COVID Measures to Inform School Planning

October 18, 2021*

*Please note that the science of COVID-19 is evolving rapidly. This information reflects current guidance and evidence; it will be updated as needed.









Updates

September 2021

> Started providing current, local community data for 8 counties in Ohio rather than 4.

August 2021

- Updated to reflect new guidance from CDC, American Academy of Pediatrics, Ohio Department of Health, and Cincinnati Children's for the 2021-2022 school year
- Current, local community data added to the deck. This includes incidence by county, percentage of tests returning positive, and vaccinations by age.

Prioritizing In-Person Learning

As we enter the 2nd full school year of the COVID pandemic, it is clear there are risks not only from COVID, but also from students not being in school. Education and public health professionals agree it is critical to balance these risks, prioritizing a physical, full-time presence for all kids in classrooms.

Schools should examine measures related to all categories of risk when considering tradeoffs and strategies for the school year, and may share with stakeholders to promote balanced decision—making.

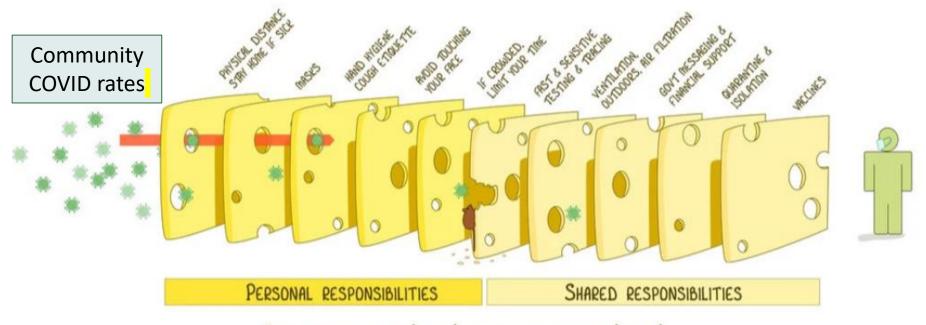
Academic / Social-emotional risks

COVID health risks

LAYERS OF PROTECTION increase the effectiveness of preventing in-school transmission and keeping kids in school.

THE SWISS CHEESE RESPIRATORY VIRUS PANDEMIC DEFENCE

RECOGNISING THAT NO SINGLE INTERVENTION IS PERFECT AT PREVENTING SPREAD



EACH INTERVENTION (LAYER) HAS IMPERFECTIONS (HOLES).

MULTIPLE LAYERS IMPROVE SUCCESS.

SOLD ON THE SAMS CHEESE MODEL OF ACCIDENT CARRATION, BY JAMES T PERSON, 1993.

Schools

Cases, In-school Transmission, Quarantine, Absences



Layers of Protection

Key Layers to reduce COVID transmission and to keep kids face-to-face in school are:

- <u>Vaccination</u> for all eligible staff and students
- <u>Universal Masking</u> for everyone age 2 and older

Other important layers include:

- Physical Distancing as much as possible, ideally more than 3 feet
- If more than 3 feet is not possible with all students in school, prioritize other layered strategies
- Improved ventilation and air flow
- Hand and respiratory hygiene
- Staying home when sick
- Cleaning of physical space
- Use of pods or cohorting of students
- Screening and surveillance testing of asymptomatic students
- School closure/move to virtual **should be last resort**

Agency-specific COVID Recommendations for Schools can be found at the inks below

CDC:

https://www.cdc.gov/coronavirus/2019ncov/community/schools-childcare/k-12guidance.html

AAP:

https://services.aap.org/en/pages/2019novel-coronavirus-covid-19infections/clinical-guidance/covid-19planning-considerations-return-to-inperson-education-in-schools/

■ODH:

https://coronavirus.ohio.gov/static/responsible/schools/K-12-Schools-Guidance.pdf

Key Layer: Vaccination for all eligible staff and students

Currently, all individuals 12 years and older are eligible for vaccination

From the Centers for Disease Control and Prevention:

Over 351 million doses of COVID-19 vaccine have been given in the United States from December 14, 2020, through August 9, 2021. COVID-19 vaccines are safe and effective. COVID-19 vaccines were evaluated in tens of thousands of participants in clinical trials. The vaccines met the Food and Drug Administration's (FDA) rigorous scientific standards for safety, effectiveness, and manufacturing quality needed to support emergency use authorization (EUA).

From the American Academy of Pediatrics:

The AAP recommends COVID-19 vaccination for all children and adolescents 12 years of age and older who do not have contraindications using a COVID-19 vaccine authorized for use for their age. Any COVID-19 vaccine authorized through Emergency Use Authorization by the US Food and Drug Administration, recommended by the CDC, and appropriate by age and health status can be used for COVID-19 vaccination in children and adolescents.

For information on where/how to promote vaccination, please go to http://testandprotectcincy.com

Full statements on vaccine safety and effectiveness can be found at

CDC:

https://www.cdc.gov/coronavirus/2019ncov/vaccines/safety/safety-ofvaccines.html

AAP:

https://pediatrics.aappublications.org/content/148/2/e2021052336

Key Layer: Universal Masking

Agency	Agency Recommendations
Centers for Disease Control and Prevention (CDC)	Universal Indoor Masking for all students age 2 and older, regardless of vaccination status
American Academy of Pediatrics (AAP)	Universal Masking for all students age 2 and older, regardless of vaccination status
Cincinnati Children's Hospital	Universal Masking for all students age 2 and older, regardless of vaccination status
Ohio Department of Health (ODH)	Universal Masking strongly recommended indoors. If an unvaccinated student is exposed to a person with COVID-19 in the classroom AND the exposed student was correctly wearing a mask, they can continue to attend school and wear a mask while monitoring for symptoms. The student should quarantine outside of school.

It is **recommended that masks be <u>required</u>** for all K-12 students, regardless of vaccination status, because:

- Many children are not yet eligible to be vaccinated against COVID-19
- No vaccine is 100% effective at preventing infection
- Masks are about 85% effective in preventing the spread of COVID-19
- Many other layers are more difficult with more kids in the classroom (e.g., distancing)

Using Data to Inform Decisions

Using data to guide decision making

<u>Key Measures:</u> There are 2 categories of data which are key to assessing COVID context when making decisions on layers of protection / in-person learning

<u>District or building data</u> – If there is evidence of COVID being transmitted among staff or students, or there is a high number of students in isolation or quarantine, it may be necessary to add more layers of protection on at least a short-term basis. Key school measures include:

- In-school transmission
- Children in isolation or quarantine
- Vaccination completion

See guiding questions on Slide 10 to assess the level of school transmission to make decisions

<u>Community data</u> – As cases in the community increase, more cases are likely to enter the school building and more layers of protection will be needed to prevent in-school transmission. Key community measures include:

- Incidence (new cases per 100,000 people per week)
- Test positivity (7-day moving average)
- Vaccination completion

See CDC guidance on Slide 11-12 to assess the level of community transmission to make decisions

District or Building Data to Guide Decisions

Monitoring cases & transmission within the school will allow schools to assess the effectiveness of their protective layers

- Cases: Count and rate of school COVID cases
- Isolation/Quarantine: Number of students and staff absent due to exposure or illness
- **Transmission**: Monitor closely for evidence of in-school transmission

Questions to Consider when assessing your in-school data:

- Is there evidence of in-school / school-related transmission? (<u>YES</u> / NO)
 If yes, note setting of transmission: in-class, extracurricular, transportation, etc.
- Are case counts increasing, decreasing, or not changing? (INCREASING / Decreasing / Flat)
- Are students and staff adhering to Protective Bundle with high reliability? (YES / NO)

If answers match **RED** responses above, consider methods to reduce potential exposures.

- Add additional protective layers
- Consider short-term transition to a hybrid or remote model for specific grades or classrooms.

Community Data to Inform Decisions: CDC-defined levels of community transmission

https://covid.cdc.gov/covid-data-tracker/#county-view

- Incidence: total number of new cases per 100,000 people in the past 7 days
- Test positivity:
 percentage of COVID tests
 that are returned as
 positive

Table 1. CDC Indicators and Thresholds for Community Transmission of COVID-191

Indicator	Low Transmission Blue	Moderate Transmission Yellow	Substantial Transmission Orange	High Transmission Red
Total new cases per 100,000 persons in the past 7 days ²	0-9	10-49	50-99	≥100
Percentage of NAATs that are positive during the past 7 days ³	<5.0%	5.0%-7.9%	8.0%-9.9%	≥10.0%

NAAT - Nucleic Acid Amplification Test, including PCR

Using Data to set layers of protection

Community / county data should be referenced as schools select protective measures, prioritizing masking & vaccination. The example below outlines recommendations that align with CDC guidance.

School-selected Layers of Protection	Community Transmission Blue (Low)	Community Transmission Yellow (Moderate)	Community Transmission Orange (Substantial)	Community Transmission Red (High)		
Vaccination	School recommends for all eligible staff and students					
Masking	School recommends for all staff and students	School requires for unvaccinated staff and students* School recommends for vaccinated staff and students	School requires for all st	taff and students		
Other protective layers	School uses community, district, or building-level data to guide choices on other layers of protection					

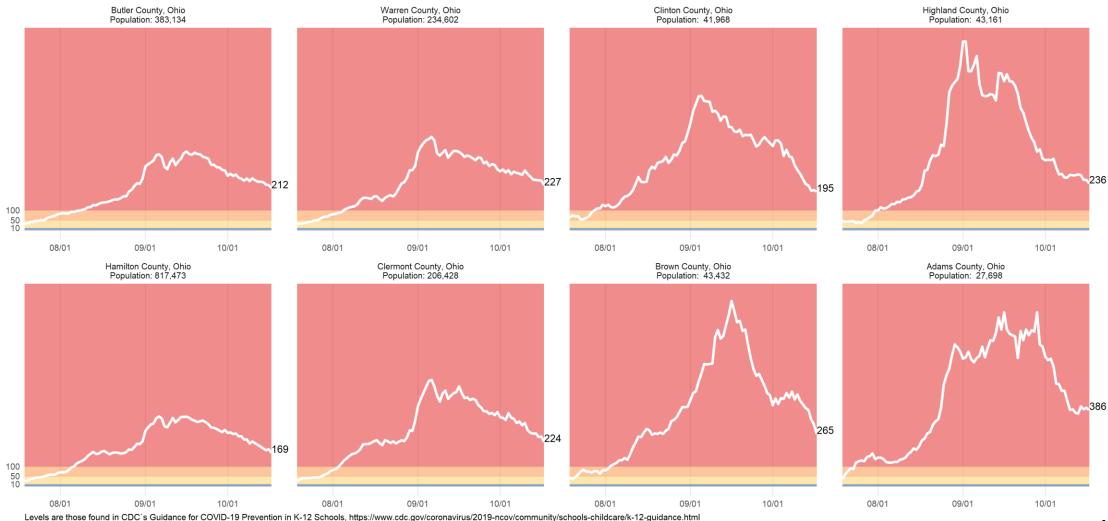
^{*}School may recommend that vaccinated staff who work with children <12 years of age encouraged to mask to normalize the behavior

Current Community Data

Current Data: Incidence (7-day sum of new cases per 100,000)

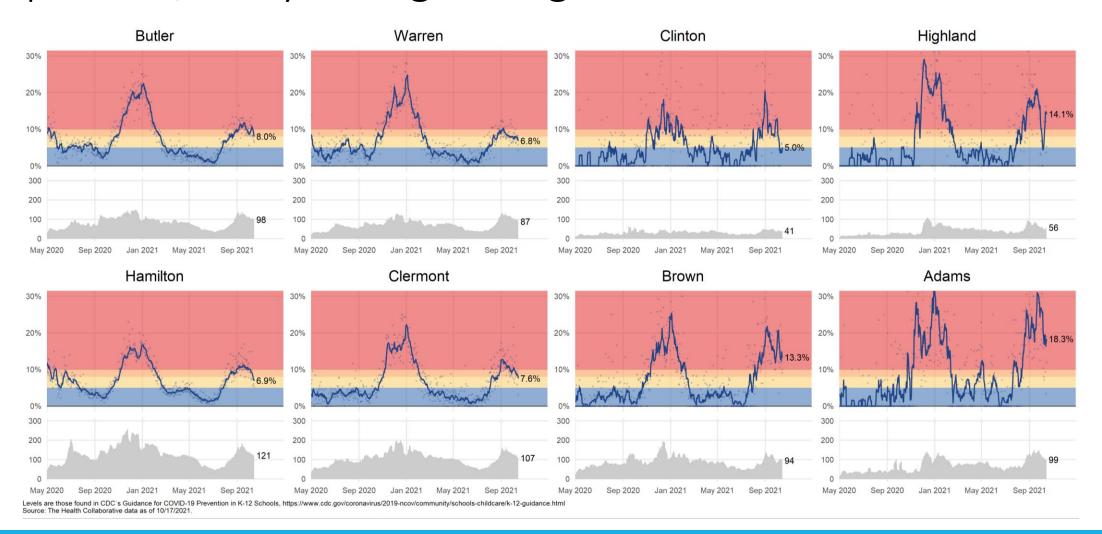
Seven day sum of new Covid cases per 100,000 people in each county with CDC levels

Data from The New York Times, based on reports from state and local health agencies. https://www.nytimes.com/interactive/2020/us/coronavirus-us-cases.html Pulled. 2021-10-17



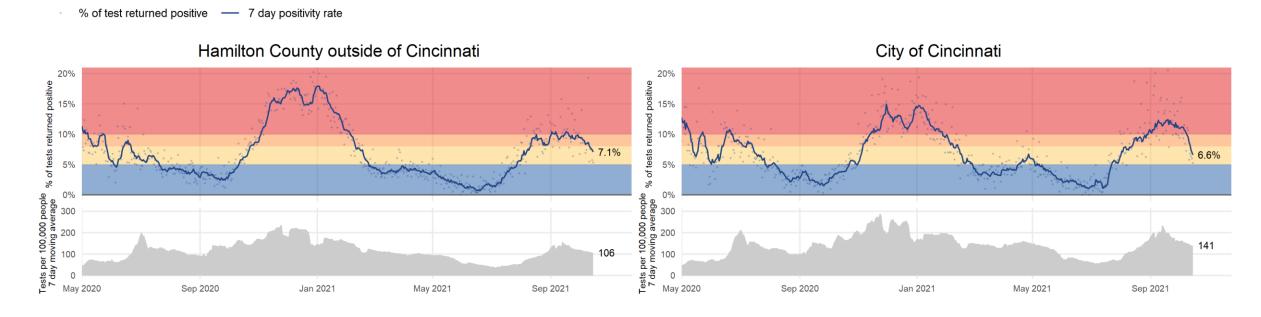
As of 10/17/21

Current Data: Percent of community COVID tests that are positive, 7 day rolling average (source: The Health Collaborative)

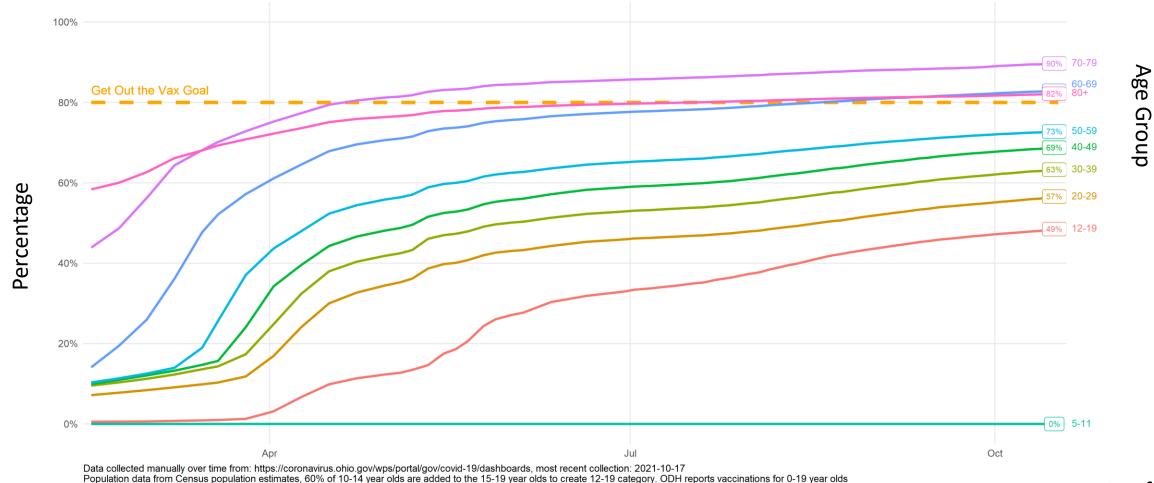


Current Data: Percent of community COVID tests that are positive, 7 day rolling average (source: The Health Collaborative)

Positivity rate and tests per 100,000 people for Hamilton County and City of Cincinnati



Current Data: Hamilton County percentage of population with vaccine started by age



References and Data Resources

American Academy of Pediatrics. *COVID-19 Guidance for Safe Schools*, July 2021. Retrieved from https://services.aap.org/en/pages/2019-novel-coronavirus-covid-19-infections/clinical-guidance/covid-19-planning-considerations-return-to-in-person-education-in-schools/

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Centers for Disease Control. *Guidance for COVID-19 Prevention in K-12 Schools*, August 2021. Retrieved from https://www.cdc.gov/coronavirus/2019-ncov/community/schools-childcare/k-12-guidance.html

Children's Hospital of Philadelphia. *Revised Guidance for In-person Education in K-12 Settings*, July 2021. Retrieved from https://policylab.chop.edu/announcements/new-revised-guidance-person-education-k-12-settings.

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Harvard T.H. Chan School of Public Health. *Risk Reduction Strategies for Reopening Schools*. Retrieved from https://schools.forhealth.org/risk-reduction-strategies-for-reopening-schools/

Ohio Department of Health. *COVID-19 Fact Sheet - Guidelines for K-12 Student Quarantine*, April 2021. Retrieved from https://coronavirus.ohio.gov/static/responsible/covid-19-fact-sheet-k-12-exposure-and-quarantine.pdf.

Data Sources:

- The Health Collaborative Situational Dashboard: https://www.cctst.org/covid19. Includes local data -
 - Daily New Cases per 100,000 people by county, Greater Cincinnati Regional Data, Daily COVID Tests that are Positive
- Centers for Disease Control and Prevention, COVID-19 Integrated County View: https://covid.cdc.gov/covid-data-tracker/#vaccinations-county-view
 - Daily New Cases per 100,000 people by county, United States. current Test Positive Rate by State

Emerging Science

Effectiveness of three versus six feet of physical distancing for controlling spread of COVID-19 among primary and secondary students and staff: A retrospective, state-wide cohort study https://academic.oup.com/cid/advance-article/doi/10.1093/cid/ciab230/6167856

Incidence and Secondary Transmission of SARS-CoV-2 Infections in Schools https://pediatrics.aappublications.org/content/early/2021/01/06/peds.2020-048090

Dawson P, Worrell MC, Malone S, et al. Pilot Investigation of SARS-CoV-2 Secondary Transmission in Kindergarten Through Grade 12 Schools Implementing Mitigation Strategies — St. Louis County and City of Springfield, Missouri, December 2020. MMWR Morb Mortal Wkly Rep. ePub: 19 March 2021. DOI: http://dx.doi.org/10.15585/mmwr.mm7012e4.

Doyle T, Kendrick K, Troelstrup T, et al. COVID-19 in Primary and Secondary School Settings During the First Semester of School Reopening — Florida, August—December 2020. MMWR Morb Mortal Wkly Rep. ePub: 19 March 2021. DOI: https://www.cdc.gov/mmwr/volumes/70/wr/mm7012e2.htm.

Hershow RB, Wu K, Lewis NM, et al. Low SARS-CoV-2 Transmission in Elementary Schools — Salt Lake County, Utah, December 3, 2020–January 31, 2021. MMWR Morb Mortal Wkly Rep. ePub: 19 March 2021. DOI: https://www.cdc.gov/mmwr/volumes/70/wr/mm7012e3.htm.

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PREVENT, PROMOTE, PROTECT.





