Cherry Creek
PLANNING FORWARD
School Restart Planning: Metric and Data Update
Board of Education
October 5, 2020
Planning Forward

Topics:

• Local decision-making metric update
• COVID data and schools
Local Decision-Making Metrics

UPDATE & CHANGES
Four (4) areas of specific Arapahoe County data to guide our decision

1. Positivity Rate
2. Incident Rate per 100,000
3. Cases per day (3-day trend)
4. Hospitalizations

<4 Sustained (7-14 days)
Remote

=>4 Sustained (7-14 days)
In-person

GOOD - Data demonstrates the virus is under control

CAUTION - Data demonstrates there is a concerning trend, monitor closely and be prepared to react

POOR - Data demonstrates significant community spread, uncontrolled
Safety Metrics

Metro Denver Partnership for Health
<table>
<thead>
<tr>
<th>Regional Metric</th>
<th>Purpose</th>
<th>Green Threshold</th>
<th>Yellow Threshold</th>
<th>Red Threshold</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case rates: 14-day case number per 100,000 population</td>
<td>Current level of community transmission to understand where the community has been.</td>
<td>Less than 50</td>
<td>50-100</td>
<td>Greater than 100</td>
<td>A 14-day case number per 100,000 measures the magnitude of COVID-19 infection in a community and is the single best indicator for the likelihood of transmission across the community as well as in settings such as schools.</td>
</tr>
<tr>
<td>Trend in case numbers per 100,000 in the past two weeks</td>
<td>Trend in community transmission to understand where the community is heading.</td>
<td>Less than 25% increase</td>
<td>25-50% increase</td>
<td>Greater than 50% increase</td>
<td>Trend in case rates informs the directionality of transmission within a community and provides context for interpreting and responding to different levels of case rates.</td>
</tr>
<tr>
<td>Percent positivity on polymerase chain reaction (PCR) testing</td>
<td>Adequacy of testing to understand if it is enough to understand community transmission.</td>
<td>Less than 5%</td>
<td>5.1-7%</td>
<td>Greater than 7%</td>
<td>Test positivity provides important insights as to whether testing across the community is sufficient to measure the true magnitude of infection and also how testing is impacting case rates. Rising test positivity rates indicate that rising case rates are not simply a result of increased testing, but a measure of true increases in transmission.</td>
</tr>
<tr>
<td>Potential Additional Metric</td>
<td>Green Threshold</td>
<td>Yellow Threshold</td>
<td>Red Threshold</td>
<td>Comments</td>
<td></td>
</tr>
<tr>
<td>-------------------------------------------------------------------------------------------</td>
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<tr>
<td>Trend in number of hospitalizations of persons with COVID-19 in the past two weeks</td>
<td>Stable or declining (less than 5% increase in the past two weeks compared to the previous two weeks)</td>
<td>5-25% increase</td>
<td>Greater than 25% increase</td>
<td>Hospitalization is minimally affected by testing availability and is thus an important additional measure of increased transmission.</td>
<td></td>
</tr>
<tr>
<td>School district personal protective equipment (PPE) supply</td>
<td>Greater than one month</td>
<td>2-4 weeks</td>
<td>Less than two weeks</td>
<td>PPE supply is a measure of the ability to take steps to prevent transmission.</td>
<td></td>
</tr>
<tr>
<td>Trend in case rates (numbers per 100,000) in the past two weeks for school-age children (5-18)</td>
<td>Less than 25% increase</td>
<td>25-50% increase</td>
<td>Greater than 50% increase</td>
<td>Assessing trends in case rates among school-age children may provide unique insights on the impact of schools and COVID-19 transmission in the event that they change before overall community-wide case rates do.</td>
<td></td>
</tr>
</tbody>
</table>
Safety Metrics

Colorado Department of Public Health & Environment
Counties will move between levels based on the metrics and will work with the state to ensure unique local factors are considered. In order to move to a less restrictive level (e.g., Level 2 to Level 1), counties must meet and sustain all three metrics for two weeks. Counties must engage in a consultation process with CDPHE, which may entail moving to a more restrictive level, when they are out of compliance with any of the metrics for more than two weeks.

**Arapahoe County Two-Week Cumulative Incidence:** 107.8

**Arapahoe County Two-Week Average Positivity:** 3.6%

**8 Days of Declining or Stable Hospitalizations in Arapahoe County**
SAFER AT HOME: LEVEL 1

CAUTIOUS

Does your county qualify for this level?

≤5%

5% positivity rates or less

The percent positivity is defined as the percent of tests that come back positive, out of the total number of tests performed. The global standard to ensure that we are doing enough testing is a percent positivity of less than 5%.

0-75 cases per 100,000

The 2-week incidence, per 100,000 population, helps us understand how much the virus is circulating in a community. This is the number of cases for every 100,000 people in the past two weeks.

No more than 2 NEW Covid-19 hospital admissions per day

One of our key goals is to ensure that every person who needs hospital care can receive it. This metric ensures that there is sufficient hospital capacity available. Stable is defined as no greater than a 25% increase in the county’s referral hospitals or no more than 2 new hospital admissions with COVID-19 on a single day, in the past 14 days.

GUIDELINES AND RESTRICTIONS

- P-12 Schools: In-person suggested or hybrid, remote as appropriate
- Group Sports: 50 person capacity per activity
- Higher Education: In-person suggested or hybrid, remote as appropriate
- Retail: 50% capacity
- Places of Worship: 50% capacity or 175 indoors
- Personal Services: 50% capacity or 50 people
- Restaurants: 50% capacity, 175 outdoors, per local zoning
- Indoor Events: 175 person capacity
- Offices: 50% capacity
- Outdoor Events: 250 person capacity
- Bars: Closed
- Senior Facilities: Outdoor visits, limited to 25%
- Gyms/Fitness: 25% capacity or 75 people
- Outdoor Recreation: 50% capacity or 25 people
## SAFER AT HOME: LEVEL 2

**CONCERN**

Does your county qualify for this level?

≤10%  
10% positivity rates or less  

The percent positivity is defined as the percent of tests that come back positive, out of the total number of tests performed. The global standard to ensure that we are doing enough testing is a percent positivity of less than 5%.

75-175 cases per 100,000  

The 2-week incidence, per 100,000 population, helps us understand how much the virus is circulating in a community. This is the number of cases for every 100,000 people in the past two weeks.

No more than 2 NEW  
Covid-19 hospital admissions per day  

One of our key goals is to ensure that every person who needs hospital care can receive it. This metric ensures that there is sufficient hospital capacity available. Stable is defined as no greater than a 25% increase in the county’s referral hospitals or no more than 2 new hospital admissions with COVID-19 on a single day, in the past 14 days.

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**GUIDELINES AND RESTRICTIONS**

- **P-12 Schools**  
  In-person, hybrid, or remote as appropriate

- **Group Sports**  
  25 person cap per activity

- **Higher Education**  
  In-person, hybrid, or remote as appropriate

- **Retail**  
  50% capacity

- **Places of Worship**  
  50% capacity or 50 people (or up to 100 with calculator) 6ft between parties outdoors, per local zoning

- **Personal Services**  
  50% capacity or 50 people

- **Restaurants**  
  50% capacity or 50 people (or up to 100 with calculator) 6ft between parties outdoors, per local zoning

- **Indoor Events**  
  100 person cap (with calculator)

- **Bars**  
  Closed

- **Senior Facilities**  
  Outdoor and compassionate visitation, indoor under limited circumstances

- **Outdoor Events**  
  175 person cap (with calculator)

- **Gyms/Fitness**  
  25% capacity or 50 people

- **Outdoor Recreation**  
  50% capacity or 10 people
Cherry Creek Safety Metrics

Updates and Changes – Pilot

First Presented to the BOE on September 14, 2020
Update on the Pilot – Review from 9/14/2020

• Replace Hospitalizations with a measure that is more closely associated with safety in schools.
• Worked with the Cherry Creek Teachers Association to identify the new metrics
• We will pilot the new metrics for the next month prior to fully replacing hospitalizations

Possible New Measures:

1. Staff Positivity Rate
   • Positivity rate in staff through the COVIDCheck Colorado
   • Free tests provided to all staff (school-based staff = 2 times per month)
   • Will require a minimum number of tests per month to be a valid measure (e.g. 8,000)

2. Student Incident Rate
   • Tracked through the CCSD contact tracing team
   • Tri-County Health does not track school aged students in CCSD, only by zip code regardless of school of attendance (public, private, charter, home-school, out-of-district)
Planning Forward

Change 1 – Add staff positivity

Possible New Measures:

1. Staff Positivity Rate
   → The rating is created at the end of every week, combining the prior two-week period ensuring sufficient tests have occurred. The measure is updated every Monday.

Minimum Tests:
- Direct work with students = 6000 x 2 per month = 12,000 tests
- Support staff = 3200 x 1 per month = 3,200 tests
- Total tests per month offered = 15,200

GOAL = 60% utilization (9,120 tests per month)
Minimum to be a valid measure = 7,600 tests per month (50% utilization)
= 3,800 tests every 2 weeks to be valid

Thresholds:
- Green (2) - <1.0%
- Yellow (1) - 1.0-1.5%
- Red (0) - >1.5%

UPDATE (10/5/2020):

Over the last 4 weeks there were not sufficient staff tests completed to be a valid measure at any point.

Week 1: 754
Week 2: 1101
Week 3: 796
Week 4: 1091

Not a valid measure

Will change this measure to staff incident rate
Change 1 – Update staff measure to incident rate

New Measures:

1. Staff Incident Rate
   • Tracked through the CCSD contact tracing team
   • Includes positive tests from all labs and is confirmed through Tri-County

Thresholds:
   Current active cases
   Rating updated daily
   - Green (2) - <0.5%
   - Yellow (1) - 0.5 – 1.0%
   - Red (0) - >1.0%

UPDATE (10/5/2020):
This measure will be added to the metric today – 10/5/2020
Planning Forward

Change 2 – Add student incident rate

New Measures:

1. Student Incident Rate
   - Tracked through the CCSD contact tracing team
   - Tri-County Health does not track school aged students in CCSD, only by zip code regardless of school of attendance (public, private, charter, pods, home-school, out-of-district, etc.)
   - Measured based on all In-Person learners and high school online as we have included a number of COVID+ tests for this population and they have the option to return to their home school for activities and athletics (and many have).

Thresholds:
- Current active cases
- Rating updated daily

Green (2) - <0.25%
Yellow (1) - 0.25 – 0.5%
Red (0) - >0.5%

UPDATE (10/5/2020):

Measure has been live on the website for 3 weeks and is a valid measure:

Threshold Update:
- Green (2) - <0.15%
- Yellow (1) - 0.15-0.3%
- Red (0) - >0.3%

This measure will be included on the district metric starting today – 10/5/2020
Change 3 – Feedback received on current metric & hospitalizations

Current Measures:

1. Hospitalizations
   • Hospitalizations remains a valid metric for school safety per CDPHE and the MDPH
   • Feedback to not remove hospitalizations and maintain consistency in the tool

UPDATE (10/5/2020):

The metric will maintain hospitalizations while adding student and staff incident rate
## Metric as of 10/5/2020

<table>
<thead>
<tr>
<th>Measure</th>
<th>Point Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Arapahoe County Positivity Rate</td>
<td>2</td>
</tr>
<tr>
<td>2. Arapahoe County Incident Rate per 100,000</td>
<td>2</td>
</tr>
<tr>
<td>3. Arapahoe County Daily Case Count</td>
<td>2</td>
</tr>
<tr>
<td>4. Arapahoe County Hospitalizations</td>
<td>2</td>
</tr>
<tr>
<td>5. CCSD Staff Incident Rate</td>
<td>2</td>
</tr>
<tr>
<td>6. CCSD Student Incident Rate</td>
<td>2</td>
</tr>
</tbody>
</table>

Total possible points for the metric: **12**
In-Person Learning  | Discuss the trend with Tri-County to prepare for possible transition | Remote Learning

(sustained 7-14 day change in rating)

GOOD - Data demonstrates the virus is under control, move forward

CAUTION - Data demonstrates there is a concerning trend, monitor closely and be prepared to react

POOR - Data demonstrates significant community spread, uncontrolled do not move forward until trend is downgraded
Updated CCSD Dashboard

Data points 1-4
Provided directly from Tri-County Health

Data points 5/6
Provided directly from the CCSD webpage

https://www.cherrycreekschools.org/Page/12858
CCSD COVID Data

First Quarter 2020 Review (as of 10/5/2020)
First Quarter COVID Data in CCSD as of 10/5/2020

<table>
<thead>
<tr>
<th></th>
<th>Total Number of Students COVID Positive</th>
<th>Total Number of Students Quarantined</th>
<th>Total Number of Students Out Of School - Operational</th>
<th>Number of Students Who Tested COVID+ during Quarantine</th>
<th>Total Number of Staff COVID Positive</th>
<th>Total Staff Quarantined</th>
<th>Total Number of Staff Out Of School - Operational</th>
<th>Number of Staff Who Tested COVID+ During Quarantine</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Running Total (8/12)</strong></td>
<td>78</td>
<td>1119</td>
<td>1751</td>
<td>4</td>
<td>28</td>
<td>125</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td>% of Population</td>
<td>0.164%</td>
<td>2.353%</td>
<td>3.682%</td>
<td>0.357%</td>
<td>0.308%</td>
<td>1.375%</td>
<td>0.110%</td>
<td>0.000%</td>
</tr>
<tr>
<td><strong>Active Cases</strong></td>
<td>5</td>
<td>180</td>
<td>0</td>
<td></td>
<td>2</td>
<td>26</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>% of Population</td>
<td>0.011%</td>
<td>0.378%</td>
<td>0.000%</td>
<td></td>
<td>0.02%</td>
<td>0.29%</td>
<td>0.00%</td>
<td></td>
</tr>
<tr>
<td><strong>Returned to School</strong></td>
<td>73</td>
<td>939</td>
<td>1751</td>
<td></td>
<td>26</td>
<td>99</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>