**Michigan**

**OVERALL RANK: 29**

**Strengths:**
- Low percentage of uninsured women
- High prevalence of well-baby visits
- High immunization coverage among adolescents

**Challenges:**
- High drug death rate among women
- High prevalence of household smoke
- Low percentage of high school graduation

**State Health Department Website:** michigan.gov/mdhhs

**SUMMARY**

<table>
<thead>
<tr>
<th>Behaviors</th>
<th>Rating</th>
<th>State Rank</th>
<th>Least Healthy State</th>
<th>State Score</th>
<th>US Score</th>
<th>Most Healthy State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Women</td>
<td>++</td>
<td>39</td>
<td>39</td>
<td>++</td>
<td>++</td>
<td>++</td>
</tr>
<tr>
<td>Infants</td>
<td>+</td>
<td>42</td>
<td>42</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>Children</td>
<td>++</td>
<td>32</td>
<td>32</td>
<td>++</td>
<td>+</td>
<td>++</td>
</tr>
<tr>
<td>Total</td>
<td>++</td>
<td>41</td>
<td>41</td>
<td>++</td>
<td>++</td>
<td>++</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Community &amp; Environment</th>
<th>Rating</th>
<th>State Rank</th>
<th>Least Healthy State</th>
<th>State Score</th>
<th>US Score</th>
<th>Most Healthy State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Women</td>
<td>+++</td>
<td>28</td>
<td>28</td>
<td>+++</td>
<td>+++</td>
<td>+++</td>
</tr>
<tr>
<td>Infants</td>
<td>++</td>
<td>40</td>
<td>40</td>
<td>++</td>
<td>++</td>
<td>++</td>
</tr>
<tr>
<td>Children</td>
<td>+++</td>
<td>29</td>
<td>29</td>
<td>+++</td>
<td>+++</td>
<td>+++</td>
</tr>
<tr>
<td>Total</td>
<td>++</td>
<td>31</td>
<td>31</td>
<td>++</td>
<td>++</td>
<td>++</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Policy</th>
<th>Rating</th>
<th>State Rank</th>
<th>Least Healthy State</th>
<th>State Score</th>
<th>US Score</th>
<th>Most Healthy State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Women</td>
<td>+++</td>
<td>25</td>
<td>25</td>
<td>+++</td>
<td>+++</td>
<td>+++</td>
</tr>
<tr>
<td>Infants</td>
<td>+++</td>
<td>23</td>
<td>23</td>
<td>+++</td>
<td>+++</td>
<td>+++</td>
</tr>
<tr>
<td>Children</td>
<td>+++++</td>
<td>8</td>
<td>8</td>
<td>+++</td>
<td>+++</td>
<td>+++</td>
</tr>
<tr>
<td>Total</td>
<td>+++</td>
<td>16</td>
<td>16</td>
<td>+++</td>
<td>+++</td>
<td>+++</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Clinical Care</th>
<th>Rating</th>
<th>State Rank</th>
<th>Least Healthy State</th>
<th>State Score</th>
<th>US Score</th>
<th>Most Healthy State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Women</td>
<td>++++</td>
<td>17</td>
<td>17</td>
<td>+++</td>
<td>+++</td>
<td>+++</td>
</tr>
<tr>
<td>Infants</td>
<td>++++</td>
<td>17</td>
<td>17</td>
<td>+++</td>
<td>+++</td>
<td>+++</td>
</tr>
<tr>
<td>Children</td>
<td>++++</td>
<td>10</td>
<td>10</td>
<td>+++</td>
<td>+++</td>
<td>+++</td>
</tr>
<tr>
<td>Total</td>
<td>++++</td>
<td>12</td>
<td>12</td>
<td>+++</td>
<td>+++</td>
<td>+++</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>Rating</th>
<th>State Rank</th>
<th>Least Healthy State</th>
<th>State Score</th>
<th>US Score</th>
<th>Most Healthy State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Women</td>
<td>++</td>
<td>32</td>
<td>32</td>
<td>++</td>
<td>++</td>
<td>++</td>
</tr>
<tr>
<td>Infants</td>
<td>++</td>
<td>35</td>
<td>35</td>
<td>++</td>
<td>++</td>
<td>++</td>
</tr>
<tr>
<td>Children</td>
<td>+++</td>
<td>27</td>
<td>27</td>
<td>+++</td>
<td>+++</td>
<td>+++</td>
</tr>
<tr>
<td>Total</td>
<td>++</td>
<td>34</td>
<td>34</td>
<td>++</td>
<td>++</td>
<td>++</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Overall</th>
<th>Rating</th>
<th>State Rank</th>
<th>Least Healthy State</th>
<th>State Score</th>
<th>US Score</th>
<th>Most Healthy State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Women</td>
<td>++</td>
<td>31</td>
<td>31</td>
<td>++</td>
<td>++</td>
<td>++</td>
</tr>
<tr>
<td>Infants</td>
<td>++</td>
<td>36</td>
<td>36</td>
<td>++</td>
<td>++</td>
<td>++</td>
</tr>
<tr>
<td>Children</td>
<td>+++</td>
<td>22</td>
<td>22</td>
<td>+++</td>
<td>+++</td>
<td>+++</td>
</tr>
<tr>
<td>Total</td>
<td>+++</td>
<td>29</td>
<td>29</td>
<td>+++</td>
<td>+++</td>
<td>+++</td>
</tr>
</tbody>
</table>

**Highlights:**
- In the past year, HPV immunization among males ages 13-17 increased 40% from 34.6% to 48.5%
- In the past year, HPV immunization among females ages 13-17 increased 9% from 55.4% to 60.4%
- In the past year, substance use disorder among youth decreased 19% from 4.8% to 3.9%
- In the past three years, drug deaths increased 45% from 16.3 to 23.6 deaths per 100,000 females ages 15-44
- In the past three years, tobacco use among youth ages 12-17 decreased 33% from 8.2% to 5.5%
- In the past three years, teen suicide increased 20% from 10.3 to 12.4 deaths per 100,000 adolescents ages 15-19
### MICHIGAN

#### WOMEN

<table>
<thead>
<tr>
<th>Behaviors</th>
<th>Rating</th>
<th>2019 Value</th>
<th>2019 Rank</th>
<th>No. 1 State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlamydia (cases per 100,000 ages 15–44)</td>
<td>++++</td>
<td>163.6</td>
<td>28</td>
<td>906.1</td>
</tr>
<tr>
<td>Excessive Drinking (% ages 18–44)</td>
<td>++</td>
<td>22.4</td>
<td>38</td>
<td>12.2</td>
</tr>
<tr>
<td>Obesity (% ages 18–44)</td>
<td>++</td>
<td>30.5</td>
<td>34</td>
<td>18.5</td>
</tr>
<tr>
<td>Physical Inactivity (% ages 18–44)</td>
<td>++</td>
<td>23.0</td>
<td>31</td>
<td>12.4</td>
</tr>
<tr>
<td>Smoking (% ages 18–44)</td>
<td>++</td>
<td>19.7</td>
<td>35</td>
<td>7.4</td>
</tr>
</tbody>
</table>

#### Community & Environment

| Concentrated Disadvantage (% of households) | ++ | 22.5 | 31 | 2.5 |
| Food insecurity (% of households) | ++ | 13.6 | 37 | 7.4 |
| Intimate Partner Violence—Lifetime (% ages 18+) | ++++ | 36.1 | 21 | 278 |
| Intimate Partner Violence—Pregnancy (% with a recent live birth) | * | 2.0 | * | 0.8 |

#### Policy

| Postpartum Visit (% with a recent live birth) | * | 91.3 | * | 95.1 |
| Publicly-Funded Women’s Health Services (% of need met) | + | 16 | 44 | 63 |
| Uninsured (% ages 19–44) | ++++ | 6.7 | 5 | 3.3 |

#### Clinical Care

| Cervical Cancer Screening (% ages 21–44) | ++ | 80.0 | 31 | 85.8 |
| Dedicated Health Care Provider (% ages 18–44) | ++++ | 82.7 | 6 | 87.5 |
| Dental Visit (% ages 18–44) | +++ | 71.3 | 13 | 78.9 |
| Flu Vaccination (% ages 18–44) | ++ | 32.2 | 36 | 48.7 |
| Well-Woman Visit (% ages 18–44) | ++++ | 68.6 | 17 | 78.5 |

#### Outcomes

| Diabetes (% ages 18–44) | ++++ | 2.7 | 19 | 1.7 |
| Drug Deaths (deaths per 100,000 ages 15–44) | + | 23.6 | 42 | 5.3 |
| Maternal Mortality (deaths per 100,000 live births) | ++++ | 276 | 30 | 12.4 |
| Postpartum Depression (% with a recent live birth) | * | 12.9 | * | 7.4 |
| Unintended Pregnancy (% with a recent live birth) | * | 30.2 | * | 19.8 |

#### INFANTS

<table>
<thead>
<tr>
<th>Behaviors</th>
<th>Rating</th>
<th>2019 Value</th>
<th>2019 Rank</th>
<th>No. 1 State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breastfed (% of infants)</td>
<td>++</td>
<td>23.9</td>
<td>33</td>
<td>42.1</td>
</tr>
<tr>
<td>Drinking Before Pregnancy (% with a recent live birth)</td>
<td>*</td>
<td>62.5</td>
<td>*</td>
<td>25.8</td>
</tr>
<tr>
<td>Sleep Position (% with a recent live birth)</td>
<td>*</td>
<td>83.3</td>
<td>*</td>
<td>97.5</td>
</tr>
<tr>
<td>Tobacco Use During Pregnancy (% of live births)</td>
<td>++</td>
<td>11.3</td>
<td>35</td>
<td>1.4</td>
</tr>
</tbody>
</table>

#### Community & Environment

| Household Smoke (% ages 0–17) | ++ | 19.7 | 40 | 71 |
| Infant Child Care Cost (% of married couple’s median income) | ++++ | 12.3 | 28 | 73 |

#### Policy

| Baby-Friendly Facility (% of live births) | ++++ | 30.3 | 16 | 88.1 |
| mPINC (Maternity Practices in Infant and Nutrition Care survey score) | +++ | 78 | 27 | 96 |

#### Clinical Care

| Low-Risk Cesarean Delivery (% of singleton, term, vertex, first births) | ++ | 26.6 | 34 | 17.7 |
| Prenatal Care Before Third Trimester (% of live births) | ++++ | 95.1 | 16 | 98.3 |
| Well-Baby Check (% ages 0–2) | ++++ | 85.1 | 14 | 90.7 |

#### Outcomes

| Infant Mortality (deaths per 1,000 live births) | ++ | 6.5 | 33 | 3.9 |
| Low Birthweight (% of live births) | ++ | 8.8 | 34 | 6.2 |
| Neonatal Mortality (deaths per 1,000 live births) | ++ | 4.4 | 35 | 2.6 |
| Preterm Birth (% of live births) | ++++ | 10.2 | 29 | 7.5 |

#### CHILDREN

<table>
<thead>
<tr>
<th>Behaviors</th>
<th>Rating</th>
<th>2019 Value</th>
<th>2019 Rank</th>
<th>No. 1 State</th>
</tr>
</thead>
<tbody>
<tr>
<td>High School Graduation (% of students)</td>
<td>+</td>
<td>80.2</td>
<td>42</td>
<td>91.0</td>
</tr>
<tr>
<td>Overweight or Obesity (% ages 10–17)</td>
<td>++</td>
<td>32.5</td>
<td>39</td>
<td>21.9</td>
</tr>
<tr>
<td>Substance Use Disorder (% ages 12–17)</td>
<td>++++</td>
<td>3.9</td>
<td>13</td>
<td>3.2</td>
</tr>
<tr>
<td>Tobacco Use (% ages 12–17)</td>
<td>++++</td>
<td>5.5</td>
<td>23</td>
<td>3.4</td>
</tr>
</tbody>
</table>

#### Community & Environment

| Adverse Childhood Experiences (% ages 0–17) | ++++ | 22.0 | 28 | 14.8 |
| Neighborhood Amenities (% ages 0–17) | ++++ | 376 | 18 | 59.2 |
| Protective Family Routines and Habits (% ages 0–17) | ++++ | 12.5 | 27 | 21.9 |
| Supportive Neighborhoods (% ages 0–17) | +++ | 58.0 | 27 | 71.0 |

#### Policy

| Adequate Health Insurance (% of insured ages 0–17) | ++++ | 74.0 | 29 | 82.9 |
| Children With Health Insurance (% ages 0–17) | ++++ | 95.8 | 17 | 98.4 |
| Homeless Family Households (number per 10,000) | ++++ | 3.8 | 19 | 1.4 |
| Water Fluoridation (% served) | ++++ | 91.7 | 13 | 99.9 |

#### Clinical Care

| Adolescent Well-Visit (% ages 12–17) | ++++ | 81.3 | 15 | 90.9 |
| Developmental Screening (% ages 9 months–5 years) | ++++ | 33.2 | 25 | 60.0 |
| Immunizations—Adolescents (mean z score) | ++++ | 0.908 | 5 | 1.518 |
| HPV Female (% ages 13–17) | ++++ | 60.4 | 14 | 76.8 |
| HPV Male (% ages 13–17) | ++++ | 48.5 | 19 | 78.4 |
| Meningococcal (% ages 13–17) | ++++ | 93.5 | 5 | 95.3 |
| Tdap (% ages 13–17) | ++++ | 93.4 | 6 | 96.2 |
| Immunizations—Children (% ages 19–35 months) | ++++ | 69.9 | 29 | 82.1 |
| Medical Home for Child With Special Health Care Needs (% ages 0–17) | ++++ | 49.9 | 9 | 57.0 |

#### Outcomes

| Child Mortality (deaths per 100,000 ages 1–19) | ++++ | 27.4 | 28 | 16.3 |
| Missed School Days (% ages 6–17) | + | 4.3 | 36 | 1.8 |
| Teen Births (births per 1,000 ages 15–19) | ++++ | 16.4 | 21 | 81 |
| Teen Suicide (deaths per 100,000 ages 15–19) | ++++ | 12.4 | 25 | 4.9 |

* Measure not included in ranking calculation due to missing data in several states

NA = Data unavailable

To explore supplemental measures, visit www.AmericasHealthRankings.org