First Year Cleveland – Advisory Council
January 22, 2019 Meeting

Data Update: Preliminary 2018 Infant Mortality & Birth Outcome Data

Presenter:
Richard Stacklin, Data Analyst
Epidemiology, Surveillance, and Informatics
Presentation Outline

- Infant Mortality Rate (IMR) trends
  - Overall
  - Black non-Hispanic
  - Hispanic
  - White non-Hispanic

- Preliminary summary of 2018 infant deaths

- Comparing preliminary 2018 to 2017
  - birth outcome and infant mortality data
    - 2017  •  2018
2014-2018 Cuyahoga County IMR by Ethnicity & Race

Per 1,000 Live Births

Overall: 14.6, 18.5, 15.0, 16.3, 14.2
Black Non-Hispanic: 8.1, 10.5, 8.7, 8.5, 8.2
Hispanic: 3.1, 5.8, 6.9, 8.1, 8.2
White Non-Hispanic: 4.6, 5.8, 4.5, 2.3, 4.0

*2018 rate in preliminary
2015-2018 Cuyahoga County
IMR by Quarter and Ethnicity & Race

Per 1,000 Live Births

Overall  Black Non-Hispanic  Hispanic  White Non-Hispanic

*2018 rate in preliminary
2014-2018 Cuyahoga County
Black-White Infant Death Disparity

Black-White Disparity Rate

2014 2015 2016 2017 2018*

*2018 rate in preliminary
2014-2018 Cuyahoga County Hispanic-White Infant Death Disparity

**Black-White Disparity Rate**

- 2014: 0.66
- 2015: 1.42
- 2016: 1.52
- 2017: 3.77
- 2018*: 2.48

*2018 rate in preliminary
2018

Preliminary Summary of Infant Deaths & Birth Outcomes
2018 Cuyahoga County IMR by Month

Overall Preliminary IMR = 8.17

*2018 rate in preliminary
2018 Number of Infant Deaths by Sex and Month

- **Jan**: Female 1, Male 6
- **Feb**: Female 5, Male 2
- **Mar**: Female 3, Male 11
- **Apr**: Female 4, Male 7
- **May**: Female 4, Male 6
- **Jun**: Female 3, Male 6
- **Jul**: Female 2, Male 3
- **Aug**: Female 3, Male 4
- **Sep**: Female 3, Male 12
- **Oct**: Female 3, Male 10
- **Nov**: Female 5, Male 5
- **Dec**: Female 3

**Total: Female = 40, Male = 73**

*2018 data in preliminary*
2018 Number of Infant Deaths by Age of Infant and Month

Total: Neonatal = 76, Postneonatal = 37

*2018 data in preliminary
2018 Cuyahoga County
IMR by Month and Ethnicity or Race

Per 1,000 Live Births

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

Overall = 8.17, Black = 14.21, White = 3.94, Hispanic = 9.77

*2018 rate in preliminary
2018 Cuyahoga County IMR by Month and Race

Overall = 8.17, Black = 14.21, White = 3.94

*2018 rate in preliminary
2018 Birth Outcome Data & Comparisons to 2017
2017 & 2018 Cuyahoga County Births by Ethnicity or Race

Hispanic: 1,057 (2017) & 1,024 (2018)

*2018 data in preliminary
Preterm Births (Less Than 37 Weeks Gestation) by Ethnicity or Race

<table>
<thead>
<tr>
<th>Ethnicity or Race</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black non-Hispanic</td>
<td>16.59%</td>
<td>14.90%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>10.04%</td>
<td>13.18%</td>
</tr>
<tr>
<td>White non-Hispanic</td>
<td>9.30%</td>
<td>9.80%</td>
</tr>
<tr>
<td>Total</td>
<td>12.17%</td>
<td>11.94%</td>
</tr>
</tbody>
</table>

Healthy People 2020 target for preterm births ≤ 9.4%.

*2018 data in preliminary*
Very Preterm Births (Less Than 32 Weeks Gestation) by Ethnicity or Race

Healthy People 2020 target for very preterm births ≤ 1.5%.

*2018 data in preliminary
Births 22 Weeks Gestation or Less by Ethnicity or Race

Number of Births

<table>
<thead>
<tr>
<th>Ethnicity</th>
<th>2017</th>
<th>2018</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black non-Hispanic</td>
<td>46</td>
<td>32</td>
<td>56</td>
</tr>
<tr>
<td>Hispanic</td>
<td>2</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>White non-Hispanic</td>
<td>6</td>
<td>12</td>
<td>18</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>56</td>
<td>49</td>
<td>105</td>
</tr>
</tbody>
</table>

*2018 data in preliminary
Comparing 2017 to 2018 – Number of Infant Deaths by Age of Infant

*2018 data in preliminary*
Summary

• 162 fewer black babies born preterm in 2018
  – 74 fewer due to decline in preterm birth rate

• 70 fewer black babies born < 32 weeks in 2018
  – 49 fewer due to decline in VPTB rate

• 18 fewer black infant deaths in 2018
  – 11 fewer due to decline in Black IMR

• Black IMR lowest in the past five years

• White IMR 2\textsuperscript{nd} lowest in past five years

• Hispanic IMR highest in past five years
QUESTIONS???