



Child Death Review

- East and West River Teams
- Standardize the process
- Support/Training for the review teams.
- Abstracting of child deaths in 2021
 - Review statewide deaths 0-12 years of age
 - This includes infants post hospitalization
 - Each team will meet three times a year

South Dakota Infant Death Review



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South Dakota Infant Death Review

- **FORMATION:**

- History
- IDR officially formed in 2012
- Began utilization of Child Death Review (CDR) Case Reporting System data collection tool



- **GOALS:**

- To understand why infants die and to act to prevent other deaths
- To utilize the CDR data reporting tool so that data can be reviewed by a state-level advisory group for prevention efforts and to annually review data to make recommendations to help turn tragedies into lessons that can prevent other deaths.



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Infant Death Review PROCESS

CASE NUMBER ____/____/____/____		Case Type: <input type="radio"/> Death <input type="radio"/> Near death/serious injury <input type="radio"/> Not born alive (fetal/stillborn)		Death Certificate Number: _____ Birth Certificate Number: _____ ME/Coroner Number: _____	
State / County or Team Number / Year of Review / Sequence of Review		<input type="checkbox"/> Child never left hospital following birth		Date Team Notified of Death: _____	
A. CHILD INFORMATION					
A1. CHILD INFORMATION (COMPLETE FOR ALL AGES)					
1. Child's name: First: _____		Middle: _____		Last: _____ <input type="checkbox"/> U/K	
2. Date of birth: <input type="checkbox"/> U/K mm / dd / yyyy		3. Date of death: <input type="checkbox"/> U/K mm / dd / yyyy		4. Age: <input type="radio"/> Years <input type="radio"/> Months <input type="radio"/> Days <input type="radio"/> Hours <input type="radio"/> Minutes <input type="radio"/> U/K	
5. Race, check all that apply: <input type="checkbox"/> U/K <input type="checkbox"/> White <input type="checkbox"/> Black <input type="checkbox"/> Asian, specify: _____ <input type="checkbox"/> American Indian, Tribe: _____ <input type="checkbox"/> Alaskan Native, Tribe: _____		6. Hispanic or Latino origin? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> U/K		7. Sex: <input type="radio"/> Male <input type="radio"/> Female <input type="radio"/> U/K	
8. Residence address: <input type="checkbox"/> U/K Street: _____ City: _____ State: _____ Zip: _____ Apt. _____		9. Child's weight at death: <input type="checkbox"/> U/K <input type="radio"/> Pounds/ounces _____ <input type="radio"/> Grams/kilograms _____		10. Child's height at death: <input type="checkbox"/> U/K <input type="radio"/> Feet/inches _____ <input type="radio"/> Cm _____	
11. State of death: _____		12. County of death: _____			
13. Child had disability or chronic illness? If yes, check all that apply: <input type="checkbox"/> Physical/orthopedic, specify: _____ <input type="checkbox"/> Mental health/substance abuse, specify: _____ <input type="checkbox"/> Cognitive/intellectual, specify: _____ <input type="checkbox"/> Sensory, specify: _____ <input type="checkbox"/> U/K		<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> U/K If yes, was child receiving Children's Special Health Care Needs services? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> U/K			
15. Child's health insurance, check all that apply: <input type="checkbox"/> None <input type="checkbox"/> Private <input type="checkbox"/> Medicaid <input type="checkbox"/> State plan		<input type="checkbox"/> Indian Health Service <input type="checkbox"/> Other, specify: _____ <input type="checkbox"/> U/K			
16. Was the child up to date with Academy of Pediatrics					

SAVING LIVES TOGETHER

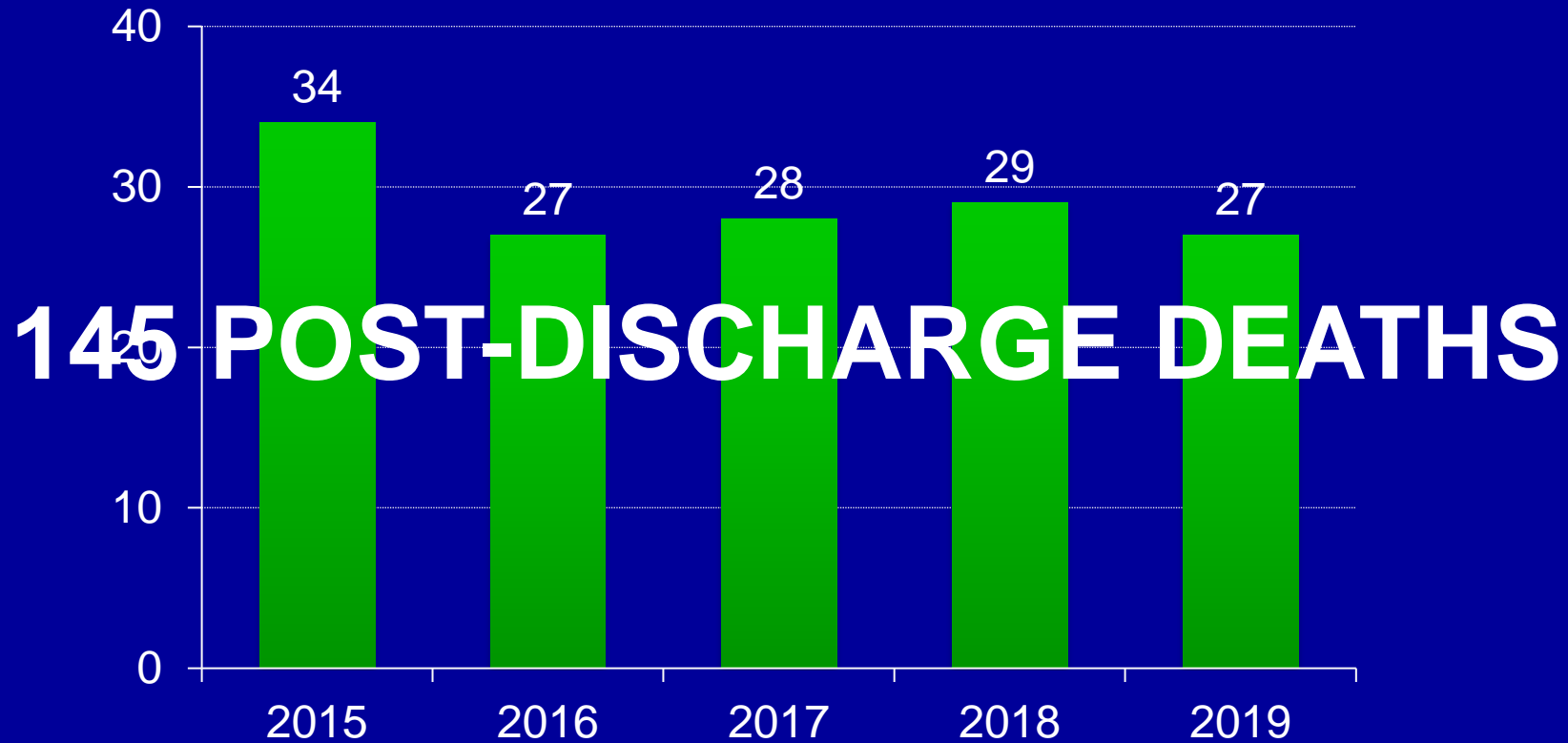
scribe: _____

Principal Data Sources

- Death certificate
- SUID Investigation Reporting Form
- Coroner and medical examiner records
 - Autopsy results
 - Chart review
 - Lab work (toxicology, metabolic, X-rays, etc.)
- Law enforcement reports
- Birth Certificate
- Child Death Review
- Medical record
- EMS/ED records

Infant Death Review Demographics 2015 - 2019

CDR Reviewed Infant Deaths by Year

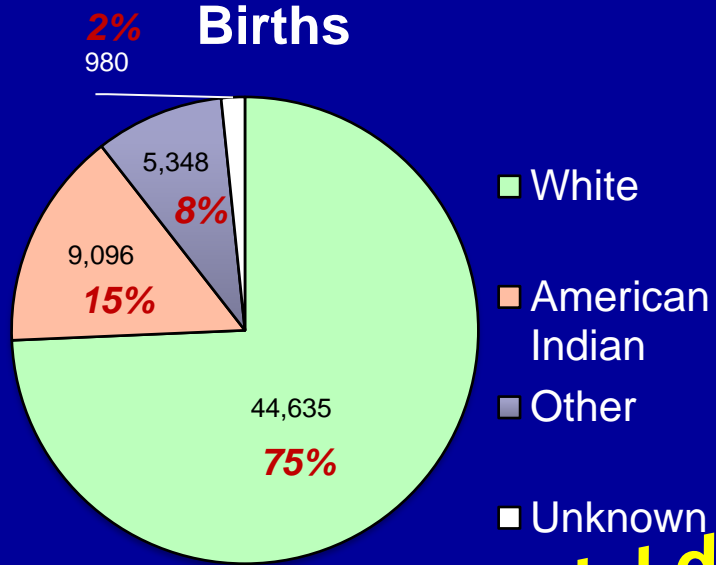


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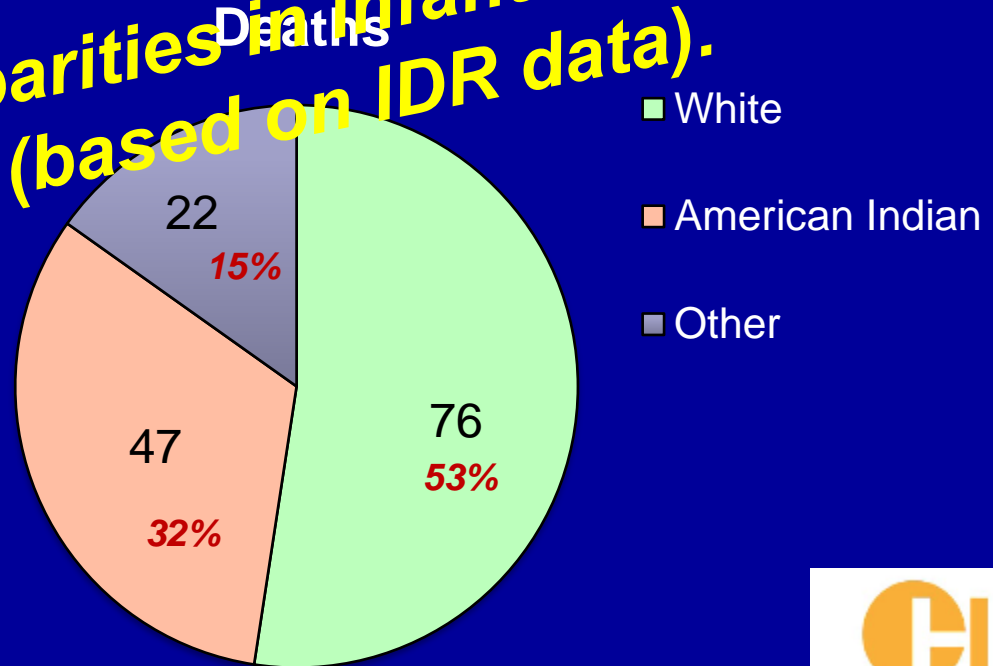


Demographics - Race

2015 - 2019



There are racial disparities in infant deaths post-discharge – (based on IDR data).



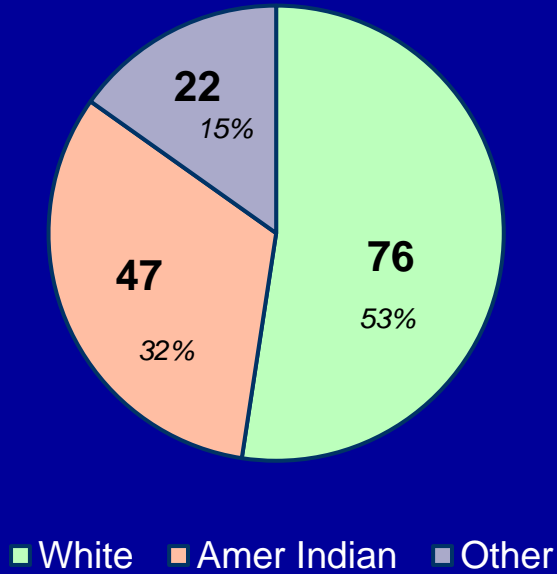
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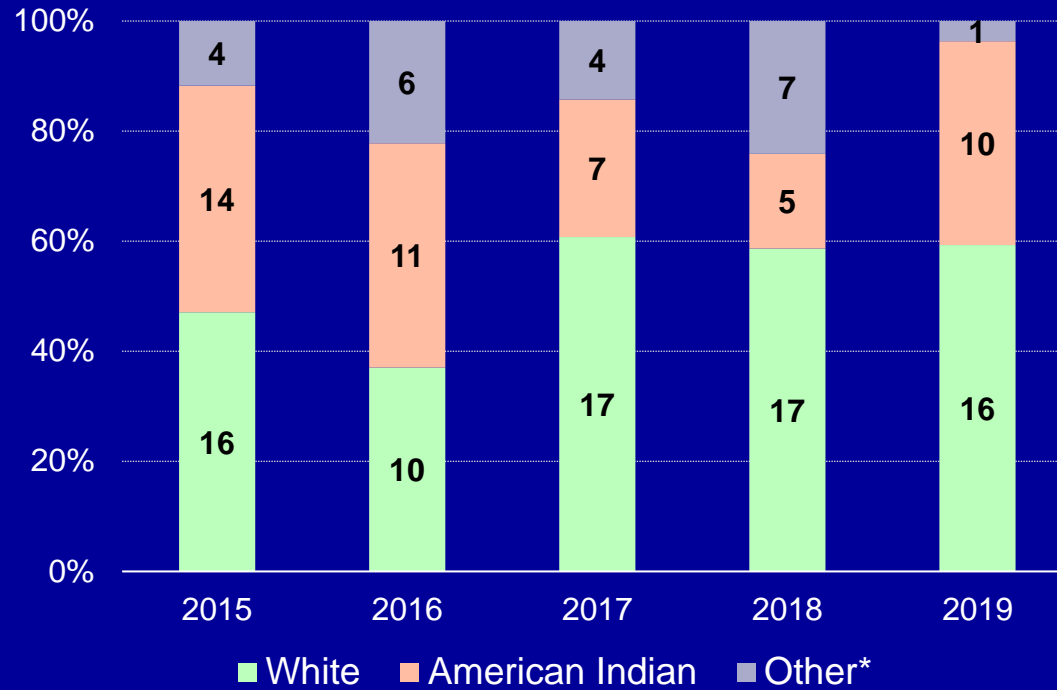
Demographics

2015 - 2019

Deaths by Race



Deaths by Race by Year



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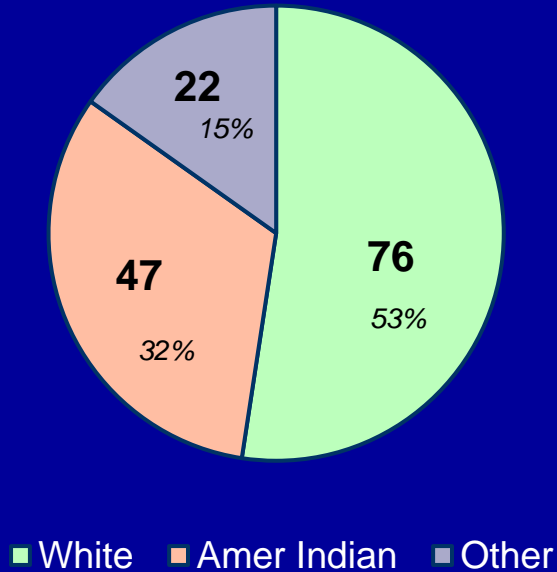
* Includes 17 multiracial



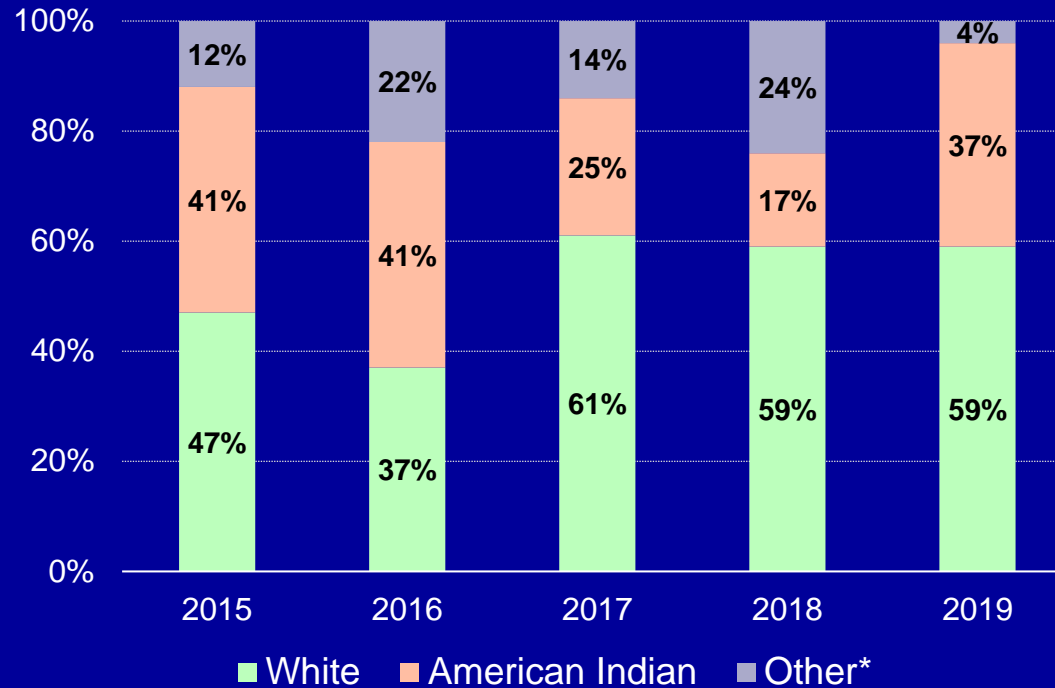
Demographics

2015 - 2019

Deaths by Race



Deaths by Race by Year



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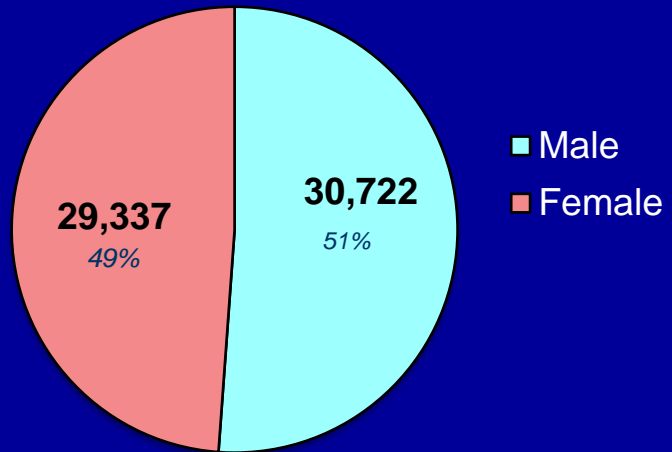
* Includes 20 multiracial



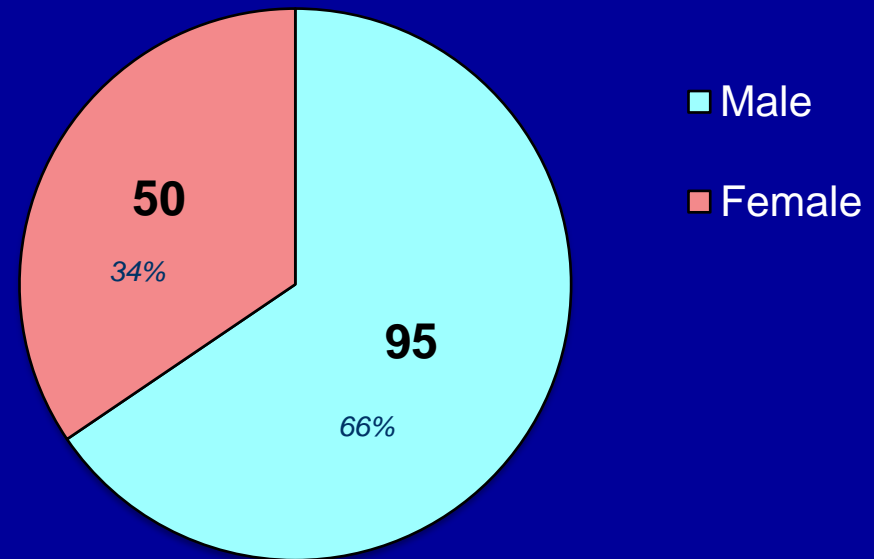
Demographics - Sex

2015 – 2019

Births



IDR Deaths



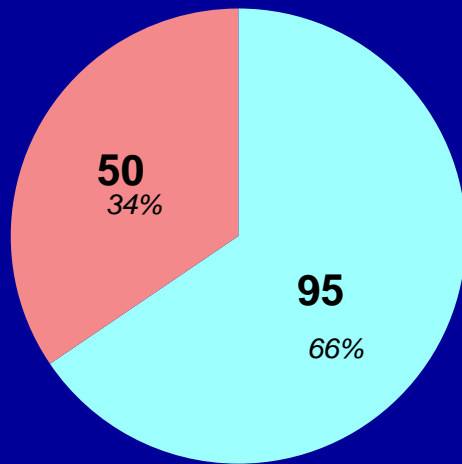
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Demographics

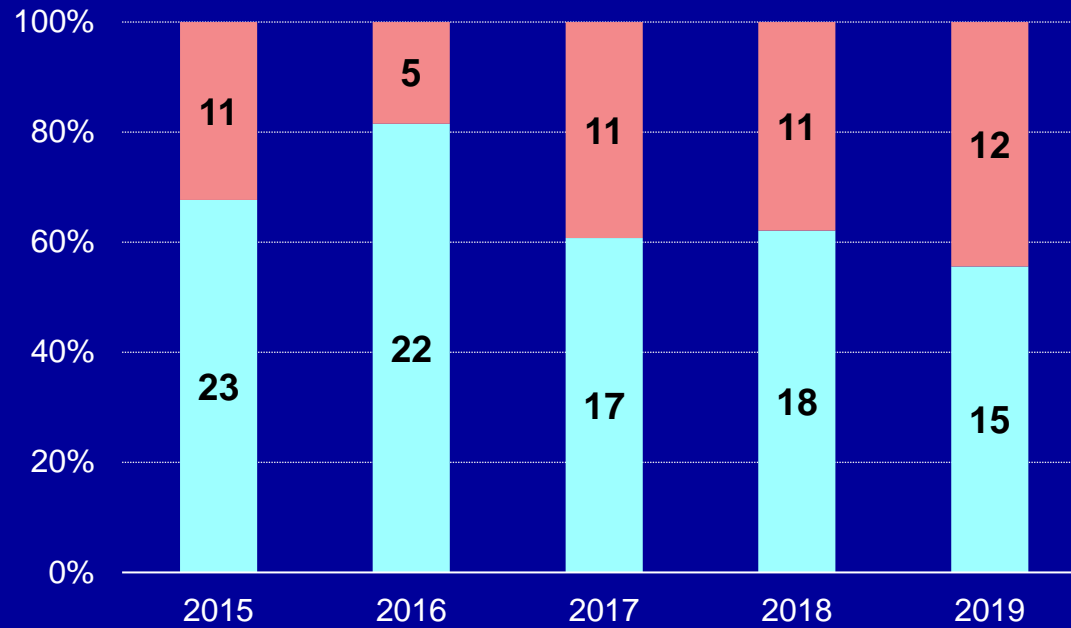
2015 – 2019

Sex of Deceased



■ Male ■ Female

Deaths by Sex by Year



■ Male ■ Female

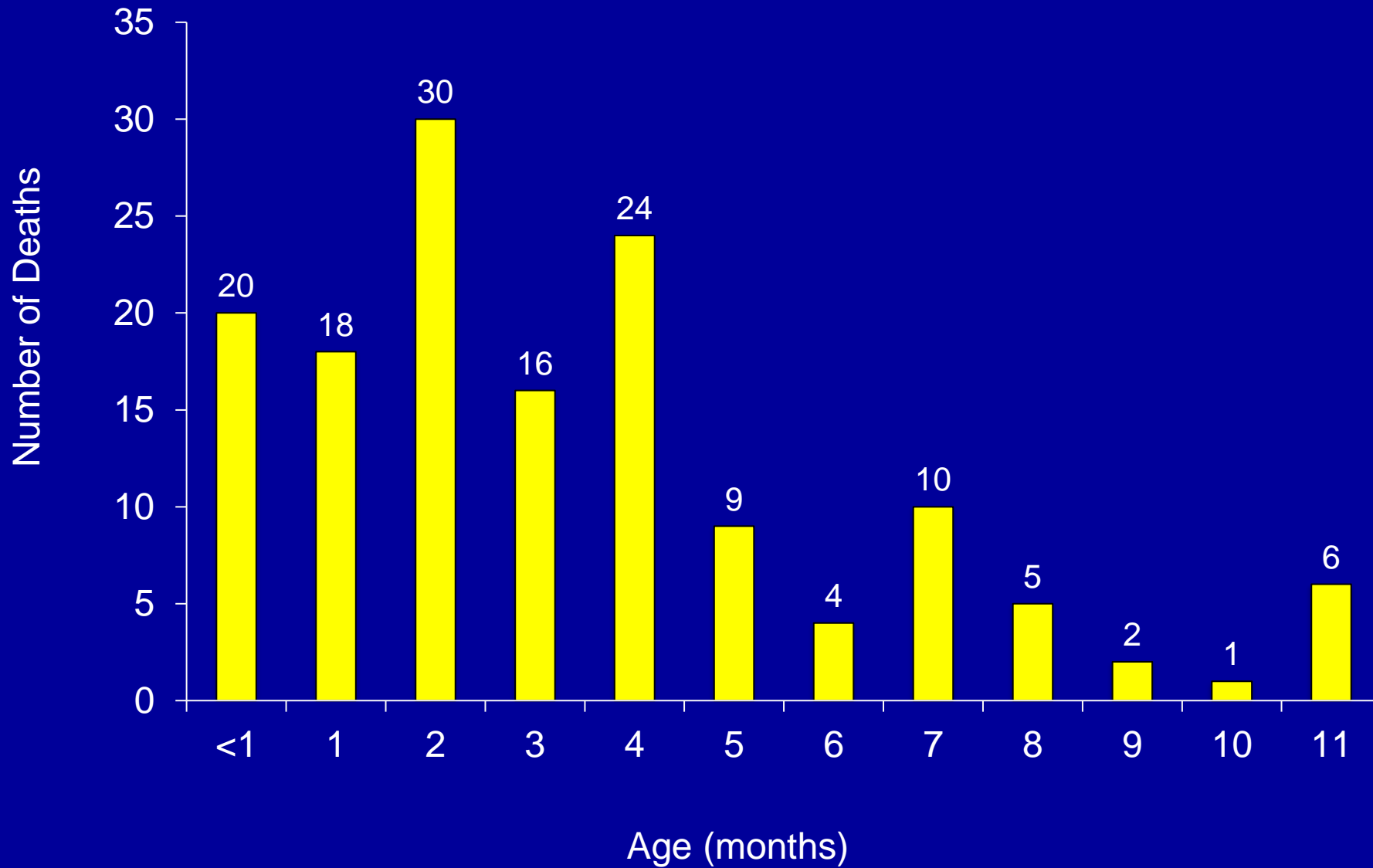


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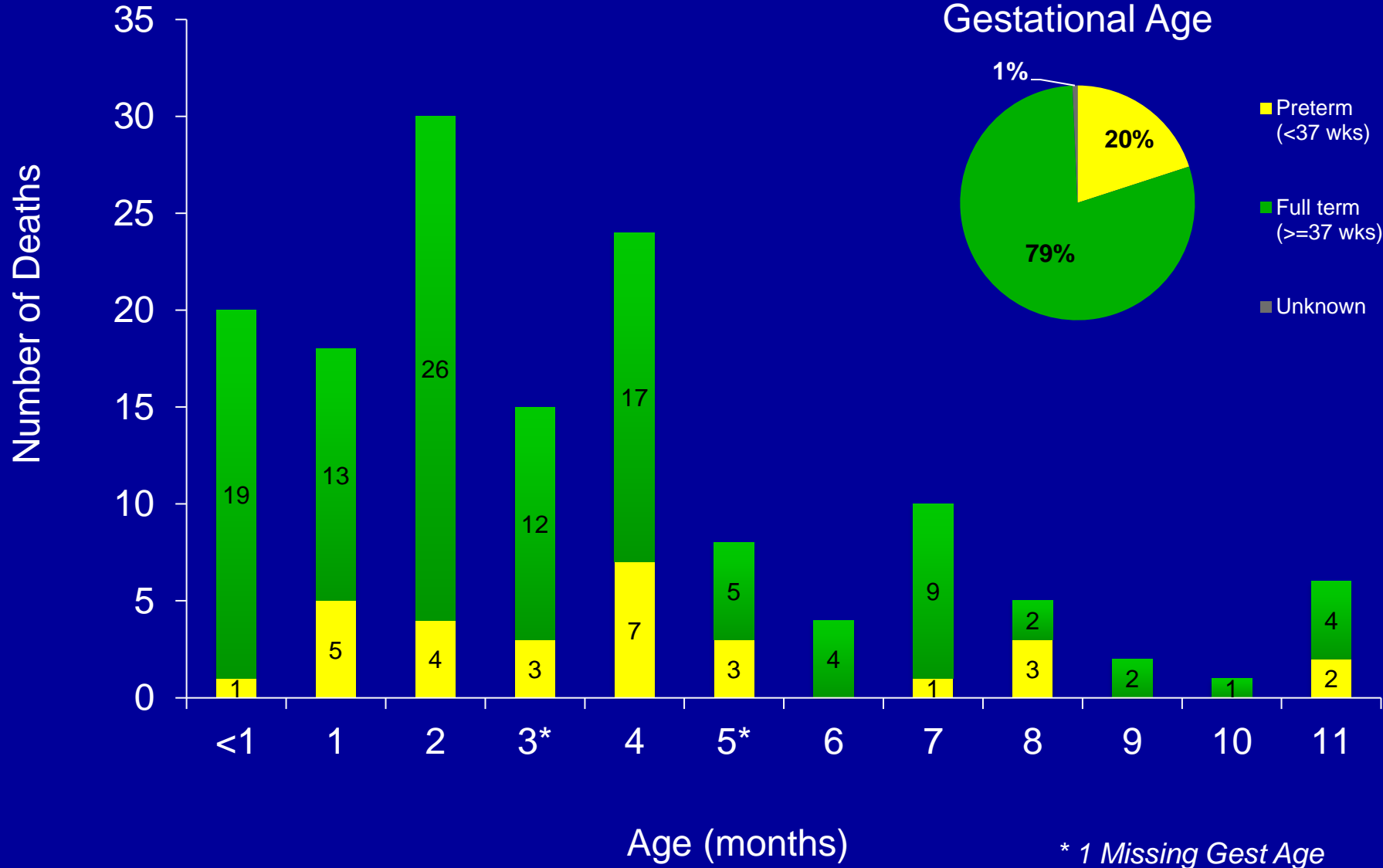
Demographics

2015 - 2019



Demographics

2015 - 2019



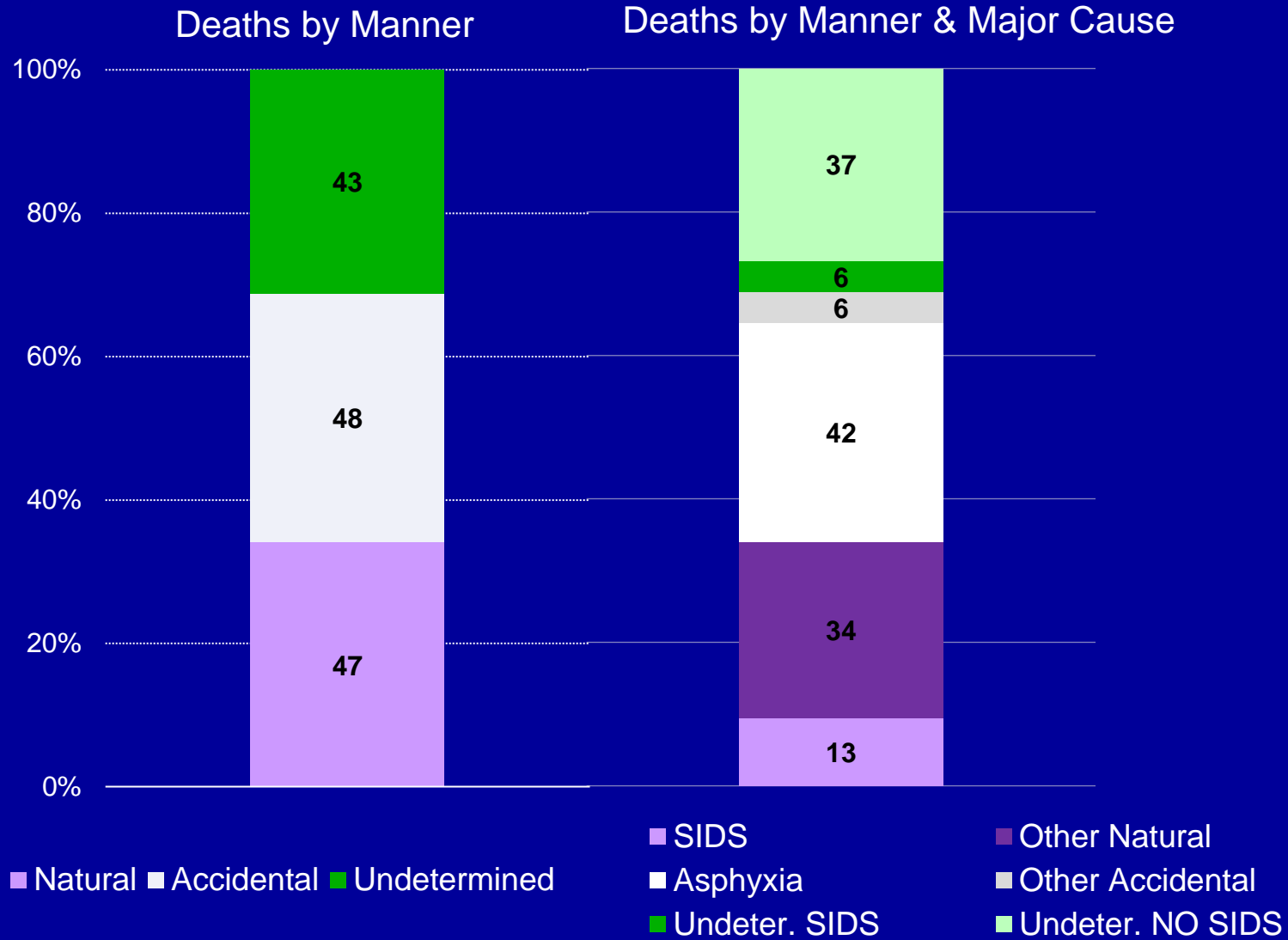
Manner & Cause of Death

2015 - 2019

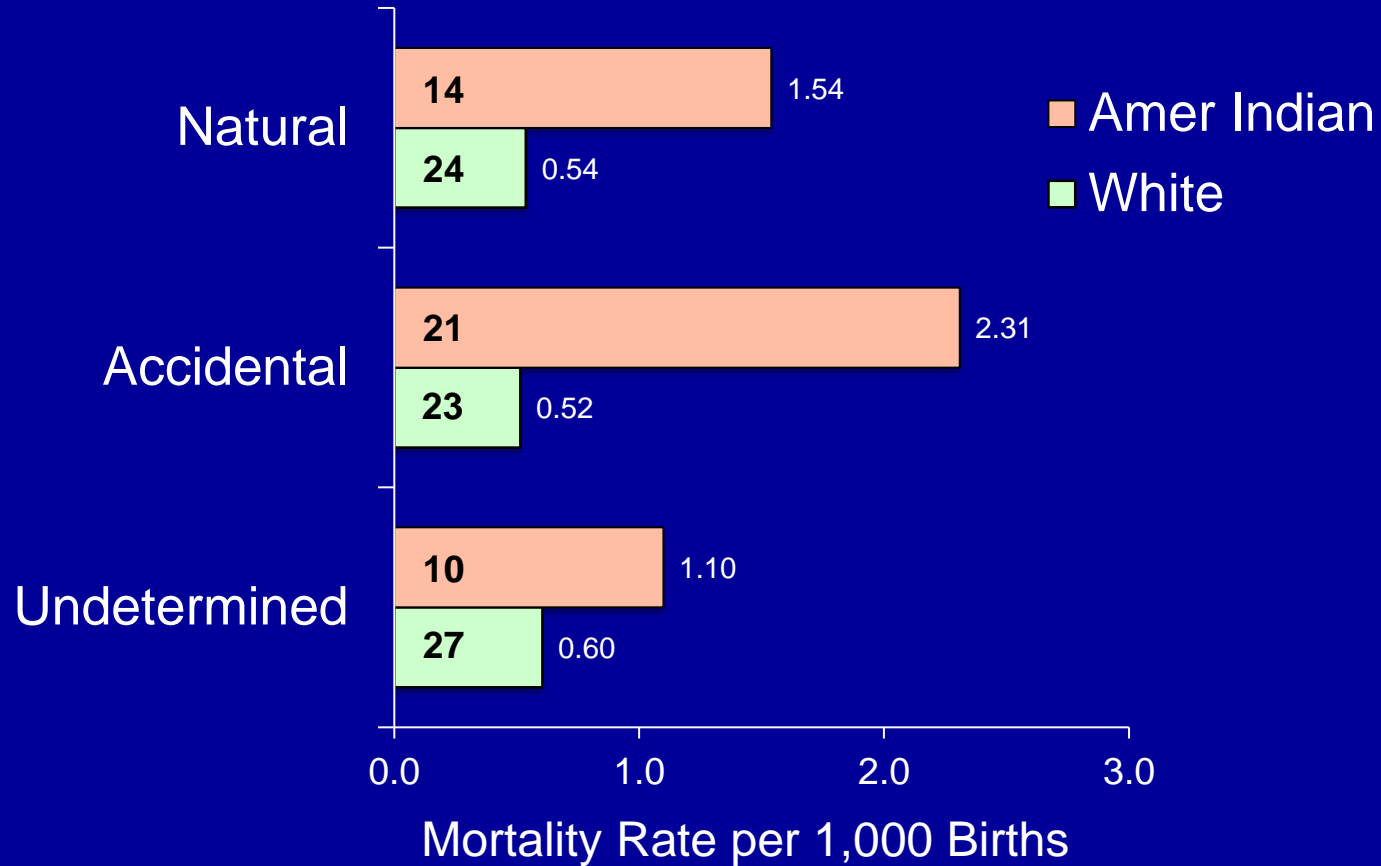
- **Natural (47)**
 - SIDS (13)
 - Congenital anomalies (8)
 - Other medical (6)
 - Other infection (5)
 - Pneumonia (4)
 - Cardiovascular (4)
 - Other perinatal (1)
 - Cancer (1)
 - Influenza (1)
 - Null or Unknown (4)
- **Accidental (48)**
 - Asphyxia (42)
 - Motor vehicle (3)
 - Drowning (1)
 - SIDS (1)
 - UNK (1)
- **Homicide (7)**
 - Weapon (3)
 - External - Other (3)
 - External - Unknown (1)
- **Undetermined (43)**
 - Undetermined (35)
 - SIDS (6)
 - Unknown (2)

Manner & Cause

2015 – 2019



Manner of Death by Race, 2015-2019



*Numbers of deaths are given within the bar.
Includes only deaths among American Indian & White infants; homicides and unknown manner of death are not shown.*

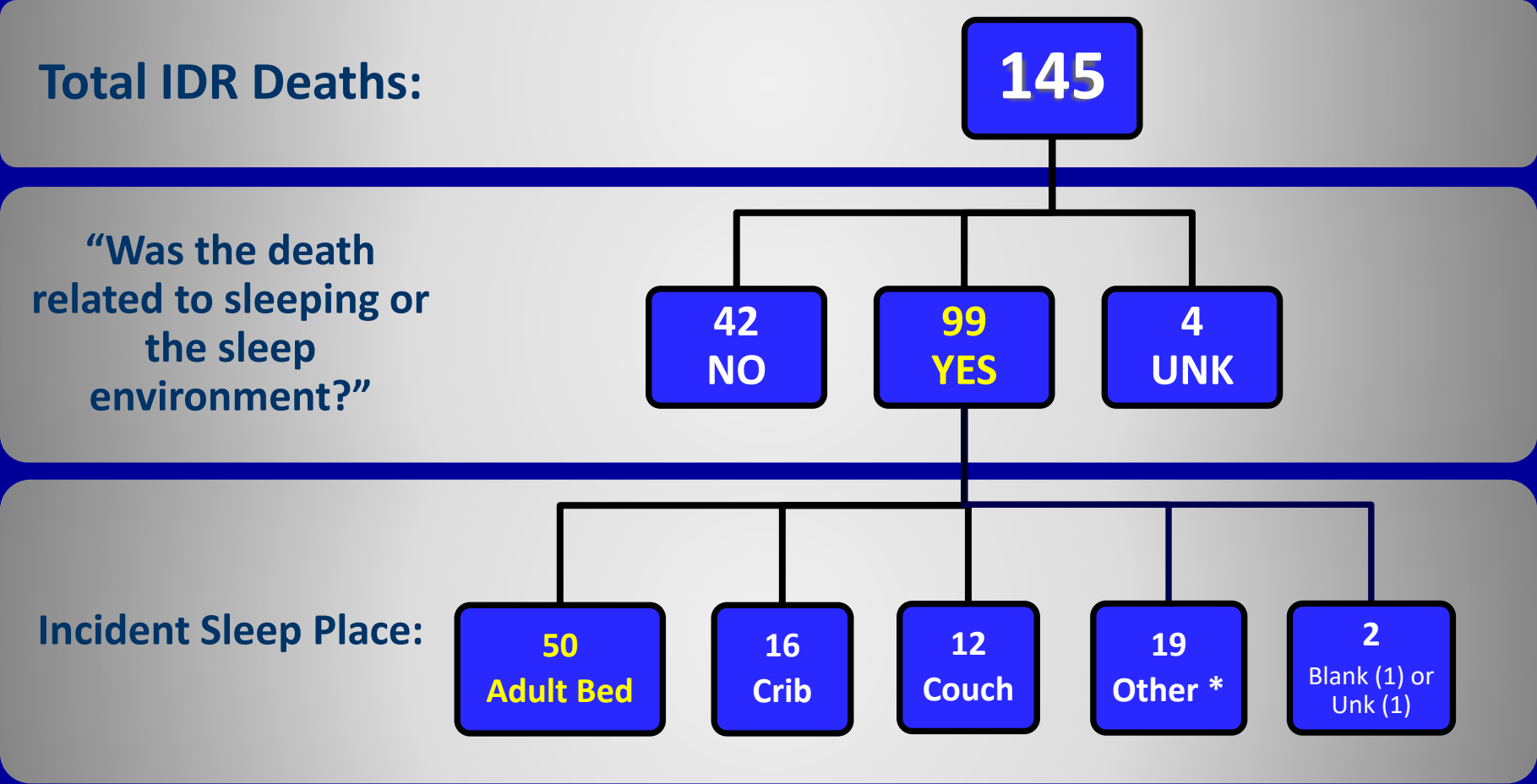


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Deaths Related to Sleep Surface

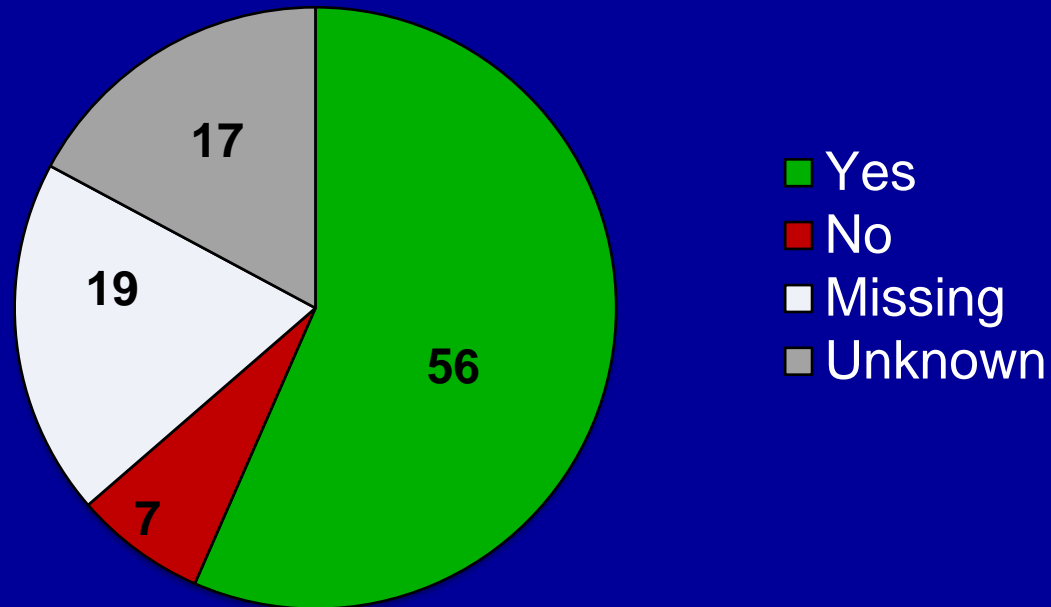
2015 - 2019



* Other includes floor (6), car seat (4), bassinet (4), Rock ‘N Play (2), Changing mat wedge (1), Rocker chair (1), Bouncy chair (1)

Crib Availability for Sleep-related Deaths 2015 - 2019

Was there a crib (*includes Pack 'n Play*),
bassinet, bed side sleeper or baby box
in the home?



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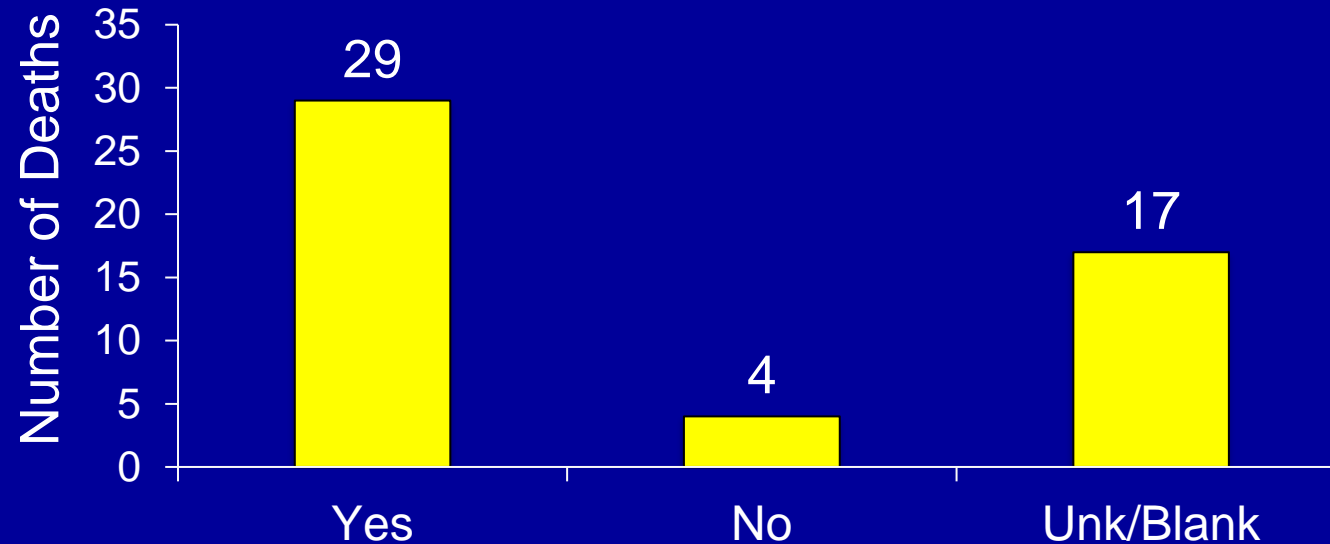


Crib Availability

2015 - 2019

Of the 99 sleep-related deaths, 52% occurred in an adult bed ($N=50$):

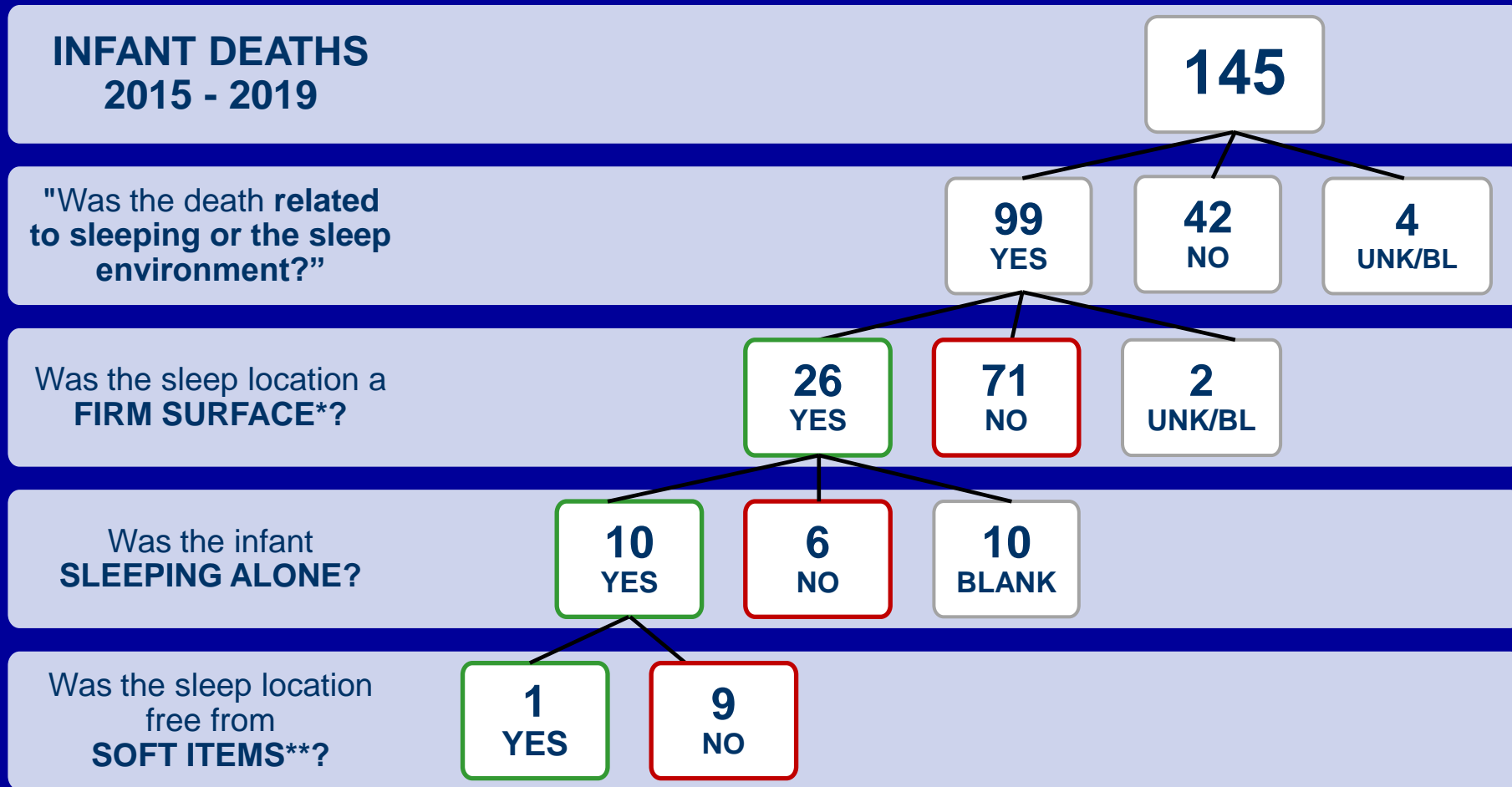
Was there a Crib / Bassinet / Port-a-Crib in the home?



Of 99* sleep-related deaths, 55 occurred when infant was bed-sharing (39 with an adult, 6 with a child, 10 with an adult AND another child).

**21 of the 99 did not have these questions answered, so bed-sharing could be even higher.*

Sleep Environment Breakdown



* "Firm Surface" includes crib (including pack 'n play), bassinet, or floor.

** "Soft Items" includes comforter, blanket/flat sheet, pillow, cushion, boppy, positioner, bumper pads, or toy.

Summary

- Disproportionate number of deaths among American Indian population than among whites.
- Disproportionate number of deaths among males than among females.
- Younger infants have a higher number of deaths than older infants.
- 73% of deaths were related to sleeping or the sleep environment. Of these, 52% occurred in an adult bed and of the records with bed-sharing questions answered, 71% reported bed-sharing (55/78).





To reflect on the information and data that was just presented;

What positives did you identify?

What was concerning to you?

Did you identify any gaps in the data?

Based on that reflection;

What are some areas of improvement? (either to the data collection process, data analysis, ideas for prevention strategies)



South Dakota Maternal Mortality and Morbidity

Katelyn Strasser, MPH, RN
Maternal Child Health Epidemiologist, SDDOH

Dr. Mary Carpenter
Medical Director-Department of Health and Medicaid



Shortcuts / Serena Williams and the realities of the 'maternal mortality crisis'

Huge Racial Disparities Found in Deaths Linked to Pregnancy

Major maternal health legislation signed into law



Courtesy of the Bloomstein Family



The briefing / Why do women still die giving birth?

The Last Person You'd Expect To Die In Childbirth

For Every Woman Who Dies In Childbirth In The U.S., 70 More Come Close



MATERNAL MORTALITY DEFINITIONS:

Pregnancy-associated death: The death of a woman while pregnant or within one year of the termination of pregnancy, regardless of the cause. This makes up the universe of maternal mortality. Within that universe are pregnancy-related deaths and pregnancy-associated, but not related deaths.

Pregnancy-associated, but not related death: 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-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.





Data Sources

Pregnancy Mortality Surveillance System (PMSS)

- Use death certificates linked to fetal death and birth certificates
- Reviewed by medical epidemiologists
- Classify as pregnancy-associated, pregnancy-related, cause of death, and identify injury relatedness
- Most recent data is from 2017
- Does not count SD resident deaths that occurred in other states



Trends in pregnancy-related mortality in the United States: 1987-2016



Sources:
CDC PMSS
Catalano, AJOG

*Number of pregnancy-related deaths per 100,000 live births per year



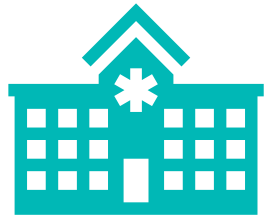
Racial/Ethnic Disparities in Pregnancy-Related Mortality Exist PMSS data 2011-2016

Pregnancy-related mortality ratios:

- 42.4 deaths per 100,000 live births for Black non-Hispanic women
- 30.4 deaths per 100,000 live births for American Indian/Alaskan Native non-Hispanic women
- 14.1 deaths per 100,000 live births for Asian/Pacific Islander non-Hispanic women
- 13.0 deaths per 100,000 live births for white non-Hispanic women
- 11.3 deaths per 100,000 live births for Hispanic women



Factors in disproportionate pregnancy-related mortality ratios



Access to care



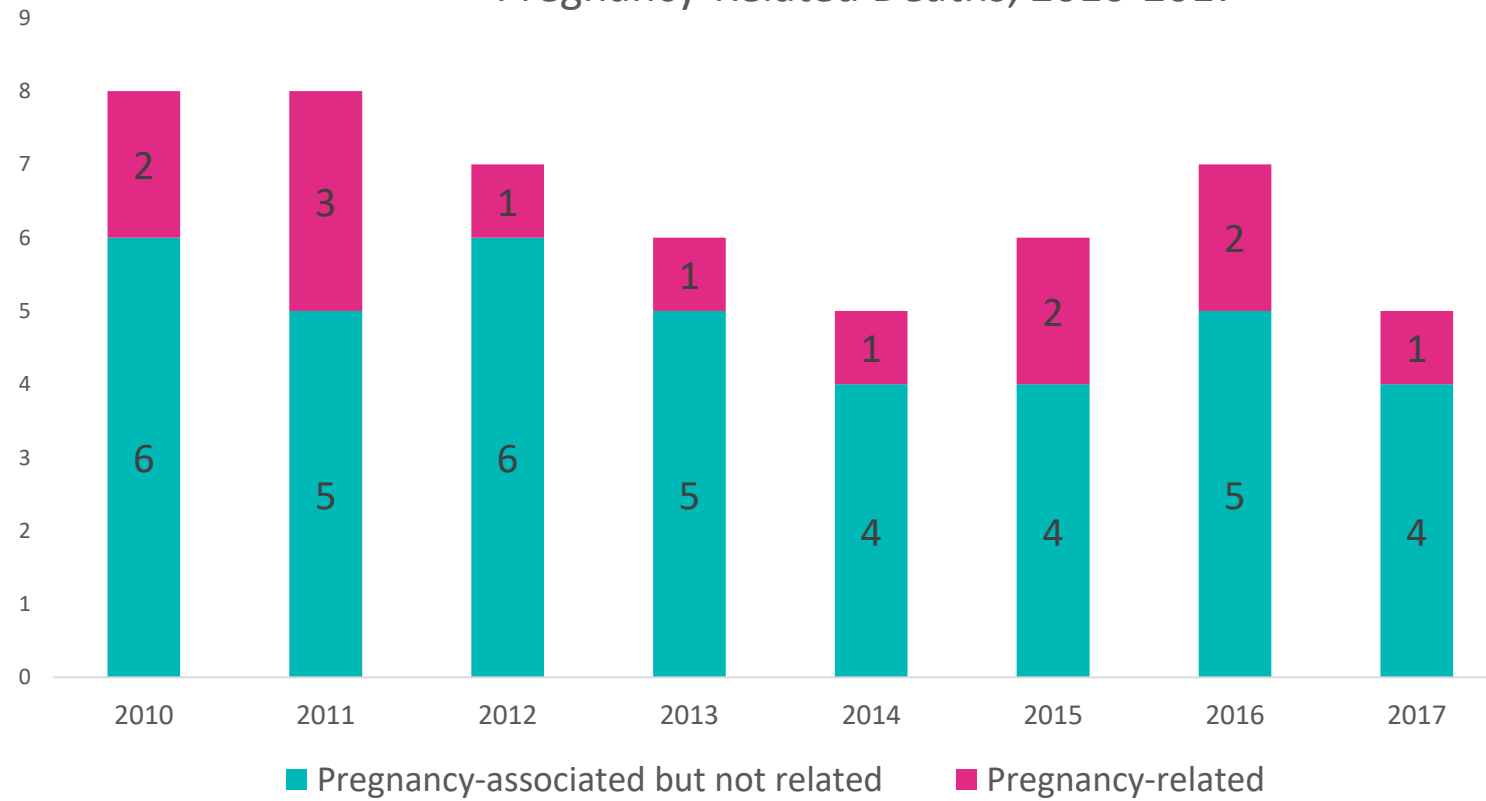
Quality of care



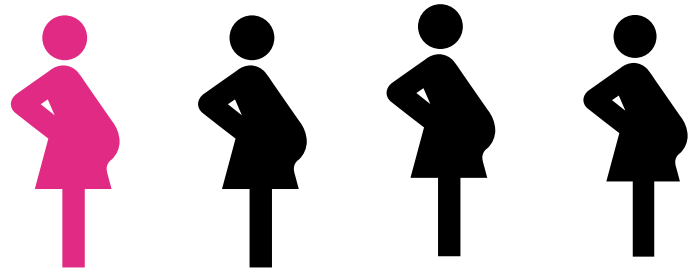
Prevalence of
chronic diseases



Number of Pregnancy-Associated but Not Related vs. Pregnancy-Related Deaths, 2010-2017



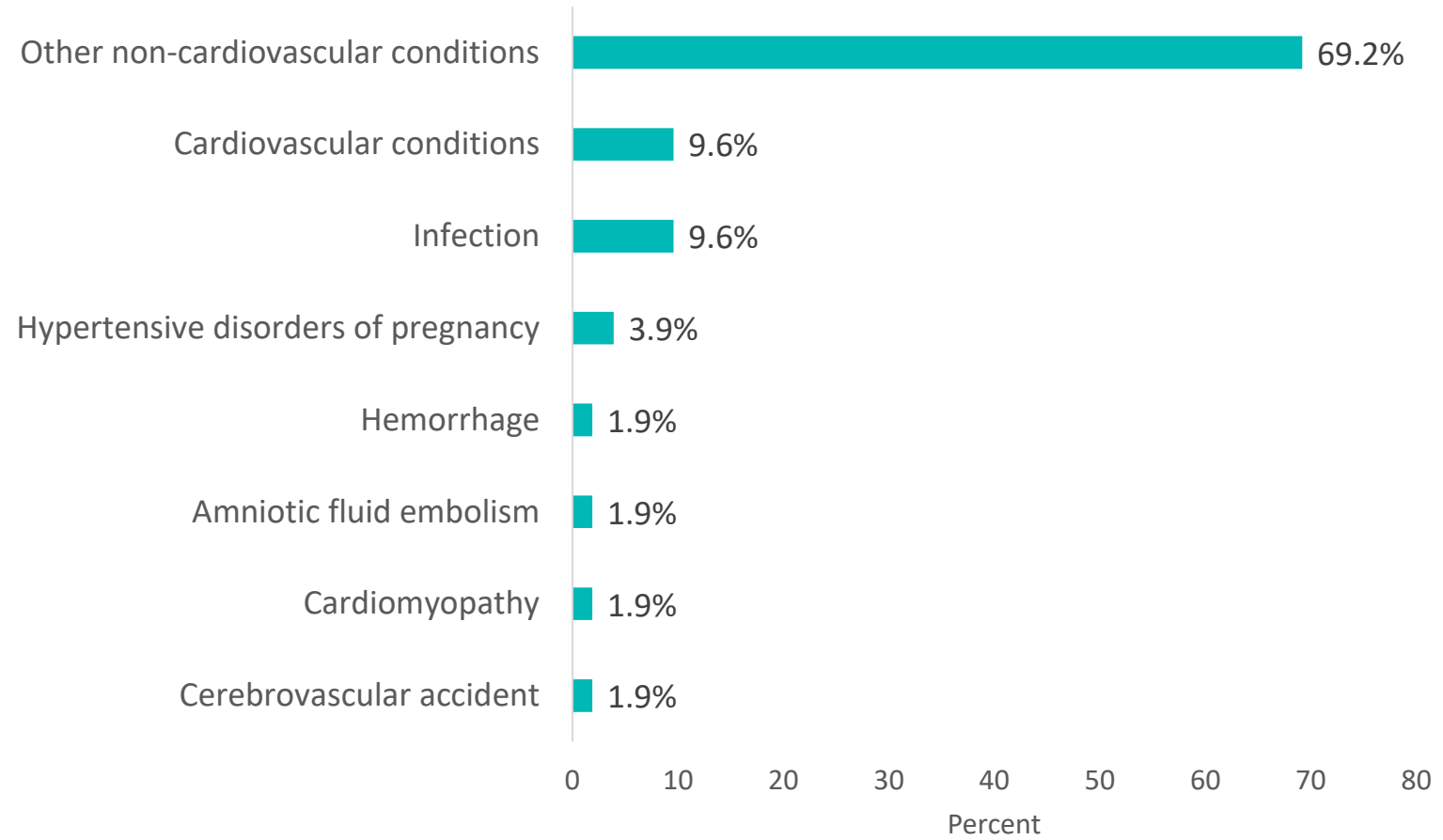
Source: CDC
PMSS



1 in 4 maternal
deaths in South
Dakota is
pregnancy-related



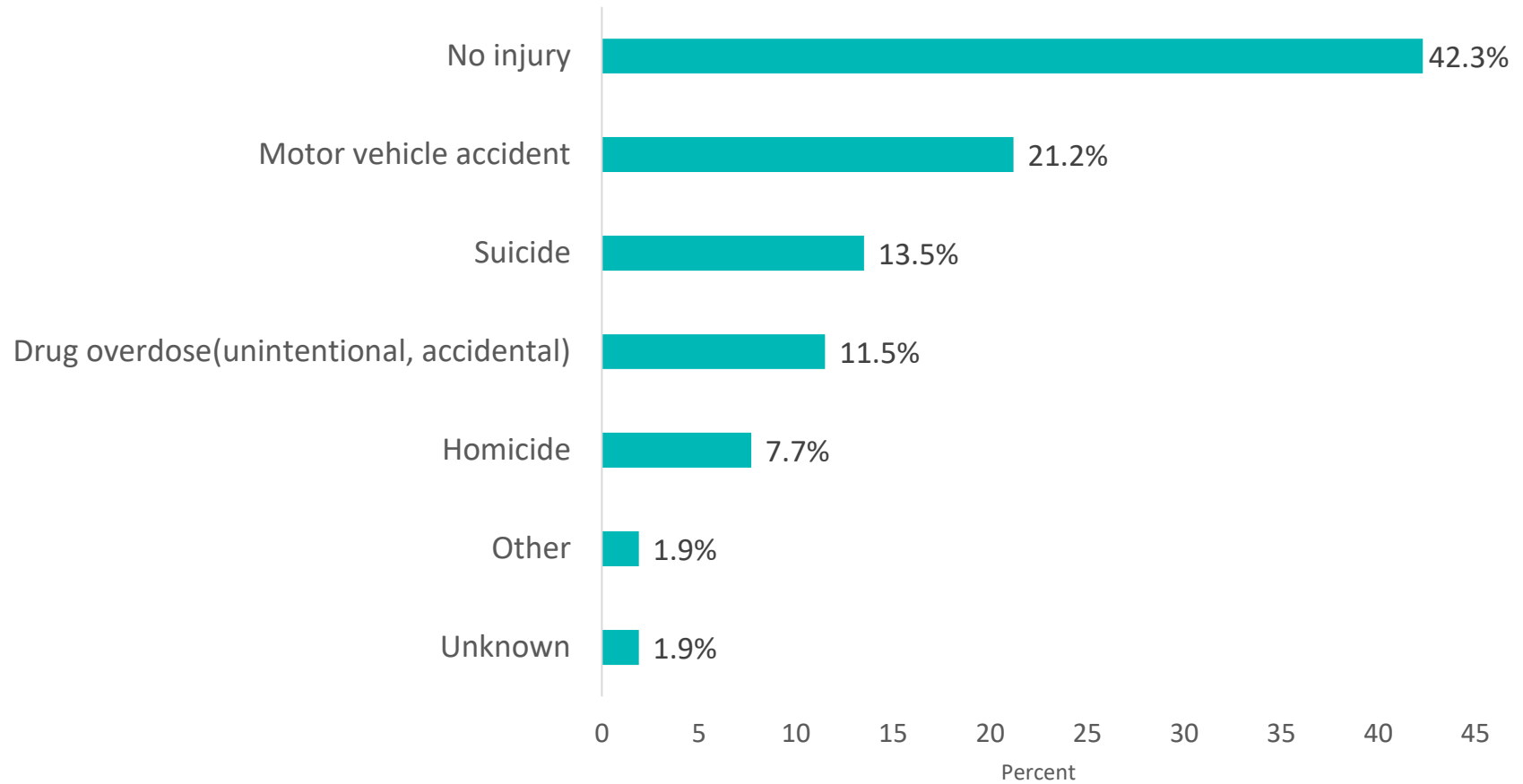
Causes of Pregnancy-Associated Deaths, 2010-2017



Source: CDC
PMSS



Percent of Pregnancy-Associated Deaths Due to an Injury, 2010-2017



Source: CDC
PMSS



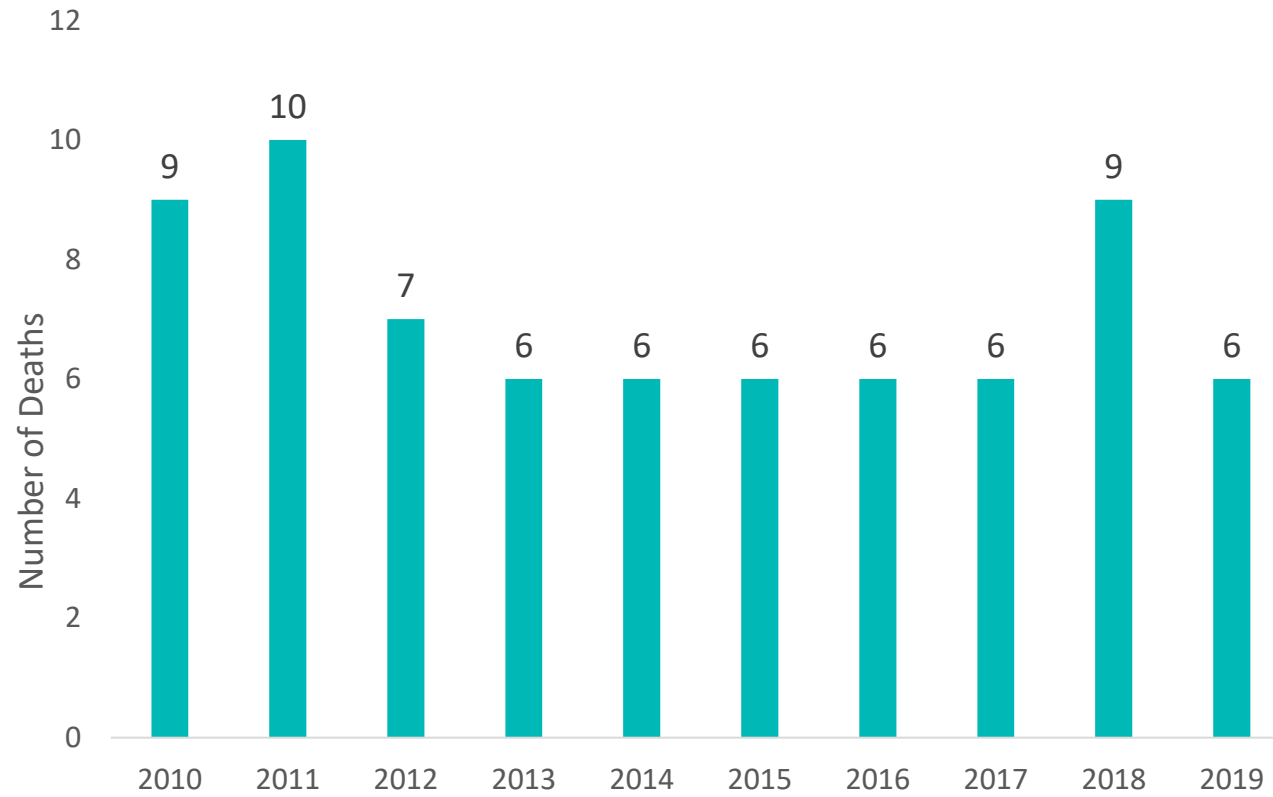
Data Sources

South Dakota Vital Statistics

- Death certificates linked to fetal death and birth certificates
- Reviewed by SDDOH staff
- More current data (2019)
- Considers SD residents that died in other states



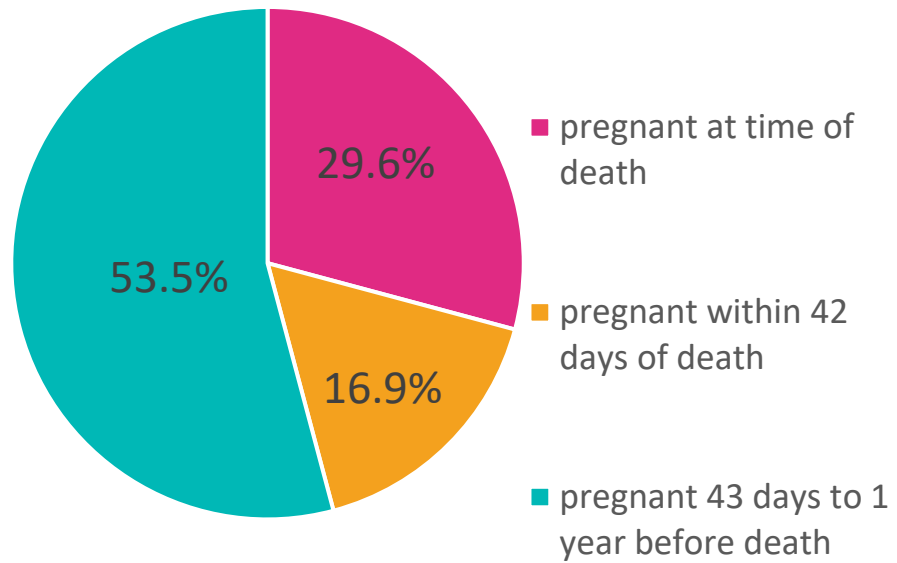
Number of Pregnancy-Associated Deaths, 2010-2019



Source:
South Dakota Vital Statistics



Timing of Pregnancy-Associated Deaths, 2010-2019



Source:
South Dakota Vital Statistics



Demographic Characteristics of all Pregnancy-Associated Deaths, 2010-2019 (N=71)

	Frequency	Percent
Maternal Age		
<20	8	11.3
20-24	9	12.7
25-29	22	31
30-34	18	25.4
35-39	10	14.1
>=40	4	5.6

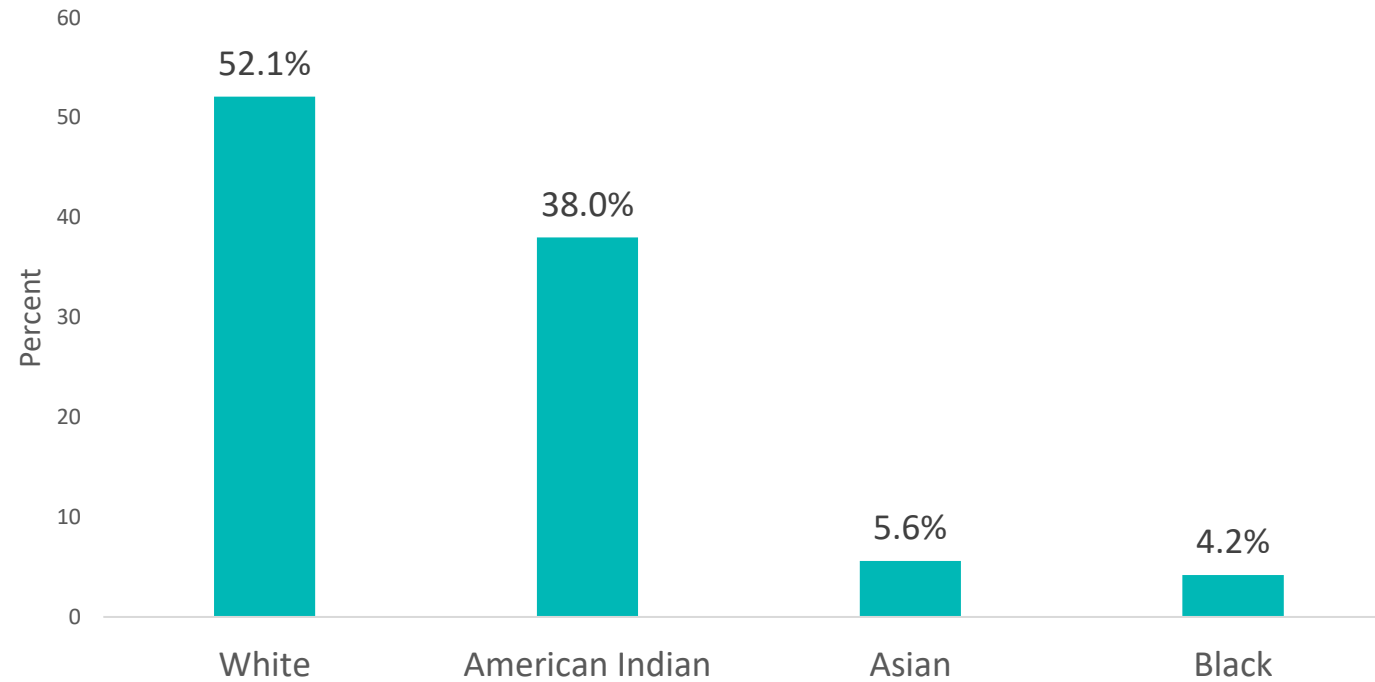
	Frequency	Percent
Marital Status		
Married	29	40.8
Never married	34	47.9
Divorced	6	8.5
Widowed	1	1.4
Unknown	1	1.4

	Frequency	Percent
Education		
Less than high school	16	22.5
High school graduate or GED	29	40.8
Some college	9	12.7
College graduate or higher	16	22.5
Not stated	1	1.4

Source:
South Dakota Vital Statistics



Percent of Pregnancy-Associated Deaths by Race, 2010-2019



Percent of live births by mother's race from 2010-2019 was 72.3% for white women and 15.0% for American Indian women

Source:
South Dakota Vital Statistics



Data Sources

Maternal Mortality Review Committee (MMRC)

- Multidisciplinary committee that reviews deaths that occur during or within 1 year of pregnancy
- Data gathered by nurse abstractor, put into MMRIA system, and turned into de-identified case narratives
- Determines pregnancy-relatedness and makes specific recommendations for prevention



MMRIA

MATERNAL MORTALITY REVIEW COMMITTEE DECISIONS FORM v20

1

REVIEW DATE

Month/Day/Year

RECORD ID #

COMMITTEE DETERMINATION OF CAUSE(S) OF DEATH

IF PREGNANCY-RELATED, COMMITTEE DETERMINATION OF UNDERLYING* CAUSE OF DEATH
Refer to page 3 for PMSS-MM cause of death list.

PREGNANCY-RELATEDNESS: SELECT ONE

- PREGNANCY-RELATED**
A death during pregnancy or within one year of the end of pregnancy from a pregnancy complication, a chain of events initiated by pregnancy, or the aggravation of an unrelated condition by the physiologic effects of pregnancy
- PREGNANCY-ASSOCIATED, BUT NOT-RELATED**
A death during pregnancy or within one year of the end of pregnancy from a cause that is not related to pregnancy
- PREGNANCY-ASSOCIATED BUT UNABLE TO DETERMINE PREGNANCY-RELATEDNESS**
- NOT PREGNANCY-RELATED OR-ASSOCIATED**
(i.e. false positive, was not pregnant within one year of death)

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

- COMPLETE**
All records necessary for adequate review of the case were available
- SOMEWHAT COMPLETE**
Major gaps (i.e. information that would have been crucial to the review of the case)
- 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**

DOES THE COMMITTEE AGREE WITH THE UNDERLYING* CAUSE OF DEATH LISTED ON DEATH CERTIFICATE? YES NO

TYPE

OPTIONAL: CAUSE (DESCRIPTIVE)

UNDERLYING*

CONTRIBUTING

IMMEDIATE

OTHER SIGNIFICANT

COMMITTEE DETERMINATIONS ON CIRCUMSTANCES SURROUNDING DEATH

DID **OBESITY** CONTRIBUTE TO THE DEATH? YES PROBABLY NO UNKNOWNDID **DISCRIMINATION** CONTRIBUTE TO THE DEATH? YES PROBABLY NO UNKNOWNDID **MENTAL HEALTH CONDITIONS OTHER THAN SUBSTANCE USE DISORDER** CONTRIBUTE TO THE DEATH? YES PROBABLY NO UNKNOWNDID **SUBSTANCE USE DISORDER** CONTRIBUTE TO THE DEATH? YES PROBABLY NO UNKNOWN

MANNER OF DEATH

WAS THIS DEATH A SUICIDE? YES PROBABLY NO UNKNOWNWAS THIS DEATH A HOMICIDE? YES PROBABLY NO UNKNOWN

IF ACCIDENTAL DEATH, HOMICIDE, OR SUICIDE, LIST THE MEANS OF FATAL INJURY

- FIREARM
- SHARP INSTRUMENT
- BLUNT INSTRUMENT
- POISONING/
OVERDOSE
- HANGING/
STRANGULATION/
SUFFOCATION

- FALL
- PUNCHING/
KICKING/BEATING
- EXPLOSIVE
- DROWNING
- FIRE OR BURNS
- MOTOR VEHICLE

- INTENTIONAL
NEGLECT
- OTHER, SPECIFY:
- UNKNOWN
- NOT APPLICABLE

IF HOMICIDE, WHAT WAS THE RELATIONSHIP OF THE PERPETRATOR TO THE DECEDENT?

- NO RELATIONSHIP
- PARTNER
- EX-PARTNER
- OTHER RELATIVE

ACQUAINTANCE
OTHER, SPECIFY:

- UNKNOWN
- NOT APPLICABLE

*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.

**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 AND RECOMMENDATIONS FOR ACTION (Entries may continue to grid on page 5)**CONTRIBUTING FACTORS WORKSHEET**

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

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?

DESCRIPTION OF ISSUE (enter a description for EACH contributing factor listed)	CONTRIBUTING FACTORS (choose as many as needed below)	LEVEL	COMMITTEE RECOMMENDATIONS [Who?] should [do what?] [when?] Map recommendations to contributing factors.	LEVEL	PREVENTION TYPE (choose below)	EXPECTED IMPACT (choose below)

CONTRIBUTING FACTOR KEY
(DESCRIPTIONS ON PAGE 4)

- Access/financial
- Adherence
- Assessment
- Childhood abuse/trauma
- Chronic disease
- Clinical skill/quality of care
- Communication
- Continuity of care/care coordination
- Cultural/religious
- Delay
- Discrimination
- Environmental
- Equipment/technology
- Interpersonal racism
- Knowledge
- Law Enforcement
- Legal
- Mental health conditions
- Outreach
- Policies/procedures
- Referral
- Social support/isolation
- Structural racism
- Substance use disorder - alcohol, illicit/prescription drugs
- Tobacco use
- Unstable housing
- Violence
- Other

DEFINITION OF LEVELS

- **PATIENT/FAMILY:** An individual before, during or after a pregnancy, and their family, internal or external to the household, with influence on the individual
- **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
- **COMMUNITY:** A grouping based on a shared sense of place or identity - ranges from physical neighborhoods to a community based on common interests and shared circumstances

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)

EXPECTED IMPACT

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



Maternal Mortality Review in South Dakota

- South Dakota Preventable Death Committee
 - Provide recommendations for death review processes
- Ad hoc maternal mortality committee
 - Formed multidisciplinary group
 - Received technical assistance from CDC MMRIA
 - Signed onto MMRIA platform and attended 2019 MMRIA training
- New abstractor joining our team in April
- Have data sharing agreements out to health facilities for signature
- Maternal Mortality Review Committee- TBD 2021



To reflect on the information and data that was just presented;

What positives did you identify?

What was concerning to you?

Did you identify any gaps in the data?

Based on that reflection;

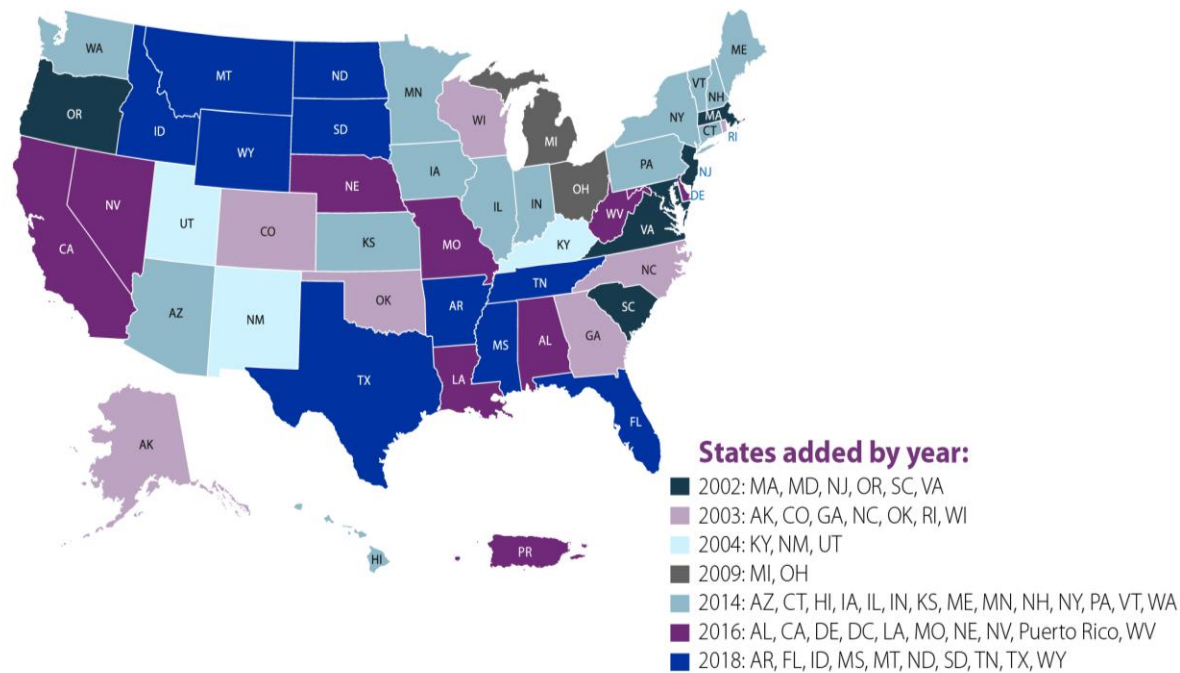
What are some areas of improvement? (either to the data collection process, data analysis, ideas for prevention strategies)

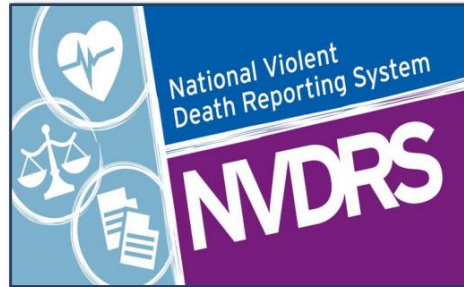
SDVDRS

South Dakota Violent Death Reporting System

National Violent Death Reporting System (NVDRS)

- NVDRS is a state-based anonymous surveillance system
- CDC funding out of the National Center for Injury Prevention and Control
- SD, one of the ten remaining states to implement this system in 2018





- Collects information on all violent deaths
- A violent death includes:
 - Suicides
 - Homicides
 - Undetermined Intent
 - Unintentional firearm
 - Legal intervention
 - Terrorism

National Violent Death Reporting System

- Over **600 variables**
- Data about **victim, suspect, incident, weapon, toxicology**
- Comprehensive depiction of the **who, what, where, when, and how** to gain insight as to **why** the death occurred



Death
Certificates



Coroner/Medical
Examiner Reports



Law Enforcement
Reports

SDVDRS

South Dakota Violent Death Reporting System

- South Dakota Department of Health received funding from CDC in 2018
 - 4-year project period (9/2018 - 8/2022)
 - Data collection started January 1st, 2019
 - Pilot year (Minnehaha and Pennington County)
 - Statewide data collection started January 1st, 2020
- SD-VDRS aims to provide our state and communities with a clearer understanding of violent death.
- This information can be used to guide state and local prevention efforts



Team;

- **Kiley Hump**- Administrator, Chronic Disease Prevention and Health Promotion
PI/Grant Manager, assist with the Preventable Death Committee
- **Matt Tribble**- Injury Prevention Coordinator
Program coordinator, assist with the Preventable Death Committee, prevention programming
- **Amanda Nelson**- Injury Prevention Epidemiologist/East River Data Abstractor
Data collection, abstraction and analysis
- **Kaylyn Davis**- West River Data Abstractor (Black Hills Special Services Cooperative)
Data collection, abstraction and prevention programming
- **Mariah Pokorny**- State Registrar, Office of Vital Statistics
Death certificates and coordination with coroners
- **Jamie Messerli**- Program Evaluator (Sanford Health)
Evaluation design, implementation, and reports



Preliminary 2019 SD-VDRS Data

68 Violent Deaths in Minnehaha and Pennington County

Violent Deaths by County:

- 49% of cases occurred in Pennington County
- 51% of cases occurred in Minnehaha County

Manner of Death

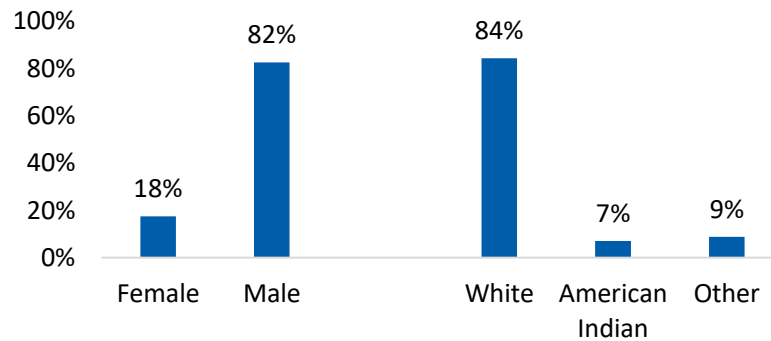
- 83.8% Suicides
- 14.7% Homicides
- 1.5% Undetermined

57 suicide deaths in Minnehaha and Pennington county

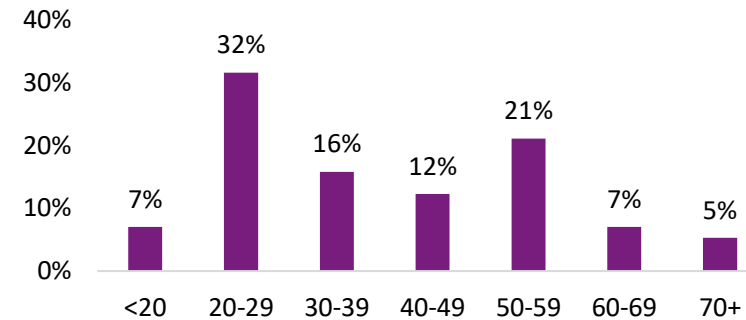
Suicide Methods

- 51% Firearm
- 32% Hanging/Suffocation
- 14% Poisoning
- 4% Other

Suicides by Sex and Race



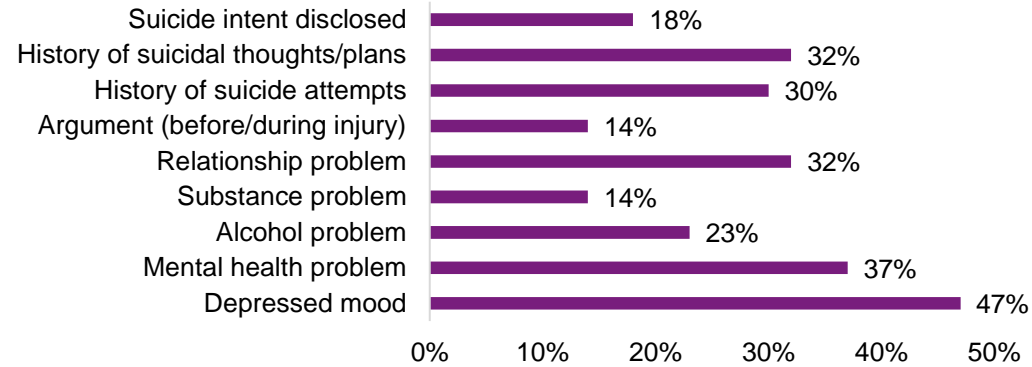
Suicides by Age Group





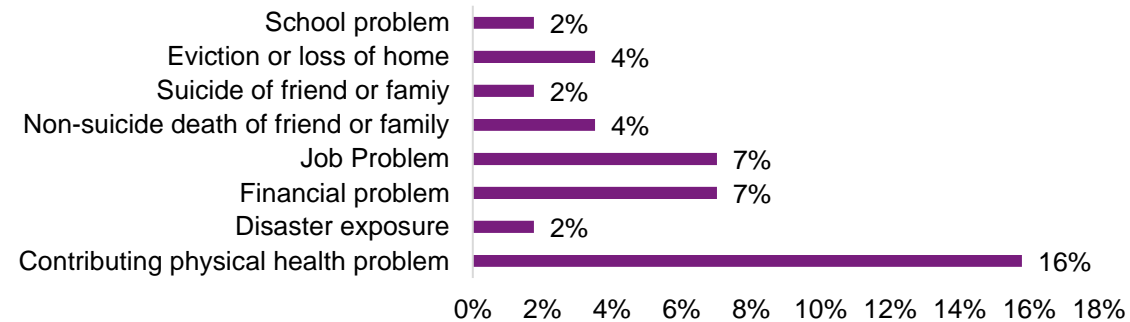
Preliminary 2019 SD-VDRS Data

Factors Contributing to Suicide Deaths



Life Stressors Contributing to Suicide Deaths

33% of suicides had a life stressor documented in the coroner and/or law enforcement records.



Note: Circumstances surrounding suicide deaths were documented in reports by coroners and/or law enforcement. Persons who died by suicide may have had multiple circumstances. It is possible that other circumstances could have been present and not diagnosed, known, or reported.

Thank you to our data providers from Minnehaha and Pennington County!

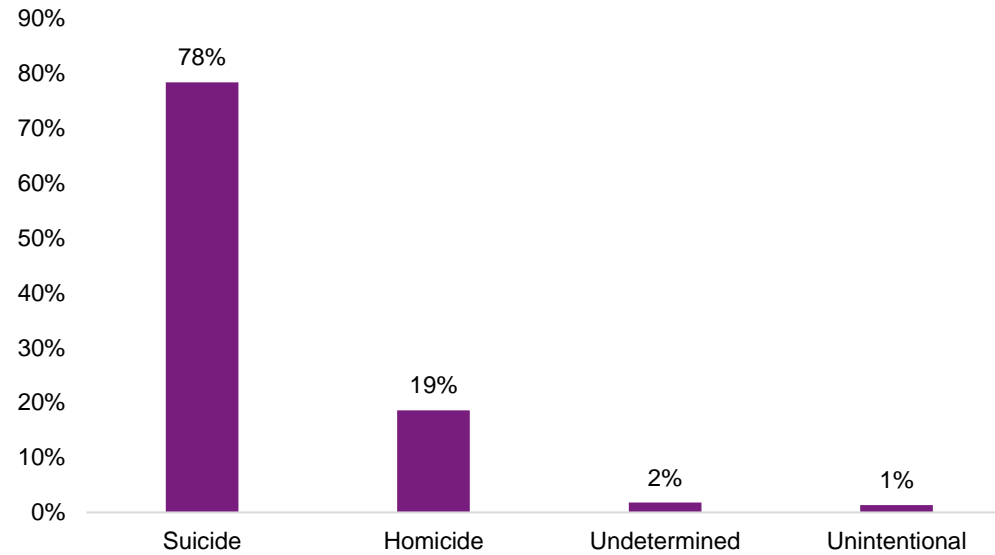


Preliminary 2020 SD-VDRS Data

As of 2/24/21:

- 226 cases abstracted into NVDRS
 - 43% (98) cases completed

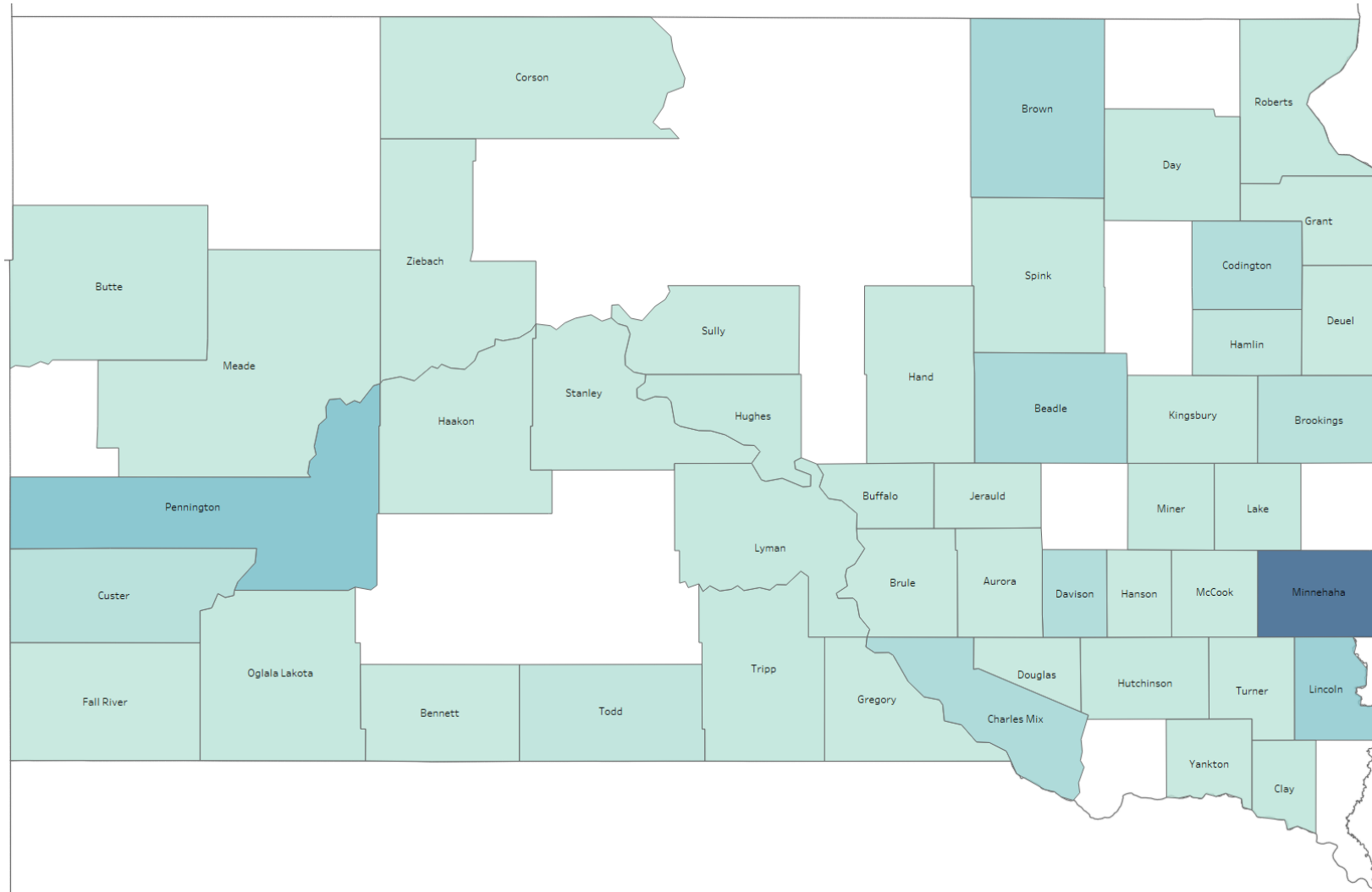
2020 SD-VDRS Deaths by Manner of Death





Preliminary 2020 SD-VDRS Data

SD-VDRS Cases by County of Injury (189 Cases)





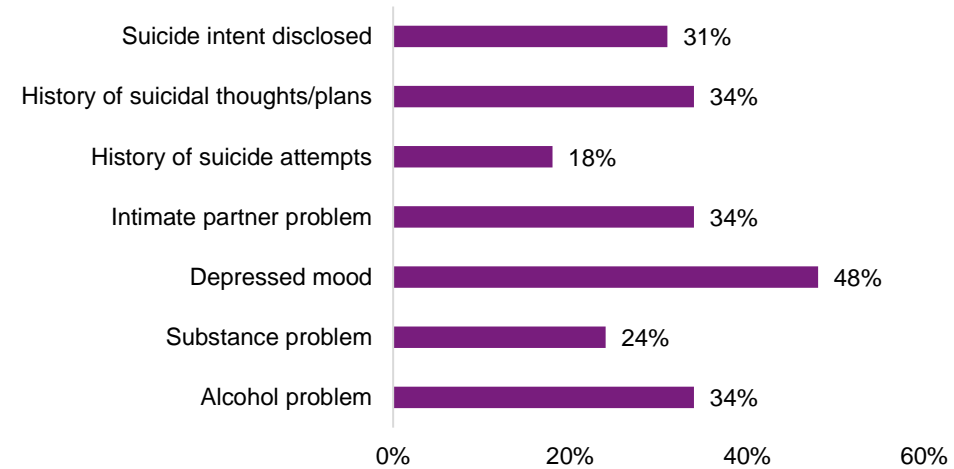
Preliminary 2020 SD-VDRS Data: Suicides

80 suicide deaths – completed cases

Suicide Methods

- 55% Firearm
- 33% Hanging/Suffocation
- 11% Poisoning
- 1% Other

Factors Contributing to Suicide Deaths



Note: Circumstances surrounding suicide deaths were documented in reports by coroners and/or law enforcement. Persons who died by suicide may have had multiple circumstances. It is possible that other circumstances could have been present and not diagnosed, known, or reported.

Resources

- South Dakota Preventable Death Committee
 - <https://doh.sd.gov/statistics/PreventableDeath.aspx>
 - Committee members, meeting minutes, and meeting presentations
- Coroner Training
 - Overview of SD-VDRS, SUDORS, and Coroner Worksheets
- South Dakota Violent Death Reporting System (SD-VDRS)
 - <https://doh.sd.gov/statistics/sd-vdrs/>
 - Informational one-pager
 - Pocket guide
 - Reports

NATIONAL VIOLENT DEATH REPORTING SYSTEM (NVDRS)
NVDRS is the only state-based anonymous surveillance system that covers all types of violent deaths. NVDRS collects information about the who, what, where, and how on violent deaths and provides insight about why they occurred. No personally identifiable information is collected in NVDRS web-based system. NVDRS started in 2002 and went nationwide in 2018.

SOUTH DAKOTA VIOLENT DEATH REPORTING SYSTEM (SD-VDRS)
The South Dakota Department of Health received funding from CDC in 2018 to implement SD-VDRS. The first year of data collection started in January of 2019, which is a pilot year and is focused on Minnehaha and Pennington county. SD-VDRS will go statewide during the second year of funding, starting January 1, 2020.

SD-VDRS Data Sources:

- Death Certificates
- Coroner Reports
- Law Enforcement Reports

Violent Deaths Include:

- Suicides
- Homicides
- Undetermined Intent
- Unintentional Firearms
- Legal Intervention to Terrorism

Data Collected:

- Victim Demographics
- Injury and Death Information
- Circumstances (mental health, substance abuse, life stressors, etc.)
- Weapon and Suspect Information
- Toxicology Findings

What SD-VDRS Can Do:

- Guide state and local prevention efforts
- Identify emerging issues
- Educate our state and communities

County	Count	County	Count
Aurora	0	Hyde	0
Beadle	<5	Jackson	<5
Bennett	5	Jerauld	0
Bon Homme	0	Jones	0
Brookings	7	Kingbury	<5
Brown	10	Lake	<5
Brule	0	Lawrence	9
Butte	<5	Lincoln	10
Butte	<5	Lynn	<5
Campbell	0	McCook	<5
Charles Mix	<5	McPherson	0
Clark	0	Marshall	0
Clay	<5	Meade	10
Codington	<5	Medette	<5
Corson	<5	Miner	<5
Custer	<5	Minnehaha	51
Dakota	<5	Moody	<5
Day	0	Oglala Lakota	11
Deuel	0	Pennington	38
DeWitt	<5	Perris	0
Dewey	<5	Pierce	0
Douglas	0	Potter	<5
Edmunds	<5	Roberts	5
Fall River	<5	Sandborn	<5
Faulk	0	Spink	<5
Gardner	<5	Stanley	17
Gregory	<5	Sully	0
Haskell	0	Todd	0
Harrison	0	Tripp	0
Hauke	0	Turner	0

PRELIMINARY VIOLENT DEATH DATA, MINNEHAHA AND PENNINGTON COUNTY, 2019

- 68 violent deaths in Minnehaha and Pennington county
- Of the 68 deaths, 83.8% were suicides, 14.7% were homicides, and 1.5% undetermined

PRELIMINARY SUICIDE DATA, MINNEHAHA AND PENNINGTON COUNTY, 2019

- 57 suicide deaths in Minnehaha and Pennington county
- 51% Firearms
- 32% Hanging
- 17% Other
- 1% Unknown

Suicides by Sex

Female	62%
Male	38%

Suicides by Race

White	100%
Black	0%
Hispanic	0%
Other	0%

LIFE STRESSORS

- Relationship problems (intimate partner, family, or other)
- Legal/criminal problems
- Physical health problems
- Job/financial problems
- School problems
- Eviction or loss of home
- Recent argument or fight
- Recent death of loved one/family

GENERAL A CORONER QUESTIONS CONTACT:
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LAW ENFORCEMENT QUESTIONS CONTACT:
Arlene Miller 605-367-4342
Arlene.Miller@state.sd.us

WEBSITE:
doh.sd.gov/SD-VDRS

For printed resources, contact
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605-367-7436