

# District 200 COVID-19 Data Update



*Goal: Provide our students with a school year that is safe and as close to normal as possible*

Wednesday, September 8, 2021

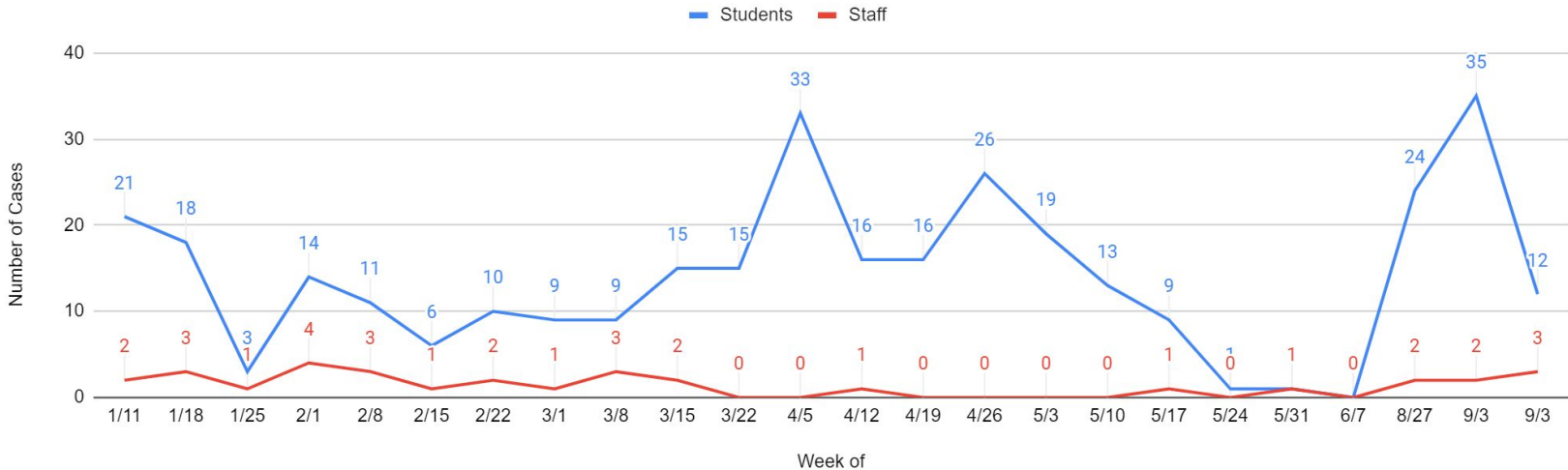
# District 200 New Cases per Week

## (District 200 COVID Data Dashboard)

Current New Student Cases as of Noon Today: 12

Current New Staff Cases as of Noon Today: 3

District 200 New Positive Cases per Week



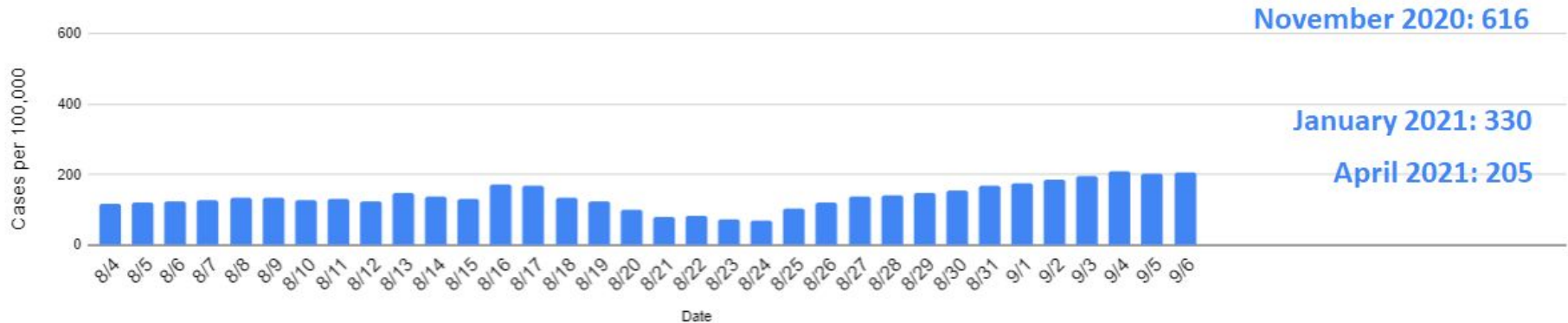
# Zip Code Cases per 100,000 Residents

(Northwestern Medicine COVID Dashboard)

(Historical: DuPage County from Illinois Department of Public Health)

Most Recent Cases per 100,000: 197

Daily Cases per 100,000 in District 200 Zip Codes





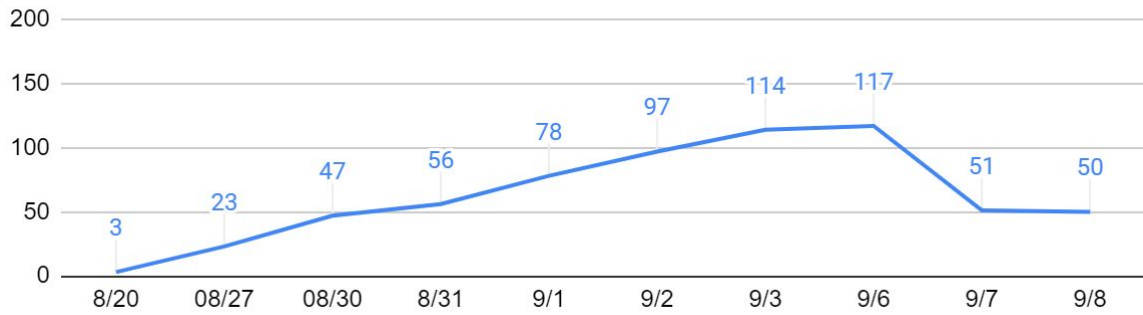
# District 200 Students Quarantined for Close Contact

(District 200 COVID Data Dashboard)

Data as of Noon on Wednesday, September 8, 2021

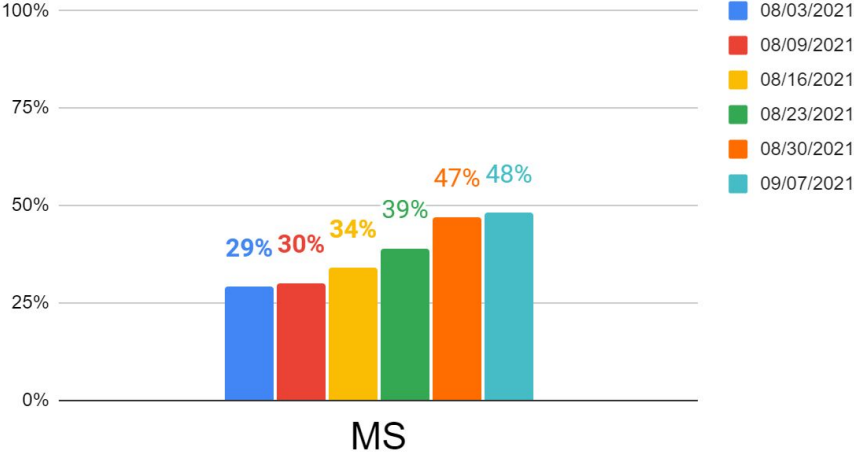
Current STUDENT Status																								
D200	EC/EI	MS	HS/Tr	WN	WWS	Trans	EMS	FMS	HMS	MMS	Bow	Em	Haw	John	Linc	Long	Low	Mad	PH	Sand	Wash	Whit	Wies	Jeff
95	53	33	9	7	2	0	1	0	11	21	7	3	1	3	2	0	1	4	5	1	4	12	1	9

Total CURRENT In School CC Quarantines

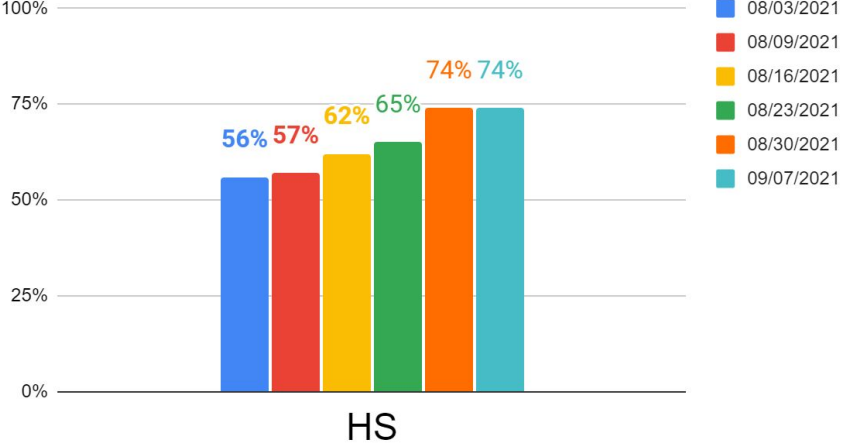


# District 200 Approximate Student Vaccination Rate (Illinois Department of Public Health Database)

MS Approx PARTIALLY Vaccinated



HS Approx PARTIALLY Vaccinated



# Outbreak & Investigation



Illinois Department of Health Definition: Any two cases that are linked epidemiologically with respect to person, place (school building), and time (within 14 calendar days).

District 200 Investigation Protocol: For each case of two overlapping cases within a single school, District 200 looks beyond close contact (physical distancing) and also analyzes other factors, implementation of mitigations, information from nurses; notes, and ventilation data, visiting individual classrooms if needed.



As of noon today, District 200 has investigated 17 instances of overlapping cases at 11 schools, finding no evidence of in-school transmission.

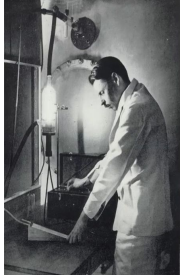


# COVID-19 Indoor Safety Guideline

## Online App



# Is the tool based on solid science?



Public health is not solely the domain of medical professionals. The use of physics in preventing disease transmission dates continuously from the early 20th century.



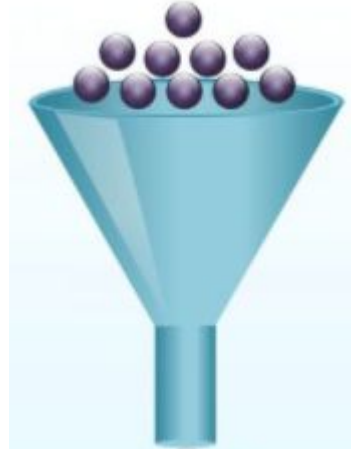
December 2020: Pre-publication draft & tool

April 2021: Peer-reviewed

Published by NIH (National Institutes of Health)

# What data does the tool analyze?

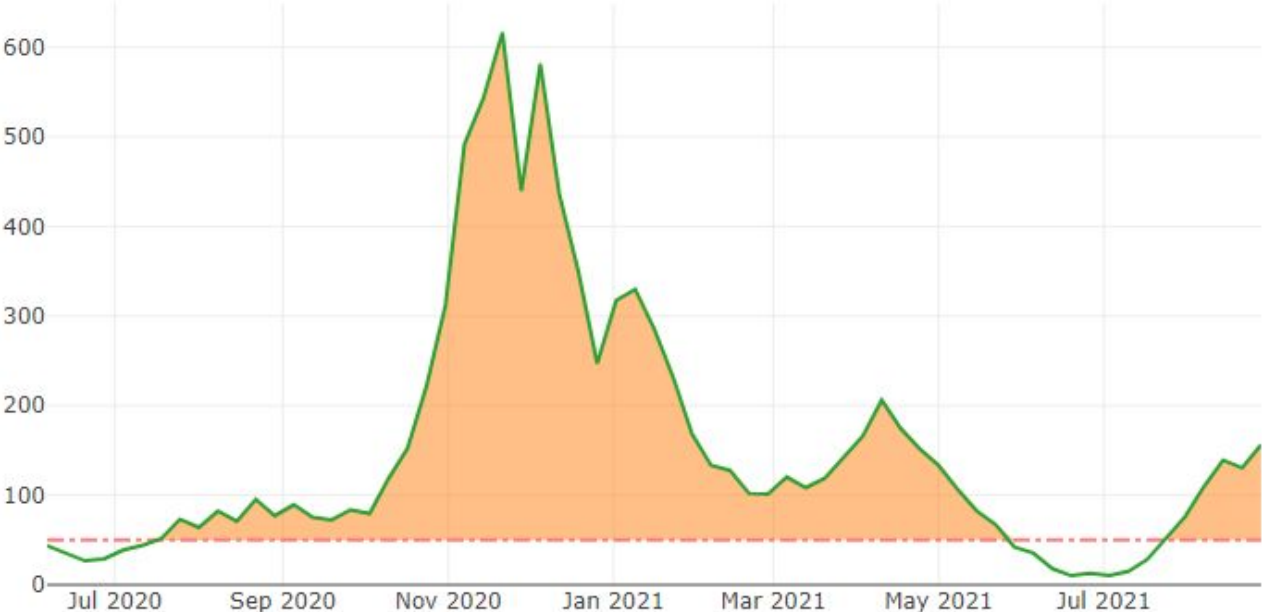
Physics of respiratory droplets and aerosols  
Immunology of COVID-19 (including Delta variant)  
Spreader-event data



District 200 staff then enters a variety of data points.

# Local Public Health Data

Prevalence  
(7-Day Cases per 100,000)



Variant



# Classroom Specifications

Square feet

Ceiling height

Air changes per hour

Humidity

Filtration level by MERV (Minimum Efficiency Reporting Values)



# Human Factors

Number of People



Age



Sitting / Exercising & Speaking / Singing

Masking (yes/no; type; fit)



Risk Tolerance

# Human Factor & Public Health Data

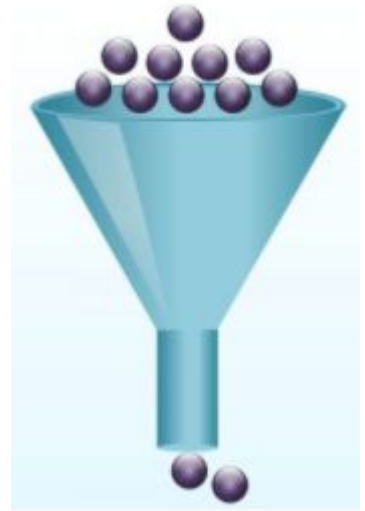
% Immune (vaccination rate)



# Output

This space can safely hold

X number of people for X number of hours.



# Aren't mathematical models theoretical? Don't they have limitations?



Yes. However:

The complexity of the MIT model makes it stronger than others, such as a traditional risk matrix.

District 200 looks at the tool as part of a multi-data protocol monitored daily by a team.




The Centers for Disease Control has cited many theoretical models as sources of information for its guidance.



# District 200 Safe Hours for School Environment

(MIT COVID-19 Indoor Safety Guideline Online App)

## Week of September 6, 2021

Level	Meets or Exceeds 18 Hour Threshold*
Elementary/EC	
Middle School	
High School	

\*The 18 hour threshold was based on our 2020 - 2021 data.