|  |  |  |  |
| --- | --- | --- | --- |
| Title | Covid-19: Risk analysis in south Asia with respect to Europe and north America | | |
| Author(s) Name | Md Anwar Hussen Wadud, Firoz Mridha, Kamruddin Nur | | |
| Contact Email(s) | firoz.mridha@aiub.edu | | |
| Published Journal Name | AIUB Journal of Science and Engineering (AJSE) | | |
| Type of Publication | Journal | | |
| Volume | 20 | Issue | 3 |
| Publisher | AIUB | | |
| Publication Date | 2021/9/23 | | |
| ISSN |  | | |
| DOI | 10.53799/ajse.v20i3.196 | | |
| URL | https://ajse.aiub.edu/index.php/ajse/article/view/196 | | |
| Other Related Info. |  | | |
|  | | | |

|  |  |
| --- | --- |
| Abstract |  |
| Coronavirus Disease 2019 (COVID-19) was identified in late 2019 and world health Organization (WHO) declared as a pandemic on March 11, 2019. World top researchers, physician and pharmacists are trying to find out remedy but it is still in research phase. COVID-19 spread through the air by coughing or sneezing also depends on environment. In this paper, our main goal is to COVID-19 threat analysis in South Asian people based on their habits, culture, consciousness etc. compare to Europe and North American culture. The research work is formulated in three steps. First, we formulate a dynamic infection transmission model by considering the fertility rate, mortality rate, transmission rate, and cure rate of the COVD-19 caused death rate as variables. Second, we define the variables of the model based on the census of south Asia. Finally, we analyze the threat that COVID-19 can cause to the population of crowded country likes Bangladesh, India etc. in south Asia. | |