Ask Dr. Arwady

1/18/2022
Average daily COVID-19 cases per 100,000 population

330 Million Cases
5.5 Million Deaths

9.7 Billion Vaccine Doses Administered

4.7 Billion People Vaccinated
(61% of population)

Presented by the New York Times 1/18/2021; Sources: Local governments; The Center for Systems Science and Engineering at Johns Hopkins University; National Health Commission of the People’s Republic of China; World Health Organization.
Average daily COVID-19 cases per 100,000 population

66 Million Cumulative Cases 850,750 Cumulative Deaths

Vaccinations

<table>
<thead>
<tr>
<th></th>
<th>AT LEAST ONE DOSE</th>
<th>FULLY VACCINATED</th>
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<tbody>
<tr>
<td>All ages</td>
<td>75%</td>
<td>63%</td>
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<tr>
<td>12 and up</td>
<td>85%</td>
<td>72%</td>
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<tr>
<td>65 and up</td>
<td>95%</td>
<td>88%</td>
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National currently: 238 diagnosed daily cases per 100,000 people

Illinois currently: 233 diagnosed daily cases per 100,000 people

Chicago currently: 162 diagnosed daily cases per 100,000 people

Presented by the New York Times 1/18/2022; Sources: Local governments; The Center for Systems Science and Engineering at Johns Hopkins University
New York City: Similar to Chicago, beginning to see decrease in COVID-19 cases

New reported cases by day
DAILY AVG. ON JAN. 17 24,906  14-DAY CHANGE –36%
SARS-CoV-2 Variant Surveillance, Midwest Region

Omicron (97.4%)
Delta (2.6%)
Other (0.0%)

https://covid.cdc.gov/covid-data-tracker/#variant-proportions
What’s different with Omicron? Chicago picture
Dramatic increase in less severe cases, rising hospitalizations in unvaccinated

Percent of last winter’s peak

Data Source: Illinois’ National Electronic Disease Surveillance System (I-NEDSS). Data pulled 1/10/2022
What’s different with Omicron?
Dramatic increase in less severe cases, rising hospitalizations in unvaccinated

Data Source: Illinois’ National Electronic Disease Surveillance System (I-NEDSS). Data pulled 1/12/2022, based on 7 day rolling averages.
# Chicago COVID-19 Community Transmission and Risk Matrix

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<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>
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<tr>
<td>Current: 4,378 Decreasing</td>
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<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>
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<tr>
<td>Current: 17.4% Decreasing</td>
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<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>
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<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>Current: 1,495 Decreasing</td>
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<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>Current: 306 Decreasing</td>
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Source: Chicago Department of Public Health, data current as of January 18, 2022. These metrics represent general community COVID transmission and should not be applied to individual settings that have mitigation practices in place.
Chicago: COVID-19 case rate remains extremely high, though cautiously optimistic we have seen our peak.

Current average case rate: 4,378

Highest daily total 1/4: 8,230
Chicago: COVID-19 test positivity remains very high; signs of early decline, cautiously optimistic

Current positivity: 17.4%

Chi.gov/coviddash
Chicago: COVID-19 Hospitalizations (new hospitalizations each day)

Current daily average: 204
Across system in Chicago today:
18% (+3% last week) non-ICU capacity
16% (+6% last week) ICU capacity
Emergency Department COVID diagnoses clearly decreasing
Chicago: Non-ICU Hospital Beds occupied by COVID-19 patients at highest census since the beginning of the pandemic.

Current average: 1,495
18% non-ICU capacity available

Chi.gov/coviddash
Chicago: ICU Hospital Beds occupied by COVID-19 patients at highest census since December 2020

Current average: 306
16% ICU capacity available
Vaccine still highly protective against *infection*, though Omicron variant is showing ability to evade immunity.

**Notes:**
Includes cases among Chicago residents reported into the Illinois Electronic Disease Surveillance System (I-NEDSS) with date of specimen collection 10/17/2021-1/8/2022, pulled 1/12/2022. 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). Boosted defined as fully vaccinated with an additional or booster dose of any COVID-19 vaccine received at least 14 days prior to positive test. 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. Data are graphed starting the week CDC expanded booster dose eligibility and recommendations.
Vaccinated individuals are much less likely to be hospitalized, and an additional/booster dose clearly provides added protection.
Unvaccinated Chicago residents are much more likely to die from COVID-19 than their vaccinated counterparts.

Notes:
Includes cases among Chicago residents reported into the Illinois Electronic Disease Surveillance System (I-NEDSS) with date of death 10/17/2021-1/8/2021, pulled 12/22/2021.
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). Boosted defined as fully vaccinated with an additional or booster dose of any COVID-19 vaccine received at least 14 days prior to positive test. 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. Data are graphed starting the week CDC expanded booster dose eligibility and recommendations.
Chicago: COVID-19 Hospitalizations remain low overall among children 0-17 y/o. Child COVID hospitalizations have overwhelmingly been seen in unvaccinated children.

Chi.gov/coviddash
Vaccination rates continue to increase in Chicago. 78% of eligible Chicagoans (5+) have received at least one dose of a COVID vaccine.
Chicago: Vaccination rates by age continue to increase and above national average in children and adolescents

At least one dose (% vaccinated as of 1/13/2022)

- U.S. 5-11 y/o with one dose: 27%
- U.S. 12-17 y/o with one dose: 64.6%

Completed vaccine series (% vaccinated as of 1/13/2022)

- U.S. 5-11 y/o completed series: 17.9%
- U.S. 12-17 y/o completed series: 54.3%
**Booster Shot Recommendations**

Federal updates last week:
- Interval between completion of mRNA (Pfizer, Moderna) primary series and booster shortened from 6 to 5 months
- Booster eligibility expanded to children 12-15 years
- Booster guidelines strengthened to affirmatively recommend children 12-17 years **should** receive a booster dose

<table>
<thead>
<tr>
<th>Booster</th>
<th>Who should get a booster</th>
<th>When to get a booster</th>
<th>Which booster can you get</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pfizer-BioNTech</td>
<td>Everyone 12 years and older</td>
<td>At least 5 months after completing your primary COVID-19 vaccination series</td>
<td>Pfizer-BioNTech or Moderna (mRNA COVID-19 vaccines) are preferred in most situations</td>
</tr>
<tr>
<td>Moderna</td>
<td>Adults 18 years and older</td>
<td>At least 5 months after completing your primary COVID-19 vaccination series</td>
<td>Pfizer-BioNTech or Moderna (mRNA COVID-19 vaccines) are preferred in most situations</td>
</tr>
<tr>
<td>Johnson &amp; Johnson's Janssen*</td>
<td>Adults 18 years and older</td>
<td>At least 2 months after receiving your J&amp;J/Janssen COVID-19 vaccination</td>
<td>Pfizer-BioNTech or Moderna (mRNA COVID-19 vaccines) are preferred in most situations</td>
</tr>
</tbody>
</table>

*Although mRNA vaccines are preferred, J&J/Janssen COVID-19 vaccine may be considered in some situations.

Chicagrans who received a booster dose of COVID-19 vaccine by age group (n=707,282)

Data as of 1/12/2022. The count of people who received a booster dose includes anyone who is fully vaccinated and has received another dose of COVID-19 vaccine since August 13, 2021. This includes people who received booster doses and people who received additional doses.
What you need to know about KN95 mask

When used as mitigation measures in community settings, they may be reused for an extended period of time. In clinical settings (like hospitals), surgical and KN95 masks are intended for single use.

- For any mask, it is most important to make sure that it is well-fitted to your face.
- Always perform hand hygiene before putting on or taking off any mask or face covering.
- Do not attempt to wash your KN95. To keep it clean between uses, store it in a dry paper bag.
- Discard your mask if it is: soiled, damaged, becomes stretched out, no longer covers the nose and mouth, or cannot stay on your face or is hard to breathe through.
Vaccine Events

THIS WEEKEND

Saturday
- Richard J. Daley College
  7500 S Pulaski Rd
  Saturdays, 9am-2pm
  Jan. 22 & Feb. 12
- Wilbur Wright College
  4300 N Narragansett Ave
  Sundays, 9am-2pm
  Jan. 23 & Feb. 13
- Kennedy-King College
  6301 S Halsted St
  Saturdays, 9am-2pm
  Jan. 29 & Feb. 19
- Olive-Harvey College
  10001 S Woodlawn Ave
  Sundays, 9am-2pm
  Jan. 30 & Feb. 20
- Truman College
  1145 W. Wilson Ave
  Saturdays, 9am-2pm
  Feb. 5 & Feb. 26
- Malcolm X College
  1900 W Jackson Blvd
  Sundays, 9am-2pm
  Feb. 6 & Feb. 27

Sunday
- Chicago
  Mayor Lori E. Lightfoot
  REGISTER: rebrand.ly/YouthVax
  (312) 746-4835
Biden Administration to begin distribution at-home, rapid COVID-19 tests to Americans for FREE

- Ordering process: Starting on Jan. 19 (TOMORROW), Americans will be able to order a test online at [COVIDTests.gov](https://COVIDTests.gov)
- Limit 4 tests to each residential address
- Tests will usually ship within 7-12 days of ordering; partnering with USPS
- Administration is taking steps to ensure this program reaches our hardest-hit and highest-risk communities
  - Prioritizing orders to households experiencing highest social vulnerability and in communities that have experienced a disproportionate share of COVID-19 cases and deaths
  - Launching a free call line to provide additional support
  - Working with national and local organizations to serve as navigators, raise awareness, and help people submit requests
Need a vaccine or a booster? Have questions?

visit CHI.GOV/COVIDVAX

or call 312-746-4835

CDPH