor vehicle accident).

#### VIOLENCE AND INTIMATE PARTNER VIOLENCE (IPV)

Physical or emotional abuse other than that perpetrated by intimate partner (e.g. family member or stranger); IPV: Physical or emotional abuse perpetrated by the woman's current or former intimate partner.

#### MENTAL HEALTH CONDITIONS

The woman carried a diagnosis of a psychiatric disorder. This includes postpartum depression.

#### 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 a woman's health status (e.g. acute methamphetamine intoxication exacerbated pregnancy-induced

hypertension, or woman was more vulnerable to infections or medical conditions).

#### TOBACCO USE

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

#### CHRONIC DISEASE

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

#### CHILDHOOD SEXUAL ABUSE/TRAUMA

Woman experienced rape, molestation, or other sexual exploitation during childhood plus persuasion, inducement, or coercion of a child to engage in sexually explicit conduct; or woman experienced physical or emotional abuse or violence other than that related to sexual abuse during childhood.

#### LACK OF ACCESS/FINANCIAL RESOURCES

System issues, e.g. lack or loss of healthcare insurance or other financial duress, as opposed to woman's noncompliance impacted woman's ability to care for herself (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 woman's geographical area, and lack of public transportation.

#### UNSTABLE HOUSING

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

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

Social support from family, partner, or friends was lacking, inadequate, and/or dysfunctional (e.g. domestic violence, no one to rely on to ensure appointments were kept).

#### INADEQUATE OR UNAVAILABLE EQUIPMENT/ TECHNOLOGY

Equipment was missing, unavailable, or not functional, (e.g. absence of blood tubing connector).

#### 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). 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

Care providers did not have access to woman's complete records or did not communicate woman's status sufficiently. Lack of continuity can be between prenatal, labor and delivery, and postpartum providers.

#### CLINICAL SKILL/QUALITY OF CARE

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

#### INADEQUATE COMMUNITY OUTREACH/RESOURCES

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

#### INADEQUATE LAW ENFORCEMENT RESPONSE

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

#### LACK OF REFERRAL OR CONSULTATION

Specialists were not consulted or did not pr referrals to specialists were not

#### FAILURE TO SCREEN/INA RISK

Factors placing the wor recognized, and the w a provider able to give

#### LEGAL

Legal considerations th

Tip: laminate a copy for everyone



### Page 1: The Basics



REVIEW DATE R	ECORD ID #	COMMITTEE DETER	RMINATION OF CAUSE(S) OF DEATH
9   10   2016	FL-2009-3230	ТҮРЕ	CAUSE (DESCRIPTIVE)
PREGNANCY-RELATEDNESS: SEL	ECT ONE	IMMEDIATE	
■ PREGNANCY-RELATED		CONTRIBUTING	
end of pregnancy from a pre	g pregnancy or within one year of the gnancy complication, a chain of events e aggravation of an unrelated condition	UNDERLYING	Peripartum Cardiomyopathy
by the physiologic effects of PREGNANCY-ASSOCIATE	pregnancy	OTHER SIGNIFICANT	
end of pregnancy from a cau	g pregnancy or within one year of the use that is not related to pregnancy  IF PREGNANCY-RELATED OR  D, BUT NOT -RELATED	Refer to page 3 for PMSS-MM	OMMITTEE DETERMINATION OF UNDERLYING CAUSE OF DEATH cause of death list. If more than one is selected, list in order of most compelling (1-2; no more than 2 may be selected in the system).
NOT PREGNANCY-RELATED OR -ASSOCIATED  (i.e. false positive, woman was not pregnant within one year of her		80.1 Postpartum/peripartu	m cardiomyopathy
death)	as not pregnant within one year of her	DID OBESITY CONTRIBUTE T	O THE DEATH? YES • PROBABLY NO UNKNOWN
	EVANT INFORMATION (RECORDS)	CONTRIBUTE TO THE DEATH	I YES I PROBABLY INO I INKNOWN
VAILABLE FOR THIS CASE:		DID SUBSTANCE USE DISOR CONTRIBUTE TO THE DEATH?	I YES I PROBABLY I NO I UNKNOWN
COMPLETE All records necessary for	<ul> <li>SOMEWHAT COMPLETE</li> <li>Major gaps (i.e. information</li> </ul>	WAS THIS DEATH A SUICIDE	PROBABLY ■ NO UNKNOWN
adequate review of the case were available		WAS THIS DEATH A HOMICID	PE? ■ YES ■ PROBABLY ■ NO ■ UNKNOWN
MOSTLY COMPLETE Minor gaps (i.e. information that would have been beneficial but was not essential to the review of the case)	■ NOT COMPLETE  Minimal records available for review (i.e. death certificate and no additional records)  ■ N/A	IF HOMICIDE, SUICIDE, OR ACCIDENTAL DEATH, LIST THE MEANS OF FATAL INJURY	FIREARM FALL INTENTIONAL NEGLECT KICKING/BEATING OTHER, SPECIFY:  POISONING/ EXPLOSIVE OVERDOSE DROWNING UNKNOWN NOT APPLICABLE STRANGULATION/ SUFFOCATION
DES THE COMMITTEE AGREE W NDERLYING CAUSE OF DEATH I N DEATH CERTIFICATE?	E VEO	IF HOMICIDE, WHAT WAS THE RELATIONSHIP OF	NO RELATIONSHIP OTHER UNKNOWN PARTNER ACQUAINTANCE NOT APPLICABLE OTHER, SPECIFY:





REVIEW DATE	RECORD ID #	COMMITTEE DETER	MINATION OF CAUSE(S) OF DEATH
9   10   2016	FL-2009-3230	ТҮРЕ	CAUSE (DESCRIPTIVE)
PREGNANCY-RELATEDNESS:	SELECT ONE	IMMEDIATE	
<ul> <li>PREGNANCY-RELATE</li> </ul>	D	CONTRIBUTING	
end of pregnancy from a	during pregnancy or within one year of the a pregnancy complication, a chain of events or the aggravation of an unrelated condition	UNDERLYING	Peripartum Cardiomyopathy
by the physiologic effect		OTHER SIGNIFICANT	
end of pregnancy from a	during pregnancy or within one year of the a cause that is not related to pregnancy	Refer to page 3 for PMSS-MM c	OMMITTEE DETERMINATION OF UNDERLYING CAUSE OF DEATH ause of death list. If more than one is selected, list in order of most compelling (1-2; no more than 2 may be selected in the system).
NOT PREGNANCY-RE	ATED, BUT NOT -RELATED  LATED OR -ASSOCIATED	80.1 Postpartum/peripartun	n cardiomyopathy
(i.e. false positive, woma death)	an was not pregnant within one year of her	DID OBESITY CONTRIBUTE TO	THE DEATH? YES PROBABLY NO UNKNOWN
ESTIMATE THE DEGREE OF I	RELEVANT INFORMATION (RECORDS)	DID MENTAL HEALTH CONDITIONS CONTRIBUTE TO THE DEATH?	I YES I PROBABLY INO I UNKNOWN
AVAILABLE FOR THIS CASE:		DID SUBSTANCE USE DISORT CONTRIBUTE TO THE DEATH?	
COMPLETE	SOMEWHAT COMPLETE	WAS THIS DEATH A SUICIDE?	YES PROBABLY NO UNKNOWN
All records necessary fo adequate review of the were available		WAS THIS DEATH A HOMICIDE	e?
MOSTLY COMPLETE  Minor gaps (i.e. informat that would have been beneficial but was not essential to the review of the case)	review (i.e. death certificate and no additional records)	IF HOMICIDE, SUICIDE, OR ACCIDENTAL DEATH, LIST THE MEANS OF FATAL INJURY	FIREARM FALL INTENTIONAL NEGLECT KICKING/BEATING OTHER, SPECIFY:  POISONING/ EXPLOSIVE OVERDOSE DROWNING UNKNOWN HANGING/ STRANGULATION/ SUFFOCATION MOTOR VEHICLE
DOES THE COMMITTEE AGRI UNDERLYING CAUSE OF DEA ON DEATH CERTIFICATE?		IF HOMICIDE, WHAT WAS THE RELATIONSHIP OF THE PERPETRATOR TO	■ NO RELATIONSHIP ■ OTHER ■ UNKNOWN ■ PARTNER ■ ACQUAINTANCE ■ NOT APPLICABLE ■ EX-PARTNER ■ OTHER, SPECIFY:



### **Pregnancy-Relatedness**



PREGNANCY-RELATED

The death of a woman 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

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

UNABLE TO DETERMINE IF PREGNANCY-RELATED OR PREGNANCY-ASSOCIATED, BUT NOT -RELATED

NOT PREGNANCY-RELATED OR -ASSOCIATED (i.e. false positive, woman was not pregnant within one year of her death)

#### 2014 **Pregnancy-associated death:** The death of a woman while pregnant or anytime within one year of pregnancy regardless of cause. Pregnancyassociated, but not pregnancy-Pregnancyrelated death: related death: The death of a woman The death of a while pregnant or within woman while one year of pregnancy, pregnant or within due to a cause unrelated one year of to pregnancy. pregnancy from any cause related to or aggravated by the pregnancy Could not determine: or management. The death of a woman excluding accidental while pregnant or within or incidental causes. one year of pregnancy. due to a cause that could not be determined to be pregnancy-related or not pregnancy-related.





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by the physiologic effect  PREGNANCY-ASSOCIA	s of pregnancy ATED, BUT NOT -RELATED	OTHER SIGNIFICANT	
end of pregnancy from a  UNABLE TO DETERM	uring pregnancy or within one year of the cause that is not related to pregnancy	Refer to page 3 for PMSS-MM c	DMMITTEE DETERMINATION OF UNDERLYING CAUSE OF DEATH ause of death list. If more than one is selected, list in order of most compelling (1-2; no more than 2 may be selected in the system).
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(i.e. false positive, woma death)	n was not pregnant within one year of her	DID OBESITY CONTRIBUTE TO	THE DEATH? YES PROBABLY NO UNKNOWN
ESTIMATE THE DEGREE OF F	RELEVANT INFORMATION (RECORDS)	DID MENTAL HEALTH CONDICONTRIBUTE TO THE DEATH?	I YES I PROBABLY I NO I UNKNOWN
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# MMRIA Completeness of Records REVIEW DACTION

#### Why?

Aggregate at end of year(s) of review; consider whether you need better access to records and use this data to communicate that to relevant stakeholders

ESTIMATE THE DEGREE OF RELEVANT INFORMATION (RECORDS) AVAILABLE FOR THIS CASE:

#### COMPLETE

All records necessary for adequate review of the case were available

#### MOSTLY COMPLETE

Minor gaps (i.e. information that would have been beneficial but was not essential to the review of the case)

#### SOMEWHAT COMPLETE

Major gaps (i.e. information that would have been crucial to the review of the case)

#### NOT COMPLETE

Minimal records available for review (i.e. death certificate and no additional records)

#### N/A





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end of pregnancy from a  UNABLE TO DETERMI	uring pregnancy or within one year of the cause that is not related to pregnancy  NE IF PREGNANCY-RELATED OR	Refer to page 3 for PMSS-MM c	DMMITTEE DETERMINATION OF UNDERLYING CAUSE OF DEATH cause of death list. If more than one is selected, list in order of most compelling (1-2; no more than 2 may be selected in the system).
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DOES THE COMMITTEE AGRE UNDERLYING CAUSE OF DEA' ON DEATH CERTIFICATE?		IF HOMICIDE, WHAT WAS THE RELATIONSHIP OF	NO RELATIONSHIP OTHER UNKNOWN PARTNER ACQUAINTANCE NOT APPLICABLE OTHER, SPECIFY:



### Agree with DC?









REVIEW DATE	RECORD ID #	COMMITTEE DETER	MINATION OF CAUSE(S) OF DEATH
9   10   2016	FL-2009-3230	ТҮРЕ	CAUSE (DESCRIPTIVE)
PREGNANCY-RELATEDNESS: S	SELECT ONE	IMMEDIATE	
■ PREGNANCY-RELATED		CONTRIBUTING	
end of pregnancy from a	ring pregnancy or within one year of the pregnancy complication, a chain of events the aggravation of an unrelated condition	UNDERLYING	Peripartum Cardiomyopathy
by the physiologic effects  PREGNANCY-ASSOCIA		OTHER SIGNIFICANT	
The death of a woman during pregnancy or within one year of the end of pregnancy from a cause that is not related to pregnancy  UNABLE TO DETERMINE IF PREGNANCY-RELATED OR PREGNANCY-ASSOCIATED, BUT NOT -RELATED		Refer to page 3 for PMSS-MM c	DMMITTEE DETERMINATION OF UNDERLYING CAUSE OF DEATH cause of death list. If more than one is selected, list in order of most compelling (1-2; no more than 2 may be selected in the system).
	was not pregnant within one year of her		TARE TRANSPORTED TO THE PROPERTY OF THE PROPER
death)		DID OBESITY CONTRIBUTE TO	TIONS
ESTIMATE THE DEGREE OF RE AVAILABLE FOR THIS CASE:	ELEVANT INFORMATION (RECORDS)	CONTRIBUTE TO THE DEATH?	YES PROBABLY NO UNKNOWN
		CONTRIBUTE TO THE DEATH?	
COMPLETE  All records necessary for	<ul> <li>SOMEWHAT COMPLETE         Major gaps (i.e. information     </li> </ul>	WAS THIS DEATH A SUICIDE?	YES PROBABLY NO UNKNOWN
adequate review of the ca were available	that would have been crucial to the review of the case)	WAS THIS DEATH A HOMICIDE	E? ■ YES ■ PROBABLY ■ NO ■ UNKNOWN
MOSTLY COMPLETE  Minor gaps (i.e. informatio that would have been beneficial but was not essential to the review of the case)	MINIT COMPLETE  Minimal records available for review (i.e. death certificate and no additional records)  N/A	IF HOMICIDE, SUICIDE, OR ACCIDENTAL DEATH, LIST THE MEANS OF FATAL INJURY	FIREARM FALL INTENTIONAL NEGLECT SHARP INSTRUMENT PUNCHING/ BLUNT INSTRUMENT KICKING/BEATING OTHER, SPECIFY:  POISONING/ OVERDOSE DROWNING UNKNOWN HANGING/ FIRE OR BURNS STRANGULATION/ SUFFOCATION
DOES THE COMMITTEE AGREE UNDERLYING CAUSE OF DEAT ON DEATH CERTIFICATE?		IF HOMICIDE, WHAT WAS THE RELATIONSHIP OF	NO RELATIONSHIP OTHER UNKNOWN PARTNER ACQUAINTANCE NOT APPLICABLE





MATERNAI	. MORTALITY REVIEW CO	MMITTEE DECISIONS FORM v14		
COMMITTEE DETER	MINATION OF CAUS	E(S) OF DEATH		
ТҮРЕ	CAUSE (DESCRIPTIVE)			
IMMEDIATE				
CONTRIBUTING				
UNDERLYING	Peripartum Cardiomyopathy			
OTHER SIGNIFICANT				
IF PREGNANCY-RELATED, COMMITTEE DETERMINATION OF UNDERLYING CAUSE OF DEATH Refer to page 3 for PMSS-MM cause of death list. If more than one is selected, list in order of importance beginning with the most compelling (1-2; no more than 2 may be selected in the system).				
80.1 Postpartum/peripartum cardiomyopathy				

#### **Underlying Cause of Death**

the disease or injury which <u>initiated</u> the train of events leading directly to death, or the circumstances of the accident or violence which produced the fatal injury





Two ways to capture underlying COD:

1. Free text grid



MATERNAL	MORTALITY REVIEW COMMITTEE DECISIONS FORM v14 1			
COMMITTEE DETERMINATION OF CAUSE(S) OF DEATH				
ТҮРЕ	CAUSE (DESCRIPTIVE)			
IMMEDIATE				
CONTRIBUTING				
UNDERLYING	Peripartum Cardiomyopathy			
OTHER SIGNIFICANT				
IF PREGNANCY-RELATED, COMMITTEE DETERMINATION OF UNDERLYING CAUSE OF DEATH Refer to page 3 for PMSS-MM cause of death list. If more than one is selected, list in order of importance beginning with the most compelling (1-2; no more than 2 may be selected in the system).				

80.1 Postpartum/peripartum cardiomyopathy





Two ways to capture underlying COD:

1. Free text grid

2. PMSS-MM codes

Make sure to assign a PMSS
MM code to every death that

your committee determines to

be pregnancy-related

MATERNAL	_ MORTALITY REVIE	W COMMITTEE DECISIONS FORM v14	1		
COMMITTEE DETERMINATION OF CAUSE(S) OF DEATH					
ТҮРЕ	CAUSE (DESCRIPTIVI	Ε)			
IMMEDIATE					
CONTRIBUTING					
UNDERLYING	Peripartum Cardiomyopath	у			
OTHER SIGNIFICANT					
IF PREGNANCY-RELATED, COMMITTEE DETERMINATION OF UNDERLYING CAUSE OF DEATH Refer to page 3 for PMSS-MM cause of death list. If more than one is selected, list in order of importance beginning with the most compelling (1-2; no more than 2 may be selected in the system).					
80.1 Postpartum/peripartum cardiomyopathy					





#### IF PREGNANCY-RELATED, COMMITTEE DETERMINATION OF UNDERLYING CAUSE OF DEATH\* PMSS-MM

If more than one is selected, please list them in order of importance beginning with the most compelling (1-2; no more than 2 may be selected in the system).

\*PREGNANCY-RELATED DEATH: THE DEATH OF A WOMAN 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.

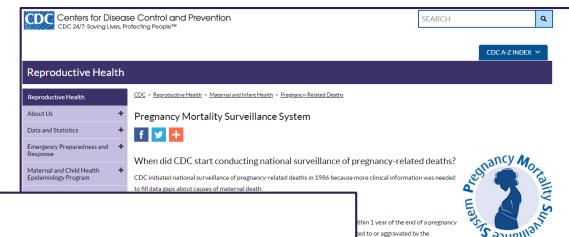
10	Hernorrhage (excludes aneurysms or CVA)	83	Collagen vascular/autoimmune diseases	92.1	Epilepsy/seizure disorder
10.1	Hemorrhage - rupture/laceration/	83.1	Systemic lupus erythematosis (SLE)	92.9	Other neurologic diseases/NOS
	intra-abdominal bleeding	83.9	Other collagen vascular diseases/NOS	93	Renal disease
10.2	Placental abruption	85	Conditions unique to pregnancy (e.g.	93.1	Chronic renal failure/End-stage renal
10.3	Placenta previa		gestational diabetes, hyperemesis, liver		disease (ESRD)
10.4	Ruptured ectopic pregnancy		disease of pregnancy)	93.9	Other renal disease/NOS
10.5	Hemorrhage - uterine atony/ post-partum	88	Injury	95	Cerebrovascular accident (hemorrhage/
	hemorrhage	88.1	Intentional (homicide)		thrombosis/aneurysm/ malformation)
10.6	Placenta accreta/increta/percreta	88.2	Unintentional		not secondary to hypertensive disease
10.7	Hemorrhage due to retained placenta	88.9	Unknown/NOS	96	Metabolic/endocrine
10.8	Hemorrhage due to primary DIC	89	Cancer	96.1	Obesity
10.9	Other hemorrhage/NOS	89.1	Gestational trophoblastic disease (GTN)	96.2	Diabetes mellitus
20	Infection	89.3	Malignant melanoma	96.9	Other metabolic/endocrine disorders
20.1	Post-partum genital tract (e.g. of the uterus/	89.9	Other malignancies/NOS	97	Gastrointestinal disorders
	pelvis/perineum/necrotizing fasciitis)	90	Cardiovascular conditions	97.1	Crohn's disease/ulcerative colitis
20.2	Sepsis/septic shock	90.1	Coronary artery disease/myocardial	97.2	Liver disease/failure/transplant
20.4	Chorioamnionitis/antepartum infection		infarction (MI)/atherosclerotic	97.9	Other gastrointestinal diseases/NOS
20.5	Non-pelvic infections (e.g. pneumonia, TB,		cardiovascular disease	100	Mental health conditions
	meningitis, HIV)	90.2	Pulmonary hypertension	100.1	Depression
20.6	Urinary tract infection	90.3	Valvular heart disease	100.9	Other psychiatric conditions/NOS
20.9	Other infections/NOS	90.4	Vascular aneurysm/dissection	999	Unknown COD
30	Embolism - thrombotic (non-cerebral)	90.5	Hypertensive cardiovascular disease		
30.9	Other embolism/NOS	90.6	Marfan's syndrome		
31	Embolism - amniotic fluid	90.7	Conduction defects/arrhythmias		
40	Pre-eclampsia	90.8	Vascular malformations outside head and		
50	Eclampsia		coronary arteries		
60	Chronic hypertension with superimposed	90.9	Other cardiovascular disease, including CHF,		
	preeclampsia		cardiomegaly, cardiac hypertrophy, cardiac		
70	Anesthesia complications		fibrosis, nonacute myocarditis/NOS		
80	Cardiomyopathy	91	Pulmonary conditions (excludes ARDS-Adult		
80.1	Post-partum/peripartum cardiomyopathy		respiratory distress syndrome)		
80.2	Hypertrophic cardiomyopathy	91.1	Chronic lung disease		
80.9	Other cardiomyopathy/NOS	91.2	Cystic fibrosis		
82	Hematologic	91.3	Asthma		
82.1	Sickle cell anemia	91.9	Other pulmonary disease/NOS		
82.9	Other hematologic conditions including	92	Neurologic/neurovascular conditions		
	thrombophilias/TTP/HUS/NOS		(excluding CVAs)		





### For more info on PMSS history and

process, see:



Current Commentary

# Challenges and Opportunities in Identifying, Reviewing, and Preventing Maternal Deaths

Amy St. Pierre, MBA, Julie Zaharatos, MPH, David Goodman, PhD, and William M. Callaghan, MD, MPH

https://www.cdc.gov/reproductivehealth/maternalinfanthealth/pmss.html https://www.ncbi.nlm.nih.gov/pubmed/29215526





REVIEW DATE	RECORD ID #	COMMITTEE DETERMINATION OF CAUSE(S) OF DEATH			
9   10   2016	FL-2009-3230	ТҮРЕ	CAUSE (DESCRIPTIVE)		
PREGNANCY-RELATEDNESS:	SELECT ONE	IMMEDIATE			
<ul> <li>■ PREGNANCY-RELATED         The death of a woman 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     </li> <li>■ PREGNANCY-ASSOCIATED, BUT NOT -RELATED         The death of a woman during pregnancy or within one year of the end of pregnancy from a cause that is not related to pregnancy     </li> <li>■ UNABLE TO DETERMINE IF PREGNANCY-RELATED OR PREGNANCY-ASSOCIATED, BUT NOT -RELATED</li> <li>■ NOT PREGNANCY-RELATED OR -ASSOCIATED (i.e. false positive, woman was not pregnant within one year of her death)</li> </ul>		CONTRIBUTING			
		UNDERLYING	Peripartum Cardiomyopathy		
		OTHER SIGNIFICANT			
		Refer to page 3 for PMSS-MM c	DMMITTEE DETERMINATION OF UNDERLYING CAUSE OF DEATH ause of death list. If more than one is selected, list in order of most compelling (1-2; no more than 2 may be selected in the system).		
		80.1 Postpartum/peripartun	n cardiomyopathy		
		DID OBESITY CONTRIBUTE TO	THE DEATH? YES PROBABLY NO UNKNOWN		
ESTIMATE THE DEGREE OF	RELEVANT INFORMATION (RECORDS)	DID MENTAL HEALTH CONDICONTRIBUTE TO THE DEATH?	I YES I PROBABLY INO I UNKNOWN		
AVAILABLE FOR THIS CASE:		DID SUBSTANCE USE DISORT CONTRIBUTE TO THE DEATH?			
COMPLETE All records necessary for	SOMEWHAT COMPLETE     Major gaps (i.e. information	WAS THIS DEATH A SUICIDE?	YES PROBABLY NO UNKNOWN		
adequate review of the were available	3 0 1 1	WAS THIS DEATH A HOMICID	E? ■ YES ■ PROBABLY ■ NO ■ UNKNOWN		
MOSTLY COMPLETE Minor gaps (i.e. information that would have been beneficial but was not essential to the review of the case)  NOT COMPLETE Minimal records available for review (i.e. death certificate and no additional records)  N/A	IF HOMICIDE, SUICIDE, OR ACCIDENTAL DEATH, LIST THE MEANS OF FATAL INJURY	FIREARM FALL NEGLECT SHARP INSTRUMENT PUNCHING/ BLUNT INSTRUMENT KICKING/BEATING OTHER, SPECIFY:  POISONING/ OVERDOSE DROWNING UNKNOWN HANGING/ STRANGULATION/ SUFFOCATION MOTOR VEHICLE			
DOES THE COMMITTEE AGR UNDERLYING CAUSE OF DEA ON DEATH CERTIFICATE?		IF HOMICIDE, WHAT WAS THE RELATIONSHIP OF THE PERPETRATOR TO	■ NO RELATIONSHIP ■ OTHER ■ UNKNOWN ■ PARTNER ■ ACQUAINTANCE ■ NOT APPLICABLE ■ EX-PARTNER ■ OTHER, SPECIFY:		



### The "Checkboxes"



#### Why?

- Fill gaps in information.
- Easy identification of deaths where obesity, mental health conditions and substance use **contributed**.
- Easy identification of suicide, homicide and overdose deaths.

DID OBESITY CONTRIBUTE TO	THE DEATH?	YES	<ul><li>PROBABLY</li></ul>	■ NO	UNKNOWN
DID MENTAL HEALTH CONDIT CONTRIBUTE TO THE DEATH?	TIONS	YES	PROBABLY	■ NO	UNKNOWN
DID SUBSTANCE USE DISORD CONTRIBUTE TO THE DEATH?	ER	YES	PROBABLY	• NO	UNKNOWN
WAS THIS DEATH A SUICIDE?		YES	PROBABLY	■ NO	UNKNOWN
WAS THIS DEATH A HOMICIDE	?	YES	PROBABLY	■ NO	UNKNOWN
IF HOMICIDE, SUICIDE, OR ACCIDENTAL DEATH, LIST THE MEANS OF FATAL INJURY	FIREARM SHARP INST BLUNT INST POISONING, OVERDOSE HANGING/ STRANGULA SUFFOCATIO	TRUMENT  /  ATION/	FALL PUNCHING/ KICKING/BEATING EXPLOSIVE DROWNING FIRE OR BURNS MOTOR VEHICLE	□ NE G □ OT □ UN	TENTIONAL EGLECT THER, SPECIFY: IKNOWN OT APPLICABLE
IF HOMICIDE, WHAT WAS THE RELATIONSHIP OF THE PERPETRATOR TO THE DECEDENT?	NO RELATION PARTNER EX-PARTNE	R 🔳	OTHER ACQUAINTANCE OTHER, SPECIFY:	□ NC	IKNOWN OT APPLICABLE



### Page 2: Data for Action



#### 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 DEATH PREVENTABLE?	■ YES	■ NO
CHANCE TO ALTER OUTCOME?	■ GOOD CHANCE	SOME CHANCE
CHANCE TO ALTER OUTCOME?	NO CHANCE	UNABLE TO DETERMINE

#### CONTRIBUTING FACTORS WORKSHEET

What were the factors that contributed to this death? Multiple contributing factors may be present at each level.

CONTRIBUTING FACTOR LEVEL	CONTRIBUTING FACTOR AND DESCRIPTION OF ISSUE
PATIENT/FAMILY	Low health literacy: lack of understanding of diagnosis; Lack of access to health care; Late entry into prenatal care with limited visits (36 weeks/4 visits); Intimate partner violence (restraining order against father of baby); English as a second language (Creole); Obesity
PROVIDER	Quality of care issues; Inadequate risk assessment (cardiac history) leading to lack of care coordination—prenatal/labor and delivery (anesthesiology); Misdiagnosis—emergency department; vital history of cardiomyopathy not obtained; Policies/procedures
FACILITY	Lack continuity care within same hospital at different visits (known chronic health history on previous records, OB not notified (postpartum ER visit); communication (postpartum discharge instructions); use of official translation services
SYSTEM	Communication, Continuity of care; Obstetrics/ cardiology/emergency medicine in postpartum period; Need for patient centered medical home (primary care) in inter-conception period for care coordination including reproductive health planning; Cultural competency:
COMMUNITY	Social support (Referral community resources for woman with history of IPV)

#### 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?

RECOMMENDATIONS OF THE COMMITTEE	LEVEL OF PREVENTION (SEE BELOW)	LEVEL OF IMPACT (SEE BELOW)
Obstetric provider should refer patients with a reported cardiac condition to cardiologist during prenatal care or between pregnancies.	primary	medium
Anesthesiology should evaluate and/or refer patients with reported cardiac conditions who present to Labor and Delivery, if not already done	secondary	small
All providers should utilize official translation services to discuss patient medical conditions, care, education, and follow-up.	secondary	small
OB should document reasons for patient's late entry to prenatal care.	secondary	small
OB should provide referrals to supportive community resources.	secondary	small
L&D nurses should perform postpartum risk screening on women with chronic medical needs in order to form postpartum discharge care plan.	primary	medium
State perinatal quality collaborative (PQC) should educate obstetric providers and ER staff on peripartum cardiomyopathy signs, treatment plans, and available resources	primary	large
State perinatal quality collaborative should consider an education campaign for prenatal care providers regarding resources available to victims of intimate partner violence during pregnancy and the postpartum	secondary	small





COMMITTEE DETERMINATION OF PREVENTABILITY	WAS THIS DEATH PREVENTABLE?	■ YES	■ NO
death is considered preventable if the committee determines that there was t least some chance of the death being averted by one or more reasonable hanges to patient, family, provider facility, system and/or community factors	CHANCE TO ALTER OUTCOME?	GOOD CHANCE	SOME CHANCE

#### CONTRIBUTING FACTORS WORKSHEET

What were the factors that contributed to this death? Multiple contributing factors may be present at each level.

CONTRIBUTING FACTOR LEVEL	CONTRIBUTING FACTOR AND DESCRIPTION OF ISSUE
PATIENT/FAMILY	Low health literacy: lack of understanding of diagnosis; Lack of access to health care; Late entry into prenatal care with limited visits (36 weeks/4 visits); Intimate partner violence (restraining order against father of baby); English as a second language (Creole); Obesity
PROVIDER	Quality of care issues; Inadequate risk assessment (cardiac history) leading to lack of care coordination—prenatal/labor and delivery (anesthesiology); Misdiagnosis—emergency department; vital history of cardiomyopathy not obtained; Policies/procedures
FACILITY	Lack continuity care within same hospital at different visits (known chronic health history on previous records, OB not notified (postpartum ER visit); communication (postpartum discharge instructions); use of official translation services
SYSTEM	Communication, Continuity of care; Obstetrics/ cardiology/emergency medicine in postpartum period; Need for patient centered medical home (primary care) in inter-conception period for care coordination including reproductive health planning; Cultural competency:
COMMUNITY	Social support (Referral community resources for woman with history of IPV)

#### 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?

RECOMMENDATIONS OF THE COMMITTEE	LEVEL OF PREVENTION (SEE BELOW)	LEVEL OF IMPACT (SEE BELOW)
Obstetric provider should refer patients with a reported cardiac condition to cardiologist during prenatal care or between pregnancies.	primary	medium
Anesthesiology should evaluate and/or refer patients with reported cardiac conditions who present to Labor and Delivery, if not already done	secondary	small
All providers should utilize official translation services to discuss patient medical conditions, care, education, and follow-up.	secondary	small
OB should document reasons for patient's late entry to prenatal care.	secondary	small
OB should provide referrals to supportive community resources.	secondary	small
L&D nurses should perform postpartum risk screening on women with chronic medical needs in order to form postpartum discharge care plan.	primary	medium
State perinatal quality collaborative (PQC) should educate obstetric providers and ER staff on peripartum cardiomyopathy signs, treatment plans, and available resources	primary	large
State perinatal quality collaborative should consider an education campaign for prenatal care providers regarding resources available to victims of intimate partner violence during prenancy and the postpartum	secondary	small



### Preventability



COMMITTEE DETERMINATION OF PREVENTABILITY	WAS THIS DEATH PREVENTABLE?	■ YES	NO
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.	CHANCE TO ALTER OUTCOME?	■ GOOD CHANCE	SOME CHANCE UNABLE TO DETERMINE





#### 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 DEATH PREVENTABLE?	■ YES	■ NO
CHANCE TO ALTER OUTCOME?	■ GOOD CHANCE	SOME CHANCE
	NO CHANCE	UNABLE TO DETERMINE

#### CONTRIBUTING FACTORS WORKSHEET

What were the factors that contributed to this death? Multiple contributing factors may be present at each level.

CONTRIBUTING FACTOR LEVEL	CONTRIBUTING FACTOR AND DESCRIPTION OF ISSUE
PATIENT/FAMILY	Low health literacy: lack of understanding of diagnosis; Lack of access to health care; Late entry into prenatal care with limited visits (36 weeks/4 visits); Intimate partner violence (restraining order against father of baby); English as a second language (Creole); Obesity
PROVIDER	Quality of care issues; Inadequate risk assessment (cardiac history) leading to lack of care coordination—prenatal/labor and delivery (anesthesiology); Misdiagnosis—emergency department; vital history of cardiomyopathy not obtained; Policies/procedures
FACILITY	Lack continuity care within same hospital at different visits (known chronic health history on previous records, OB not notified (postpartum ER visit); communication (postpartum discharge instructions); use of official translation services
SYSTEM	Communication, Continuity of care; Obstetrics/ cardiology/emergency medicine in postpartum period; Need for patient centered medical home (primary care) in inter-conception period for care coordination including reproductive health planning; Cultural competency:
COMMUNITY	Social support (Referral community resources for woman with history of IPV)

#### 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?

RECOMMENDATIONS OF THE COMMITTEE	LEVEL OF PREVENTION (SEE BELOW)	LEVEL OF IMPACT (SEE BELOW)	
Obstetric provider should refer patients with a reported cardiac condition to cardiologist during prenatal care or between pregnancies.	primary	medium	
Anesthesiology should evaluate and/or refer patients with reported cardiac conditions who present to Labor and Delivery, if not already done	secondary	small	
All providers should utilize official translation services to discuss patient medical conditions, care, education, and follow-up.	secondary	small	
OB should document reasons for patient's late entry to prenatal care.	secondary	small	
OB should provide referrals to supportive community resources.	secondary	small	
L&D nurses should perform postpartum risk screening on women with chronic medical needs in order to form postpartum discharge care plan.	primary	medium	
State perinatal quality collaborative (PQC) should educate obstetric providers and ER staff on peripartum cardiomyopathy signs, treatment plans, and available resources.	primary	large	
State perinatal quality collaborative should consider an education campaign for prenatal care providers regarding resources available to victims of intimate partner violence during pregnancy and the postpartum	secondary	small	



### **Contributing Factors**



#### CONTRIBUTING FACTORS WORKSHEET

What were the factors that contributed to this death? Multiple contributing factors may be present at each level.

CONTRIBUTING FACTOR LEVEL	CONTRIBUTING FACTOR AND DESCRIPTION OF ISSUE
PATIENT/FAMILY	Low health literacy: lack of understanding of diagnosis; Lack of access to health care; Late entry into prenatal care with limited visits (36 weeks/4 visits); Intimate partner violence (restraining order against father of baby); English as a second language (Creole); Obesity
PROVIDER	Quality of care issues; Inadequate risk assessment (cardiac history) leading to lack of care coordination—prenatal/labor and delivery (anesthesiology); Misdiagnosis—emergency department; vital history of cardiomyopathy not obtained; Policies/procedures
FACILITY	Lack continuity care within same hospital at different visits (known chronic health history on previous records, OB not notified (postpartum ER visit); communication (postpartum discharge instructions); use of official translation services
SYSTEM	Communication, Continuity of care; Obstetrics/ cardiology/emergency medicine in postpartum period; Need for patient centered medical home (primary care) in inter-conception period for care coordination including reproductive health planning; Cultural competency:
COMMUNITY	Social support (Referral community resources for woman with history of IPV)





- Complete and specific contributing factor descriptions
  - Example:

#### CONTRIBUTING FACTORS WORKSHEET

What were the factors that contributed to this death? Multiple contributing factors may be present at each level.

CONTRIBUTING FACTOR LEVEL	CONTRIBUTING FACTOR AND DESCRIPTION OF ISSUE
SYSTEM	-Access/financial: obstetric provider shortage in rural areas.
	-Access/financial: late entry into prenatal care due to delays in pregnancy Medicaid enrollment.





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 DEATH PREVENTABLE?	■ YES	■ N	■ NO		
		onable	CHANCE TO ALTER OUTCOME?	■ GOOD	_	SOME CHANCE UNABLE TO DETERMI	
CONTRIBUTING	G FACTORS WORKSHEET	RECOM	MENDATIONS OF THE COMM	MITTEE			
What were the factors that contributed to this death? Multiple contributing factors may be present at each level.		If there was at least some chance that the death could have been averted, what were the specific an feasible actions that, if implemented or altered, might have changed the course of events?					
CONTRIBUTING FACTOR LEVEL	CONTRIBUTING FACTOR AND DESCRIPTION OF ISSUE	RECOMME	NDATIONS OF THE COMMITTEE		LEVEL OF PREVEN		LEVEL OF IMPACT (SEE BELOW)
Low health literacy: lack of understanding of diagnosis; Lack of access to health care; Late entry into prenatal care with limited visits (36 weeks/4 visits); Intimate partner violence (restraining order against father of baby); English as a second language (Creole); Obesity	Lack of access to health care; Late entry into prenatal	Obstetric provider should refer patients with a reported cardiac condition to cardiologist during prenatal care or between pregnancies.		primary		medium	
	Anesthesiology should evaluate and/or refer patients with reported cardiac conditions who present to Labor and Delivery, if not already done		secondary		small		
Quality of care issues; Inadequate risk assessment (cardiac history) leading to lack of care coordination—prenatal/labor and delivery (anesthesiology); Misdiagnosis—emergency department; vital history of cardiomyopathy not obtained; Policies/procedures  Lack continuity care within same hospital at different visits (known chronic health history on previous records, OB not notified (postpartum ER visit); communication (postpartum discharge	All providers should utilize official translation services to discuss patient medical conditions, care, education, and follow-up.		secondary		small		
	OB should document reasons for patient's late entry to prenatal care.		secondary		small		
	OB should provide referrals to supportive community resources.		secondary		small		
Communication, Continuity of cardiology/emergency medicin SYSTEM Need for patient centered medinter-conception period for cardiology.	instructions); use of official translation services  Communication, Continuity of care; Obstetrics/		should perform postpartum risk screening on wom cal needs in order to form postpartum discharge o		primary		medium
	cardiology/emergency medicine in postpartum period; Need for patient centered medical home (primary care) in inter-conception period for care coordination including reproductive health planning; Cultural competency:	providers and	al quality collaborative (PQC) should educate obs I ER staff on peripartum cardiomyopathy signs, tr ailable resources		primary		large
	Social support (Referral community resources for woman with history of IPV)	campaign for	al quality collaborative should consider an educat prenatal care providers regarding resources avai mate nartner violence during pregnancy and the r	lable to	secondary		small



### Recommendations



#### RECOMMENDATIONS OF THE COMMITTEE

If there was at least some chance that the death could have feasible actions that, if implemented or altered, might have of

#### RECOMMENDATIONS OF THE COMMITTEE

Obstetric provider should refer patients with a reported cardiac condition to cardiologist during prenatal care or between pregnancies.

Anesthesiology should evaluate and/or refer patients with reported cardiac conditions who present to Labor and Delivery, if not already done

All providers should utilize official translation services to discuss patient medical conditions, care, education, and follow-up.

OB should document reasons for patient's late entry to prenatal care.

OB should provide referrals to supportive community resources.

L&D nurses should perform postpartum risk screening on women with chronic medical needs in order to form postpartum discharge care plan.

State perinatal quality collaborative (PQC) should educate obstetric providers and ER staff on peripartum cardiomyopathy signs, treatment plans and available resources

State perinatal quality collaborative should consider an education campaign for prenatal care providers regarding resources available to victims of intimate partner violence during pregnancy and the postpartum.





### Recommendations

- Developed collaboratively with your whole committee
- Align with identified issues and contributing factors





should		
(who?)	(do what?)	(when?)





#### Example 1:

Medicaid should enable all providers to complete a
presumptive eligibility form upon giving a patient notice of
a positive pregnancy test result.





#### Example 1:



Medicaid should enable all providers to complete a
presumptive eligibility form upon giving a patient notice of
a positive pregnancy test result.





#### Example 1:



Medicaid should <u>enable all providers to complete a</u>
 <u>presumptive eligibility form upon giving a patient notice of a positive pregnancy test result.</u>





#### Example 1:

Medicaid should enable all providers to complete a
 presumptive eligibility form upon giving a patient notice of
 a positive pregnancy test result.

when?





### Example 2:

 Prenatal care providers should screen all patients for substance use disorder at their first prenatal visit.





#### Example 2:



 Prenatal care providers should screen all patients for substance use disorder at their first prenatal visit.





#### Example 2:



 Prenatal care providers should <u>screen all patients for</u> <u>substance use disorder</u> at their first prenatal visit.





#### Example 2:

 Prenatal care providers should screen all patients for substance use disorder <u>at their first prenatal visit</u>.





#### 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 DEATH PREVENTABLE?	■ YES	■ NO
CHANCE TO ALTER OUTCOME?	■ GOOD CHANCE	SOME CHANCE
CHANCE TO ALTER OUTCOME?	NO CHANCE	UNABLE TO DETERMINE

#### CONTRIBUTING FACTORS WORKSHEET

What were the factors that contributed to this death? Multiple contributing factors may be present at each level.

CONTRIBUTING FACTOR LEVEL	CONTRIBUTING FACTOR AND DESCRIPTION OF ISSUE			
PATIENT/FAMILY	Low health literacy: lack of understanding of diagnosis; Lack of access to health care; Late entry into prenatal care with limited visits (36 weeks/4 visits); Intimate partner violence (restraining order against father of baby); English as a second language (Creole); Obesity			
PROVIDER	Quality of care issues; Inadequate risk assessment (cardiac history) leading to lack of care coordination—prenatal/labor and delivery (anesthesiology); Misdiagnosis—emergency department; vital history of cardiomyopathy not obtained; Policies/procedures			
FACILITY	Lack continuity care within same hospital at different visits (known chronic health history on previous records, OB not notified (postpartum ER visit); communication (postpartum discharge instructions); use of official translation services			
SYSTEM	Communication, Continuity of care; Obstetrics/ cardiology/emergency medicine in postpartum period; Need for patient centered medical home (primary care) in inter-conception period for care coordination including reproductive health planning; Cultural competency:			
COMMUNITY	Social support (Referral community resources for woman with history of IPV)			

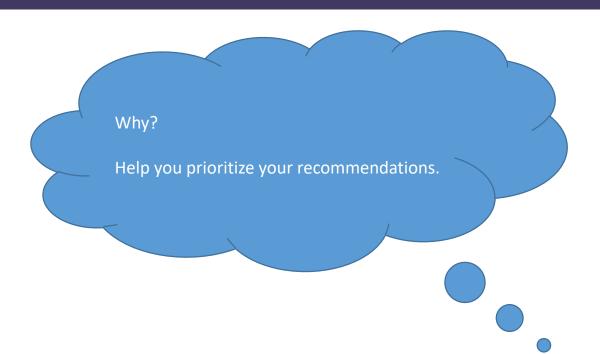
#### RECOMMENDATIONS OF THE COMMITTEE

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?

RECOMMENDATIONS OF THE COMMITTEE	LEVEL OF PREVENTION (SEE BELOW)	LEVEL OF IMPACT (SEE BELOW)		
Obstetric provider should refer patients with a reported cardiac condition to cardiologist during prenatal care or between pregnancies.	primary	medium		
Anesthesiology should evaluate and/or refer patients with reported cardiac conditions who present to Labor and Delivery, if not already done				
All providers should utilize official translation services to discuss patient medical conditions, care, education, and follow-up.	secondary	small		
OB should document reasons for patient's late entry to prenatal care.	uld document reasons for patient's late entry to prenatal care.			
OB should provide referrals to supportive community resources.	secondary	small		
L&D nurses should perform postpartum risk screening on women with chronic medical needs in order to form postpartum discharge care plan.	primary	medium		
State perinatal quality collaborative (PQC) should educate obstetric providers and ER staff on peripartum cardiomyopathy signs, treatment plans, and available resources.	primary	large		
State perinatal quality collaborative should consider an education campaign for prenatal care providers regarding resources available to victims of intimate partner violence during pregnancy and the postpartum	secondary	small		







LEVEL OF PREVENTION (SEE BELOW)	LEVEL OF IMPACT (SEE BELOW)		
primary	medium		
secondary	small		
primary	medium		
primary	large		
secondary	small		





#### PREVENTION LEVEL

- 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 an ongoing contributing factor once it has occurred (i.e. management of complications)

LEVEL OF PREVENTION (SEE BELOW)	LEVEL OF IMPACT (SEE BELOW)	
primary	medium	
secondary	small	
primary	medium	
primary	large	
secondary	small	





#### EXPECTED IMPACT LEVEL

- **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 through obstetrics (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 accessible services)
- GIANT: Address social determinants of health (poverty, inequality, etc.)

LEVEL OF PREVENTION (SEE BELOW)	LEVEL OF IMPACT (SEE BELOW)
primary	medium
secondary	small
primary	medium
primary	large
secondary	small





**Expected Impact** Levels

#### Medium

Clinical intervention and Coordination of Care

#### Large

Long-lasting protective interventions

#### **Extra Large**

Change in context

#### **Giant**

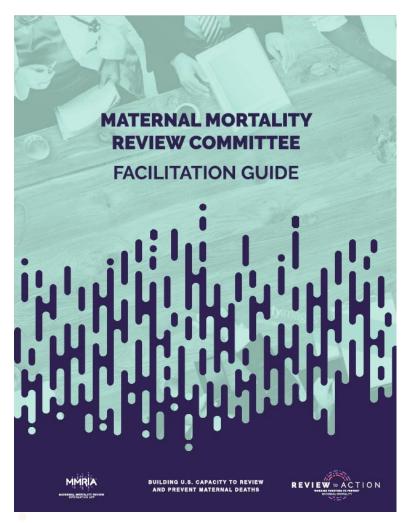
Address Social Determinants of Health

# Tips for Facilitating Decision-Making



## **Support Tools**





http://reviewtoaction.org/content/committee-facilitation-guide



## **Support Tools**





2

Experience a Maternal Mortality Review Committee In Action

http://reviewtoaction.org/mock-panel





# Tips for Facilitating Decision-Making

- Review the authority and protections under which your committee operates
- Review the scope, mission, vision and goals
- Review the case identification process
- Designate a facilitator
- Use a standard process







# Tips for Facilitating Decision-Making

- Provide a summary of previous findings at beginning of each meeting (IL)
- Get everyone on the same page!

Project the form (HI, DE and TN, others?)

- Assign multiple note takers
- Mix up the order of questions as needed

	MATERNAL MORTALITY REVIEW COMMITTEE DECISIONS 1.5.
	MATERNAL MOS
	OMMITTEE DETERMINATION OF CAUSE(S) OF DEATH
	CAUSE (DESCRIPTIVE)
ľ	MEDIATE
	ONTRIBUTING
	NDERLYING
	OTHER SIGNIFICANT  IF PREGNANCY-RELATED, COMMITTEE DETERMINATION OF UNDERLYING CAUSE OF DEATH OF THE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE
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# Tips for Facilitating Decision-Making

- Pregnancy-Relatedness question: "if she had not been pregnant, would she have died?"
- Use the preventability questions to move the conversation to contributing factors and recommendations
- Assign someone to keep time

# Frequently Asked Questions





# Q: What does this third dropdown option for Pregnancy-Relatedness mean?!

UNABLE TO DETERMINE IF PREGNANCY-RELATED OR PREGNANCY-ASSOCIATED, BUT NOT -RELATED

• A: After reviewing all the available information, your MMRC could not determine whether the case was pregnancy-related or not. A better way to say this is "Pregnancy-Associated but Unable to Determine Pregnancy-Relatedness." This edited language will appear in a forthcoming v15 of the form and the next version of MMRIA.





v14

v15

PREGNANCY-RELATEDNESS: SELECT ONE

#### PREGNANCY-RELATED

The death of a woman 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

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

- UNABLE TO DETERMINE IF PREGNANCY-RELATED OR PREGNANCY-ASSOCIATED, BUT NOT -RELATED
- NOT PREGNANCY-RELATED OR -ASSOCIATED

  (i.e. false positive, woman was not pregnant within one year of her death)

PREGNANCY-RELATEDNESS: SELECT ONE

#### PREGNANCY-RELATED

The death of a woman 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

The death of a woman 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
- NOT PREGNANCY-RELATED OR -ASSOCIATED

  (i.e. false positive, woman was not pregnant within one year of her death)



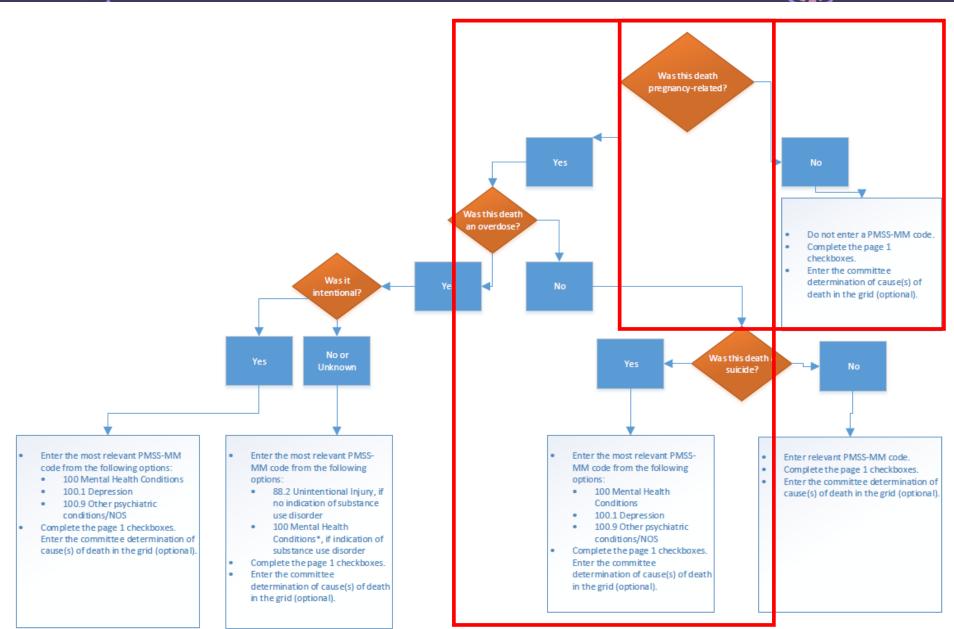


## Q: How do we capture suicides?

- A: It depends.
  - If not pregnancy-related, complete the checkboxes on page 1.
  - If pregnancy-related, complete the checkboxes on page 1 AND assign a PMSS-MM code. Most of these will fall under one of the following PMSS-MM codes:
    - 100 Mental Health Conditions
    - 100.1 Depression
    - 100.9 Other psychiatric conditions/NOS

DID OBESITY CONTRIBUTE TO	THE DEATH?	☐ YES	☐ PROBABLY	□ NO	□ UNKNOWN
DID <b>MENTAL HEALTH CONDIT</b> CONTRIBUTE TO THE DEATH?	IONS	☐ YES	☐ PROBABLY	□ NO	□ UNKNOWN
DID SUBSTANCE USE DISORD CONTRIBUTE TO THE DEATH?	ER	☐ YES	☐ PROBABLY	□ NO	□ UNKNOWN
WAS THIS DEATH A SUICIDE?		☐ YES	☐ PROBABLY	□ NO	□ UNKNOWN
WAS THIS DEATH A HOMICIDE	:?	☐ YES	☐ PROBABLY	□ NO	□ UNKNOWN
IF HOMICIDE, SUICIDE, OR ACCIDENTAL DEATH, LIST THE MEANS OF FATAL INJURY	FIREARM SHARP INST BLUNT INST POISONING/OVERDOSE HANGING/STRANGULA SUFFOCATIO	RUMENT	PUNCHING/ KICKING/BEATING EXPLOSIVE DROWNING FIRE OR BURNS	OT	ENTIONAL GLECT HER, SPECIFY: KNOWN T APPLICABLE
IF HOMICIDE, WHAT WAS THE RELATIONSHIP OF THE PERPETRATOR TO THE DECEDENT?	☐ NO RELATIO ☐ PARTNER ☐ EX-PARTNER ☐ OTHER RELA	, –	OTHER ACQUAINTANCE OTHER, SPECIFY:		KNOWN T APPLICABLE







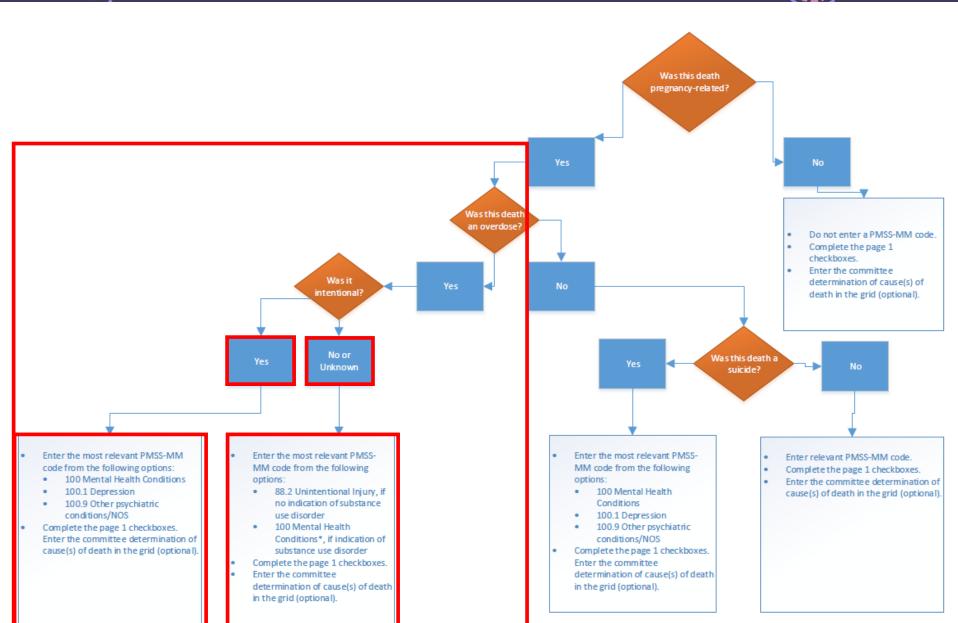


## Q: How do we capture overdoses?

- A: It depends.
  - If not pregnancy-related, complete the checkboxes on page 1.
  - If pregnancy-related, complete the checkboxes on page 1 AND assign a PMSS-MM code using decision tree. Overdoses will fall under one of the following PMSS-MM codes:
    - 100 Mental Health Conditions
    - 100.1 Depression
    - 100.9 Other psychiatric conditions/NOS
    - 88.2 Unintentional Injury

	9				
DID OBESITY CONTRIBUTE TO	THE DEATH?	☐ YES	☐ PROBABLY	□ NO	□ UNKNOWN
DID MENTAL HEALTH CONDITIONS CONTRIBUTE TO THE DEATH?		☐ YES	☐ PROBABLY	□ NO	□ UNKNOWN
DID SUBSTANCE USE DISORT CONTRIBUTE TO THE DEATH?		☐ YES	☐ PROBABLY	□ NO	□ UNKNOWN
WAS THIS DEATH A SUICIDE?		☐ YES	☐ PROBABLY	□ NO	□ UNKNOWN
WAS THIS DEATH A HOMICIDE	E?	☐ YES	☐ PROBABLY	□ NO	□ UNKNOWN
IF HOMICIDE, SUICIDE, OR ACCIDENTAL DEATH, LIST THE MEANS OF FATAL INJURY	FIREARM SHARP INST BLUNT INST POISONING OVERDOSE HANGING STRANGULA SUFFOCATIO	RUMENT C	KICKING/BEATING EXPLOSIVE DROWNING FIRE OR BURNS	OT UN	TENTIONAL GLECT HER, SPECIFY: KNOWN T APPLICABLE
IF HOMICIDE, WHAT WAS THE RELATIONSHIP OF THE PERPETRATOR TO THE DECEDENT?	☐ NO RELATIO ☐ PARTNER ☐ EX-PARTNER ☐ OTHER RELA	₹ □	OTHER ACQUAINTANCE OTHER, SPECIFY:	-	KNOWN T APPLICABLE









# Q: We're a small state; what can we really report on?

- A: Important information!
  - Aggregate over multiple years as needed
  - Descriptive analyses (don't report %'s if denominator < 10)</li>
  - Use Fisher's Exact test when testing for statistical significance
  - Recommendations!





# Q: How can we contribute to a 2019 report?

- A: Start conversations with your committee and other stakeholders now
  - Data use agreement needed?
  - Conversations with Legal team? Leadership? Others?
- Call for data summer 2018





## **Discussion**

# Discussion





## **Upcoming Events**

- ACOG-CDC Maternal Mortality and Maternal Safety Meeting –
   April 29 in Austin, TX
- American College of Nurse Midwives May 22 in Savannah,
   GA
- Call for Data for 2019 Report: summer 2018





Nicole Davis:

dwg4@cdc.gov

Dave Goodman:

dagoodman@cdc.gov

Amy St. Pierre:

astpierre@cdc.gov

Julie Zaharatos:

jzaharatos@cdc.gov