

Review of: "Thermal Comfort Temperature Evaluation in Hospital Wards for Patient Safety and Climate Change Sustainability"

Changfeng Fu¹

¹ University of West London

Potential competing interests: No potential competing interests to declare.

The paper aims to present a case study of the different ventilation solutions to control the temperature in hospital wards in a hot region of Iraq. The author has described the data collection processes & outcomes, and addressed some interesting points from this study. However, in terms of both data collection and data analysis, the paper is not comprehensive enough for publication at present. The structure and English writing of the overall paper need to be improved significantly. Proper proofreading is also necessary before the manuscript is submitted. Finally, it suggests that the paper is not ready to be published, it is subject to major amendments.

The detailed issues are as follows:

Page 1/16 "Adding fans to military fortifications in Iraq appears to be a cost-effective and simple method to improve their resistance to the extreme heat that is anticipated to become more common due to global warming."

This sentence is confusing. How and why it is relevant to this hospital case study?

Page 2/16

More relevant literature should be reviewed and included in the introduction section.

Page 2/16

"construction green building certification and compliance (CGCC)"

"Construction Green Building Certification (CGCC)"

"Corporate Governance and Corporate Citizenship (CGCC)"

It is confusing to have 3 different interpretations of CGCC here. What is the purpose of talking about different interpretations here? And which do the following CGCCs refer to in the rest of this paper?

Page 2/16 "In addition, we put out a prospective research agenda"

It should not use first-person writing in any academic work.

Page 3/16 "...control of a sky viewing factor ..."

What does "sky viewing" mean?

Page 3/16 "The first and second temperature control devices were set up in three distinct wards and a nursing station on the ground level. The wings at the top, like the area, take up the entire width of the tower on level (2) (18.3 m). There are five meters of guards on the sixth floor."

The English description needs to be improved to be more accurate and understandable. The description may also need to be associated with the floor plan Fig 1.

Page 4/16 "Greenfield coverage as a percentage of total land area, the ratio of real sunshine hours to estimated sunshine hours (n/n), and wind speed (WS). The percentage of land area within a circle with radii of 50 and 100 meters."

"Total solar radiation. The ratio of daily total reflected, and incoming shortwave radiation was calculated for surface albedo, actual sunshine hour's ratio n/N , wind speed, relative humidity."

English errors

Page 6/16 "(measured,M,calculated,C,protected,P)"

What does "protected temperature" mean? Is the predicted temperature?

Page 6/16 "... how the air behaves near plants based on their LAI."

The abbreviation should be spelled out at its first mention.

Page 9/16

The figure 4 are not readable.

Page 11/16 & 12/16

In the figures 5 & 6, the horizontal axis (days) may need to be converted into months, which can make people easily figure out the seasons of the days.

Page 13/16

In Figure 7, the vertical axis should be "Cooling Degrees".

Page 13/16

In Figure 7, it may not be meaningful by using data captured before 2010.

The conclusions should address the findings of this research or the research methods adopted in this research , the further future works.

