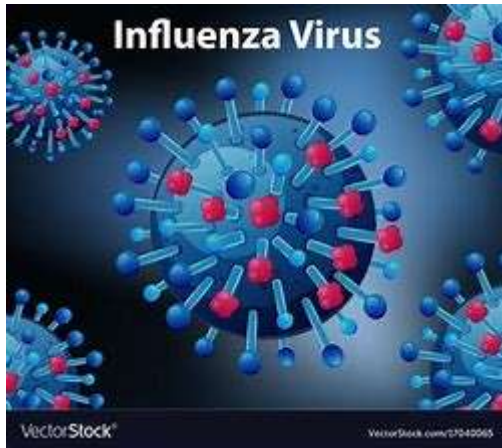
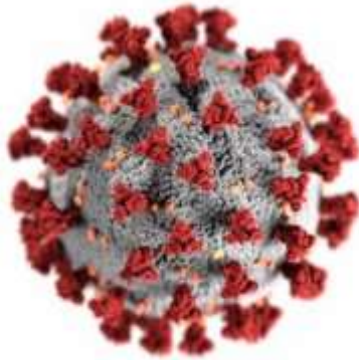




Novel Coronavirus
(COVID-19)



Respiratory Disease Outbreak at a Local Intermediate School

February 2024

Outbreak Overview

- CCBH notified on 2/5/2024 of high volume of absent students at local primary school grades 3-5
- ~80 students absent that day, with a typical absentee amount reportedly being ~30-40 kids
- Early reports indicated possible GI illness based on information from facility nurse and administration

Possible Exposure Events

Thursday, 2/1/2024- KIS in school for full normal day, evening school events included talent show and aftercare

Friday, 2/2/2024- KIS in school for full normal day, evening school events included talent show, basketball game, and aftercare

-No cafeteria lunch is served at this school, and no non-prepackaged foods were served at any event

Initiation of Investigation

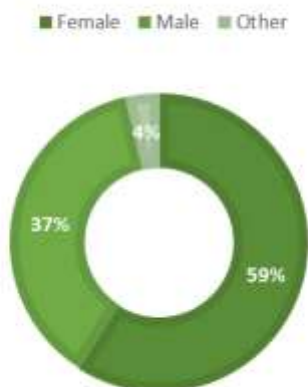
- Based on illness volume and ongoing GI illness outbreaks statewide an investigation was started
- Case-Control Study
 - -Surveymonkey
 - -Absentee list was used to Identify sick individuals
 - -School agree to offer survey link to all students, staff, and families to provide controls
 - -Demographics, illness, symptoms, severity, duration, possible exposures

Survey Results

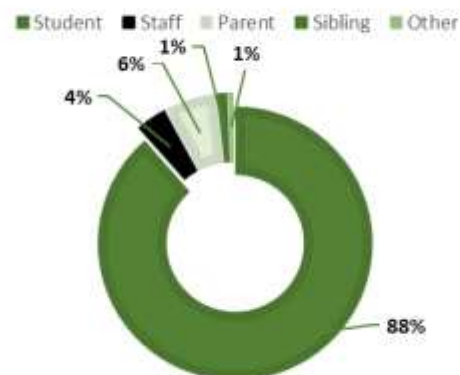
- A total of 292 survey responses were recorded
- After cleaning and deduplication (thanks Kyley), 166 records were included in our data set

Respondent Demographics

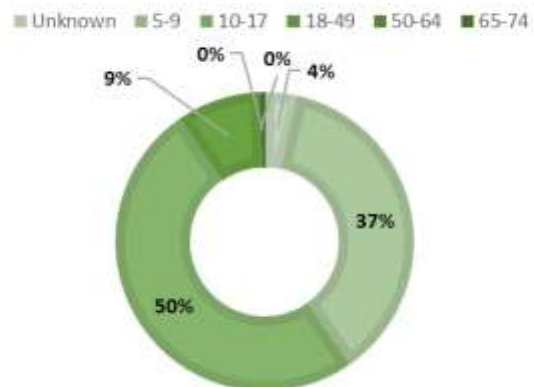
SURVEY RESPONDENTS BY SEX



SURVEY RESPONDENTS BY TYPE



SURVEY RESPONDENTS BY AGE



SURVEY RESPONDENTS REPORTING ANY ILLNESS

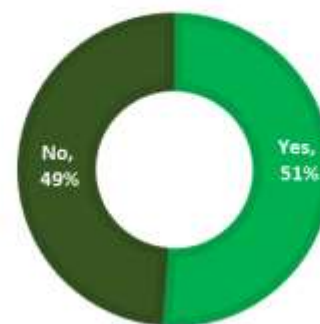
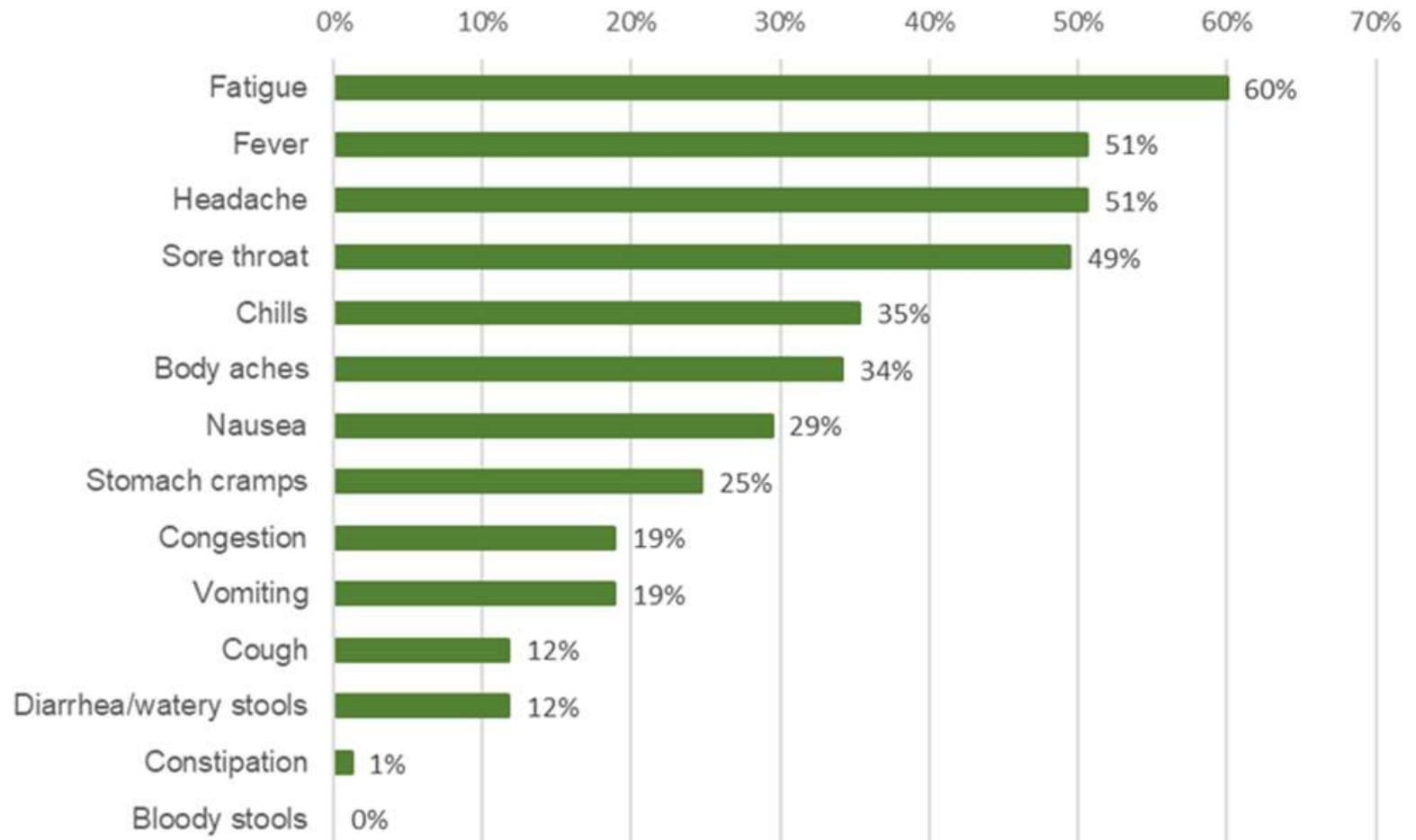


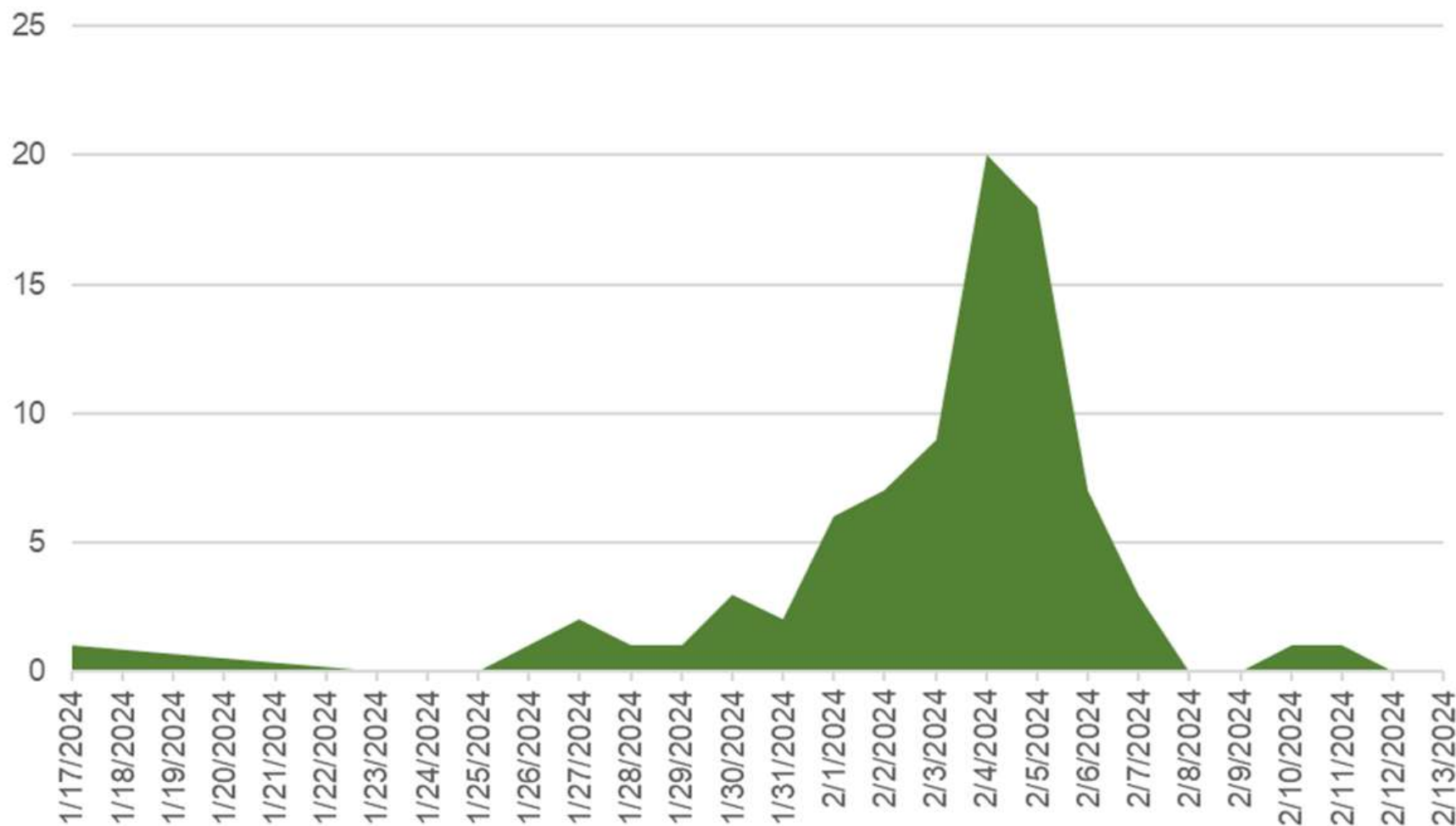
Table 1. Illness attack rates by demographics

	Ill n	Not Ill n	Total n	Attack Rate %
Total	85	81	166	51.2
Student	75	71	146	51.3
Parent	7	3	10	70
Staff	2	4	6	33.3
Sibling	1	1	2	50
Unknown	0	1	1	0
Female	50	48	98	51
Male	28	34	62	45.2
Unknown	1	5	6	16.7
5-9 years	24	37	61	39.3
10-17 years	51	32	83	61.4
18-49 years	9	6	15	60
50-64 years	0	0	0	***
65-74 years	0	1	1	0
Unknown	1	5	6	20
White	80	70	150	53.3
Black/ African American	1	0	1	100
Asian/ Asian American	0	1	1	0
American Indian/ Alaska Native	0	0	0	***
Native Hawaiian/ Pacific Islander	0	0	0	***
Other	3	5	8	37.5
Non-Hispanic	81	81	162	50
Hispanic	4	0	4	100

Symptoms Reported by Ill Respondents



Reported Illness Onset by Date



Not a GI Outbreak?

- 83.5% of sick respondents only reported symptoms consistent with respiratory illness
- Only 19% reported vomiting and 12% reported diarrhea
- No statistically significant risk associated with specific days or events
- Specific causes cited: 3 COVID-19, 7 Flu, 7 Strep throat
- CDI team obtained positive lab results for 3 Flu cases and 3 Strep throat cases, allowing us to designate this as a respiratory outbreak

Limitations and Challenges

- Incomplete data set from school
- Initial reporting and assessment subject to possible experience bias
- This made instrument design inadequate for most likely actual causes
- Multiple identified pathogens makes overall analysis difficult (different illnesses which are similar but may still have differences in symptoms and course history)

Conclusions and Discussion

- This “outbreak” was likely related to multiple clusters of common respiratory diseases overlapping (and a few cases of GI illness probably)
- Communicating directly with staff in building is best source of information
- Requesting all information upfront at one time
- Making sure not to jump to conclusions

Questions?

