

Disiplin Protokol Kesehatan Pencegahan COVID-19 Saat Pembelajaran Tatap Muka di Depok = Discipline of COVID-19 Prevention Health Protocols During Face-to-Face Learning in Depok

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Abstrak

Pandemi mengingatkan perlunya membuat ketangguhan sistem dan kapasitas lokal masyarakat urban untuk mencegah penyebaran penyakit menular termasuk terjadinya kluster Covid-19 di lingkungan sekolah. Penelitian kuantitatif regresi linear digunakan untuk menganalisis sikap guru terhadap pembelajaran daring di masa pandemi, faktor-faktor yang berhubungan dengan disiplin protokol kesehatan pencegahan kluster sekolah dan menjelaskan alat desinfeksi UVC untuk meningkatkan kualitas udara dalam ruangan di sekolah berbasis metode eksperimental. Hasil penelitian sesuai nilai signifikansi menunjukkan bahwa faktor Pendidikan, Vaksin, Pengetahuan, Sarana, Sikap dan Kebijakan sangat berpengaruh terhadap disiplin protokol kesehatan pencegahan Covid-19 saat pembelajaran tatap muka. Solusi untuk meminimalkan penularan melalui udara menggunakan sarana desinfeksi udara telah dibuktikan melalui pengujian radiasi dalam ruang sebesar 7,31 mW/cm², menonaktifkan bakteri yang memiliki ketahanan lebih tinggi dibandingkan SARS-CoV-2, mereduksi 84,83% konsentrasi mikroba dalam ruangan hingga DNA virus terdegradasi hanya dalam waktu 5 detik menggunakan spesimen virus SARS-CoV-2 yang diduga merupakan varian Omicron. Semoga pemerintah dapat mengadopsi dan mengadaptasi rekomendasi desinfeksi udara pada hunian, ruang kelas, perkantoran, area publik yang tertutup hingga sarana transportasi massal.

.....The pandemic reminds us of the need to build resilience in the system and local capacities of urban communities to prevent the spread of infectious diseases, including the occurrence of clusters of Covid-19 in schools. Quantitative research with linear regression was used to analyze teacher's attitudes towards online learning during pandemic, factors related to the discipline of health protocols for school cluster prevention and explain UVC disinfection tools to improve indoor air quality in school base on experimental methods. The results according to the significance value show that the factors Education, Vaccine, Knowledge, Facilities, Attitude dan Policy greatly influence the discipline of the Covid-19 prevention health protocol during face-to-face learning. The solution for minimizing airborne transmission using an air disinfection tool has been proven by testing indoor radiation of 7.31 mW/cm², deactivating bacteria that have higher resistance than SARS-CoV-2, reducing 84.83% of the concentration of microbes in the room and Virus DNA was degraded in just 5 seconds using specimen of suspected SARS CoV-2 Omicron variant. Hopefully, the government can adopt and adapt recommendations for air disinfection in residential areas, classrooms, offices, closed public areas and mass transportation.