# Chicago COVID-19 Community Transmission and Risk Matrix

<table>
<thead>
<tr>
<th>COVID-19 CASES DIAGNOSED PER DAY</th>
<th>VERY HIGH TRANSMISSION</th>
<th>HIGH TRANSMISSION</th>
<th>SUBSTANTIAL TRANSMISSION</th>
<th>LOWER TRANSMISSION</th>
<th>LOW TRANSMISSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chicago residents - 7-day rolling daily average</td>
<td>800+</td>
<td>400 - 799</td>
<td>200 - 399</td>
<td>20 - 199</td>
<td>≤20</td>
</tr>
<tr>
<td><strong>Current:</strong> 445 Increasing</td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>COVID-19 TEST POSITIVITY</th>
<th>VERY HIGH TRANSMISSION</th>
<th>HIGH TRANSMISSION</th>
<th>SUBSTANTIAL TRANSMISSION</th>
<th>LOWER TRANSMISSION</th>
<th>LOW TRANSMISSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chicago residents - 7-day rolling daily average</td>
<td>10%+</td>
<td>6.6 - 9.9%</td>
<td>5.0 - 6.5%</td>
<td>2 - 4.9%</td>
<td>≤2%</td>
</tr>
<tr>
<td><strong>Current:</strong> 2.5% Increasing</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>HOSPITAL BEDS (NON-ICU) OCCUPIED BY COVID PATIENTS</th>
<th>VERY HIGH TRANSMISSION</th>
<th>HIGH TRANSMISSION</th>
<th>SUBSTANTIAL TRANSMISSION</th>
<th>LOWER TRANSMISSION</th>
<th>LOW TRANSMISSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chicago hospitals - 7-day rolling daily average</td>
<td>1250+</td>
<td>750 - 1249</td>
<td>250 - 749</td>
<td>100 - 249</td>
<td>≤100</td>
</tr>
<tr>
<td><strong>Current:</strong> 235 Increasing</td>
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<table>
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<th>ICU BEDS OCCUPIED BY COVID PATIENTS</th>
<th>VERY HIGH TRANSMISSION</th>
<th>HIGH TRANSMISSION</th>
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<th>LOW TRANSMISSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chicago hospitals - 7-day rolling daily average</td>
<td>400+</td>
<td>300 - 399</td>
<td>100 - 299</td>
<td>20 - 99</td>
<td>≤20</td>
</tr>
<tr>
<td><strong>Current:</strong> 60 Stable</td>
<td></td>
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</tbody>
</table>

Source: Chicago Department of Public Health, data current as of November 16, 2021. These metrics represent general community COVID transmission and should not be applied to individual settings that have mitigation practices in place.
COVID CASE rates remain higher among **Unvaccinated** compared to **Fully Vaccinated** Chicagoans.

Even in Delta surge alone, unvaccinated Chicagoans have been **MORE THAN TWICE** as likely as vaccinated Chicagoans to be diagnosed with COVID-19.

### Chicago Residents’ Weekly COVID Case Rate per 100,000 by vaccination status

<table>
<thead>
<tr>
<th>Date</th>
<th>Unvaccinated</th>
<th>Fully Vaccinated</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-Mar-21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13-Mar-21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20-Mar-21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>27-Mar-21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3-Apr-21</td>
<td></td>
<td></td>
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<tr>
<td>10-Apr-21</td>
<td></td>
<td></td>
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<tr>
<td>17-Apr-21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24-Apr-21</td>
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</tbody>
</table>

**Notes:**

Includes cases among Chicago residents reported into the Illinois Electronic Disease Surveillance System (I-NEDSS) with date of specimen collection 2/28/2021-11/6/2021, pulled 11/10/2021. Vaccination status obtained from the Illinois Comprehensive Automated Immunization Registry (I-CARE) registry. Fully vaccinated defined as completion of vaccine series at least 14 days prior to a positive test (with no other positive tests in the previous 45 days). Rate for vaccinated calculated as total cases divided by cumulative vaccinated at the end of each week, multiplied by 100,000. Rate for unvaccinated calculated as total cases divided by total population minus cumulative vaccinated at the end of each week, multiplied by 100,000.
Unvaccinated Chicagoans continue to drive our COVID outbreak

Highest case rate in Chicago now in unvaccinated 12-17 y/o

Weekly COVID Case Rate per 100,000 by Age Category includes cases among Chicago residents reported into the Illinois Electronic Disease Surveillance System (i-NEDSS) with date of specimen collection 2/28/2021-11/6/2021, pulled 11/10/2021. Vaccination status obtained from the Illinois Comprehensive Automated Immunization Registry (i-CARE) registry. Fully vaccinated defined as completion of vaccine series at least 14 days prior to a positive test (with no other positive tests in the previous 45 days). Rate for vaccinated calculated as total cases divided by cumulative vaccinated at the end of each week, multiplied by 100,000. Rate for unvaccinated calculated as total cases divided by total population minus cumulative vaccinated at the end of each week, multiplied by 100,000.
Chicago COVID case rates are **7X** higher in unvaccinated 15-17 year olds and **over 10X** higher in unvaccinated 12-14 year olds compared to their fully vaccinated counterparts during the Delta surge.

**Notes:**

Includes cases among Chicago residents reported into the Illinois Electronic Disease Surveillance System (I-NEDSS) with date of specimen collection 2/28/2021-11/6/2021, pulled 11/10/2021. Rate calculated using the U.S. Census Bureau’s American Community Survey 2019 1-year estimates for non-institutional population of children age 0-17 residing in Chicago, IL.
COVID HOSPITALIZATION rates remain much higher among Unvaccinated compared to Fully Vaccinated Chicagoans.

Even in Delta surge alone, unvaccinated Chicagoans have been FIVE TIMES as likely as vaccinated Chicagoans to be hospitalized with COVID-19.

Chicago Residents’ Weekly COVID Hospitalization Rate per 100,000 by vaccination status

Unvaccinated

Fully vaccinated

Notes:
Includes cases among Chicago residents reported into the Illinois Electronic Disease Surveillance System (I-NEDSS) with date of hospital admission 2/28/2021-11/6/2021, pulled 11/10/2021.
Vaccination status obtained from the Illinois Comprehensive Automated Immunization Registry (I-CARE) registry. Fully vaccinated defined as completion of vaccine series at least 14 days prior to a positive test (with no other positive tests in the previous 45 days). Rate for vaccinated calculated as total hospitalized cases divided by cumulative vaccinated at the end of each week, multiplied by 100,000. Rate for unvaccinated calculated as total hospitalized cases divided by total population minus cumulative vaccinated at the end of each week, multiplied by 100,000.
Chicago: Sharp increase in age 65y+ COVID hospital admissions since 11/1/21

COVID-19 Hospital admits, on Admission Date, by Age Group, rolling 7-day average, from 6/1/2021

Source: INEDSS File: Hospitalization fro reopening.xlsx.
Older (60y+) unvaccinated Chicagoans **by far** most likely to be hospitalized with COVID

Breakthrough hospitalizations remain rare but seen most often in age 60y+

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**Weekly Hospitalization Rate per 100,000 by Age Category.** Includes cases among Chicago residents reported into the Illinois Electronic Disease Surveillance System (I-NEDSS) with date of hospital admission 2/28/2021-11/6/2021, pulled 11/10/2021. Vaccination status obtained from the Illinois Comprehensive Automated Immunization Registry (I-CARE) registry. Fully vaccinated defined as completion of vaccine series at least 14 days prior to a positive test (with no other positive tests in the previous 45 days). Rate for vaccinated calculated as total hospitalized cases divided by cumulative vaccinated at the end of each week, multiplied by 100,000. Rate for unvaccinated calculated as total hospitalized cases divided by total population minus cumulative vaccinated at the end of each week, multiplied by 100,000.
COVID DEATH rates remain higher among Unvaccinated compared to Fully Vaccinated Chicagoans.

Even in Delta surge alone, unvaccinated Chicagoans have been SEVEN TIMES as likely as vaccinated Chicagoans to die from COVID-19.

Notes:
Includes cases among Chicago residents reported into the Illinois Electronic Disease Surveillance System (I-NEDSS) with date of death 2/28/2021-11/6/2021, pulled 11/10/2021. Vaccination status obtained from the Illinois Comprehensive Automated Immunization Registry (I-CARE) registry. Fully vaccinated defined as completion of vaccine series at least 14 days prior to a positive test (with no other positive tests in the previous 45 days). Rate for vaccinated calculated as total case deaths divided by cumulative vaccinated at the end of each week, multiplied by 100,000. Rate for unvaccinated calculated as total case deaths divided by total population minus cumulative vaccinated at the end of each week, multiplied by 100,000.
Older (60y+) unvaccinated Chicagoans remain by far the most likely to die from COVID-19.

Breakthrough deaths remain very rare (seen occasionally in age 60y+).

Notes:
Includes cases among Chicago residents reported into the Illinois Electronic Disease Surveillance System (I-NEDSS) with date of death 2/28/2021-11/6/2021, pulled 11/10/2021.
Vaccination status obtained from the Illinois Comprehensive Automated Immunization Registry (I-CARE) registry. Fully vaccinated defined as completion of vaccine series at least 14 days prior to a positive test (with no other positive tests in the previous 45 days). Rate for vaccinated calculated as total case deaths divided by cumulative vaccinated at the end of each week, multiplied by 100,000. Rate for unvaccinated calculated as total case deaths divided by total population minus cumulative vaccinated at the end of each week, multiplied by 100,000.
Breakthrough Cases: Vaccines Continue to Work VERY Well

- **98.9%** of fully vaccinated Chicagoans have **not** tested positive for COVID-19

- **99.97%** have **not** been hospitalized for COVID-19
  - Median age of breakthrough hospitalizations in Chicago is **67 years**

- **99.994%** have **not** died due to COVID-19
  - Median age of breakthrough deaths in Chicago is **77 years**; nearly half are immunocompromised (#1 diagnosis: active cancer treatment)
COVID-19 case rate has increased over the past two weeks

- Since the start of the school year:
  - **Total of 0.99% (about 1 in 100) CPS staff and students** have:
    - A) had a positive COVID-19 test and
    - B) been present at a CPS facility during the time they may have been infectious (starting two days before their symptom onset or positive test)

- Last week:
  - **Total of 0.11% (about 1 out of every 1,000 staff and students)**
  - Steady from previous week
  - Increase of 30% from week of Oct 24

<table>
<thead>
<tr>
<th></th>
<th>Overall (August 29-Nov 14)</th>
<th>Last week (Nov 7-13)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>Cases</td>
</tr>
<tr>
<td>Students</td>
<td>270,458</td>
<td>2,400</td>
</tr>
<tr>
<td>Staff</td>
<td>39,228</td>
<td>679</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>309,686</strong></td>
<td><strong>3,079</strong></td>
</tr>
</tbody>
</table>

Students include only students in district-run schools (excluding charter and contract schools). All staff, including citywide, network, and central staff, are included. Actionable cases include individuals who were in a CPS building during their infectious period. Non-actionable cases are not included in this calculation. Cases are self-reported and assigned to the date they were reported. Data from school year 2021-22 are included. Data from CPS public dashboard, November 16, 2021, 0800.
COVID-19 case rate increased slightly in CPS last week

Cases include individuals who were in a CPS building during their potentially infectious period. Cases include those that are self-reported and are assigned to the date they were reported. Data from school year 2021-22 are included. Data from CPS public dashboard, November 16, 2021, 0830. Data for the current week were available through November 14, 2021, at the time of this report.
• Total number of students in quarantine and isolation has increased recently as cases increase
  • Still reduced compared to 14-day quarantine period
• Staff in quarantine/isolation remains steady
• CPS discussing pilots of test-to-stay and test-to-return strategies for classroom close contacts

Data from CPS public dashboard, November 16, 2021, 0800. Data for the current week were available through November 16, 2021, at the time of this report.
Screening testing (for people WITHOUT symptoms)

• Results
  • Last week:
    • 86 positives out of 21,177 valid tests
    • 0.41% positive
    • About 4 out of every 1,000 valid tests
  • Cumulative:
    • 431 positives out of 153,460 tests
    • 0.29% positive
    • About 3 out of every 1,000 valid tests

• Comparison
  • LA: 0.12% positive in last 7 days
  • NYC: 0.24% positive in last 7 days

Data from CPS public dashboard, November 16, 2021, 0800. Data for the current week were available through November 14, 2021, at the time of this report. Percent positivity calculated as total positive tests divided by (tests completed minus invalid tests). Los Angeles and NYC data pulled November 16, 2021, 0815.
Clusters and outbreaks at CPS

- 33 clusters/outbreaks have been detected, investigated, and reported in CPS schools in this school year.
- Cluster/outbreak size remains small:
  - 20 (61%) include 2 people
  - 12 (36%) outbreaks include 3-4 people
  - 1 (3%) outbreak includes 5 people
- Cluster/outbreak roles:
  - 19 (58%) involve students only
  - 5 (15%) involve staff only
  - 9 (27%) involve staff and students

As of 11/16/21. As of 10/1, a school-associated cluster/outbreak is defined as 3 or more epi-linked, lab-confirmed cases with onset within 14 days AND cases are not close contacts of each other in another setting (i.e. household) outside of the school setting or have a more likely known common exposure. Prior to 10/1, a school-associated outbreak only included 2 or more epi-linked, lab-confirmed cases. IDPH requires all outbreaks to be reported. 3 reports are currently under investigation.
Get vaccinated now in time for the holidays:

Even one dose before Thanksgiving starts to build protection.

Children need a first vaccine dose by this Saturday to be fully vaccinated by Christmas!

Deadlines for New Year's/City employees:

Nov. 19 – 1st dose Moderna
Nov. 26 – 1st dose Pfizer
Dec. 17 – Single dose J&J
Get Covered Illinois! Open Enrollment began November 1st and goes through January 15th, 2022

• Enroll by December 15th to have your coverage start on January 1st
• Sign up for a free visit with a patient navigator to help you understand how to pick a plan!
  • Widget.GetCoveredAmerica.org

YOUR HEALTH COVERAGE STARTS HERE