COVID Epidemiology Situation Update

Tim Lant, PhD, MAS, Heather Ross PhD, DNP, ANP-BC, Anna Muldoon, MPH, Samantha Sokol, Esma Gel, PhD, and Megan Jehn, PhD

December 28, 2020
Summary

- Today’s statewide case count is 10,086 with 7,030 cases (70%) in Maricopa County, higher than population distribution. The 7-day average for reported cases is now 6,154. More cases were reported today than diagnostic tests, giving today’s positive percentage of 138.8%, likely due to reporting lags over the holidays.
- The epi curve appears to have plateaued in Maricopa County and statewide at a level higher than the previous wave in Arizona. Peak cases by incident date is 8,252 on 12/14.
- Due to significant irregularities in ADHS data reporting patterns, 7-day average positivity is more reliable than day-to-day positivity. 7-day average positivity has remained above 30% for more than 3 weeks, indicating sustained uncontrolled spread.
- Hospital utilization continues to increase. Bed usage for COVID-19 is 52% of inpatient beds (highest number of COVID-occupied beds at any point during the pandemic) and 57% of ICU beds statewide. ICU beds in use (1,007) have exceed the last peak. Current hospital utilization is 90% for inpatient beds and 91% for ICU beds including COVID and non-COVID utilization. Hospitals statewide are experiencing extreme shortages with many facilities on divert status.
- Declining hospital admission rates as a percentage of confirmed cases is a concerning marker of severe system overload.

<table>
<thead>
<tr>
<th>December 28, 2020</th>
<th>Statewide</th>
<th>Maricopa</th>
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<tbody>
<tr>
<td></td>
<td>Reported Today</td>
<td>Cumulative</td>
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<tr>
<td>Cases</td>
<td>10,086</td>
<td>504,423</td>
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<tr>
<td>PCR Tests</td>
<td>7,269</td>
<td>2,782,755</td>
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<tr>
<td>% Positive</td>
<td>138.8%</td>
<td>18.1%</td>
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<tr>
<td>Hospitalizations</td>
<td>240</td>
<td>35,630</td>
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<tr>
<td>Deaths</td>
<td>42</td>
<td>8,469</td>
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All data pulled from azdhs.gov. Numbers may not match Maricopa county data.
Maricopa County Analysis
Due to the holiday, 2 days of data were held (Nov 26 & 27) and reported on Nov 28.
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Arizona Statewide Analysis
Epidemiology
Arizona Statewide Daily COVID-19 Hospitalizations by Date of Hospitalization (Epi Curve)
Hospital Usage
Arizona Statewide Inpatient Bed Usage

- COVID-19 Hospital Beds
- Hospital Beds Available
- Hospital Beds Not COVID-19
Where blue bars are below zero, COVID ED patients exceeded total reported ED bed usage