Greater Cincinnati COVID-19 Situational Awareness*

May 18, 2021
Number of COVID positive patients in Region 6 hospitals

% of hospitalized patients who are COVID positive
7 day moving average

% of COVID positive patients in ICU
7 day moving average

Positive patients on ventilators as % of positive patients in ICU
7 day moving average

Source: Ohio Hospital Association Hospital Resource Tracker on May 18th
Number of positive COVID-19 patients in Region 6 ICUs

Dashed line indicates a temporary centerline that will change over time. Source: Ohio Hospital Association Hospital Resource Tracker on May 18th.
Occupied beds in Southwestern Ohio hospitals, seven day moving average

**ICU beds**

<table>
<thead>
<tr>
<th>Date</th>
<th>Beds</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-30</td>
<td>449</td>
</tr>
<tr>
<td>12-28</td>
<td>350</td>
</tr>
<tr>
<td>01-25</td>
<td>432</td>
</tr>
<tr>
<td>02-22</td>
<td>486</td>
</tr>
<tr>
<td>03-22</td>
<td>540</td>
</tr>
<tr>
<td>04-19</td>
<td>432</td>
</tr>
<tr>
<td>05-17</td>
<td>486</td>
</tr>
</tbody>
</table>

**Medical-Surgical beds**

<table>
<thead>
<tr>
<th>Date</th>
<th>Beds</th>
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</thead>
<tbody>
<tr>
<td>11-30</td>
<td>2205</td>
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<tr>
<td>12-28</td>
<td>1700</td>
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<td>03-22</td>
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<tr>
<td>04-19</td>
<td>2205</td>
</tr>
<tr>
<td>05-17</td>
<td>2096</td>
</tr>
</tbody>
</table>

Normal operating level and adequate staffing
Minor to moderate strain on staffing
Moderate to extreme strain on staffing
Further bed expansion - extreme strain on staffing and system

Source: OHA data as of May 18th
Daily seven day moving average Covid cases per 100,000 people in each county with TTSI levels

Levels are those suggested by Massachusetts Testing, Tracing, and Supported Isolation collaborative, information can be found here: https://ethics.harvard.edu/ttsi-technical-handbook. Per local leadership, the lowest threshold for our region is being set at 5 cases per 100,000

Seven day moving average of new Covid-19 cases by onset date per 100,000 by age group in Hamilton County

Map of R estimates for 14 county area with average daily number of cases per 100,000 population in the last week

Estimated R value is based on the rate of change in incidence cases and should be considered along with the count

R estimate compared to 1
- Lower bound above 1
- 1 is within estimate
- Upper bound below 1

Mean serial interval (SI): 4.7 and standard deviation of SI: 2.9. Data from The New York Times, based on reports from state and local health agencies.

ODH now reports only verified deaths, lag can be as much as 1-2 months.

Seven day moving average of COVID-19 deaths in Southwestern Ohio

Percentage of test results returned positive in 14 county region

Open circles indicate points highly subject to change.

Source: The Health Collaborative data as of 05/18/2021.
Percentage of test results returned positive by age of patient for 14 county area

Common variation

- % of test returned positive
- Centerline

### 0-4
- % of tests returned positive: 3.3%
- Number of tests: 121

### 5-17
- % of tests returned positive: 5.0%
- Number of tests: 304

### 18-24
- % of tests returned positive: 4.3%
- Number of tests: 125

### 25-29
- % of tests returned positive: 4.4%
- Number of tests: 86

### 30-39
- % of tests returned positive: 4.5%
- Number of tests: 212

### 40-49
- % of tests returned positive: 4.9%
- Number of tests: 198

Open circles indicate points highly subject to change, last data point is May 17, 2021.

Source: The Health Collaborative data as of 05/18/2021.
Percentage of test results returned positive by age of patient for 14 county area

Open circles indicate points highly subject to change, last data point is May 17, 2021
Source: The Health Collaborative data as of 05/18/2021.

Common variation
% of test returned positive
Centerline

50-59

60-69

70-79

80-89

Number of tests
7 day moving average

% of tests returned positive

Mar 29 Apr 12 Apr 26 May 10 May 24
Seven day moving average, number of vaccines started and completed in Southwestern Ohio and Southeastern Indiana

- **Southwestern Ohio**
  - Population: 1,797,896
  - Vaccines started: 758,999
  - Vaccines completed: 668,130

- **Southeastern Indiana**
  - Population: 100,540
  - Vaccines started: 31,248
  - Vaccines completed: 28,115

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**Warren County, Ohio**
- Population: 234,602
- Vaccines started: 110,670
- Vaccines completed: 98,568

**Highland County, Ohio**
- Population: 43,161
- Vaccines started: 11,485
- Vaccines completed: 10,215

**Butler County, Ohio**
- Population: 383,134
- Vaccines started: 152,475
- Vaccines completed: 131,751

**Brown County, Ohio**
- Population: 43,432
- Vaccines started: 12,172
- Vaccines completed: 10,499

**Adams County, Ohio**
- Population: 27,698
- Vaccines started: 6,635
- Vaccines completed: 5,657

**Clermont County, Ohio**
- Population: 206,428
- Vaccines started: 84,500
- Vaccines completed: 75,148

**Franklin County, Ohio**
- Population: 22,758
- Vaccines started: 4,842
- Vaccines completed: 4,493

**Dearborn County, Indiana**
- Population: 49,458
- Vaccines started: 17,053
- Vaccines completed: 14,983

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Source: ODH. [https://coronavirus.ohio.gov/static/dashboards/vaccine_data.csv](https://coronavirus.ohio.gov/static/dashboards/vaccine_data.csv) on May 18th, 2021

ISDH. [https://hub.mph.in.gov/dataset/c484a6a3-2f32-4af9-8e02-c98801c34549/resource/a4d23ae8-34c2-4951-85e0-3ea9345ee6ea/download/county-vaccinations-by-date.csv](https://hub.mph.in.gov/dataset/c484a6a3-2f32-4af9-8e02-c98801c34549/resource/a4d23ae8-34c2-4951-85e0-3ea9345ee6ea/download/county-vaccinations-by-date.csv) on May 18th, 2021
Percentage of population with vaccine started and completed in Southwestern Ohio and Southeastern Indiana

Southwestern Ohio
Population: 1,797,896 Vaccines started: 758,999 Vaccines completed: 668,130

Southeastern Indiana
Population: 100,540 Vaccines started: 31,248 Vaccines completed: 28,115

Source: ODH. https://coronavirus.ohio.gov/static/dashboards/vaccine_data.csv on May 18th, 2021
ISDH. https://hub.mph.in.gov/dataset/c484a6a3-2f52-4af9-8e02-c98801c3454f/resource/a4d23ae8-34c2-49f5-85e0-3ea9345e6eea/download/county-vaccinations-by-date.csv on May 18th, 2021
Percentage change in weekday mobility in Hamilton County

Source: Google mobility data. Most recent date: 2021-05-14  https://www.gstatic.com/covid19/mobility/Global_Mobility_Report.csv
Daily 14 day running sum of cases per 100,000 population
Cases by onset date from Ohio Department of Health

R effective in Ohio relative to 1 by county
New cases reported daily by New York Times

% of population with vaccination started
Ohio Department of Health