Hemorrhagic fever with renal syndrome (HFRS) is a group of illnesses that are caused by hantaviruses. Although increased exposure to rodents or their urine and droppings could be a decisive factor of the increasing in incidence, further research is still needed to elucidate the causes of the epidemic (1).

Since October 2021, the number of reported cases of HFRS has been increasing rapidly in Shaanxi Province. As of December 19, 2021, a total of 2,657 cases were reported with 14 deaths, 35.84% more than that in 2020 (2,051 cases and 3 deaths). Furthermore, in 2020, there were 8,121 cases and 48 deaths nationwide for morbidity and mortality rates of 0.5785 and 0.0034 per 100,000 population, and a case-fatality rate of 0.59%.

Shaanxi Province had been recognized as an endemic area since an outbreak of HFRS was found on the north slope of Qinling Mountains in 1955 (2). In 2021, of the 2,657 cases reported in the 10 affected cities, 2,522 (94.92%) cases were from 4 cities: Xi’an (1,553, 58.45%), Weinan (475, 17.88%), Xianyang (293, 11.03%), and Baoji (200, 7.56%); and 2,062 (77.6%) cases were reported from 20 affected county-level jurisdictions and city districts. The Hantavirus carrying rate of rodents as reported by regular surveillance showed no significant changes in rodent population.

Compared with the past five years, the national HFRS prevalence remained low in China (3). As of December 18, 2021, 8,502 cases with 54 (0.63%) deaths were reported from 29 provincial-level administrative divisions (PLADs), which were 9.10% and 17.39% higher than that (7,793 cases and 46 deaths) in 2020. The reported cases from top 10 PLADs accounting for 81.6% of the total reported cases in China. After Shaanxi (2,657 cases), the numbers of cases in Shandong (875 cases), Liaoning (501 cases), Henan (352 cases), Yunnan (295 cases), and Jilin (291 cases) increased by a range from 11.1% to 76.9%, and the reported number of cases in Heilongjiang (875 cases), Hunan (499 cases), Hubei (396 cases), and Jiangxi (354 cases) decreased from 15.6% to 31.1% compared with that in 2020. Variations of Hantavirus have also previously been found in central and southwest China.

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