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Sensitivity tests and sucking ventilations indoor for mitigating COVID-19

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Although Ronan Lordan et al. mentioned “Current diagnostic tests cannot identify silent infections reliably and are not sufficiently fast and inexpensive to make a school-wide testing-based surveillance system practical” (1). As long as sensitivity is 100 %, we will not miss the infected persons. The sensitivity of a test is also called the true positive rate and is the proportion of samples that are genuinely positive that give a positive result using the test in question. Sensitivity is calculated by (the number of true positives) / (the number of true positives + the number of false negatives). False negative results play a key role in detecting infected persons including asymptomatic ones. As of Today, there are several 100% sensitivity tests which can be provided to schools (2).

All we need to do is to protect students against airborne COVID-19. In order to control the airflow of airborne viruses, simply installing sucking ventilations indoor plays a key role in mitigating airborne COVID-19.

References:

1. Ronan Lordan et al., Reopening schools during COVID-19, Science 04 Sep 2020: Vol. 369, Issue 6508, pp. 1146

2. EUA Authorized Serology Test Performance, FDA

<https://www.fda.gov/medical-devices/coronavirus-disease-2019-covid-19-emergency-use-authorizations-medical-devices/eua-authorized-serology-test-performance>