Some therapeutic options for treating COVID-19

showed efficacy in in vitro studies; however, to date,

these treatments have not undergone any randomized

animal or human clinical trials, which limit their

practical applicability in the current pandemic (7, 9,

19-21).

The present comprehensive review describes the

various features of SARS-CoV-2/COVID-19 causing

the current disease outbreaks and advances in

diagnosis and developing vaccines and therapeutics.

It also provides a brief comparison with the earlier

SARS and MERS CoVs, the veterinary perspective

of CoVs and this emerging novel pathogen, and an

evaluation of the zoonotic potential of similar CoVs

to provide feasible One Health strategies for the

management of this fatal virus (22-367).

THE VIRUS (SARS-CoV-2)

Coronaviruses are positive-sense RNA viruses

having an extensive and promiscuous range of

natural hosts and affect multiple systems (23, 24).

Coronaviruses can cause clinical diseases in humans

that may extend from the common cold to more

severe respiratory diseases like SARS and MERS

(17, 279). The recently emerging SARS-CoV-2 has

wrought havoc in China and caused a pandemic

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