FIMR
Project Impact Update

Tracy Claveau, RN, BAN
The death of a baby before his or her first birthday.

The **infant mortality rate** is often used as an indicator to measure the health and well being of a population.
Infant Mortality Rates
Per 1000 Live Births

Source: Florida CHARTS, Division of Public Health Statistics and Performance Management, Florida Department of Health
www.floridacharts.com
Infant Mortality Rate by Race
Disparities on a local, state and national level

Source: Florida CHARTS, Division of Public Health Statistics and Performance Management, Florida Department of Health
www.floridacharts.com
Causes of Infant Death, Northeast Florida

- Prematurity/LBW: 34%
- Congenital: 6%
- Other Perinatal Conditions: 3%
- SUIDS: 3%
- Infections: 3%
- Injuries: 14%
- Other: 19%
Leading Infant Mortality Rates
Duval County, 3 Yr Discrete Rates, 2009-2017

[Map showing Duval County with regions labeled as HZ1 to HZ6 and marked with stars and numbers indicating specific areas with high infant mortality rates.]

HZ1 = Urban Core
HZ2 = Greater Arlington
HZ3 = Southeast
HZ4 = Southwest
HZ5 = Outer Rim
HZ6 = Beaches
Maternal Mortality ratio per 100,000 live births, 2013-2017

Source: Florida CHARTS, Division of Public Health Statistics and Performance Management, Florida Department of Health

www.floridacharts.com
Fetal and Infant Mortality Review

“to determine specific medical, social, financial and other issues that may have impacted the poor birth outcome”

“It’s not about finding fault, it’s about figuring out where the system failed”
THE FIMR PROCESS

THE CYCLE OF IMPROVEMENT

- Data Gathering
- Case Review
- Community Action
- Changes in Community Systems

Source: FIMR Overview for new CRT and/or CAT members, Publication of the National Fetal and Infant Mortality Review Program, ACOG, 2014.
Most SUID are reported as 1 of 3 types of infant deaths

- **Sudden Infant Death Syndrome** cannot be explained after a thorough investigation is conducted, including a complete autopsy, examination of the death scene, and a review of the clinical history.

- **Unknown Cause** The sudden death of an infant that cannot be explained because a thorough investigation was not conducted and cause of death could not be determined.

- **Accidental Suffocation and Strangulation in Bed**
  - Suffocation by soft bedding
  - Overlay.
  - Wedging
  - Strangulation
Healthy People 2020 state SDOH are conditions in people’s lives that affect a wide range of health, functioning, and quality-of-life outcomes and risks, the framework includes these 5 key areas.

[Diagram of Social Determinants of Health (SDOH) with key areas: Neighborhood and Built Environment, Health and Health Care, Social and Community Context, Education, Economic Stability]
# Case Review 1
## Sleeping Infant Death

<table>
<thead>
<tr>
<th>Neighborhood</th>
<th>Health &amp; Healthcare</th>
<th>Social &amp; Community Context</th>
<th>Education</th>
<th>Economic Stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Apartment with mold, water damage</td>
<td>• Medicaid</td>
<td>• Stable relationship</td>
<td>• MOB: HS diploma</td>
<td>• Poverty</td>
</tr>
<tr>
<td></td>
<td>• Opioid addiction both parents</td>
<td>• Family support</td>
<td>• FOB: No diploma</td>
<td>• Both parents employed,</td>
</tr>
<tr>
<td></td>
<td>• MAT-in recovery both parents</td>
<td>• Church</td>
<td>• Dyslexia</td>
<td>• MOB worked nights</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Abuse in Family</td>
<td></td>
<td>• Childcare</td>
</tr>
<tr>
<td></td>
<td></td>
<td>of Origin of both parents</td>
<td></td>
<td>• Lost job</td>
</tr>
</tbody>
</table>

www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-of-health
Case Review 1
Sleeping Infant Death

Adapted from:
Significant racial disparities exist in infant mortality related to prematurity and low birth weight babies.

In 2017 the March of Dimes report card gave Duval county an “F” grade for the number of premature infants born in the county. Over 11% of infants in Duval County are born premature.

Many do not survive, those that do may have life long challenges.
# Case Review 2
## Premature Infant Death

<table>
<thead>
<tr>
<th>Neighborhood</th>
<th>Health &amp; Healthcare</th>
<th>Social &amp; Community Context</th>
<th>Education</th>
<th>Economic Stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Crime/violence</td>
<td>• Medicaid</td>
<td>• Family Support</td>
<td>• No diploma</td>
<td>• Poverty</td>
</tr>
<tr>
<td></td>
<td>• 1st pregnancy at 16</td>
<td>• Lack of support system (other than family)</td>
<td></td>
<td>• Inadequate nutrition</td>
</tr>
<tr>
<td></td>
<td>• Partial blindness</td>
<td>• African American</td>
<td></td>
<td>• Stable Housing</td>
</tr>
<tr>
<td></td>
<td>• Polysubstance abuse</td>
<td>• Undesired pregnancy</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Undesired pregnancy</td>
<td>• Uncontrolled diabetes</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Uncontrolled diabetes</td>
<td>• Tubal ligation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-of-health
Case Review 2
Premature Infant Death

Adapted from:
Fetal Deaths by Race
(stillborn at greater than 20 weeks of pregnancy)

Source: Florida CHARTS, Division of Public Health Statistics and Performance Management, Florida Department of Health
www.floridacharts.com
# Case Review 3

## Fetal Death

<table>
<thead>
<tr>
<th>Neighborhood</th>
<th>Health &amp; Healthcare</th>
<th>Social &amp; Community Context</th>
<th>Education</th>
<th>Economic Stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Crime and violence</td>
<td>• Medicaid</td>
<td>• Family Support</td>
<td>• 8th grade education</td>
<td>• Unemployed</td>
</tr>
<tr>
<td></td>
<td>• Depression</td>
<td>• Supportive relationship</td>
<td></td>
<td>• Poverty</td>
</tr>
<tr>
<td></td>
<td>• Lack of family planning</td>
<td>• Incarceration</td>
<td></td>
<td>• Lack of transportation</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• 6 children</td>
</tr>
</tbody>
</table>

www.healthypeople.gov/2020/topics-objectives/topic/social-determinants-of-health
Case Review 3
Fetal Death

- Poverty
- Neighborhood
- Family Planning
- Transportation
- Unemployed
- Depression
- Medicaid
- Supportive Relationship
- HS Referral
- Family support
- Hx incarceration
- 8th grade education
- Multiple children

Adapted from:
Recommendations

- Educate lay persons & peers (similar to Make a Noise, Make a Difference)
- Safe Sleep
- Self Advocacy Training for participants
There is no foot too small that it cannot leave an imprint on this world.