

Epidemiological Outbreak Report of Lab-Confirmed COVID-19 Teacher and Student Cases in an Elementary School

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Summary

- There is a total of 40 lab-confirmed COVID-19 cases in an Elementary School from October 1st to October 19th, 2023. 6 of the confirmed cases were teachers and the other 34 were students.
- From the 34 student cases 3 (8.8%) were hospitalized and none deceased. On the other side from the 6 teachers 2 (33%) were hospitalized and none were deceased.
- The highest number of recorded cases occurred from October 2nd to October 7th with the peak occurring on October 8th. The majority of the cases occurring during this time were student cases but also 5 of the 6 teachers. After this period the number of cases began trending downwards.
- Among both teachers and students there were more lab-confirmed cases for females than males during the outbreak period.
- Among both teachers and students there were more hospitalizations for students in age group 0-19 during the outbreak period.

Summary table

A total of 40 COVID-19 cases were lab-confirmed in the outbreak from October 1st to October 19th, 2023, in an Elementary School. From the 40 cases, 34 were students and the other 6 were teacher cases. Furthermore, of the 34 students, 3 were hospitalized and none passed away. However, from the 6 teachers only 2 were hospitalized and none passed away.

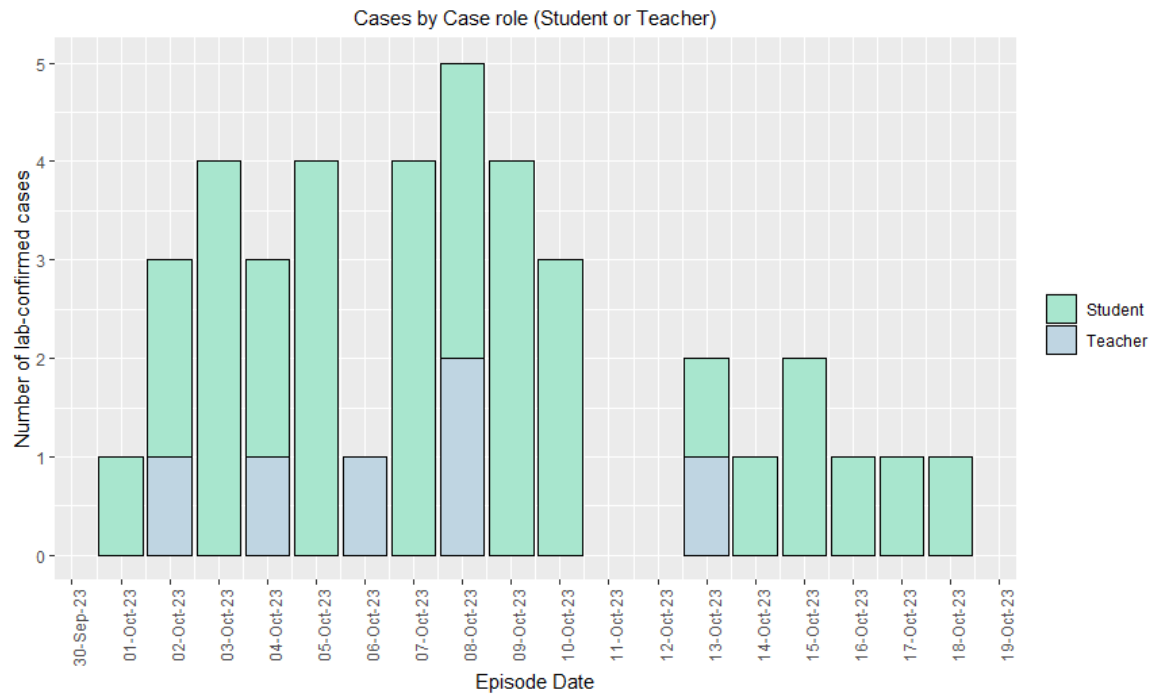
Table 1. Summary of all Lab-Confirmed COVID-19 teacher and student cases in an Elementary School, October 1st – October 19th, 2023

| Characteristic | Student N = 34[†] | Teacher N = 6[†] |
|-----------------------|---------------------------------------|--------------------------------------|
| Age | 9.1 (6.0 - 12.0) | 38.5 (29.0 - 52.0) |
| Sex | | |
| Female | 20 / 34 (59%) | 5 / 6 (83%) |
| Male | 14 / 34 (41%) | 1 / 6 (17%) |
| Hospitalized | | |
| No | 31 / 34 (91%) | 4 / 6 (67%) |
| Yes | 3 / 34 (8.8%) | 2 / 6 (33%) |
| Deceased | | |
| No | 34 / 34 (100%) | 6 / 6 (100%) |

Epidemiological Curve

The epidemiological curve shows the number of lab-confirmed COVID-19 student and teacher cases by episode date. The number of cases peaked between October 2nd to October 7th with the peak occurring on October 8th being comprised of mostly students. After that period a steady downtrend can be seen in the number of cases.

Figure 1: Number of Lab-Confirmed Covid-19 cases from October 1st - October 19th 2023

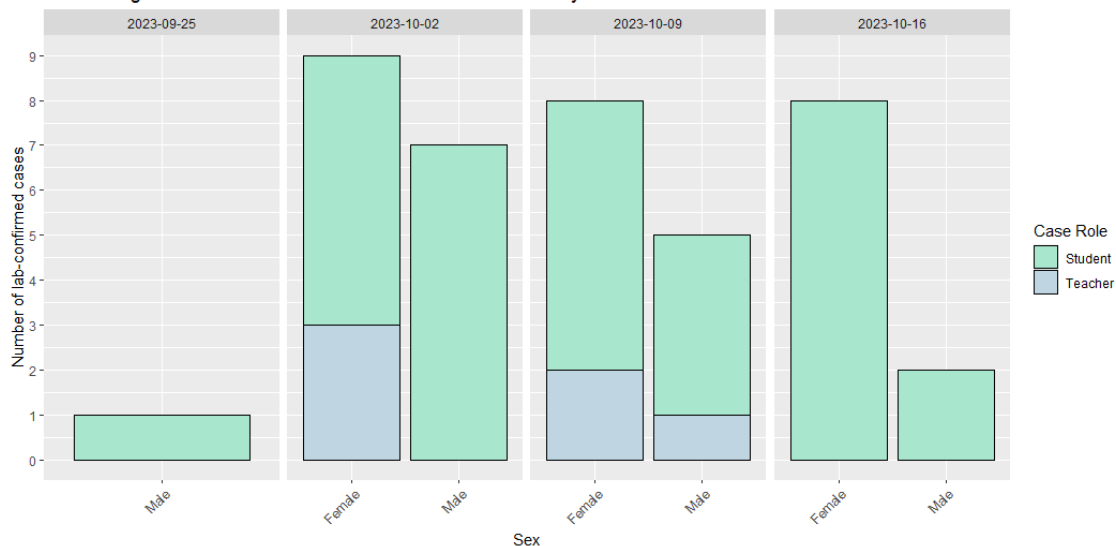


Learner Chosen Charts

Male vs Female

Further examining the sex aspect of the outbreak highlights that there were more female COVID-19 cases in both groups (teachers and students) and each week of the outbreak except for the first.

Figure 2: Number of Lab-Confirmed Covid-19 cases by sex from October 1st - October 19th 2023



Age range hospitalizations

There were only 3 age ranges with the age range of 0-19 being solely students, and 30-19 along with 50-59 being teachers. The highest rate of hospitalization was in people aged 0-19 which happens to be the student group.

