Coronavirus Disease 2019 (COVID-19) in DuPage County by Ethnicity, Race, Severity, Long-term Care Facility (LTCF) Outcomes, Underlying Medical Conditions, Doubling Time, Recovery Rate, and Outbreaks by Setting

Graphs and figures illustrating COVID-19 cases and deaths among DuPage County residents by Ethnicity, Race, Severity, Long-term Care Facility (LTCF) Outcomes, Underlying Medical Conditions, Doubling Time, Recovery Rate, and Outbreaks by Setting are provided below. DuPage County Health Department remains a convening partner of the safety net in DuPage County, and we continue to strive to address health disparities by providing prevention education and enhancing healthcare access, particularly for underserved and minority populations.

PLEASE NOTE: Outbreak-related COVID-19 cases represent less than 10% of our total COVID-19 cases among DuPage County residents, with the remainder being individual cases reported from the community with no identified or reported link or association. This is a reflection of our ongoing high levels of community activity, which increase risk of transmission in various settings, such as in-person gatherings and shared meals with family/friends, workplaces, and long-term care facilities. These outbreak data represent the “tip of the iceberg,” since cases and outbreaks are largely under-reported and under-counted.

Ethnicity

<table>
<thead>
<tr>
<th>Ethnicity</th>
<th>COVID-19 Case Rates per 100,000 Population* by Ethnicity† in DuPage County Residents, 2020-2021 (n=92,693†)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hispanic or Latino</td>
<td>13,887.4</td>
</tr>
<tr>
<td>Non-Hispanic or Latino</td>
<td>6,820.4</td>
</tr>
<tr>
<td>DuPage County Overall</td>
<td>10,109.1</td>
</tr>
</tbody>
</table>

The COVID-19 case rate among Hispanic or Latino DuPage County residents is 2.0 times higher than that of non-Hispanic or Latino DuPage County residents.

*Data are provisional as of 8:00am 7/6/2021 and subject to change. Probable cases were added to confirmed cases to reflect total COVID-19 cases, effective 5/31/2021.
†Options for reporting ethnicity are as follows: Hispanic or Latino, Not Hispanic or Latino, and Unknown.
‡Ethnicity was reported as “Unknown” for 21,568 cases.

COVID-19 Hospitalized Case Rates per 100,000 Population* by Ethnicity†
in DuPage County Residents, 2020-2021 (n=6,906‡)

The COVID-19 hospitalized case rate among Hispanic or Latino DuPage County residents is 2.1 times higher than that of non-Hispanic or Latino DuPage County residents.

<table>
<thead>
<tr>
<th>Ethnicity</th>
<th>Rate per 100,000 population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hispanic or Latino</td>
<td>1,301.2</td>
</tr>
<tr>
<td>Non-Hispanic or Latino</td>
<td>630.0</td>
</tr>
<tr>
<td>DuPage County Overall</td>
<td>753.2</td>
</tr>
</tbody>
</table>

*Data are provisional as of 8:00am 7/6/2021 and subject to change. Probable cases were added to confirmed cases to reflect total COVID-19 cases, effective 5/11/2021.
†Options for reporting ethnicity are as follows: Hispanic or Latino, Not Hispanic or Latino, and Unknown.
‡Ethnicity was reported as "Unknown" for 314 hospitalized cases.

COVID-19-related Death Rates per 100,000 Population* by Ethnicity†
in DuPage County Residents, 2020-2021 (n=1,393‡)

- The COVID-19-related death rate is 1.2 times higher among non-Hispanic or Latino DuPage County residents compared to Hispanic or Latino DuPage County residents.
- Although the overall COVID-19-related death rate is lower among Hispanic or Latino DuPage County residents, when reviewed by separate age group categories, the COVID-19-related death rate is higher among Hispanic or Latino DuPage County residents across all age groups.
- The apparent discrepancy between aggregate death rates versus comparison by age group may be explained by the Hispanic or Latino population in DuPage County skewing younger, e.g., 40% of the Hispanic or Latino population is under 20 years old versus 25% of the non-Hispanic or Latino population.

<table>
<thead>
<tr>
<th>Ethnicity</th>
<th>Rate per 200,000 population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hispanic or Latino</td>
<td>131.7</td>
</tr>
<tr>
<td>Non-Hispanic or Latino</td>
<td>153.8</td>
</tr>
<tr>
<td>DuPage County Overall</td>
<td>151.9</td>
</tr>
</tbody>
</table>

*Data are provisional as of 8:00am 7/6/2021 and subject to change. Probable deaths were added to confirmed deaths to reflect total COVID-19 deaths, effective 5/11/2021.
†Options for reporting ethnicity are as follows: Hispanic or Latino, Not Hispanic or Latino, and Unknown.
‡Ethnicity was reported as "Unknown" for 10 deaths.
COVID-19 Case Rates per 100,000 Population* by Ethnicity† and Age Group in DuPage County Residents, 2020-2021 (n=92,693‡)

Across all age groups, the COVID-19 case rate is higher among Hispanic or Latino DuPage County residents compared to non-Hispanic or Latino DuPage County residents.

*Data are provisional as of 8:00am 7/6/2021 and subject to change. Probable cases were added to confirmed cases to reflect total COVID-19 cases, effective 5/11/2021.
†Options for reporting ethnicity are as follows: Hispanic or Latino, Not Hispanic or Latino, and Unknown. Ethnicity was reported as "Unknown" for 21,568 cases. Age was reported as "Unknown" for 5 cases.

COVID-19-related Death Rates per 100,000 Population* by Ethnicity† and Age Group in DuPage County Residents, 2020-2021 (n=1,393‡)

Although the overall COVID-19-related death rate is lower among Hispanic or Latino DuPage County residents, when reviewed by separate age group categories, the COVID-19-related death rate is higher among Hispanic or Latino DuPage County residents across all age groups.

The apparent discrepancy between aggregate death rates versus comparison by age group may be explained by the Hispanic or Latino population in DuPage County skewing younger, e.g., 40% of the Hispanic or Latino population is under 20 years old versus 25% of the non-Hispanic or Latino population.

*Data are provisional as of 8:00am 7/6/2021 and subject to change. Probable deaths were added to confirmed deaths to reflect total COVID-19 deaths, effective 5/11/2021.
†Options for reporting ethnicity are as follows: Hispanic or Latino, Not Hispanic or Latino, and Unknown. Ethnicity was reported as "Unknown" for 10 deaths.
For Race:

**COVID-19 Case Rates per 100,000 Population* by Race† in DuPage County Residents, 2020-2021 (n=92,693‡)**

- **AI/AN**: 8,902.7
- **Asian**: 6,650.8
- **Black**: 9,949.0
- **White**: 7,518.0
- **DuPage County Overall**: 10,109.1

The COVID-19 case rate among Black DuPage County residents is 1.3 times higher than that of White DuPage County residents and 1.5 times higher than Asian DuPage County residents.

*Data are provisional as of 8:00am on 7/16/2021 and subject to change. Probable cases were added to confirmed cases to reflect total COVID-19 cases, effective 5/11/2021.
†Options for reporting race(s) are as follows: American Indian or Alaska Native, Asian, Black or African American, Native Hawaiian or Other Pacific Islander, White, Other, Two or more races, and Unknown. Categories with population denominators <500 and those reporting Other or Two or more races are not included in the graph.
‡Race was reported as "Unknown" for 18,579 cases.

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**COVID-19 Hospitalized Case Rates per 100,000 Population* by Race† in DuPage County Residents, 2020-2021 (n=6,906‡)**

- **AI/AN**: 828.2
- **Asian**: 674.9
- **Black**: 1,199.6
- **White**: 661.8
- **DuPage County Overall**: 753.2

The COVID-19 hospitalized case rate among Black DuPage County residents is 1.8 times higher than that of White DuPage County residents and 1.8 times higher than Asian DuPage County residents.

*Data are provisional as of 8:00am on 7/16/2021 and subject to change. Probable cases were added to confirmed cases to reflect total COVID-19 cases, effective 5/11/2021.
†Options for reporting race(s) are as follows: American Indian or Alaskan Native, Asian, Black or African American, Native Hawaiian or Other Pacific Islander, White, Other, Two or more races, and Unknown. Categories with population denominators <500 and those reporting Other or Two or more races are not included in the graph.
‡Race was reported as "Unknown" for 207 hospitalized cases.
**COVID-19-related Death Rates per 100,000 Population** by Race†

in DuPage County Residents, 2020-2021 (n=1,393‡)

- The COVID-19-related death rate for Black DuPage County residents was similar to White DuPage County residents and 1.3 times higher than Asian DuPage County residents.
- Although the overall COVID-19-related death rate is similar among Black DuPage County residents compared to White DuPage County residents, when reviewed by separate age group categories, the COVID-19-related death rate is highest among Black DuPage County residents for all age groups for whom data are available.
- The apparent discrepancy between aggregate death rates versus comparison by age group may be explained by the Black population in DuPage County skewing younger, e.g., 82% of the Black population is under 50 years old versus 65% of the White population.
- The COVID-19-related death rate for Asian DuPage County residents aged 50-59 years is 1.3 times higher than the DuPage County overall rate for that age group.

*Data are provisional as of 8:00am 7/16/2021 and subject to change. Probable deaths were added to confirmed deaths to reflect total COVID-19 deaths, effective 5/11/2021.
†Options for reporting race(s) are as follows: American Indian or Alaskan Native, Asian, Black or African American, Native Hawaiian or Other Pacific Islander, White, Other, Two or more races, and Unknown. Categories with less than 5 deaths, categories with population denominators <500, and those reporting Other or Two or more races are not included in the graph.
‡Race was reported as "Unknown" for 3 deaths.


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**COVID-19 Case Rates per 100,000 Population** by Race† and Age Group

in DuPage County Residents, 2020-2021 (n=92,6934)

Across all age groups except those 10-19 years, the COVID-19 case rate is higher among Black DuPage County residents compared to White and Asian DuPage County residents.

*Data are provisional as of 8:00am 7/16/2021 and subject to change. Probable cases were added to confirmed cases to reflect total COVID-19 cases, effective 5/11/2021.
†Options for reporting race(s) are as follows: American Indian or Alaskan Native, Asian, Black or African American, Native Hawaiian or Other Pacific Islander, White, Other, Two or more races, and Unknown. Categories with less than 5 cases, categories with population denominators <500, and those reporting Other or Two or more races are not included in the graph.
‡Race was reported as "Unknown" for 18,579 cases. Age was reported as "Unknown" for 5 cases.

Severity

COVID-19 Cases by Hospitalization Status in DuPage County Residents, 2020-2021 (n=92,693*)

Though over one-fourth of cases (26.1%) are reflected with unknown status, those remaining cases with status reported reflect that 5.8% of DuPage County COVID-19 cases were hospitalized (not in ICU) and an additional 1.7% of cases required hospitalization and admission to the ICU.

*Data are provisional as of 8:00am 7/6/2021 and subject to change. Probable cases were added to confirmed cases to reflect total COVID-19 cases, effective 5/11/2021.
Source: Illinois-National Electronic Disease Surveillance System (I-NEDSS)

COVID-19 Multisystem Inflammatory Syndrome in Children (MIS-C)* among DuPage County Residents, 2020-2021

- 10 Cases
- 0 Deceased
- Age Range: 0 to 17 years
- Hospitalized: 10/10 (100.0%)
- Intensive Care Unit Admissions: 7/10 (70.0%)

*Data are provisional as of 12:00am 7/6/2021 and subject to change.
**COVID-19-related Deaths among Cases in DuPage County Residents, 2020-2021 (n=92,693*)**

*Data are provisional as of 8:00am 7/6/2021 and subject to change. Probable cases were added to confirmed cases to reflect total COVID-19 cases, effective 5/11/2021. Source: Illinois-National Electronic Disease Surveillance System (I-NEDSS)*

**PLEASE NOTE:** Of the 36,890 total COVID-19 cases reported since 12/15/2020:
- 267 cases (0.7%) were fully vaccinated cases,
- 30 cases (0.08%) were fully vaccinated cases requiring hospitalization, and
- 8 cases (0.02%) were fully vaccinated and died from a cause related to COVID-19.

<table>
<thead>
<tr>
<th>Vaccination Status</th>
<th>Not Fully Vaccinated</th>
<th>Fully Vaccinated</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Cases (n=36,890)</strong></td>
<td>36,623 (99.3%)</td>
<td>267 (0.7%)</td>
</tr>
<tr>
<td>Age ≥ 60 years (percent of vaccination status category)</td>
<td>5,918 (16.2%)</td>
<td>111 (41.6%)</td>
</tr>
<tr>
<td>Underlying Medical Conditions Present (percent of vaccination status category)</td>
<td>9,017 (24.6%)</td>
<td>127 (47.6%)</td>
</tr>
<tr>
<td><strong>Total Hospitalized Cases (n=1,822)</strong></td>
<td>1,792 (98.4%)</td>
<td>30 (1.6%)</td>
</tr>
<tr>
<td>Age ≥ 60 years (percent of vaccination status category)</td>
<td>963 (53.7%)</td>
<td>26 (86.7%)</td>
</tr>
<tr>
<td>Underlying Medical Conditions Present (percent of vaccination status category)</td>
<td>1,249 (69.7%)</td>
<td>27 (90.0%)</td>
</tr>
</tbody>
</table>
Total Deceased Cases (n=301) | 293 (97.3%) | 8 (2.7%)
---|---|---
Age ≥ 60 years (percent of vaccination status category) | 265 (90.4%) | 6 (75.0%)
Underlying Medical Conditions Present (percent of vaccination status category) | 247 (84.3%) | 8 (100.0%)

*Data are provisional as of 8:00am 7/6/2021 and subject to change. Includes cases reported on or after 12/15/2020. Probable cases and deaths were added to confirmed cases and deaths to reflect total COVID-19 cases and deaths, effective 5/11/2021.
Source: Illinois-National Electronic Disease Surveillance System (I-NEDSS)
Notes:
1. “Underlying medical conditions” include but are not limited to: cancer, cardiovascular disease, chronic lung disease, diabetes mellitus, hypertension, immunosuppressive condition, neurologic disease, obesity, pregnancy, renal disease, and smoking.
2. COVID-19 vaccine breakthrough infection is defined as the detection of SARS-CoV-2 RNA or antigen in a respiratory specimen collected from a person ≥14 days after receipt of all recommended doses of an FDA-authorized COVID-19 vaccine.

Long-term Care Facility (LTCF) Outcomes

COVID-19 Cases Associated with Long-term Care Facilities (LTCF) in DuPage County Residents, 2020-2021 (n=92,693*)

5.5% of DuPage County COVID-19 cases are associated with a LTCF.

*Data are provisional as of 8:00am 7/6/2021 and subject to change. Probable cases were added to confirmed cases to reflect total COVID-19 cases, effective 5/11/2021.
Source: Illinois-National Electronic Disease Surveillance System (I-NEDSS)
COVID-19-related Deaths Associated with Long-term Care Facilities (LTCF) in DuPage County Residents, 2020-2021 (n=1,393*)

58.9% of DuPage County COVID-19-related deaths are associated with a LTCF.

- Associated with LTCF: 820 (58.9%)
- Not Associated with LTCF: 573 (41.1%)

*Data are provisional as of 8:00am 7/6/2021 and subject to change. Probable deaths were added to confirmed deaths to reflect total COVID-19 deaths, effective 5/11/2021.
Source: Illinois-National Electronic Disease Surveillance System (I-NEDSS)

Underlying Medical Conditions

COVID-19 Cases by Presence of Underlying Medical Conditions in DuPage County Residents, 2020-2021 (n=92,693*)

- Reported Underlying Medical Condition(s): 27.2%
- No Reported/Unknown Underlying Medical Conditions: 72.8%

Underlying medical conditions were reported for 27.2% of COVID-19 cases among DuPage County residents.

*Data are provisional as of 8:00am 7/6/2021 and subject to change. Probable cases were added to confirmed cases to reflect total COVID-19 cases, effective 5/11/2021.
Source: Illinois-National Electronic Disease Surveillance System (I-NEDSS)
Note: "Underlying medical conditions" include but are not limited to: cancer, cardiovascular disease, chronic lung disease, diabetes mellitus, hypertension, immunosuppressive condition, neurologic disease, obesity, pregnancy, renal disease, and smoking.
COVID-19-related Deaths by Presence of Underlying Medical Conditions in DuPage County Residents, 2020-2021 (n=1,393*)

Underlying medical conditions were reported for 90.5% of COVID-19-related deaths among DuPage County residents.

*Data are provisional as of 8:00am 7/6/2021 and subject to change. Probable deaths were added to confirmed deaths to reflect total COVID-19 deaths, effective 5/11/2021.
Source: Illinois-National Electronic Disease Surveillance System (iNEDSS)
Note: "Underlying medical conditions" include but are not limited to: cancer, cardiovascular disease, chronic lung disease, diabetes mellitus, hypertension, immunosuppressive condition, neurologic disease, obesity, pregnancy, renal disease, and smoking.

COVID-19 Cases by Presence of Underlying Medical Conditions and Age Group in DuPage County Residents, 2020-2021 (n=92,693*)

Among DuPage County COVID-19 cases age 70-79 and 80+ years, the majority of cases reported at least one underlying medical condition.

*Data are provisional as of 8:00am 7/6/2021 and subject to change. Probable cases were added to confirmed cases to reflect total COVID-19 cases, effective 5/11/2021. Age was reported as "Unknown" for 5 cases.
Source: Illinois-National Electronic Disease Surveillance System (iNEDSS)
Note: "Underlying medical conditions" include but are not limited to: cancer, cardiovascular disease, chronic lung disease, diabetes mellitus, hypertension, immunosuppressive condition, neurologic disease, obesity, pregnancy, renal disease, and smoking.
**Doubling Time**

COVID-19 Case Doubling Time* among DuPage County Resident Cases, 2020-2021

4,079.7 days

*Data are provisional as of 8:00am 7/6/2021 and subject to change. Probable cases were added to confirmed cases to reflect total COVID-19 cases, effective 5/11/2021.

Note: Doubling time is the number of days it would take to double the number of cases, assuming the rate at which cases are increasing does not speed up or slow down and that testing remains constant. The date the case was received by the local health department was used for this calculation, and the dates used for this calculation were 6/24/2021-7/1/2021.


**Recovery Rate**

COVID-19 Case Recovery Rate* among DuPage County Resident Cases, 2020-2021

98.5%

*Data are provisional as of 8:00am 7/6/2021 and subject to change. Probable cases were added to confirmed cases to reflect total COVID-19 cases, effective 5/11/2021.

Note: Recovered cases are defined as persons with initial positive specimen collection date > 42 days who have not expired. Recovery rate is calculated as the number of recovered cases divided by the sum of recovered cases and deceased cases.

Outbreaks by Setting

COVID-19 Community and Outbreak-associated Cases in DuPage County Residents, 2020-2021 (n=92,693*)

Outbreak-associated Cases
- 6,596 (7.1%)

Community Cases
- 86,097 (92.9%)

7.1% of COVID-19 cases in DuPage County residents are associated with an outbreak.

*Data are provisional as of 8:00am 7/6/2021 and subject to change. Probable cases were added to confirmed cases to reflect total COVID-19 cases, effective 5/11/2021.
Source: Illinois-National Electronic Disease Surveillance System (I-NEDSS)

DuPage County COVID-19 Reported Outbreaks by Setting*
March 1, 2020 – July 6, 2021

PLEASE NOTE: Outbreak-related COVID-19 cases represent less than 10% of our total COVID-19 cases among DuPage County residents, with the remainder being individual cases reported from the community with no identified or reported link or association. This is a reflection of our ongoing high levels of community activity, which increase risk of transmission in various settings, such as in-person gatherings and shared meals with family/friends, workplaces, and long-term care facilities. These outbreak data represent the “tip of the iceberg,” since cases and outbreaks are largely under-reported and under-counted.

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of Outbreaks (percent of outbreaks)</th>
<th>Total Outbreak-associated Lab-Confirmed Cases in Category (percent of outbreak-associated cases)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long Term Care Facility</td>
<td>62 (12.3)</td>
<td>2,999 (38.2)</td>
</tr>
<tr>
<td>Assisted/Supportive Living Facility</td>
<td>84 (16.7)</td>
<td>1,559 (19.8)</td>
</tr>
<tr>
<td>Skilled Nursing</td>
<td>34 (6.8)</td>
<td>1,308 (16.6)</td>
</tr>
<tr>
<td>Factory/Manufacturer</td>
<td>48 (9.5)</td>
<td>260 (3.3)</td>
</tr>
<tr>
<td>Food Production Facility</td>
<td>16 (3.2)</td>
<td>225 (2.9)</td>
</tr>
<tr>
<td>Day Care - Child</td>
<td>49 (9.7)</td>
<td>160 (2.0)</td>
</tr>
<tr>
<td>Warehouse/Distribution Centers</td>
<td>17 (3.4)</td>
<td>147 (1.9)</td>
</tr>
<tr>
<td>Community Event</td>
<td>13 (2.6)</td>
<td>117 (1.5)</td>
</tr>
<tr>
<td>Senior/Independent Living Facilities/Housing</td>
<td>6 (1.2)</td>
<td>111 (1.4)</td>
</tr>
<tr>
<td>College/University</td>
<td>16 (3.2)</td>
<td>108 (1.4)</td>
</tr>
<tr>
<td>School - Public</td>
<td>18 (3.6)</td>
<td>94 (1.2)</td>
</tr>
<tr>
<td>Gym/Fitness/Dance Facility</td>
<td>7 (1.4)</td>
<td>89 (1.1)</td>
</tr>
<tr>
<td>Retail/Sales</td>
<td>15 (3.0)</td>
<td>85 (1.1)</td>
</tr>
<tr>
<td>School - Private</td>
<td>13 (2.6)</td>
<td>78 (1.0)</td>
</tr>
<tr>
<td>Developmentally Disabled Facility</td>
<td>11 (2.2)</td>
<td>74 (0.9)</td>
</tr>
<tr>
<td>Group Home</td>
<td>13 (2.6)</td>
<td>71 (0.9)</td>
</tr>
</tbody>
</table>
### DuPage County COVID-19 Reported Outbreaks by Setting*
**June 22, 2021 – July 6, 2021**

**PLEASE NOTE:** Outbreak-related COVID-19 cases represent less than 10% of our total COVID-19 cases among DuPage County residents, with the remainder being individual cases reported from the community with no identified or reported link or association. This is a reflection of our ongoing high levels of community activity, which increase risk of transmission in various settings, such as in-person gatherings and shared meals with family/friends, workplaces, and long-term care facilities. These outbreak data represent the “tip of the iceberg,” since cases and outbreaks are largely under-reported and under-counted.

<table>
<thead>
<tr>
<th>Category</th>
<th>Number of Outbreaks (percent of outbreaks)</th>
<th>Total Outbreak-associated Lab-Confirmed Cases in Category (percent of outbreak-associated cases)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day Care - Child</td>
<td>6 (66.7)</td>
<td>14 (50.0)</td>
</tr>
<tr>
<td></td>
<td>Count</td>
<td>Percentage</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-------</td>
<td>------------</td>
</tr>
<tr>
<td>Community Event</td>
<td>1 (11.1)</td>
<td>7 (25.0)</td>
</tr>
<tr>
<td>School - Public</td>
<td>1 (11.1)</td>
<td>7 (25.0)</td>
</tr>
<tr>
<td>Long Term Care Facility</td>
<td>1 (11.1)</td>
<td>&lt;5**</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>9</td>
<td>28**</td>
</tr>
</tbody>
</table>

*Data are subject to change; table includes suspect and confirmed outbreaks by date opened by DuPage County Health Department in Illinois Department of Public Health (IDPH) Outbreak Reporting System (ORS). Recent data may include outbreaks with cases reported prior to the date range for the table. Due to high volume of case reports and delays in outbreak assessment and documentation, data may be incomplete. Data include cases associated with DuPage County outbreaks and may include individuals who reside outside of DuPage County. For reported data starting 5/11/2021, antigen-positive probable cases were added to confirmed cases to reflect total lab-confirmed outbreak-associated cases. **Due to confidentiality concerns, case counts under 5 are not reported as exact numbers.

Source: IDPH ORS