Dear Editor,

Human rabies is a major public health problem that exists in 150 nations and on every continent except Antarctica. Currently, the Middle East has 300 recorded annual human cases of rabies, with hundreds of post-exposure treatments [1]. It has existed for 4,000 years [2]. Controlling and preventing rabies in the Middle East is challenging due to the area's transnational nature, covering areas of Africa, Asia, and Europe. One major issue is the lack of precise rabies data from this area [3].

Although rabies has been reported to be the cause of death for nine individuals in Iran every year on average [4], according to the Department of Zoonotic Diseases Center for Communicable Diseases Control and Prevention of Iran, 16 human rabies cases have been reported in 2021 and six in 2018. Moreover, the number of animal bites in 2021 has increased to 260,471 cases, compared to 182,818 cases in 2018.

The Coronavirus Disease 2019 (COVID-19) is one of the deadliest coronavirus epidemics in the last two decades, presenting a significant danger to global health worldwide. Numerous inflammatory reactions brought on by the new coronavirus illness can result in lung failure and severe damage to the respiratory system. This is due to the fact that this virus has a faster rate of transmission than other members of the Coronaviridae family [5]. In response to the COVID-19 pandemic, most governments have implemented strategies, such as stay-at-home orders, to restrict person-to-person contact and disrupt disease transmission [6]. In order to study the possible correlation between rabies and COVID-19, Bhutan serves as a great case study.

Bhutan, a small country neighboring India, chose to control the spread of the disease and the case fatality rate by completely locking down its borders. However, in the meantime, rabies could enter easily via free-roaming dogs, and in the words of a Bhutanese field veterinary officer: “due to COVID-19, human movements on the borders are now carefully restricted, but for dogs, it's simple to pass”[7]. Furthermore, due to the interrupted annual mass dog vaccinations and continuous surveillance for rabid dogs in the COVID-19 era, the progress made in Latin America to eradicate canine-mediated human rabies was affected and caused a rise in reported rabies cases in Arequipa, Peru [8].

Nevertheless, the era of pandemics has not only brought with it individuals staying at home, telecommuting, and the restriction of human transportation, but it also has led to the creation of vacuum areas for dogs. This, in return, has led to an increase in stray dogs and increased animal bites, interrupted rabies surveillance, and rabies vaccine shortage, which ultimately has also led to an increase in the incidences of rabies infections.

References


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