Protecting Chicago: Metrics Update

May 28, 2020
Goal is to limit interactions to rapidly slow the spread of COVID-19

- Physically distance from anyone you do not live with, especially vulnerable friends and family
- Essential workers go to work; everyone else works from home

Goal is to continue flattening the curve while safely being outside

- Stay at home and limit going out to essential activities only
- Stay at home as much as possible
- Wear a face covering while outside your home

Goal is to thoughtfully begin to reopen Chicago safely

- When meeting others, physically distance and wear a face covering
- Non-business, social gatherings limited to <10 persons
- Phased, limited public amenities begin to open

Goal is to further reopen Chicago while ensuring the safety of residents

- Additional public amenities open
- Continue to wear face covering and physically distance

Goal is to continue to maintain safety until COVID-19 is contained

- All businesses open
- Non-vulnerable individuals can resume working
- Most activities resume with health safety in place
- Some events can resume
### CRITERIA FOR TRANSITIONING TO PHASE III

#### Epidemiologic markers

**COVID-19 cases**
- a. Declining case incidence and/or declining percent positivity with stable testing<sup>1</sup>
- b. Stable or declining rates of cases resulting in hospitalization, ICU admission, and/or death<sup>1</sup>
- c. Declining proportion of emergency department visits for influenza-like illness and COVID-like illness<sup>1</sup>

**Hospital Capacity**
- a. Hospital beds (non-ICU): <1800 COVID patients<sup>2</sup>
- b. ICU beds: <600 COVID patients<sup>2</sup>
- c. Ventilators: <450 COVID patients<sup>2</sup>

**Testing Capacity**
- a. Ability to test at least 5% of Chicago residents per month (perform 4500 tests per day)<sup>1</sup>
- b. Percent positivity
  - Congregate settings: <30% positive tests<sup>1</sup>
  - Community settings: <15% positive tests<sup>1</sup>

**Response Capacity**
- Expanded system in place for congregate and community investigations and contact tracing

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1 Over 14 days, based on a 7-day rolling average
2 Total occupancy, across all Chicago hospitals. “COVID patients” includes patients confirmed to have COVID-19 and persons under investigation who have symptoms consistent with COVID-19 with test results pending.
COVID-19 Cases
CAUTIOUS OPTIMISM
New daily COVID-19 cases still high but decreasing (15 days)

COVID-19 cases, daily counts and rolling 7-day average, report date

Decreasing May 6 – May 15
-2.9% daily

Decreasing May 15 – May 21
-1.7% daily

Daily COVID-19 cases in Chicago residents using date case reported by laboratory: Illinois National Electronic Disease Surveillance System
CAUTIOUS OPTIMISM
New cases decreasing across all race-ethnicity groups

Daily coronavirus 2019 (COVID-19) cases reported for Chicago residents with known laboratory report date. Note, there was one case of COVID-19 reported in January 2020 that is not included in the daily counts. As of 05/21/2020 there are 9,554 cases with unknown race/ethnicity out of 39,756 total cases.
CAUTIOUS OPTIMISM
New Black, non-Latinx cases stable or decreasing (26 days)

COVID-19 cases among Black, non-Latinx residents, daily counts and rolling 7-day average, report date

Daily coronavirus 2019 (COVID-19) cases reported for Chicago residents with known laboratory report date. Note, there was one case of COVID-19 reported in January 2020 that is not included in the daily counts. As of 05/21/2020 there are 9,554 cases with unknown race/ethnicity out of 39,756 total cases.
CAUTIOUS OPTIMISM
New Latinx cases high but decreasing (16 days)

COVID-19 cases among Latinx residents, daily counts and rolling 7-day average, report date

Daily coronavirus 2019 (COVID-19) cases reported for Chicago residents with known laboratory report date. Note, there was one case of COVID-19 reported in January 2020 that is not included in the daily counts. As of 05/21/2020 there are 9,554 cases with unknown race/ethnicity out of 39,756 total cases.
CAUTIOUS OPTIMISM
New Asian, non-Latinx cases decreasing (23 of 26 days)

COVID-19 cases among Asian, non-Latinx residents, daily counts and rolling 7-day average, report date

Decreasing April 25 – May 6 -1.0% daily
Decreasing May 6 – May 13 -7.8% daily
Increase May 13 – May 16 5.3% daily
Decreasing May 16 – May 21 -2.9% daily

Daily coronavirus 2019 (COVID-19) cases reported for Chicago residents with known laboratory report date. Note, there was one case of COVID-19 reported in January 2020 that is not included in the daily counts. As of 05/21/2020 there are 9,554 cases with unknown race/ethnicity out of 39,756 total cases.
CAUTIONOUS OPTIMISM

New White, non-Latinx cases decreasing (25 days)

COVID-19 cases among white, non-Latinx residents, daily counts and rolling 7-day average, report date

Decreasing
April 26 – May 5
-0.4% daily

Decreasing
May 5 – May 13
-3.8% daily

Decreasing
May 13 – May 21
-1.6% daily

Daily coronavirus 2019 (COVID-19) cases reported for Chicago residents with known laboratory report date. Note, there was one case of COVID-19 reported in January 2020 that is not included in the daily counts. As of 05/21/2020 there are 9,554 cases with unknown race/ethnicity out of 39,756 total cases.
CAUTIOUS OPTIMISM

Percent positivity still high (now 16.2%) but decreasing, with testing increasing or stable

COVID-19 tests, 7-day rolling average for percent positive (one test per individual ever) and for counts (one test per individual per day)

For percent positivity: Every individual tested is counted once. The first positive test is the date used for the test result. If the individual has only negative tests, the date of the first negative test is used. (INEDSS) For 7-day rolling average of counts: All tests performed on Chicago residents as reported by electronic lab reporting (IDPH).
CAUTIOUS OPTIMISM

COVID-19 hospital admissions decreasing (13 days)

COVID-19 Hospital admissions, daily counts and rolling 7-day average, first known hospital admit date

Hospitalizations are reported to CDPH by hospitals into I-NEDSS and ESSENCE and self-reported by patients via an online survey. Cases who are not indicated to have been hospitalized across any of the three data sources are assumed to not have been hospitalized. Out of 8,457 total hospital admissions, 121 are missing a hospital admit date. One record with a hospital admit date from January 2020 is excluded from this chart.
CAUTIOUS OPTIMISM
COVID-19 ICU occupancy stable or decreasing (18 days)

COVID-19 ICU beds occupied, daily counts and rolling 7-day average, daily occupancy census

Includes COVID19 confirmed and suspected cases occupying adult or pediatric ICU beds. Includes all Chicago hospitals. Hospitals report ICU occupancy daily to CDPH via EMResource, beginning March 19. Includes Chicago and non-Chicago residents.
CAUTIOUS OPTIMISM
COVID-19 deaths decreasing (10 days)

COVID-19 deaths, daily counts and rolling 7-day average, deceased date

Decreasing May 9 – May 19 -2.5% daily

Daily COVID-19 deaths reported for Chicago residents with known death date. Data source: INEDSS.
ILI: Influenza-like illness. Percentage of all emergency department visits reported with influenza-like illness symptoms among Chicago residents. Trend assessments only goes back to 4/23/20.

Data Source: Illinois Hospital Emergency Departments reporting to CDPH through the National Syndromic Surveillance Project.

CAUTIOUS OPTIMISM
Emergency department visits for influenza-like illness decreasing (27 days)

Decreasing April 23–May 19 -2.2% daily
CAUTIOUS OPTIMISM

Emergency department visits for COVID-like illness decreasing

Decreasing
5/5 – 5/17
-2.9% daily

Percentage of all emergency department visits reported with COVID-like symptoms among Chicago residents.

Data Source: Illinois Hospital Emergency Departments reporting to CDPH through the National Syndromic Surveillance Project.
Hospital Capacity
CAUTIOUS OPTIMISM

Hospital capacity adequate: <1,800 non-ICU beds occupied by patients with COVID-19

COVID-19 acute/non-ICU beds occupied, daily counts and reopening threshold, daily occupancy census

Goal is below 1800

Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning April 3 (acute non-ICU occupancy). Acute non-ICU bed counts include burn, emergency department, med/surg, other, pediatrics and psychiatry beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases.
CAUTIOUS OPTIMISM

Hospital capacity adequate: <600 ICU beds occupied by patients with COVID-19

COVID-19 ICU beds occupied, daily counts and reopening threshold, daily occupancy census

Goal is below 600

Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19. ICU bed count includes all adult and pediatric ICU beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases. Note: Beginning 4/24/2020, the definition of ICU beds changed as requested by HHS.
CAUTIOUS OPTIMISM
Hospital capacity adequate: <450 patients with COVID-19 on ventilators

COVID-19 ventilators in use, daily counts and reopening threshold, daily utilization census

Goal is below 450

Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases. Beginning 4/24/2020, ventilator counts include all full-functioning mechanical ventilators, BiPAP, anesthesia machines and portable/transport ventilators.
Testing and Response Capacity
CAUTIOUS OPTIMISM
Testing capacity increasing: now conducting 5,303 tests per day

All COVID-19 tests performed on Chicago residents per day as reported by electronic lab reporting from IDPH. 4500 tests per day represents the capacity to test 5% of Chicago residents per month. Graph is through May 20. As of May 27, 7-day average is up to 5,303 tests per day.
CAUTIOUS OPTIMISM

Percent positivity still high but decreasing: now 16.3% positive in community settings

COVID-19 tests, percent positive, 7-day moving average, first positive test (or first negative test if never-positive)

Community settings include all tests in non-congregate settings. Every individual tested is counted once. The first positive test is the date used for the test result. If the individual has only negative tests, the date of the first negative test is used.
CAUTIOUS OPTIMISM

Percent positivity now 15.2% positive in congregate settings

COVID-19 tests, percent positive, 7-day moving average, first positive test (or first negative test if never-positive)

Goal is under 30%

15.2%

Congregate settings include long-term care facilities (skilled nursing facilities); correctional facilities; and shelters in Chicago. Every individual tested is counted once. The first positive test is the date used for the test result. If the individual has only negative tests, the date of the first negative test is used.
CAUTIOUS OPTIMISM

Whole city making progress (16.3% community positivity; overall goal 15%)

But more than one in five Chicago zip codes still had greater than 20 percent positivity last week

This remains very high compared to other cities, representing ongoing local transmission risk

Data Source: Providers reporting to CDPH through the Illinois National Electronic Disease Surveillance System