DETERMINANT FACTORS OF COVID-19 TRANSMISSION AMONG OF HEALTH PERSONNEL: A SYSTEMATIC REVIEW

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ABSTRACT

Background: The number of Covid-19 infected cases is still increasing, pandemic has yet to be controlled. This can increase the risk of Covid-19 transmission among health personnel in hospitals. Data as of September 7, 2020, the Indonesian Doctors Association (IDI) states that more than 100 doctors in Indonesia who have died due to Covid-19 infection. The phenomenon of transmission in health personnel is urgent. This study aimed to systematically review the determinant factors of covid-19 transmission among of health personnel.

Subjects and Method: This was a systematic review study from various article sources that have been done previously. The databases used in this study were Science Direct and Scopus, journals published from February to September 2020. The articles were extracted using the Preferred Reporting System for Systematic Review and Meta-analysis (PRISMA) 2009 flowchart.

Results: Total of 5 articles were reviewed. The results of this study showed that the variables of gender, age, and profession showed significant results on Covid-19 transmission in 2 articles, but the results were not significant in 3 other articles. Meanwhile, the work location variable shows significant results in 2 articles that raise this variable with the location of the work place, including the medical ward and the emergency department. Ethnic variables, raised by one article with insignificant results and for the variable personal protective equipment and masks showed significant results related to Covid-19 transmission.

Conclusion: Workplace arrangements, especially for Covid-19 special isolation and the use of good personal protective equipment, can reduce the transmission of Covid-19 to health personnel, especially those in emergency rooms and medical wards.

Keywords: determinants, Covid-19, health personnel, personal protective equipment,

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