COVID Measures to Inform School Planning - *Updated*

As of March 29, 2021*

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









Updates – March 2021

- Updated guidance for schools has been issued by the Centers for Disease Control and Prevention (CDC); American Academy of Pediatrics (AAP); Brown University-Harvard University Safra Center, Pandemics Explained; and the World Health Organization (WHO).
- All organizations emphasize the value of in-person learning. Experience over the past year has shown that schools can effectively use mitigation to minimize the risk of in-school COVID transmission.
- This updated document briefly describes the updated guidance and provides links for information. The previously shared HGHI guidance can be found in the appendix.
- With the variation in guidance and <u>new evidence emerging</u>, final decisions regarding school operations rest with individual districts to make in collaboration with local public health agencies.

Protective Measures for Schools

CDC, AAP, WHO, Brown/Safra Pandemics Explained

Guidance contains similar suggestions to reduce the risk of COVID-19 transmission in the school building.

- Universal Masking
- Physical Distancing
 - Recommendations for physical distancing have variation among agency guidance: see slide 7
- Vaccination for staff and students as available
- Hand hygiene
- Improved ventilation and air flow
- Staying home when sick
- Quarantining or monitoring close contacts exposed to a positive case at less than 6 feet of distance for more than 15 minutes.
- Cleaning of physical space
- Pods / cohorts of students
- Screening / surveillance testing of asymptomatic students

Links

- **•CDC**: <u>https://www.cdc.gov/coronavirus/2019-ncov/community/schools-childcare/operation-strategy.html</u>
- ■AAP: 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/
- ■Brown University-Harvard University Safra Center, Pandemics Explained:

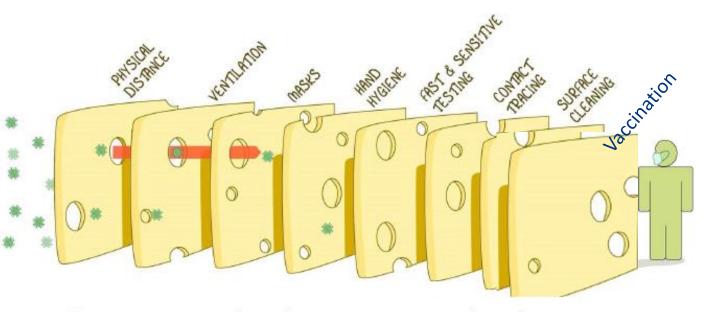
https://globalepidemics.org/2020/12/18/school
s-and-the-path-to-zero/

•WHO:

https://www.who.int/publications/i/item/9789 240017467 The image below shows how adding multiple, layered mitigation strategies increases the effectiveness of all strategies in preventing in-school transmission.

THE SWISS CHEESE RESPIRATORY VIRUS DEFENCE

RECOGNISING THAT NO SINGLE INTERVENTION IS PERFECT AT PREVENTING SPREAD



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(MULTIPLE LAYERS IMPROVE SUCCESS.

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Schools

Cases, In-school Transmission, Quarantine, Absences





Measurement and assessment of school cases

While useful to track what is happening in the community, we believe incidence and transmission of COVID-19 within the school setting remains the leading consideration. Useful data for schools to track are:

- Cases: Count and rate of school COVID cases
 - Monitor closely for evidence of in-school transmission
- **COVID-Related Absences**: Count of staff absent for COVID-related reasons (isolation, quarantining, caretaking)
 - Assess adequacy of staffing levels for safe and effective operations

Questions to Consider:

- Is there evidence of in-school / school-related transmission? (YES / NO)
 - •If yes, note setting of transmission: in-class, extracurricular, transportation, etc.
- Is there enough staff to operate effectively and safely? (YES / NO)
- Are students and staff adhering to Protective Bundle with high reliability? (YES / NO)

Guidance to guide when to stop on-site learning based on cases and quarantines does not exist, so base decisions on practical considerations in partnership with local health dept.

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

- If currently at full capacity, consider hybrid model. If currently using hybrid model, consider remote learning.
 - These changes may be short term (days or weeks) or within a specific grade or building

Closer look:

Recommendations for physical distancing in the classroom

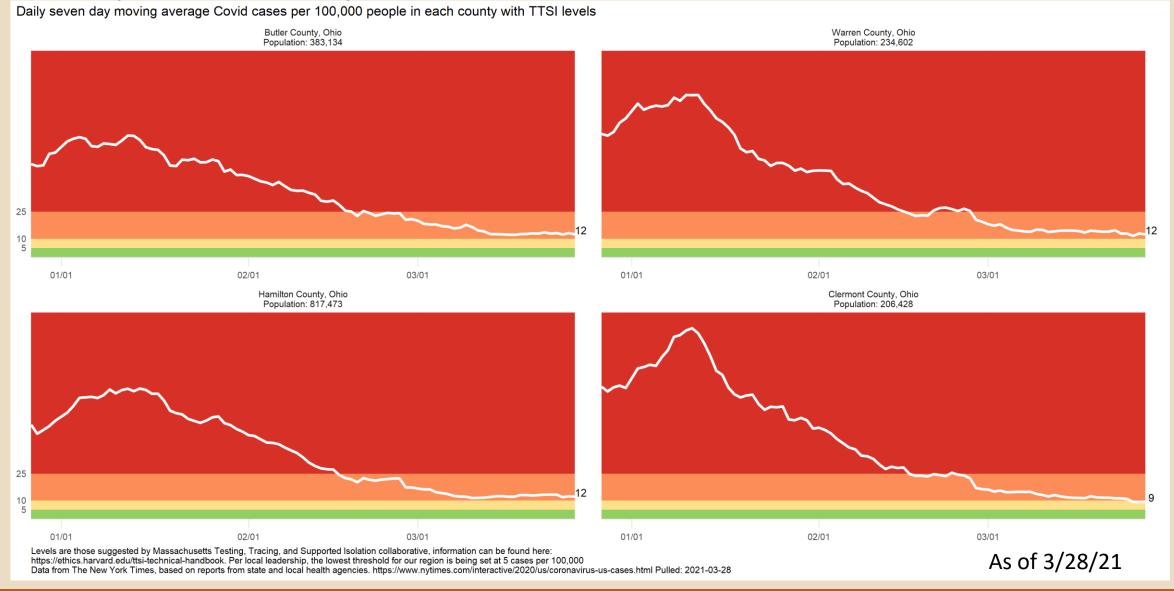
As of 3/23/2021. For CDC recommendations re sports/extracurriculars see Slide 16.

CDC	3 feet	For elementary students at all community levels. For middle and high school students when community levels are Blue, Yellow, or Orange (<14 new cases per 100,000 per day or <100 new cases per 100,000 per week – see slide 16)
	6 feet	For middle and high school students when community levels are Red IF cohorting is not possible (Red >14 new cases per 100,000 per day or >100 new cases per 100,000 per week – see slide 16)
AAP	6 feet	Is ideal
	3 feet	Is acceptable if otherwise remote learning would be the only option.
HGHI / Brown-Safra	3 feet	For younger learners at all levels of community spread
	3 feet	For high schools when community spread is below 100 cases per 100,000 per day
	6 feet	For high schools when community spread is above 100 cases per 100,000 per day
WHO	3 feet / 1 meter	

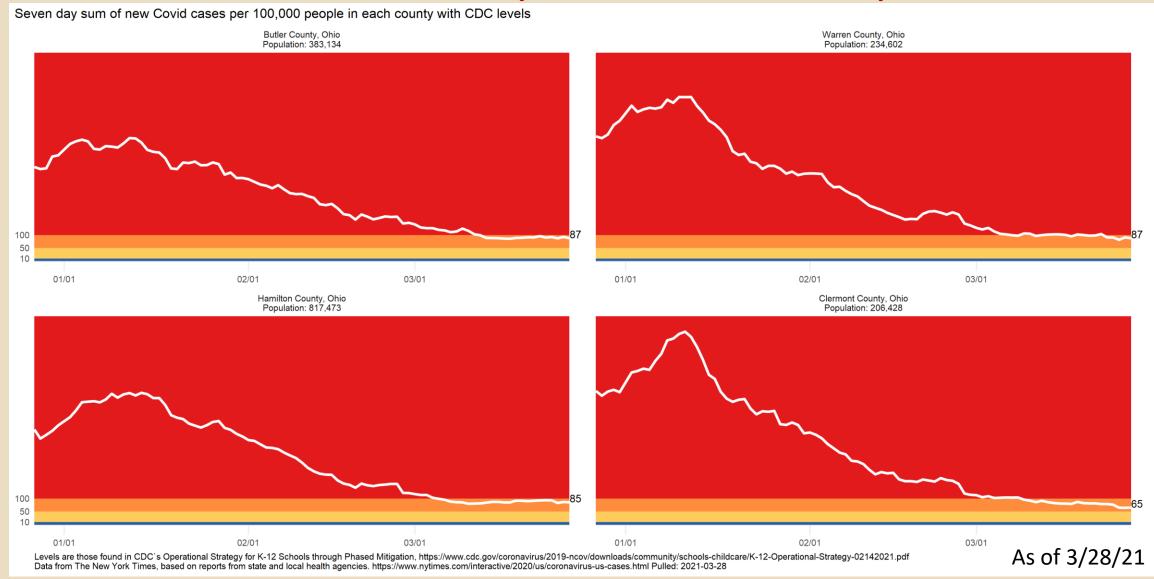
- CDC continues to recommend quarantine for close contacts exposed under 6 feet for more than 15 minutes as of 3/24/2021
- Emerging research shows low transmission in a school setting when protective measures are in place, even without quarantine: MMWR March 19th 2021, https://www.cdc.gov/mmwr/Novel Coronavirus Reports.html. See slide 13.
- See this link for COVID quarantine information from Ohio Department of Health: https://coronavirus.ohio.gov/static/responsible/covid-19-fact-sheet-k-12-exposure-and-quarantine.pdf

Current Community Data

Daily new cases per 100,000 (7-day moving average)



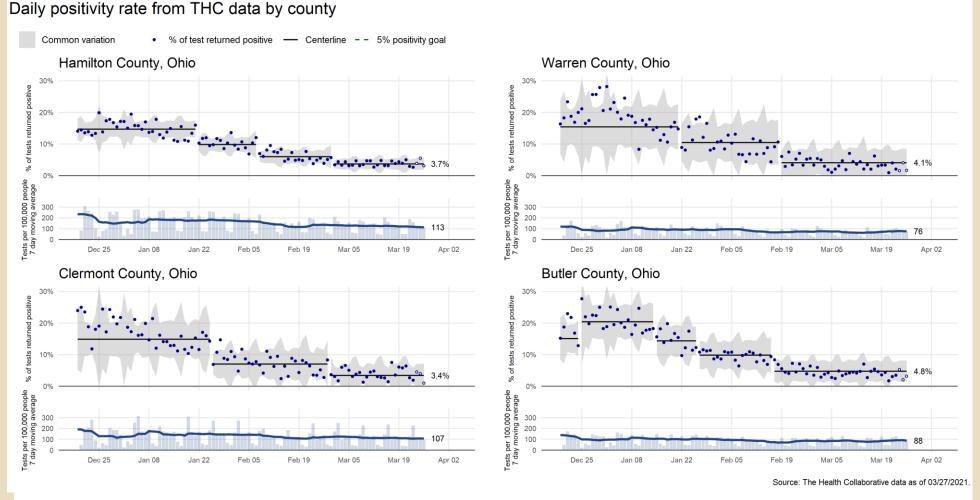
NEW CDC Thresholds: 7-day sum of new cases per 100,000



Current Data: Percent of community COVID tests that are positive

CDC Thresholds Community Level % of Tests that are positive Blue <5% Yellow 5% - 7.9% Orange 8% - 9.9% Red 10% or more

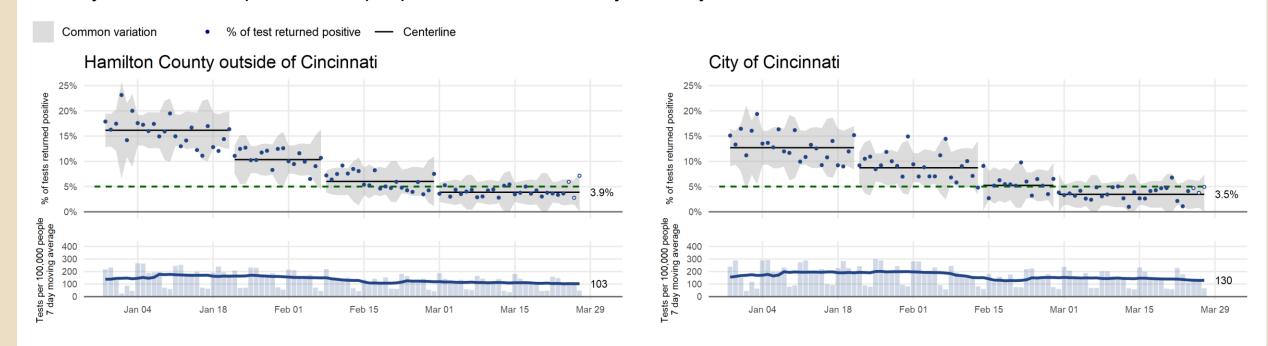
See slide 17 for details on CDC Community Levels



Open circles indicate points highly subject to change. Location is based on address provided to the lab. Source: The Health Collaborative data as of 3/27/2021

Current Data: Percent of community COVID tests that are positive

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



Open circles indicate points highly subject to change. Location is based on address provided to the lab.

Source: The Health Collaborative data as of 03/29/21

References and Data Resources

American Academy of Pediatrics. *COVID-19 Guidance for Safe Schools*, January 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/

Brown University/Harvard University Safra Center, Pandemics Explained. *Schools and the Path to Zero: Strategies for Pandemic Resilience in the Face of High Community Spread, Updated December 2020.* Retrieved from https://globalepidemics.org/2020/12/18/schools-and-the-path-to-zero/.

Centers for Disease Control. *Operational Strategies for K-12 Schools through Phased Mitigation*, February 2021. Retrieved from https://www.cdc.gov/coronavirus/2019-ncov/community/schools-childcare/operation-strategy.html.

Children's Hospital of Philadelphia. *Policy Review: Evidence and Guidance for In-person Schooling during the COVID-19 Pandemic.* Retrieved from https://policylab.chop.edu/reports-and-tools/policy-review-evidence-and-guidance-in-person-schooling-during-covid-19-pandemic.

Chu, D.K.., Akl, E.A., Duda, S., Solo, K., Yaacoub, S., Schunemann, H.J. (2020) Physical distancing, face masks, and eye protection to prevent person-to-person transmission of SARS-CoV-2 and COVID-19: a systematic review and meta-analysis. The Lancet, 395 (10242), 1973-1987. Retrieved from https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(20)31142-9/fulltext.

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/

World Health Organization. *Checklist to support schools re-opening and preparation for COVID-19 resurgences or similar public health crises*, December 2020. Retrieved from https://www.who.int/publications/i/item/9789240017467.

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
- Harvard Global Health Institute, Key Metrics for COVID Suppression: https://globalepidemics.org/key-metrics-for-covid-suppression/
 - 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: http://dx.doi.org/10.15585/mmwr.mm7012e2external icon.

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: http://dx.doi.org/10.15585/mmwr.mm7012e3external icon.

Reviewed By

Hamilton County Public Health: Commissioner Greg Kesterman, MPA; Assistant Health Commissioner Jennifer Mooney, PhD, MS; David Carlson, MPH; Tom Boeshart, MPH

Cincinnati Health Department: Commissioner Melba R. Moore, DBA, MS, CPHA; Maryse Amin, PhD, MS; Steve Englender, MD, MPH; Grant Mussman, MD

Cincinnati Children's Hospital Medical Center: Robert Kahn, MD, MPH; Susan Sprigg, MPH; David Hartley, PhD, MPH; Andrew Beck, MD, MPH

The Health Collaborative: Craig Brammer, CEO; Alex Vaillancourt, CPHIMS, Chief Information Officer









APPENDIX

CDC Strategies 3/23/2021

<u>All Schools Implement 5 Key Prevention Strategies</u>: Universal and correct use of masks required; Physical distancing; Handwashing and respiratory etiquette; Cleaning and maintaining healthy facilities; Contact tracing in combination with isolation and quarantine

Low Transmission Blue	Moderate Transmission Yellow	Substantial Transmission Orange	High Transmission Red	
Elementary Schools Physical distancing: at least 3 feet between	een students in classrooms	Elementary Schools Physical distancing: at least 3 feet between students in classrooms. Cohorting recommended when possible		
Middle and High Schools Physical distancing: at least 3 feet between	een students in classrooms	Middle and High Schools Physical distancing: at least 3 feet between students in classrooms Cohorting recommended when possible	Middle and High Schools Schools that can use cohorting: at least 3 feet of distance Schools that cannot use cohorting: at least 6 feet distance between students in classrooms	
Sports & extracurricular activities occur with at least 6 feet of physical distancing to the greatest extent possible Sports and extracurricular activities occur with at least 6 feet of physical distance required		Sports and extracurricular activities only occur if they can be held outdoors, with more than 6 feet of physical distancing		

Schools may consider adding **Screening Testing** of asymptomatic individuals to this table of strategies. As of March, 2021:

- CDC recommends once per week for teachers and staff at all levels of community incidence.
- CDC recommends routine screening testing for all students at Yellow, Orange, and Red levels.
- See link below for Screening Testing recommendations for extracurricular activities

CDC-defined levels of community transmission

Note: CDC community thresholds are different from the previously-used HGHI thresholds and current Brown University-Harvard University Safra Center guidelines

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

Below are levels previously recommended by HGHI. These were <u>discontinued</u> with new guidance issued in January 2021

Community Measures, proposed thresholds:

Below is an adaptation of suggested thresholds from Harvard Global Health Institute (see link below for original recommendations).

Category	Daily New Cases per 100,000	Schools should:
Red	>25	Encourage remote learning for all learners when possible
Orange	10<25	Consider remote or hybrid learning unless Community Performance Indicators (slide 3) met. If Community Performance Indicators are met, follow guidance in Yellow:
Yellow	1<10	Consider if school protective protocols can be strictly implemented (see slide 4) If no, consider remote or hybrid learning If yes, consider return to in-person with possible prioritization & phase-in: • Priority 1: preK-5, special education through 8 th • Priority 2: grades 6-8 and special education for grades 9-12 • Grades 9-12: • Not a priority in Orange – continued remote or hybrid learning • Return in Yellow on hybrid schedule IF distancing can be maintained for all grades, majority of time
Green	<1	All grades in school with strict protection protocols

Harvard Global Health Institute. *The Path to Zero and Schools: Achieving Pandemic Resilient Teaching and Learning Spaces.* Retrieved from https://globalepidemics.org/wp-content/uploads/2020/07/pandemic_resilient_schools_briefing_72020.pdf.