BACK TO SCHOOL 2020-2021
AUGUST 20, 2020 UPDATES

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QUOTE

Dr. Michael Osterholm
July 23, 2020
Director of the Center for Infectious Disease Research and Policy (CIDRAP)
Osterholm Update: COVID-19
Episode 17: Reopening Schools Part 2

"Be thoughtful. Be tolerant. Understand in the school situation there is no one answer...we have to help each other be strong, we have to help each other be safe."

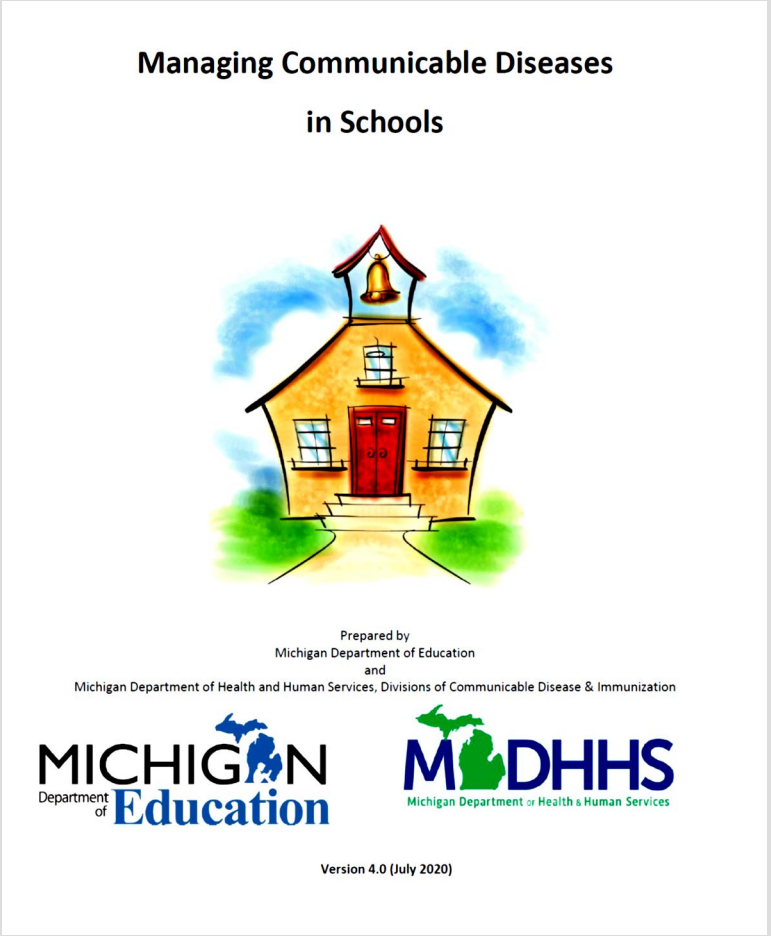
MORE TO HELP…

- Video for teachers/staff (if desired)
  - https://drive.google.com/file/d/1sjvSbLDS1iwea5sMSrHf07JXbI_Dv08A/view?usp=sharing
  - https://www.dropbox.com/s/8pcvv4ji2ky0l6e/COVID%20talk%20for%20schools.mp4?dl=0
- The science (100 pages of it…and updated often)
  - COVID-19 School and Community Resource Library https://bit.ly/mghcovidlibrary
- Resources shared in the past (also on our websites)
  - SCHOOLS FOR HEALTH Risk Reduction Strategies for Reopening Schools https://www.wasa-oly.org/WASA/images/WASA/6.0%20Resources/Hanover/Harvard%20Report%20for%20Reopening%20Schools---June%202020.pdf
  - Reopening America's Schools: A Public Health Approach https://preventepidemics.org/wp-content/uploads/2020/06/Reopening-Americas-Schools_07-08-2020-Final.pdf

GENERAL UPDATE

- Updated version of “Managing Communicable Diseases in Schools” https://www.michigan.gov/documents/mdch/Managing_CD_in_Schools_FINAL_469824_7.PDF

- It can also be found by going to www.michigan.gov/cdinfo and clicking on the CD Resources & Forms link and looking under *Investigation Guidelines.*



FANS/VENTILATION

- SCHOOLS FOR HEALTH Risk Reduction Strategies for Reopening Schools https://www.wasa-oly.org/WASA/images/WASA/6.0%20Resources/Hanover/Harvard%20Report%20for%20Reopening%20Schools---June%202020.pdf
  - See starting on pg. 31 there is good info on ventilation

- On pg 33: ***Note that devices that simply recirculate the same indoor air without filtering it or replacing it with fresh air are not helpful*** *in reducing any airborne virus present in the room* ***(including most window air conditioning units, fans used in rooms with closed windows, and fan coils and radiators).***

THE SOLUTION TO POLUTION IS DILUTION

- HEPA filters are a relatively inexpensive and helpful addition as long as they are for the proper size room.

- More info available at https://www.ashrae.org/technical-resources/reopening-of-schools-and-universities


Decision Tree of General Ventilation Operation Guidance for COVID-19
Building relies on natural ventilation
Building has mechanical ventilation system
• Open windows
• Use window fans to promote airflow into the building
Supply air (i.e., air being pushed into occupied rooms)
Exhaust & airflow between building zones
• Increase the outdoor air ventilation rate to at least the ASHRAE minimum to help dilute any airborne virus. If possible, consider increasing the outdoor air ventilation rate above the ASHRAE minimum to promote occupant health.
• Disable the demand-controlled ventilation (DCV) if present.
• Can the ratio of fresh outdoor air to recirculated air be adjusted?
Yes: Shut off or minimize airflow recirculation.
No: Increase filtration.
• Maintain negative pressure in locations which are possible sources of virus transmission such as bathrooms.
• Operate exhaust fans in bathrooms at all times
• Don't open the bathroom windows, if opening windows in bathrooms causes re-entrainment of bathroom air into other building spaces.
• Dedicate separate local exhausts venting directly outdoors for each probable source zone, to the extent possible.

BOOKS/LIBRARY

REOPENING ARCHIVES, LIBRARIES, AND MUSEUMS (REALM) INFORMATION HUB: A COVID-19 RESEARCH PROJECT

HTTPS://WWW.WEBJUNCTION.ORG/EXPLORE-TOPICS/COVID-19-RESEARCH-PROJECT.HTML

SUMMARY OF TEST PHASES 1-3

In standard office temperature and relative humidity conditions typically achievable by any air-conditioned office space no detectable SARS-CoV-2 virus after:

2-day quarantine:
- Archival folders

3-day quarantine:
- Hardback book cover (buckram cloth)
- Softback book cover
- Plain paper pages inside a closed book
- Plastic book covering (biaxially oriented polyester film)
- DVD cases

4-day quarantine:
- Braille pages
- Glossy book pages*
- Board books.

*magazine pages showed a trace amount of virus at four days

Five-day quarantine:
- Storage bag (flexible plastic)
- DVDs

Still with virus after 5 days (final timepoint tested)
- Rigid plastic storage container, plexiglass, and USB cassette all showed detectable virus at five days.
- Alternatively, based on the materials' nonporous nature, suitable liquid disinfection methods may promote a more rapid decontamination than the quarantine method

MASKS/NECK GATORS

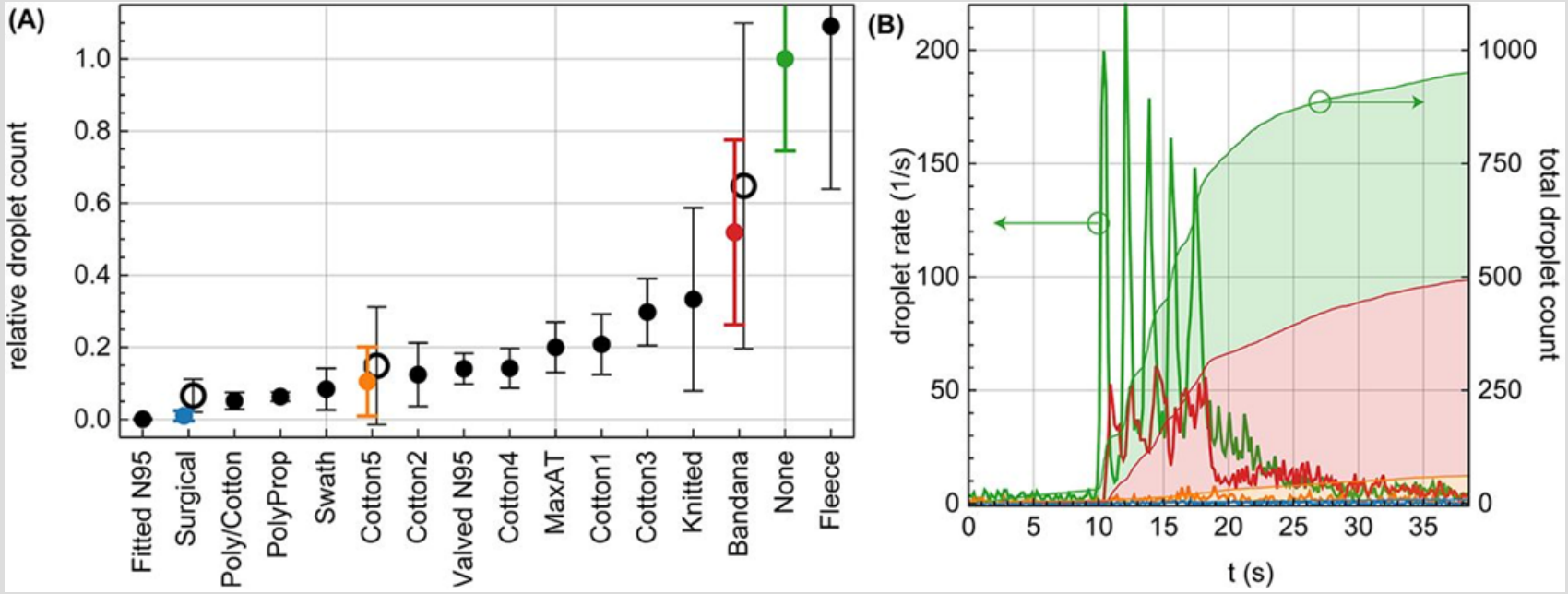
- The fabric on neck garters are thin, single layered, and stretchy.
- Anything stretchy is worse than non-stretchy as when it is stretched, the size between the fibers increases and will do a worse job of filtering out droplets from the person wearing it.
- Here is the study

https://advances.sciencemag.org/content/early/2020/08/07/sciadv.abd3083.full

- NOTE: **The study was done on ONLY 4 wearers for 3 of the masks and only ONE WEARER for the other 11 masks**

Table 1 Face masks under investigation. This table lists the investigated face masks, mask alternatives, and mask material (masks are depicted in Fig. 1). **Masks marked with an asterisk (*) were tested by four speakers, all others by one speaker.**

Mask, Name	Description
1, 'Surgical' *	Surgical mask, 3-layer
2, 'Valved N95 '	N95 mask with exhalation valve
3, 'Knitted'	Knitted mask
4, 'PolyProp'	2-layer polypropylene apron mask
5, 'Poly/Cotton'	Cotton-polypropylene-cotton mask
6, 'MaxAT'	1-layer Maxima AT mask
7, 'Cotton2'	2-layer cotton, pleated style mask
8, 'Cotton4'	2-layer cotton, Olson style mask
9, 'Cotton3'	2-layer cotton, pleated style mask
10, 'Cotton1'	1-layer cotton, pleated style mask
11, 'Fleece'	Gaiter type neck fleece
12, 'Bandana' *	Double-layer bandana
13, 'Cotton5' *	2-layer cotton, pleated style mask
14, 'Fitted N95'	N95 mask, no exhalation valve, fitted
'Swath'	Swath of mask material, polypropylene
'None' *	Control experiment, no mask



PLAYGROUND EQUIPMENT

- The CDC states at https://www.cdc.gov/coronavirus/2019-ncov/community/disinfecting-building-facility.html:
- **Cleaning and disinfecting outdoor areas**
- Outdoor areas, like playgrounds in schools and parks generally require **normal routine cleaning, but do not require disinfection.**
  - Do not spray disinfectant on outdoor playgrounds- it is not an efficient use of supplies and is not proven to reduce risk of COVID-19 to the public.
  - High touch surfaces made of plastic or metal, such as grab bars and railings should be cleaned routinely.
  - Cleaning and disinfection of wooden surfaces (play structures, benches, tables) or groundcovers (mulch, sand) is not recommended.

RUGS

- Specific studies haven’t been done on how long SARS-CoV-2 can live in soft surfaces like carpets, towels and clothes but viruses as a rule cannot live as long in these types of environments as on hard smooth surfaces like desktops.

CLEANING AND HYGEINE

- Good overview and numerous resources/links re: cleaning and hand hygiene for schools at https://www.cdc.gov/coronavirus/2019-ncov/community/schools-childcare/clean-disinfect-hygiene.html
- It does state on this page "**Cleaning and disinfection products should not be used by children or near children**, and staff should ensure that there is adequate ventilation when using these products to prevent children or themselves from inhaling toxic fumes."

CLOSE CONTACT

- MDHHS now recommends we consider a close contact as being within 6ft. of a case for at least15 minutes CUMULITIVE (not at one time)

- The CDC now defines a close contact (https://www.cdc.gov/coronavirus/2019-ncov/if-you-are-sick/quarantine.html) as:
  - An individual who was within 6 feet of someone with COVID-19 for at least 15 minutes.
  - An individual who provided care at home to someone who is sick with COVID-19.
  - An individual who had direct physical contact with the person (touched, hugged, or kissed them).
  - An individual who shared eating or drinking utensils.
  - An individual who was sneezed or coughed on by an infected individual or who somehow was touched by respiratory droplets from an infected individual.

WHAT IS AN OUTBREAK IN SCHOOL

- Open to discussion
- One definition will likely be 2 cases within 2 weeks at a school that are linked to each other at the school but in no other way (not on same sports team, family members, didn't go to same party, etc.)

ADDRESSING MASK EXEMPTIONS

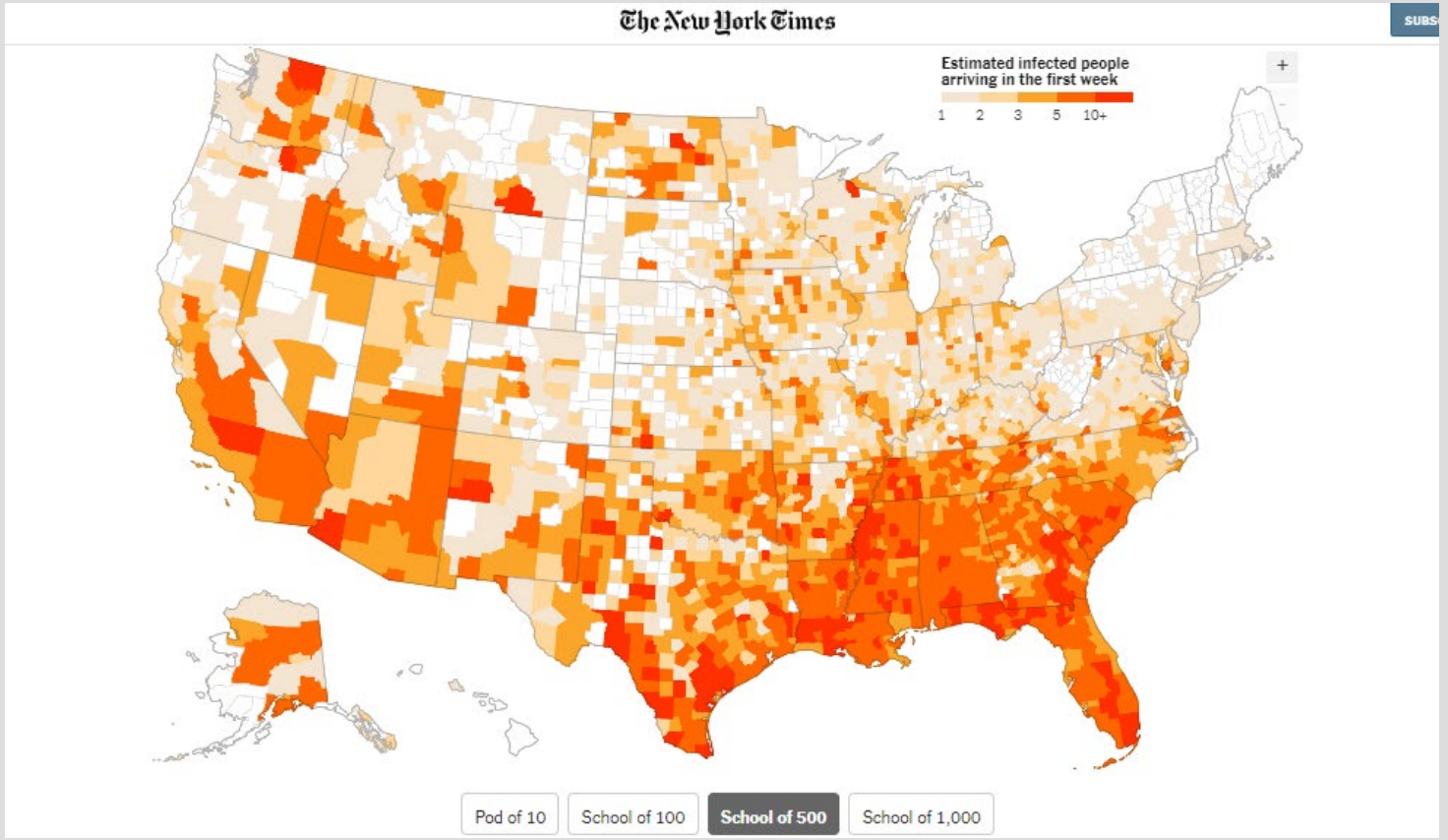
- What People With Asthma Need to Know About Face Masks and Coverings During the COVID-19 Pandemic https://community.aafa.org/blog/what-people-with-asthma-need-to-know-about-face-masks-and-coverings-during-the-covid-19-pandemic
- Mask Toolkit for Children https://www.urmc.rochester.edu/strong-center-developmental-disabilities/resources/masks-toolkit.aspx
- Kid's Picture Book: Wearing a Mask to School (free to reproduce): https://drive.google.com/file/d/1R1lSbfZ8TRchbHCiK_4svK7WLH62lSIH/view?blm_aid=32695

SCHOOL IN-PERSON/REMOTE

- Guidance (NOT rules) coming out from MDHHS/U of M later this week/early next week
- Will be very similar to what we have discussed on these calls/other recordings
- Will take into consideration MiSafeMap.info community data, any recent increases in community, plus any COVID activity in the school
- Based on this information, action could be:
  - In person education with mitigation measures
  - Hybrid model with/without an appropriate pause first
    - Hybrid: some in person some remote to ensure distancing; break could be 3-5 days to 14 days depending on situation
  - Elementary in person/high school hybrid or remote
  - Remote instruction for entire district

County	School of 100	School of 500	School of 1,000
New York, NY	0	1	1
Manistee	0	0	0
Wexford	0	1	1
Missaukee	0	0	0
Kalkaska	0	0	1
Mason	0	0	0
Lake	0	0	1
Mecosta	0	0	1
Oceana	0	2	3
Newaygo	0	1	2
Crawford	0	1	1
Roscommon	0	0	0
Gladwin	0	1	3
Arenac	0	0	0
Clare	0	1	2
Osceola	0	0	0
Isabella	0	0	1
Gratiot	0	1	2
Montcalm	0	1	1
Clinton	0	2	3
Miami-Dade County, Fla.	4	19	38

THE RISK THAT STUDENTS COULD ARRIVE AT SCHOOL WITH THE CORONAVIRUS
(ESTIMATED INFECTED PEOPLE ARRIVING THE FIRST WEEK)
FROM DATA ENDING JULY 28



https://www.nytimes.com/interactive/2020/07/31/us/coronavirus-school-reopening-risk.html?campaign_id=9&emc=edit_nn_20200731&instance_id=20861&nl=the-morning&regi_id=93963229&segment_id=34885&te=1&user_id=06d685745a245f9b4c147adab84d31b8