COVID-19 UPDATE

06.17.20

STAY HOME.
STAY SAFE. SAVE LIVES.
MICHIGAN.GOV/Coronavirus
Imperial College Report: Effect of Michigan’s social distancing

- Business, restaurant, and school closure
- March
- Stay Home, Stay Safe
- ~7 days after Stay Home, Stay Safe
- Infection rates updated from prior press release based on Rt updates in Imperial College source data (previous version sourced from initial published paper), rates published on Imperial College’s website may change as new information emerges. SOURCE: Imperial College Report 23. State-level tracking of COVID-19 in the United States, MDSS Cases by Onset Date.

How many people does each new case infect?

Michigan maintained low rate throughout May
What would have happened without social distancing?

Daily new cases per million, Michigan

Daily new cases at peak would have been ~2.7 times higher than Michigan actually saw.

Without intervention, Michigan might have experienced 28K more positive cases before June 1.

Uncertainty: top 10% of simulations. Statistics on righthand side represent median metrics.
British study: Whitmer stay-home orders saved lives, perhaps tens of thousands
# State-by-state comparison

<table>
<thead>
<tr>
<th>STATE</th>
<th>14-DAY CHANGE IN COVID+</th>
<th>TOTAL COVID+</th>
<th>LAST 30 DAYS OF COVID+ (ROLLING)</th>
<th>RT RANGE (90% CI)</th>
<th>DOUBLING TIME (DAYS)</th>
<th>LAST 14 DAYS OF DEATHS (ROLLING)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michigan</td>
<td>-52%</td>
<td>66,054</td>
<td>749 6/1 140</td>
<td>0.7 - 1.0</td>
<td>324</td>
<td>24 11</td>
</tr>
<tr>
<td>Wisconsin</td>
<td>-38%</td>
<td>22,758</td>
<td>332 Re-open 5/13 271</td>
<td>0.8 - 1.0</td>
<td>56</td>
<td>13 7</td>
</tr>
<tr>
<td>Indiana</td>
<td>-11%</td>
<td>39,909</td>
<td>522 Re-open 5/4 401</td>
<td>0.8 - 1.1</td>
<td>67</td>
<td>28 17</td>
</tr>
<tr>
<td>Illinois</td>
<td>-51%</td>
<td>133,404</td>
<td>2.4k 5/29 677</td>
<td>0.8 - 0.9</td>
<td>135</td>
<td>86 58</td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>-48%</td>
<td>78,798</td>
<td>803 6/4 365</td>
<td>0.8 - 1.0</td>
<td>148</td>
<td>74 41</td>
</tr>
<tr>
<td>Ohio</td>
<td>-18%</td>
<td>41,148</td>
<td>549 5/16 391 5/29 391</td>
<td>0.8 - 1.0</td>
<td>71</td>
<td>37 24</td>
</tr>
</tbody>
</table>

**SOURCE:** covidexitstrategy.org; COVID+ means COVID cases, but could vary based on state reporting whether it includes probable cases or not. Michigan cases include probable cases. Re-open dates gathered from New York Times (refer to Stay-At-Home lifted)
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<tr>
<td>Texas</td>
<td>35%</td>
<td>87,854</td>
<td><img src="image" alt="Graph" /></td>
<td>0.9 - 1.1</td>
<td>30</td>
<td><img src="image" alt="Graph" /></td>
</tr>
<tr>
<td>Alabama</td>
<td>65%</td>
<td>25,615</td>
<td><img src="image" alt="Graph" /></td>
<td>0.9 - 1.1</td>
<td>21</td>
<td><img src="image" alt="Graph" /></td>
</tr>
<tr>
<td>Washington</td>
<td>55%</td>
<td>25,538</td>
<td><img src="image" alt="Graph" /></td>
<td>0.9 - 1.2</td>
<td>57</td>
<td><img src="image" alt="Graph" /></td>
</tr>
<tr>
<td>Arizona</td>
<td>102%</td>
<td>35,691</td>
<td><img src="image" alt="Graph" /></td>
<td>1.0 - 1.3</td>
<td>17</td>
<td><img src="image" alt="Graph" /></td>
</tr>
<tr>
<td>Oregon</td>
<td>94%</td>
<td>5,377</td>
<td><img src="image" alt="Graph" /></td>
<td>0.7 - 1.4</td>
<td>36</td>
<td><img src="image" alt="Graph" /></td>
</tr>
<tr>
<td>Georgia</td>
<td>32%</td>
<td>57,681</td>
<td><img src="image" alt="Graph" /></td>
<td>0.7 - 1.1</td>
<td>45</td>
<td><img src="image" alt="Graph" /></td>
</tr>
<tr>
<td>Florida</td>
<td>139%</td>
<td>75,568</td>
<td><img src="image" alt="Graph" /></td>
<td>0.9 - 1.1</td>
<td>28</td>
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COVID-19 Carrier (without mask) → Healthy Person (with mask) 70% possibility of transmission

COVID-19 Carrier (with mask) → Healthy Person (without mask) 5% possibility of transmission

COVID-19 Carrier (with mask) → COVID-19 Carrier (with mask) 1.5% possibility of transmission

COVID-19 Carrier (with mask) → COVID-19 Carrier (with mask) 1.5% possibility of transmission

40% of transmissions happen BEFORE symptoms. You wear a mask to protect others; they wear a mask to protect you. WE, not ME.
If 80% of Americans Wore Masks, COVID-19 Infections Would Plummet, New Study Says

There’s compelling evidence that Japan, Hong Kong, and other East Asian locales are doing it right and we should really, truly mask up—fast.

BY DAVID EWING DUNCAN
MAY 8, 2020
Inside the Harper's... the crowd is enjoying the first night of reopening @thesnews
ONE OF THE NUMBER ONE QUESTIONS I HAVE GOTTEN WHEN SPEAKING TO MICHIGANDERS ABOUT COVID-19 IS WHETHER OR NOT OUR KIDS WILL RETURN TO SCHOOL IN THE FALL.
<table>
<thead>
<tr>
<th>Phase</th>
<th>Description</th>
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<tbody>
<tr>
<td>1 Uncontrolled growth</td>
<td>Increasing number of new cases every day, likely to overwhelm the health system</td>
</tr>
<tr>
<td>2 Persistent spread</td>
<td>Continue to see high case levels with concern about health system capacity</td>
</tr>
<tr>
<td>3 Flattening</td>
<td>Case growth is gradually declining</td>
</tr>
<tr>
<td>4 Improving</td>
<td>Cases, hospitalizations and deaths are clearly declining</td>
</tr>
<tr>
<td>5 Containing</td>
<td>Continued case and death rate improvements and outbreaks can be quickly contained</td>
</tr>
<tr>
<td>6 Post-pandemic</td>
<td>Community spread not expected to return</td>
</tr>
</tbody>
</table>

**What's happening with the disease?**

**What do we need to do to stay safe?**
- **Stay Home, Stay Safe:** Strict social distancing, travel restrictions, face coverings, hygiene best practices, remote work
- **Safer at Home:** Continued distancing, face coverings, mitigated workplaces
- **Critical infrastructure**
  - First responders
  - Health care workers
  - Critical manufacturing
  - Food and agriculture
  - Essential retail (e.g., grocery)
  - Transportation
- **Additional types of recreation allowed**
- **Specified lower-risk businesses with strict workplace safety measures**
  - Construction
  - Manufacturing
  - Real estate
  - Outdoor work

**What work can we do?**
- Critical infrastructure
- Additional types of recreation allowed
- Specified lower-risk businesses with strict workplace safety measures
- Additional lower-risk businesses with strict safety measures
- Most businesses, with strict mitigation measures
- All businesses

**What factors determine progression to next phase?**

- Analysis shows epidemic growth rates slowing
- Hospital and treatment capacity built, alternative care facilities established
- Infrastructure for crisis response and data systems to monitor progression are in place
- Cases, deaths decline for extended period
- Monitor impact on vulnerable populations
- Sufficient healthcare system capacity in place
- Improved testing, contact tracing and containment capacity
- Cases and deaths decline more sharply, percent positivity decreasing
- Healthcare system capacity continues to strengthen
- Robust testing, contact tracing and containment protocols in place
- Cases and deaths at low absolute rates per capita
- Health system capacity is very strong
- High uptake of an effective therapy or vaccine

**Note:** This framing is being updated and refined as additional guidance from CDC and public health experts becomes available.

It is also possible to move backwards if risk increases and if we stop adhering to safe practices.
AS ALWAYS, PUBLIC HEALTH DATA WILL INFORM OUR DECISIONS ABOUT OPENING AND CLOSING SCHOOL BUILDINGS TO STUDENTS.
SCHOOLS WILL BE ABLE TO RESUME FACE-TO-FACE INSTRUCTION IN PHASE 4, IF SCHOOLS IMPLEMENT STRICT HEALTH AND SAFETY PROTOCOLS.
OVER THE PAST WEEK, MICHIGAN HAS EMERGED AS A NATIONAL LEADER IN COVID-19 MITIGATION.
Stay safe.
Be smart.
Wear your mask.