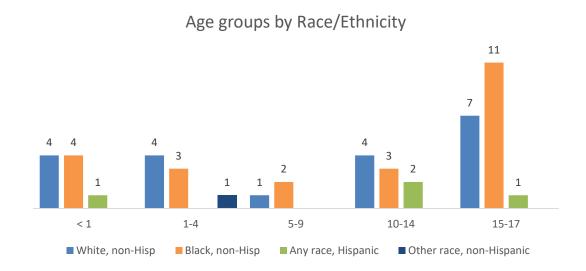
Child Death Review Commission 2021 Data Addendum

Child Death Review and Sudden Death in the Young (CDR/SDY)

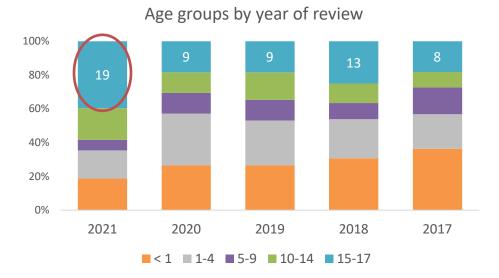
Quick Statistics:

- 48 cases reviewed in 2021—CDR 33 cases, SDY 15 cases
- 9 infant cases reviewed
- 9 unsafe sleep deaths reviewed
- 4 cases were reviewed jointly with the Child Abuse and Neglect (CAN) panel
- 17 children (35%) had chronic health conditions
- New Castle residents made up 63%, Kent 17%, and Sussex 21% of cases
 - This is similar to the percent of the total population of children under 18 years living in these counties:
 59% of children live in New Castle County, 20% live in Kent, and 21% live in Sussex.¹
- Cases were equally split between males (50%, n=24) and females (50%, n=24)

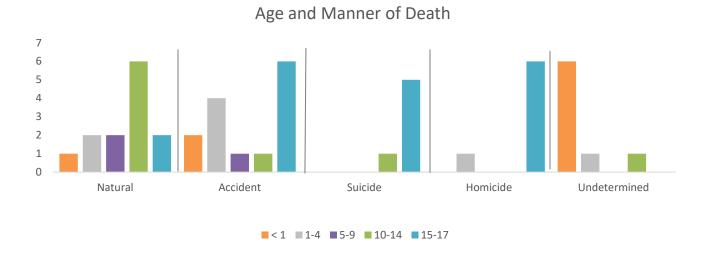


¹ US Census Bureau. Delaware: 2020 Census. Available at: https://www.census.gov/library/stories/state-by-state/delaware-population-change-between-census-decade.html. Accessed on Feb 11, 2022.

² The CDRC uses the terms White, Black, and Hispanic based upon the usage by the CDC, the National Center for Vital Statistics, and the National Center for Fatality Review's database.



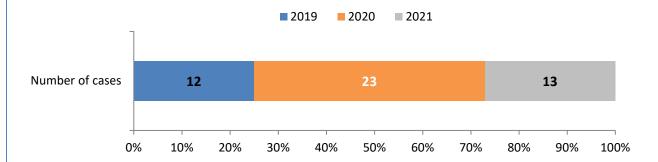
In 2021, 40% of cases reviewed were adolescents aged 15-17 years. This is twice the proportion (20%) seen on average in the four prior years of review.



Impact of COVID

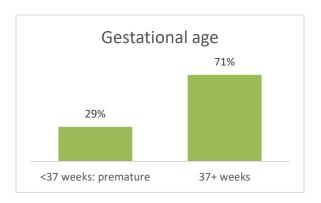
- Twenty-nine deaths (60%) occurred after the onset of Covid restrictions/lockdowns
 - Of these, 20 deaths occurred when there was a Covid stay at home order in effect at the time of death
- Two natural deaths were directly due to Covid, and both children had chronic medical conditions
- Nine deaths were indirectly impacted by Covid, including:
 - All six suicides
 - o Two accidental deaths
 - One homicide
- In 15 cases (52%), children experienced significant disruptions in school services. These cases primarily involved older adolescents 16 and 17 years old (n=11 cases).

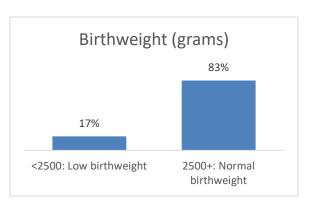
Year of Death



CDR/SDY Infant Deaths

Birthweight & Gestational Age: 2021 Infant Cases (n=9)





Infant Cases: Tracking Issues by Year of Review

| | 2021 (n=9) | 2020 (n=13) | 2019 (n=13) | 2018 (n=16) |
|--|---------------------|------------------|-------------|-------------|
| Intrauterine tobacco exposure ¹ | 44% | 15% | 62% | 31% |
| Intrauterine alcohol exposure ¹ | 0% | 0% | 0% | 6% |
| Intrauterine drug exposure | 29% | 36% | 38% | 38% |
| Late or no prenatal care ² | 11% | 8% | 15% | 25% |
| Insurance coverage for infant | * | | | |
| Medicaid | 83% | 69% | 92% | 63% |
| Private | 17% | 23% | 0% | 19% |
| None | 0% | 0% | 8% | 6% |
| No infant safe sleep education | 0% | 15% | 17% | 6% |
| documented | | | | |
| Drug screen done on mother | 83% | 91% | 100% | 87% |
| Neonatal Opioid Withdrawal | 11% | 8% | 29% | 13% |
| Syndrome (NOWS) scoring | | | | |
| Substance exposed infants | 100% | 75% | 75% | 25% |
| with DFS notification | (1 out of 1) | | | |
| Home visiting referral made | 22% | 42% | 46% | 50% |
| Home visiting enrollment | 22% (2 out of 2) | 15% (2 out of 5) | 0% | 19% |

¹From NCFRP standardized report

²Late prenatal care is defined as >6 months into pregnancy

³More than 50% of cases unknown

NR=not reported

*Insurance status unknown for 3 infants

| | 2021 (n=9) | 2020 (n=13) | 2019 (n=13) | 2018 (n=16) |
|--------------------------------|------------------|-------------|------------------|-------------|
| Caregiver at time of death | | | | |
| Parent | 78% | 77% | 85% | 87% |
| Other | 22% | 23% | 15% | 13% |
| Substance use at time of death | 22% ¹ | 33% | 67% ² | 31% |

¹Two cases of marijuana use only

²includes two cases with buprenorphine use: one prescribed, one diverted use

CDR/SDY Specific Causes of Death

Infant unsafe sleep-related deaths, associated risk factors, by year of review

| | 2021 | 2020 | 2019 | 2018 (n=12) | PRAMS |
|----------------------------|-------|--------|--------|-------------|--------------------------|
| | (n=8) | (n=10) | (n=12) | | 2019 ¹ |
| Not in a crib, bassinette, | 75% | 80% | 100% | 100% | 9%² |
| side sleeper or baby box | | | | | |
| Not sleeping on back | 50% | 40% | 50% | 75% | 22% |
| Unsafe bedding or toys | 88% | 70% | 92% | 100% | 9%³ |
| near infant | | | | | |
| Sleeping with other | 50% | 40% | 75% | 67% | 24% ⁴ |
| people | | | | | |
| Intrauterine drug | 17% | 30% | 42% | 33% | |
| exposure | | | | | |
| Tobacco use: mother | 38% | 25% | 67% | 58% | 19% |
| Adult was alcohol or drug- | 13% | 33% | 67% | 25% | |
| impaired | | | | | |
| Infant ever breastfed | 63% | 90% | 45% | 50% | 85% |
| Mother fell asleep while | 0% | 0% | 0% | 8% | |
| breastfeeding | | | | | |

¹DPH. Delaware Pregnancy Risk Assessment Monitoring System (PRAMS) 2019 Analysis. Available at: https://www.dhss.delaware.gov/dhss/dph/hp/files/PRAMS2019.pdf. Accessed Feb 11, 2022.

²Not usually in a crib, bassinet, or pack and play in the last 2 weeks ³Sleep with toys, cushions, or pillows

⁴Baby does not often or always sleeps alone in a crib or bed

CDR/SDY Tracking Issues

Adverse Family Experiences, by year of review¹

| | 2021 Total (n=48) | 2021 Infants (n=9) | 2020 Total (n=49) | 2020 Infants (n=13) | 2019 Total (n=49) | 2019 Infants (n=13) |
|---|----------------------|--------------------------|----------------------|---------------------------|----------------------|---------------------------|
| DFS notified of death ² | 69% | 100% | | 100% | 52% | 100% |
| DFS rejected MDT response that should have been accepted, 0-3 year olds | 13% | 11% | | 11% | 18% | 8% |
| Active with DFS at time of death | 15% | 22% | 8% | 23% | 13% | 31% |
| Active with DFS within 12 months of death | 23% | 50% | 27% | 23% | 23% | 46% |
| DFS history: parents as adults | 64% | 88% | 63% | 46% | 52% | 62% |
| DFS history: parents as children | 28% | 38% | 35% | 38% | 40% | 62% |
| Single/divorced/separated parents | | 44% | 33% | 23% | 31% | 46% |
| Maternal substance abuse ³ | 29% | 63% | 30% | 45% | 46% | 77% |
| Paternal substance abuse ³ | 33% | 60% | 28% | 50% | 59% | 89% |
| Maternal criminal history | 36% | 67% | 33% | 23% | 36% | 38% |
| Paternal criminal history | 46% | * | 45% | 50% | 58% | 67% |
| Maternal mental health issue ³ | * | 40% | * | * | 58% | 60% |
| Paternal mental health issue ³ | * | * | * | * | 38% | 40% |
| Maternal intimate partner violence ³ | 50% | 57% | 33% | 33% | 33% | 64% |
| Paternal intimate partner violence ³ | 41% | 40% | 37% | 33% | 31% | 57% |
| Maternal history of abuse | 13% | 13% | 13% | 8% | 7% | 18% |
| Paternal history of abuse | 8% | 20% | 4% | 9% | 10% | 20% |
| Maternal history of neglect | 15% | 25% | 19% | 15% | 19% | 42% |
| Paternal history of neglect | 8% | 40% | 11% | 9% | 19% | 25% |

^{*}More than 50% of values are unknown, so not reported

¹Denominator is applicable cases with known information

Other Tracking Issues, by year of review

| | 2021 (n=48) | 2020 (n=49) | 2019 (n=49) | 2018 (n=52) |
|--------------------------|-----------------|-------------|-------------|-------------|
| Hospice involved | NR | 6% | NR | 17% |
| Teen parent | 4% ¹ | 4% | 2% | 4% |
| Crying impetus for death | 9% ² | | | |

¹the child involved

²restricted to age < 3 years old

²Denominator is cases specified by statute: Title 16, Chapter 9, Subsection 906(e)(3) for DFS investigation, children ages 0-3 years ³Current, history or suspected

Infant Tracking Issues, by year of review

| | 2021 (n=9) | 2020 (n=13) | 2019 (n=13) | 2018 (n=16) |
|--------------------------------------|------------|-------------|-------------|-------------|
| No SUIDI reporting form ¹ | 0% | 18% | 8% | 0% |
| No scene investigation ¹ | 11% | 15% | 0% | 0% |
| No scene photos ¹ | 11% | 8% | 0% | 0% |
| No doll re-enactment ¹ | 22% | 25% | 8% | 38% |
| Toxicology screen of alleged | 67% | | | |
| perpetrator | | | | |
| Depression screen at birth | * | | | |
| IPV screen at birth | * | | | |

*More than 50% of values are unknown, so not reported ¹denominator is infant deaths due to unsafe sleeping or undetermined manner NR=not recorded

Fetal and Infant Mortality Review

FIMR Process and 2021 Highlights

- In 2021 the odd/even date of death triage system was reinstated to randomly select a subset of fetal and infant death cases for full FIMR review
- All mothers who had a fetal or infant loss were invited to participate in a maternal interview. If the mother accepted, her case was automatically triaged for a full FIMR review, superseding the date of death criteria.
- Three mothers had a history of previous fetal or infant loss.
- One case of an infant death also involved a maternal death and was reviewed by the MMR Committee.
- Eight mothers accepted a maternal interview: six Black/non-Hispanic mothers and two Hispanic mothers.
- In 2021, the CDRC procured access to telephonic interpretation to enhance our ability to offer maternal interviews to non-English-speaking mothers.
- This was the first year of consistently documenting Findings & Strengths using the National FIMR database

40 cases (68%) had at least one finding

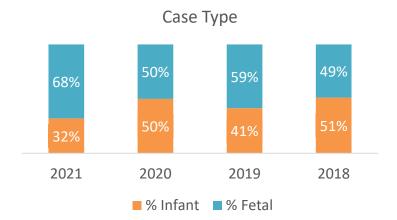
23 cases (39%) had at least one identified strength

| Category | Number of Findings (n=92) | Number of Strengths (N=30) |
|--------------------|------------------------------|-------------------------------|
| Family support | 32 | 14 |
| Continuity of care | 16 | 6 |
| Behavioral health | 10 | 4 |
| Covid | 8 | 2 |
| Maternal health | 6 | 0 |
| Infant health | 6 | 1 |
| Family planning | 3 | 0 |
| Family social risk | 3 | 1 |
| Fetal kick counts | 1 | 2 |
| FIMR process | 7 | 0 |

Overview of FIMR Cases

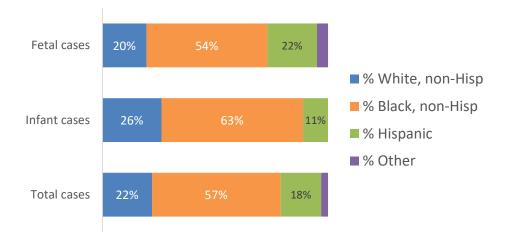
Quick Statistics

- 60 cases were reviewed in 2021: 41 (68%) fetal deaths and 19 (32%) infant deaths.
- 2021 saw a higher proportion of cases being fetal deaths.
 - o Delaware Vital Statistics is only available through 2019, and at that point, the number of fetal deaths was 57 in the state, comparable to the prior two years.
 - However, based on the number of referrals the CDRC received, it appears that 2021 saw a drop in infant referrals more so than in fetal referrals. The average number of fetal referrals did not increase compared to pre-pandemic levels (2019).



• Black infants made up the majority of infant and fetal death cases reviewed.

Race/ethnicity by case type



Underlying Cause of Death



Contributing factors identified in fetal death cases



Underlying cause of death in infant cases

Among infant cases:

- 68% (n=13) were delivered at a Level 3 hospital
- Three infants were delivered at a Level 2 hospital
- One infant was delivered at home, and one infant out of state

Age at infant death:

- Five infants died within a few hours of birth
- Five infants died 1-7 days of life.
- Eight infants (44%) died in the postneonatal period (28+ days of life).

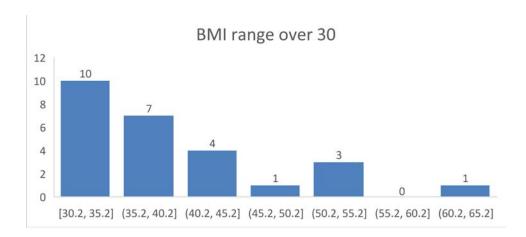
Maternal Health

FIMR Issues Summary by year of review*

| Medical: Mother | 2021 | 2020 | 2019 | 2018 |
|--|--------------|--------------|--------------|--------------|
| | (n=60 cases) | (n=52 cases) | (n=58 cases) | (n=45 cases) |
| Pregnancy > 35 yrs | 20% | 23% | 14% | 18% |
| Cord problem | 10% | 15% | 19% | 7% |
| Placental abruption | 30% | 13% | 19% | 18% |
| Chorioamnionitis-Present | 20% | 0=0/ | 400/ | 22/ |
| Chorioamnionitis-Contributing | 23% | 27% | 12% | 9% |
| Pre-existing diabetes | 5% | 6% | 16% | 2% |
| Gestational diabetes | 8% | 6% | 5% | 4% |
| Incompetent cervix | 12% | 23% | 12% | 4% |
| Infection: bacterial vaginosis | 5% | 10% | 16% | 13% |
| Sexually transmitted infection | 15% | 17% | 16% | 7% |
| Other infection | 17% | 23% | 26% | 36% |
| Multiple gestation | 7% | 8% | 10% | 11% |
| Mother's weight BMI ¹ | 62% | 62% | 48% | 40% |
| Insufficient/ excess weight gain | 12% | 6% | 12% | 7% |
| Poor nutrition | 2% | 6% | 12% | 4% |
| Pre-existing hypertension | 22% | 15% | 16% | 7% |
| Preeclampsia | 25% | 8% | 17% | 13% |
| Eclampsia | 0% | 0% | 0% | 2% |
| Preterm labor | 17% | 27% | 12% | 29% |
| PPROM (prolonged premature rupture of membranes) | 13% | 10% | 16% | 22% |
| Pre-existing dental issues | 5% | 8% | 2% | 7% |
| Oligo-/polyhydramnios | 33% | 15% | 22% | 11% |
| Previous miscarriages | 23% | 31% | 31% | 27% |
| Previous fetal loss | 5% | 6% | 7% | 2% |
| Previous infant loss | 2% | 2% | 7% | 4% |
| Previous low birthweight delivery | 3% | 4% | 16% | 2% |
| Previous preterm delivery | 13% | 8% | 22% | 16% |
| Previous C-section | 23% | 19% | 22% | 20% |
| Previous ectopic pregnancy | 0% | 0% | 5% | 4% |
| First pregnancy < 18 yrs old | 10% | 10% | 16% | 24% |
| >4 live births | 5% | 4% | 9% | 7% |
| Assisted reproductive technology | 7% | 6% | 2% | 7% |
| Standard of care not met | 3% | 2% | 0% | 0% |
| Inadequate assessment | 3% | 4% | 0% | 2% |

*either a P (present) or C (contributing) factor

 1 BMI ranged from 18.5-61.5 among FIMR mothers. Among the 26 women who were obese, nine met the criteria for class III obesity with BMI > 40



FIMR Tracking Database by year of review

| | 2021 | 2020 | 2019 | 2018 |
|---|------|------|------|------|
| Tracking issues | | | | |
| Antenatal steroids used when appropriate ¹ | 60% | 63% | 60% | 64% |
| 17-progesterone offered when appropriate | 33%² | 48% | 58% | 33% |
| Low-dose aspirin counseling, when | 78%³ | | | |
| appropriate | | 59% | NR | NR |

¹Infant cases only

²History of prior spontaneous miscarriages or preterm delivery and single gestation in this index pregnancy ³History of hypertension, diabetes, preeclampsia, eclampsia, or multiple gestation

- 6 FIMR cases involved **severe maternal morbidity** based on the transfusion of at least 2 units of PRBCs (5 cases, some had underlying anemia, not just obstetric hemorrhage) and ICU admission (1 case).
- One case was also a pregnancy-related death reviewed by the MMR Committee.

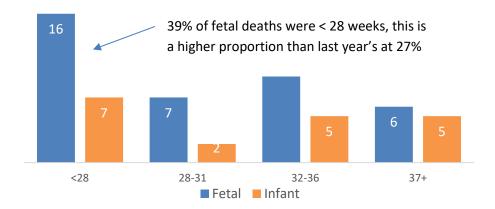
Infant Health
FIMR Issues Summary by year of review*

| | 2021 (n=60 cases) | 2020 (n=52 cases) | 2019 (n=58 cases) | 2018 (n=45 cases) |
|--|-----------------------------|-----------------------------|--------------------------|--------------------------|
| Non-viable fetus | 5% (infant) | 50% | 59% | 42% |
| Low birthweight (<2500 grams) | 27% | 4% | 4% | 11% |
| Very low birthweight (<1500 grams) | 10% | 4% | 9% | 4% |
| Extremely low birthweight (<750 grams) | 40% | 35% | 12% | 33% |
| Intrauterine growth restriction | 15% | 15% | 24% | 18% |
| Congenital anomaly | 23% | 19% | 21% | 22% |
| Prematurity | 20% | 40% | 23% | 44% |
| Infection/ sepsis | 12% | 6% | 9% | 16% |
| Failure to thrive | 0% | 2% | 4% | 0% |
| Birth injury | 2% | 2% | 0% | 0% |
| Feeding problem | 3% | 4% | 7% | 7% |
| Respiratory Distress Syndrome | 18% | 19% | 12% | 29% |
| Developmental delay | 0% | 4% | 0% | 2% |

*either a P (present) or C (contributing) factor

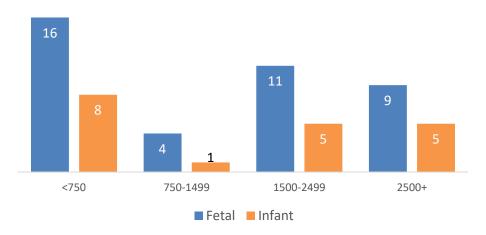
- Among infant cases, prematurity and congenital anomaly were the most common contributing factor, each identified in 42% of cases (n=8/19).
- Congenital anomaly was a contributing factor in 7% of cases among fetal cases (n=3/41).

Gestational age (weeks)



Average infant GA = 31 weeks Average fetal GA = 30 weeks

Birthweight (grams)



Average infant BW = 1603 g Average fetal BW = 1538 g

Continuity of Care

FIMR Issues Summary by year of review*

| | 2021 | 2020 | 2019 | 2018 |
|-----------------------------|--------------|--------------|--------------|--------------|
| | (n=60 cases) | (n=52 cases) | (n=58 cases) | (n=45 cases) |
| Preconception care | 13% | 12% | 5% | 13% |
| Postpartum visit kept | 61% | 65% | 62% | 60% |
| No prenatal care | 10% | 6% | 5% | 11% |
| Late entry to prenatal care | 37% | 17% | 22% | 11% |
| Lack of referrals | 5% | 4% | 4% | 0% |

| Missed appointments | 27% | 12% | 22% | 24% |
|----------------------------|-----|-----|-----|-----|
| Multiple providers / sites | 8% | 19% | 33% | 33% |
| Lack of dental assessment | 2% | 0% | 0% | 4% |
| Lack of dental care | 8% | 4% | 0% | 0% |
| Inappropriate use of ED | 0% | 4% | 0% | 4% |
| Poor provider to provider | 7% | 6% | 5% | 0% |
| communication | | | | |

^{*}either a P (present) or C (contributing) factor

Family Planning

FIMR Issues Summary by year of review*

| | 2021 | 2020 | 2019 | 2018 |
|---|--------------|--------------|--------------|--------------|
| | (n=60 cases) | (n=52 cases) | (n=58 cases) | (n=45 cases) |
| Pregnancy planning/ birth control education | 73% | 79% | 62% | 27% |
| Intended pregnancy | 20% | 25% | 16% | 31% |
| Unintended pregnancy | 32% | 17% | 36% | 24% |
| Unwanted pregnancy | 8% | 4% | 7% | 4% |
| No birth control | 5% | 4% | 7% | 7% |
| Failed contraception | 2% | 0% | 5% | 2% |
| Pregnancy < 18 mo apart | 25% | 14% | 26% | 20% |

^{*}either a P (present) or C (contributing) factor

FIMR Tracking Issues by year of review

| | 2021 | 2020 | 2019 | 2018 |
|--|------|------|------|------|
| Counseled on birth spacing > 18 months | 2% | 6% | 7% | 7% |
| Counseled on family planning postpartum | 71% | 80% | 69% | 71% |
| Accepted family planning postpartumany type | 47% | 49% | 58% | 51% |
| Accepted LARC postpartum | 16% | 8% | 14% | 9% |
| Expressed interest in LARC but did not receive | 0% | 4% | 7% | 13% |

LARC = long-acting, reversible contraception

Maternal Behavioral Health

FIMR Issues Summary by year of review*

| Substance Use | 2021 (n=60 cases) | 2020 (n=52 cases) | 2019 (n=58 cases) | 2018 (n=45 cases) |
|---|-----------------------------|-----------------------------|--------------------------|--------------------------|
| Positive drug test | 18% | 25% | 14% | 22% |
| No drug test | 10% | 15% | 21% | 13% |
| Tobacco use: history | 7% | 19% | 12% | 11% |
| Tobacco use: current | 20% | 19% | 21% | 18% |
| Alcohol use: history | 10% | 10% | 7% | 7% |
| Alcohol use: current | 8% | 4% | 4% | 7% |
| Illicit drug use: history | 10% | 12% | 17% | 13% |
| Illicit drug use: current | 18% | 19% | 17% | 24% |
| Use of unprescribed meds | 5% | 0% | 4% | 2% |
| Over the counter/ prescription meds | 75% | 77% | 48% | 20% |
| Mental Health | | | | |
| History of mental illness | 33% | 35% | 36% | 40% |
| Depression/mental illness during pregnancy | 20% | 33% | 12% | 9% |
| Depression/mental illness postpartum period | 29% | 40% | 35% | 22 |

^{*}either a P (present) or C (contributing) factor

FIMR Tracking Database by year of review

| | 2021 | 2020 | 2019 | 2018 |
|---|------|------|------|------|
| Substance Use | | | | |
| In utero drug exposure | 15% | 27% | 17% | 7% |
| NAS diagnosis | 0% | 0% | 0% | 0% |
| Mental Health | | | | |
| Depression screen documented ¹ | 93% | 88% | 71% | 71% |

¹Screened on one occasion: n=18; the most common site is OB triage. Screened twice: n=25. Screened 3+ times: n=12.

Social Risk Factors

FIMR Issues Summary by year of review*

| | 2021 | 2020 | 2019 | 2018 |
|--------------------------------------|--------------|--------------|--------------|--------------|
| | (n=60 cases) | (n=52 cases) | (n=58 cases) | (n=45 cases) |
| Lack of family support | 18% | 15% | 14% | 18% |
| Lack of neighbors/ community support | 12% | 2% | 9% | 7% |
| Lack of partner support | 22% | 15% | 9% | 16% |
| Single parent | 27% | 64% | 52% | 58% |
| < 12 th grade education | 23% | 6% | 10% | 16% |
| Frequent/recent moves | 25% | 19% | 7% | 9% |
| Living in shelter/homeless | 2% | 2% | 0% | 9% |
| Mother incarcerated | 7% | 6% | 9% | 7% |
| Father incarcerated | 7% | 14% | 16% | 9% |
| Multiple stresses | 55% | 44% | 55% | 49% |
| Social chaos | 12% | 17% | 16% | 11% |
| Concern about enough money | 18% | 17% | 19% | 24% |

| Work/ employment problems | 10% | 8% | 9% | 4% |
|---------------------------------------|-----|-----|-----|-----|
| Problems with family/ relatives | 5% | 6% | 10% | 13% |
| History of abuse: Mom | 15% | 25% | 16% | 36% |
| Current abuse: Mom | 10% | 6% | 2% | 2% |
| History of abuse: FOB | 3% | 6% | 7% | 2% |
| CPS referrals | 32% | 35% | 31% | 31% |
| Police reports | 17% | 27% | 21% | 24% |
| Inadequate/ unreliable transportation | 12% | 2% | 9% | 7% |

*either a P (present) or C (contributing) factor

FIMR Tracking Database by year of review

| | 2021 | 2020 | 2019 | 2018 |
|---|------|------|------|------|
| Family adverse experiences | | | | |
| Active with Division of Family Services (DFS) | 7% | 8% | 2% | 2% |
| Any DFS history | 50% | 54% | 36% | 33% |
| Criminal history: mother | 25% | 15% | 33% | 22% |
| Criminal history: father | 39% | 40% | 41% | 18% |
| IPV screening documented ¹ | 90% | 65% | 76% | 71% |
| Intimate partner violence | 10% | 6% | 15% | 7% |

¹Screened for IPV once: n=31, most often OB triage or delivery. Screened on two occasions: n=18. Screened 3+ times: n=4.

Covid Impact

| | 2021 |
|--|---------------|
| | (n=60 cases) |
| No significant disruptions | 50% |
| | (17/34 cases) |
| Significant disruptions to some aspects of life ¹ | 50% |
| Lived in an area with an official stay at home order in last | 90% |
| year | |
| Stay at home order at the time of death | 22% |
| Impact of Covid | |
| Indirect impact | 35% |
| No impact | 33% |
| Unknown | 30% |

¹In order of occurrence: employment (n=7), medical care (n=5), living environment (n=4), school (n=2)

Family Support

FIMR Issues Summary by year of review*

| | 2021 (n=60 cases) | 2020 (n=52 cases) | 2019 (n=58 cases) | 2018 (n=45 cases) |
|--|--------------------------|--------------------------|--------------------------|--------------------------|
| Bereavement referral made | 63% | 58% | 60% | 64% |
| Language barriers | 12% | 4% | 12% | 13% |
| Beliefs re: pregnancy/health | 13% | 4% | 14% | 9% |
| Lack of home visiting (eligible) | 61% | 44% | 60% | 58% |
| Poor provider to patient communication | 18% | 14% | 7% | 2% |

| Lack of WIC (eligible) | 38% | 12% | 33% | 0% |
|------------------------|-----|-----|-----|----|
| Client dissatisfaction | 13% | 12% | 9% | 4% |
| Lack of grief support | 0% | 2% | 7% | 7% |

^{*}either a P (present) or C (contributing) factor

FIMR Tracking Database by year of review

| | 2021 | 2020 | 2019 | 2018 |
|--|------|------|------|------|
| Home visiting referral made when appropriate | 4% | 14% | 4% | 2% |

Fetal Kick Counts

| | 2021 | 2020 | 2019 | 2018 |
|--|------|------|------|------|
| Fetal kick counts education when appropriate | 56%¹ | 67% | 72% | 69% |

¹In addition, there were 3 out of 14 cases when delivery occurred before 23 weeks gestation, and FKC education was documented in the prenatal records, earlier than the preferred timing for providing this information.

Maternal Mortality Review

Overview of Cases

- 11 cases were reviewed in 4 meetings
- Year of death 2019-2021
- Women's ages ranged from 20-40 years old
- Family interviews were available for 5 out of the 11 cases (45%)

| Race/ethnicity | MMR 2021 | DE live births |
|---------------------|----------|-----------------|
| | (n=11) | 2019 (n=10,328) |
| White, non-Hispanic | 55% | 47% |
| Black, non-Hispanic | 36% | 28% |
| Hispanic | 0% | 17% |
| Other | 9% | 8% |

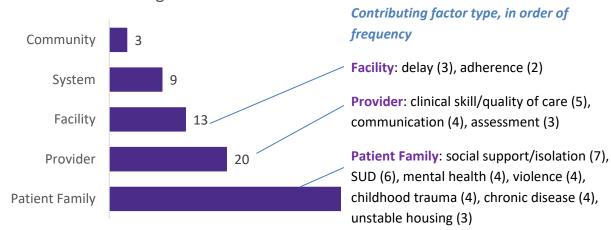
- Insurance: Medicaid (n=7), Private (n=2), Unknown (n=2)
- Pregnancy Relation for cases reviewed in 2021
 - 4 cases Pregnancy related
 - o 4 cases Pregnancy-associated but not related
 - o 3 UTD
- Timing of death:
 - o 2 pregnant
 - o 3 early postpartum, < 42 days after the end of pregnancy
 - o 6 late postpartum, 43-365 days after the end of pregnancy



Causes of death, 2021 MMR cases (n=11)

Contributing Factors (or Strengths)





- There was an average of 8 contributing factors identified per case in 2021.
- For the first time, social support/isolation was the most common Patient/Family Level factor.
- In addition, three **strengths** were identified: one each at the Patient Family, Provider, and Facility levels.