

Human Animal interface of SARS-COV-2(COVID-19)transmission: A critical appraisal of scientific evidences

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Abstract

The whole world is suffering with a new health crises due to the spread of a novel human virus known as the severe acute respiratory syndrome corona virus 2 (SARS-COV-2) or the Corona virus disease 2019 (COVID-19). This new virus which originated in December 2019 from Wuhan, China has now spread all across the globe posing a major threat to the human life. There is substantial evidence that the virus outbreak is fueled by the zoonotic transmission since this new virus belongs to the same family of viruses as SARS-COV and MERS-COV. Although, the exact route of transmission of this virus to humans is still unknown, however, based on the various reported evidences bats, pangolins, snakes or minks were found to be the probable reservoir as well as intermediate host of the SARS-COV-2. Along with the human life damage, the animal welfare has also been seriously endangered. With numerous reports on the transmission of COVID-19 from humans to animals, the cases of the abandonment household pets from their owners are increasing. Many experimental studies as well as evidences from zoos of different countries demonstrated the possibility of transmission of COVID-19 virus from the infected human companions to their pets or household animals. Therefore, precautionary measures are required to protect the pets and other animals from the virus transmission. The present article highlighted the different ways to promote awareness and corroborate practices for helping people as well as animals to stay secure and healthy.

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