Guillermo Barrios del Valle <gbv@ier.unam.mx>

Invitation to review for Energy & Buildings

1 message

Energy & Buildings <em@editorialmanager.com> Sat, May 1, 2021 at 7:13 AM
Reply-To: Energy & Buildings <enb@elsevier.com>
To: Guillermo Barrios del Valle <gbv@ier.unam.mx>

Manuscript Number: ENB-D-21-00916

Improving the effectiveness of building's ventilation system to eliminate the indoor Covid-19 virus: case study of a health care facility

Vahid Gholami Motlagh, MSc.; Mohammad Ahmadzadehtalatapeh; Omid Mohammadi, MSc

Dear Dr Barrios del Valle,

I would like to invite you to review the above referenced manuscript submitted by Dr Mohammad Ahmadzadehtalatapeh , as I believe it falls within your expertise and interest. The abstract for this manuscript is included below.

You should treat this invitation, the manuscript and your review as confidential. You must not share your review or information about the review process with anyone without the agreement of the editors and authors involved, even after publication. This also applies to other reviewers' "comments to author" which are shared with you on decision (and vice versa).

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Kind regards,

Yinping Zhang

Associate Editor

Energy & Buildings

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Abstract:

Covid-19 is a serious respiratory disease that has spread around the world. The disease is caused by the devastating coronavirus family (2019-nCoV). Due to the rapid spread of this virus, this disease has become one of the main human problems today and special attention is needed to control it. This virus is transmitted by inhalation with droplet nuclei produced by an infected person during coughing, sneezing, and speaking. There is a risk of airborne droplet nuclei in indoor environments, especially in health care facilities. In this study, the feasibility of eliminating the indoor Covid-19 virus with mixing the ventilation system air with an aerosol sanitizer flow in a surgical room (SR) was investigated using CFD analysis. Four cases with different inlet configurations were examined and air distribution patterns were analyzed. The simulation shows that the design of the SR with an inlet system in the side wall has a significant ability to mix aerosol sanitizer with the
inlet air. It was showed that in the studied design, the aerosol sanitizer could reach any point in the room and kills the corona virus, thus would protect the patient and surgical staff from the risk of Covid-19.

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