OUR MISSION:
To promote, protect, and improve the health and safety of all Hoosiers.

OUR VISION:
Every Hoosier reaches optimal health regardless of where they live, learn, work, or play.
Infant Mortality Quick Facts

- Infant Mortality is defined as the death of a baby before his/her first birthday.

- **Infant Mortality Rate** is an estimate of the number of infant deaths for every 1,000 live births.

- Infant Mortality is the #1 indicator of health status in the world.
Infant Mortality in Indiana

• 527 Hoosier babies died before their 1\textsuperscript{st} birthday in 2019:
  • Nearly 44 babies EVERY month
  • More than 10 babies EVERY week

• Over 2,900 infant lives lost in the last 5 years:
  • Nearly 41 school buses at maximum capacity
Infant Mortality Rates (IMRs)  
2010-2019

<table>
<thead>
<tr>
<th>Year</th>
<th>Indiana</th>
<th>U.S.</th>
<th>HP 2020 Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>7.5</td>
<td>6.1</td>
<td>6.0</td>
</tr>
<tr>
<td>2011</td>
<td>7.7</td>
<td>6.1</td>
<td>6.0</td>
</tr>
<tr>
<td>2012</td>
<td>6.7</td>
<td>6.0</td>
<td>6.0</td>
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<tr>
<td>2013</td>
<td>7.1</td>
<td>6.0</td>
<td>6.0</td>
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<tr>
<td>2014</td>
<td>7.1</td>
<td>5.8</td>
<td>6.0</td>
</tr>
<tr>
<td>2015</td>
<td>7.3</td>
<td>5.9</td>
<td>6.0</td>
</tr>
<tr>
<td>2016</td>
<td>7.5</td>
<td>5.9</td>
<td>6.0</td>
</tr>
<tr>
<td>2017</td>
<td>7.3</td>
<td>5.8</td>
<td>6.0</td>
</tr>
<tr>
<td>2018</td>
<td>6.8</td>
<td>5.7</td>
<td>6.0</td>
</tr>
<tr>
<td>2019</td>
<td>6.5</td>
<td>5.6</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Rate per 1,000 live births

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [December 22, 2020]
United States Original Source: Centers for Disease Control and Prevention National Center for Health Statistics
Indiana Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
Indiana IMRs by Race and Ethnicity
2010-2019

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [October 20, 2020]
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
Infant Mortality by Race and Ethnicity 2019

Rate per 1,000 live births

- Indiana: 6.5 (N = 527)
- Non-Hispanic Black: 11.0 (N = 118)
- Non-Hispanic White: 6.0 (N = 342)
- Hispanic: 6.4 (N = 54)

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [October 20, 2020]
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
# Infant Mortality by Indiana Hospital Region 2015-2019

<table>
<thead>
<tr>
<th>Region</th>
<th>Total</th>
<th>Non-Hispanic White</th>
<th>Non-Hispanic Black</th>
<th>Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central</td>
<td>6.9</td>
<td>5.6</td>
<td>11.6</td>
<td>6.6</td>
</tr>
<tr>
<td>Central Southwestern</td>
<td>7.6</td>
<td>7.5</td>
<td>9.4*</td>
<td>**</td>
</tr>
<tr>
<td>Eastern</td>
<td>7.9</td>
<td>7.2</td>
<td>15.1</td>
<td>7.1*</td>
</tr>
<tr>
<td>Midwestern</td>
<td>8.4</td>
<td>8.2</td>
<td>**</td>
<td>10.8*</td>
</tr>
<tr>
<td>Northeastern</td>
<td>6.8</td>
<td>5.8</td>
<td>14.5</td>
<td>9.2</td>
</tr>
<tr>
<td>Northern</td>
<td>8.3</td>
<td>6.7</td>
<td>16.5</td>
<td>7.7</td>
</tr>
<tr>
<td>Northwest</td>
<td>7.1</td>
<td>4.2</td>
<td>14.3</td>
<td>7.5</td>
</tr>
<tr>
<td>Southeastern</td>
<td>7.1</td>
<td>7.2</td>
<td>27.2*</td>
<td>**</td>
</tr>
<tr>
<td>Southern</td>
<td>6.7</td>
<td>6.6</td>
<td>14.3*</td>
<td>6.9*</td>
</tr>
<tr>
<td>Southwest</td>
<td>6.1</td>
<td>5.2</td>
<td>15.6</td>
<td>8.8*</td>
</tr>
<tr>
<td>Western</td>
<td>6.3</td>
<td>5.8</td>
<td>13.2*</td>
<td>7.1*</td>
</tr>
</tbody>
</table>

*Rates based on counts less than 20 are considered unstable and should be interpreted with caution.

**Rates based on counts less than 5 have been suppressed.

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [October 23, 2020]
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
Infant Mortality By Hospital Region

2019
Rate per 1,000 Live Births

2015 – 2019
Rate per 1,000 Live Births

5-Year Change
Linear Trend Line, 2015 to 2019

State: 6.8

State: 7.1

State: -0.7

Region Mean

-1.5 -1.0 -0.5 +0.5 +1.5

Standard Deviations

* Denotes unstable rate (<20 events)

Data Source: IDOH MOH, ODA DM, VR | Map Author: IDOH ODA PHB, 01.01.21
County Infant Mortality Rates Compared to the State 2015 - 2019

Highest Stable Infant Mortality Rates

Jay, 13.4  Cass, 11.3
Shelby, 10.1  Adams, 9.2
LaPorte, 8.5  Elkhart, 8.5
Delaware, 8.4  Vigo, 8.2
St. Joseph, 8.1  Marshall, 8.1

Counties with Stable Rates Achieving HP2020 Goals

Porter, 4.6  Hamilton, 5.0
Floyd, 5.2  Hendricks, 5.7
Johnson, 5.8  Monroe, 5.9

Data Source: IDOH MCH, DQA DMI, VRC | Map Author: IDOH DQA HPG, 01/01/21
County-Level Rates by Race/Ethnicity
2015 – 2019

**Stable NH Black Infant Mortality Rates**

<table>
<thead>
<tr>
<th>County</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elkhart</td>
<td>22.8</td>
</tr>
<tr>
<td>Allen</td>
<td>14.7</td>
</tr>
<tr>
<td>Lake</td>
<td>13.8</td>
</tr>
<tr>
<td>St. Joseph</td>
<td>15.5</td>
</tr>
<tr>
<td>Vanderburgh</td>
<td>14.6</td>
</tr>
<tr>
<td>Marion</td>
<td>11.9</td>
</tr>
<tr>
<td>St. Joseph</td>
<td>15.5</td>
</tr>
<tr>
<td>Elkhart</td>
<td>14.7</td>
</tr>
<tr>
<td>Vanderburgh</td>
<td>14.6</td>
</tr>
<tr>
<td>Lake</td>
<td>13.8</td>
</tr>
<tr>
<td>Marion</td>
<td>11.9</td>
</tr>
</tbody>
</table>

**Stable NH White Infant Mortality Rates**

<table>
<thead>
<tr>
<th>County</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jay</td>
<td>14.6</td>
</tr>
<tr>
<td>Allen</td>
<td>14.7</td>
</tr>
<tr>
<td>Grant</td>
<td>8.0</td>
</tr>
<tr>
<td>Elkhart</td>
<td>8.2</td>
</tr>
<tr>
<td>Lake</td>
<td>7.4</td>
</tr>
<tr>
<td>Shelby</td>
<td>10.7</td>
</tr>
<tr>
<td>Vigo</td>
<td>8.3</td>
</tr>
<tr>
<td>Clark</td>
<td>7.8</td>
</tr>
<tr>
<td>Adams</td>
<td>9.9</td>
</tr>
<tr>
<td>LaPorte</td>
<td>8.1</td>
</tr>
</tbody>
</table>

**Stable Hispanic Infant Mortality Rates**

<table>
<thead>
<tr>
<th>County</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allen</td>
<td>9.1</td>
</tr>
<tr>
<td>Lake</td>
<td>7.4</td>
</tr>
<tr>
<td>Elkhart</td>
<td>8.2</td>
</tr>
<tr>
<td>Marion</td>
<td>6.6</td>
</tr>
<tr>
<td>St. Joseph</td>
<td>15.5</td>
</tr>
<tr>
<td>Vanderburgh</td>
<td>14.6</td>
</tr>
<tr>
<td>Lake</td>
<td>13.8</td>
</tr>
<tr>
<td>Marion</td>
<td>11.9</td>
</tr>
</tbody>
</table>

*Stable rates are only shown if they are above the state average of 7.1 for 2015-2019.*

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division (October 26, 2020)

Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
## Highest Infant Mortality Rates by ZIP Code
### 2015-2019

<table>
<thead>
<tr>
<th>Zip Code</th>
<th>County</th>
<th>Births</th>
<th>Deaths</th>
<th>IMR</th>
<th>NH White IMR</th>
<th>NH Black IMR</th>
<th>Hispanic IMR</th>
</tr>
</thead>
<tbody>
<tr>
<td>46404</td>
<td>Lake</td>
<td>1096</td>
<td>21</td>
<td>19.2</td>
<td>**</td>
<td>20.0</td>
<td>**</td>
</tr>
<tr>
<td>46516</td>
<td>Elkhart</td>
<td>2952</td>
<td>39</td>
<td>13.2</td>
<td>5.9*</td>
<td>30.4*</td>
<td>12.8*</td>
</tr>
<tr>
<td>46619</td>
<td>St. Joseph</td>
<td>1620</td>
<td>21</td>
<td>13.0</td>
<td>11.2*</td>
<td>14.8*</td>
<td>13.1*</td>
</tr>
<tr>
<td>46218</td>
<td>Marion</td>
<td>2492</td>
<td>32</td>
<td>12.8</td>
<td>**</td>
<td>16.9</td>
<td>**</td>
</tr>
<tr>
<td>47302</td>
<td>Delaware</td>
<td>1599</td>
<td>20</td>
<td>12.5</td>
<td>12.0*</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>46203</td>
<td>Marion</td>
<td>2856</td>
<td>34</td>
<td>11.9</td>
<td>9.3*</td>
<td>15.2*</td>
<td>19.4*</td>
</tr>
<tr>
<td>46628</td>
<td>St. Joseph</td>
<td>2075</td>
<td>24</td>
<td>11.6</td>
<td>**</td>
<td>16.9*</td>
<td>**</td>
</tr>
<tr>
<td>46176</td>
<td>Shelby</td>
<td>1734</td>
<td>20</td>
<td>11.5</td>
<td>12.4*</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>46235</td>
<td>Marion</td>
<td>3308</td>
<td>37</td>
<td>11.2</td>
<td>9.3*</td>
<td>12.1</td>
<td>9.6*</td>
</tr>
<tr>
<td>46806</td>
<td>Allen</td>
<td>2328</td>
<td>26</td>
<td>11.2</td>
<td>9.7*</td>
<td>16.3*</td>
<td>8.3*</td>
</tr>
<tr>
<td>46312</td>
<td>Lake</td>
<td>2158</td>
<td>24</td>
<td>11.1</td>
<td>**</td>
<td>16.1*</td>
<td>8.4*</td>
</tr>
<tr>
<td>46947</td>
<td>Cass</td>
<td>1893</td>
<td>20</td>
<td>10.6</td>
<td>9.5*</td>
<td>**</td>
<td>14.6*</td>
</tr>
<tr>
<td>46260</td>
<td>Marion</td>
<td>2494</td>
<td>26</td>
<td>10.4</td>
<td>5.6*</td>
<td>17.2*</td>
<td>**</td>
</tr>
</tbody>
</table>

*Rates based on counts less than 20 are considered unstable and should be interpreted with caution.

**Rates based on counts less than 5 have been suppressed.

NH = Non-Hispanic


Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division (October 27, 2020)
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
Highest Infant Mortality Rates by ZIP Code
2015-2019

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division (January 20, 2021)
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
2019 Cause-Specific IMR by Race/Ethnicity

Infant Mortality Rates (IMRs) are per 1,000 live births.

Cause-specific IMRs may not add up to the overall IMR for each group due to rounding.

* Rates based on counts less than 20 are considered unstable and should be interpreted with caution.

NH = Non-Hispanic

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division (October 20, 2020)
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
Causes of Indiana Infant Mortality

Infant Mortality Rates (IMRs) are per 1,000 live births.

Cause-specific IMRs may not add up to the overall IMR for each year due to rounding.

The 2019 rate of perinatal risks is significantly different than the 2018 rate at the 0.05 level.

2018: 6.8
- Other: 0.7
- Assaults/Injuries: 0.2
- SUIDs: 0.9
- Congenital Anomalies: 1.6
- Perinatal Risks: 3.3

2019: 6.5
- Other: 0.8
- Assaults/Injuries: 0.3
- SUIDs: 1.2
- Congenital Anomalies: 1.6
- Perinatal Risks: 2.6

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [October 20, 2020]
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
Causes of Indiana NH Black Infant Mortality

Infant Mortality Rates (IMRs) are per 1,000 live births.

Cause-specific IMRs may not add up to the overall IMR for each year due to rounding.

* Rates based on counts less than 20 are considered unstable and should be interpreted with caution.

NH = Non-Hispanic

The 2019 rate of perinatal risks is significantly different than the 2018 rate at the 0.05 level.

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division (November 18, 2020)
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
Causes of Indiana NH White Infant Mortality

Infant Mortality Rates (IMRs) are per 1,000 live births.

Cause-specific IMRs may not add up to the overall IMR for each year due to rounding.

* Rates based on counts less than 20 are considered unstable and should be interpreted with caution.

NH = Non-Hispanic

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division (November 18, 2020)
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
Causes of Indiana Hispanic Infant Mortality

<table>
<thead>
<tr>
<th>Year</th>
<th>Other</th>
<th>Assaults/Injuries</th>
<th>SUIDs</th>
<th>Congenital Anomalies</th>
<th>Perinatal Risks</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>0.3*</td>
<td>0.4*</td>
<td>0.9*</td>
<td>1.3*</td>
<td>3.3</td>
</tr>
<tr>
<td>2019</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3.0</td>
</tr>
</tbody>
</table>

Infant Mortality Rates (IMRs) are per 1,000 live births.

Cause-specific IMRs may not add up to the overall IMR for each year due to rounding.

* Rates based on counts less than 20 are considered unstable and should be interpreted with caution.
SUIDs Rates by Cause
Indiana, 2010-2019

* Rates based on counts less than 20 are considered unstable and should be interpreted with caution.

* SUIDS = W75, R95, R99

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division (October 20, 2020)
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
SUIDs Rates by Race and Ethnicity
Indiana, 2010-2019

Rate per 100,000 live births

* Rates based on counts less than 20 are considered unstable and should be interpreted with caution.

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [October 20, 2020]
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
Sudden Unexpected Infant Deaths
By Hospital Region
2015 - 2019

Per 100,000 Live Births

Region Mean

* Denotes unstable rate (<20 events)

Data Source: IDEH MDCH, CDA DM, VR | Map Author: IDEH DDA, RHC, 01.01.21

State: 107.8
Infant Mortality by Age
58.4% of Indiana infant deaths occurred during the neonatal (0-27 days) period.

- 4.7% Over 6 Months
- 36.8% 28 Days – 6 Months
- 9.1% 8 Days – 27 Days
- 10.2% 25 Hours – 7 Days
- 39.1% Birth – 1 Day

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [October 20, 2020]
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
Causes of Infant Mortality by Age
Indiana 2019

Neonatal

- Congenital Anomalies: 31.2%
- Perinatal Risks: 63.3%
- Other: 3.6%
- SUIDs: 1.6%
- Assaults & Injuries: 0.3%

Post - Neonatal

- Perinatal Risks: 5.5%
- Congenital Anomalies: 15.2%
- SUIDs: 43.3%
- Other: 24.4%
- Assaults & Injuries: 11.5%

* Percentages based on counts less than 20 are considered unstable and should be interpreted with caution.

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division (November 24, 2020)
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
73.7% of Indiana SUIDs occurred between 1 month and 5 months.
Contributing Factors to Infant Mortality
Factors Contributing to Infant Mortality, Indiana 2019

• **Obesity**
  • Indiana is 15th (tied with Nebraska) most obese state in U.S. (34.1% of adults).
  • 33.0% of Indiana births in 2019 were to women who have obesity (additional 26.1% overweight).
  • Women who have obesity have an increased risk of preterm birth (11.2% of Indiana births to women who have obesity were preterm compared to 8.9% of births to women in normal BMI range).

• **Smoking**
  • 11.8% of mothers smoke during pregnancy.
  • 21.1% of mothers on Medicaid smoke (6.0% of mothers not on Medicaid smoke).

• **Limited Prenatal Care**
  • Only 68.9% of mothers receive prenatal care during the 1st trimester.

• **Unsafe Sleep Practices**
  • 18.9% of infant deaths in 2019 can be attributed to SUIDs.

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division (November 24, 2020)
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
Self-Reported Demographics of Mothers, Indiana 2019

- **Average Age** = 28.0 years (Range: 13 - 58)
- **Education**
  - 15.0% of mothers have less than a high school diploma.
  - 29.7% of mothers have a high school diploma or GED.
  - 19.0% of mothers have some college education, but no degree.
  - 36.1% of mothers have an associate’s degree or higher.
- **Income** – 38.5% of births to women on Medicaid (Medicaid reports ~44.4%).
- **Marital Status** – 55.5% of mothers were married.
- **First-time mothers** = 36.3% of births

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [January 6, 2021]
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
Births to Mothers on Medicaid

2019
Percent of Live Births

2015 – 2019
Percent of Live Births

5-Year Change
Linear Trend Line, 2015 to 2019

Only stable county percentages are labeled (>=20 events). Counties with less than 5 events are suppressed.

Data Source: IDPH MDCH, D3A 2016, VR | Map Author: IDPH GIS Div, 01/01/17
Age-Specific Birth Rates for Teen Mothers, Indiana and U.S., 2010-2019

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [November 16, 2020]
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team

National 2019 data not yet available.
Teen Births - Mothers Aged 15 to 19

2019
Rate per 1,000 Live Births

2015 – 2019
Rate per 1,000 Live Births

5-Year Change
Linear Trend Line, 2015 to 2019

Only stable county percentages are labeled (>=20 events). Counties with less than 5 events are suppressed.

Data Source: IDOH MDH, DHAS HHS, VR | Map Author: IDOH MDH, HHS, 07/04/21
Birth Outcomes
## Indiana Birth Outcomes

<table>
<thead>
<tr>
<th>Category</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preterm (&lt; 37 weeks gestation)</td>
<td>10.2%</td>
<td>10.1%</td>
</tr>
<tr>
<td>Low Birthweight (&lt; 2500 g)</td>
<td>8.1%</td>
<td>8.2%</td>
</tr>
<tr>
<td>Very Low Birthweight (&lt; 1500 g)</td>
<td>1.4%</td>
<td>1.3%</td>
</tr>
<tr>
<td>Not Breastfeeding (at discharge)</td>
<td>18.1%</td>
<td>18.0%</td>
</tr>
<tr>
<td>No Early Prenatal Care (1&lt;sup&gt;st&lt;/sup&gt; Trimester)</td>
<td>31.9%</td>
<td>31.1%</td>
</tr>
<tr>
<td>Smoking during Pregnancy</td>
<td>11.5%</td>
<td>11.8%</td>
</tr>
<tr>
<td>Mothers on Medicaid</td>
<td>39.2%</td>
<td>38.5%</td>
</tr>
<tr>
<td>Teen Pregnancy</td>
<td>5.9%</td>
<td>5.7%</td>
</tr>
</tbody>
</table>

2019 percentages are significantly different than 2018 at 0.05 level.

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [October 20, 2020]
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
### 2019 Birth Outcomes by Race/Ethnicity

<table>
<thead>
<tr>
<th>Outcome</th>
<th>Indiana</th>
<th>Non-Hispanic Black</th>
<th>Non-Hispanic White</th>
<th>Hispanic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preterm (&lt; 37 weeks gestation)</td>
<td>10.1%</td>
<td>13.0%</td>
<td>9.4%</td>
<td>9.8%</td>
</tr>
<tr>
<td>Low Birthweight (&lt; 2500 g)</td>
<td>8.2%</td>
<td>13.3%</td>
<td>7.1%</td>
<td>7.3%</td>
</tr>
<tr>
<td>Very Low Birthweight (&lt; 1500 g)</td>
<td>1.3%</td>
<td>2.4%</td>
<td>1.1%</td>
<td>1.2%</td>
</tr>
<tr>
<td>Not Breastfeeding (at discharge)</td>
<td>18.0%</td>
<td>26.1%</td>
<td>16.8%</td>
<td>15.2%</td>
</tr>
<tr>
<td>No Early Prenatal Care (1st Trimester)</td>
<td>31.1%</td>
<td>45.0%</td>
<td>26.3%</td>
<td>44.9%</td>
</tr>
<tr>
<td>Smoking during Pregnancy</td>
<td>11.8%</td>
<td>9.0%</td>
<td>14.1%</td>
<td>3.2%</td>
</tr>
<tr>
<td>Mothers on Medicaid</td>
<td>38.5%</td>
<td>62.8%</td>
<td>30.8%</td>
<td>63.4%</td>
</tr>
<tr>
<td>Teen Pregnancy</td>
<td>5.7%</td>
<td>8.6%</td>
<td>5.0%</td>
<td>8.8%</td>
</tr>
</tbody>
</table>

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division (October 26, 2020)
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
% Low Birthweight (< 2,500 grams)
Indiana, U.S. and Healthy People 2020 Goal, 2010-2019

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [November 10, 2020]
United States Original: Centers for Disease Control and Prevention National Center for Health Statistics
Indiana Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team

*National data not yet available.
% Low Birthweight (< 2,500 grams)
Indiana by Race and Ethnicity, 2010-2019

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [November 10, 2020]
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
Low Birth Weight Births

2019
Percent of Live Births

2015 – 2019
Percent of Live Births

5-Year Change
Linear Trend Line, 2015 to 2019

Only stable county percentages are labeled (>=20 events). Counties with less than 5 events are suppressed.
% Very Low Birthweight (< 1,500 grams)  
Indiana, U.S. and Healthy People 2020 Goal, 2010-2019


United States 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4
Indiana 1.4 1.5 1.3 1.4 1.4 1.5 1.5 1.4 1.4 1.3
Healthy People 2020 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4

*National data not yet available.

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [November 10, 2020]  
United States Original: Centers for Disease Control and Prevention National Center for Health Statistics  
Indiana Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
% Very Low Birthweight (< 1,500 grams) 
Indiana by Race and Ethnicity, 2010-2019

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division (November 10, 2020)
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
Very Low Birth Weight Births

2019
Percent of Live Births

2015 – 2019
Percent of Live Births

5-Year Change
Linear Trend Line, 2015 to 2019

Only stable county percentages are labeled (≥20 events). Counties with less than 5 events are suppressed.

Data Source: CDC NCHS, CDC Data, NH
Map Author: CDC NCHS, 01/11/11
% Preterm (Obstetric Estimate < 37 weeks)
Indiana and U.S., 2010-2019

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [December 21, 2020]
United States Original: Centers for Disease Control and Prevention National Center for Health Statistics
Indiana Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
% Preterm (Obstetric Estimate < 37 weeks)  
Indiana by Race and Ethnicity, 2010-2019

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [November 10, 2020]

Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
Preterm Births

2019
Percent of Live Births

2015 – 2019
Percent of Live Births

5-Year Change
Linear Trend Line, 2015 to 2019

State: 10.1%
State: 10.0%
State: 0.5%

Only stable county percentages are labeled (>=20 events). Counties with less than 5 events are suppressed.

Data Source: INDH MCH, CSHTC, VA | Map Author: INDH MCH, 01/01/19
Low Birthweight and Preterm by BMI, Indiana 2019

Low Birthweight = < 2,500 grams     Preterm = Gestation < 37 weeks

- Low Birthweight: 5.3% Underweight, 37.3% Normal, 23.1% Overweight, 2.8% Obese
- Not Low Birthweight: 2.8% Underweight, 38.0% Normal, 26.4% Overweight, 34.3% Obese
- Preterm: 3.6% Underweight, 34.5% Normal, 24.1% Overweight, 32.5% Obese
- Not Preterm: 2.9% Underweight, 38.3% Normal, 26.4% Overweight, 32.5% Obese

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division (November 24, 2020)
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
% Women Smoking During Pregnancy
Indiana, U.S. and Healthy People 2020 Goal, 2010-2019

United States
- 2010: 9.2%
- 2011: 8.9%
- 2012: 8.7%
- 2013: 8.5%
- 2014: 8.4%
- 2015: 7.8%
- 2016: 7.2%
- 2017: 6.9%
- 2018: 6.5%
- 2019: *%

Indiana
- 2010: 17.1%
- 2011: 16.6%
- 2012: 16.5%
- 2013: 15.7%
- 2014: 15.1%
- 2015: 14.3%
- 2016: 13.5%
- 2017: 13.5%
- 2018: 11.5%
- 2019: 11.8%

Healthy People 2020
- 2010-2019: 1.4%

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [November 5, 2020]
United States Original: Centers for Disease Control and Prevention National Center for Health Statistics
Indiana Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team

*National data not yet available.
Low Birthweight and Preterm by Smoking Status, Indiana 2019

Low Birthweight = < 2,500 grams  Preterm = Gestation < 37 weeks

<table>
<thead>
<tr>
<th>Smoking Status During Pregnancy</th>
<th>Low Birthweight</th>
<th>Not Low Birthweight</th>
<th>Preterm</th>
<th>Not Preterm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Smoking</td>
<td>80.3%</td>
<td>88.9%</td>
<td>84.7%</td>
<td>88.6%</td>
</tr>
<tr>
<td>Smoking</td>
<td>19.7%</td>
<td>11.1%</td>
<td>15.3%</td>
<td>11.4%</td>
</tr>
</tbody>
</table>

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division (November 24, 2020)
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
% Women Receiving PNC 1st Trimester
Indiana, U.S. and Healthy People 2020, 2010-2019

<table>
<thead>
<tr>
<th>Year</th>
<th>United States</th>
<th>Indiana</th>
<th>Healthy People 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>73.1</td>
<td>68.5</td>
<td>84.8</td>
</tr>
<tr>
<td>2011</td>
<td>73.7</td>
<td>68.1</td>
<td>84.8</td>
</tr>
<tr>
<td>2012</td>
<td>74.1</td>
<td>68.4</td>
<td>84.8</td>
</tr>
<tr>
<td>2013</td>
<td>74.2</td>
<td>67.4</td>
<td>84.8</td>
</tr>
<tr>
<td>2014</td>
<td>76.7</td>
<td>67.5</td>
<td>84.8</td>
</tr>
<tr>
<td>2015</td>
<td>77.0</td>
<td>69.3</td>
<td>84.8</td>
</tr>
<tr>
<td>2016</td>
<td>77.1</td>
<td>69.3</td>
<td>84.8</td>
</tr>
<tr>
<td>2017</td>
<td>77.3</td>
<td>68.6</td>
<td>84.8</td>
</tr>
<tr>
<td>2018</td>
<td>77.5</td>
<td>68.1</td>
<td>84.8</td>
</tr>
<tr>
<td>2019</td>
<td>77.6</td>
<td>68.9</td>
<td>84.8</td>
</tr>
</tbody>
</table>

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [November 5, 2020]  
United States Original: Centers for Disease Control and Prevention National Center for Health Statistics  
Indiana Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
% Women Receiving PNC 1st Trimester
Indiana by Race and Ethnicity, 2010-2019

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [November 5, 2020]
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team

PNC = Prenatal Care
Prenatal Care in First Trimester

2019
Percent of Live Births

2015 – 2019
Percent of Live Births

5-Year Change
Linear Trend Line, 2015 to 2019

Only stable county percentages are labeled (≥20 events). Counties with less than 5 events are suppressed.

Data Source: IDH-MCH, OSAs MCH, VH | Map Author: IDH OIA PHIS, 01.01.21
1st Trimester PNC by Insurance Type, Indiana 2019

<table>
<thead>
<tr>
<th>Insurance Type</th>
<th>% of Births to Mothers Receiving Early PNC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private</td>
<td>81.0</td>
</tr>
<tr>
<td>Indian Health Service</td>
<td>73.7*</td>
</tr>
<tr>
<td>Champus/TriCare</td>
<td>69.3</td>
</tr>
<tr>
<td>Other Government</td>
<td>65.9</td>
</tr>
<tr>
<td>Other</td>
<td>60.1</td>
</tr>
<tr>
<td>Medicaid</td>
<td>56.8</td>
</tr>
<tr>
<td>Unknown</td>
<td>47.4</td>
</tr>
<tr>
<td>Self-Pay</td>
<td>39.7</td>
</tr>
</tbody>
</table>

Healthy People 2020 Goal, 84.8

* Rates based on counts less than 20 are considered unstable and should be interpreted with caution.

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division (November 18, 2020)
Low Birthweight and Preterm by Prenatal Care, Indiana 2019

- **Early Prenatal Care**
  - Low Birthweight: 63.8%
  - Not Low Birthweight: 31.3%
  - Preterm: 4.5%
  - Not Preterm: 29.5%

- **Late Prenatal Care**
  - Low Birthweight: 69.3%
  - Not Low Birthweight: 29.1%
  - Preterm: 27.6%
  - Not Preterm: 29.5%

- **No Prenatal Care**
  - Low Birthweight: 0.0%
  - Not Low Birthweight: 0.0%
  - Preterm: 4.5%
  - Not Preterm: 1.1%

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division (November 10, 2020)
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
Low Birthweight and Preterm by Insurance, Indiana 2019

Low Birthweight = < 2,500 grams     Preterm = Gestation < 37 weeks

Low Birthweight
- Other Insurance: 49.7%
- Medicaid: 45.8%
- Self-Pay: 4.2%

Not Low Birthweight
- Other Insurance: 56.6%
- Medicaid: 37.8%
- Self-Pay: 5.4%

Preterm
- Other Insurance: 54.0%
- Medicaid: 41.8%
- Self-Pay: 4.0%

Not Preterm
- Other Insurance: 56.3%
- Medicaid: 38.1%
- Self-Pay: 5.4%
## % Infants Breastfed at Hospital Discharge  
Indiana, U.S. and Healthy People 2020, 2010-2019

**Percent of all live births**

<table>
<thead>
<tr>
<th>Year</th>
<th>United States</th>
<th>Indiana</th>
<th>Healthy People 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td><strong>75.8</strong></td>
<td>72.1</td>
<td>81.9</td>
</tr>
<tr>
<td>2011</td>
<td>75.8</td>
<td>74.0</td>
<td>81.9</td>
</tr>
<tr>
<td>2012</td>
<td>77.5</td>
<td>75.6</td>
<td>81.9</td>
</tr>
<tr>
<td>2013</td>
<td>78.8</td>
<td>77.3</td>
<td>81.9</td>
</tr>
<tr>
<td>2014</td>
<td>81.0</td>
<td>79.3</td>
<td>81.9</td>
</tr>
<tr>
<td>2015</td>
<td>82.1</td>
<td>80.5</td>
<td>81.9</td>
</tr>
<tr>
<td>2016</td>
<td>83.1</td>
<td>80.9</td>
<td>81.9</td>
</tr>
<tr>
<td>2017</td>
<td>83.4</td>
<td>81.9</td>
<td>81.9</td>
</tr>
<tr>
<td>2018</td>
<td>83.5</td>
<td>81.9</td>
<td>81.9</td>
</tr>
<tr>
<td>2019</td>
<td><strong>83.5</strong></td>
<td>82.0</td>
<td>81.9</td>
</tr>
</tbody>
</table>

**National data for breastfeeding not reported due limited state adoption.**

**National data not yet available.**

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [November 5, 2020]  
United States Original: Centers for Disease Control and Prevention National Center for Health Statistics  
Indiana Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
% Infants Breastfed at Hospital Discharge
Indiana by Race and Ethnicity, 2010-2019

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [November 5, 2020]
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
Summary

- **527 infants** in Indiana died before their first birthday.
- Nearly 20% of infant deaths can be attributed to **SUIDs**.
- Much **higher percentage** of women **smoking** during pregnancy when compared to the nation.
- **Lower** percentages of women **receiving early prenatal care** when compared to the U.S.
- **Large disparities** in all indicators make prevention efforts complex.

Source: Indiana Department of Health, Maternal & Child Health Epidemiology Division [November 2, 2020]
Original Source: Indiana Department of Health, Vital Records, ODA, Data Analysis Team
Questions?

Division of Maternal and Child Health

Indiana Department of Health

ISDHMCH@isdh.in.gov