Table 1 Summary of hazard prioritization and risk assessment categories

Hazard	Frequency <sup>a</sup> (F) Min 1 Max 5	Magnitude b (M) Min 1 Max 5	Exposure <sup>c</sup> (E) Min 1 Max 3	Prioritization Score (FXMXE) <sup>4</sup>	Vulnerability	Capacity
External causes of morbidity and mortality	5	5	3	75	Over-speeding vehicles associated with RTA     RTA account for 20% of occupied beds and 81% of deaths in MOH hospitals     Bites and stings common in deserts     Regional conflicts associated with terror attacks	Updated national emergency plan     Need for festival emergency plan     Need to strengthen interagency coordination     Availability of trained staff and emergency vehicles
MERS-CoV	4	5	3	60	<ul> <li>&gt; 85% of cases reported in KSA</li> <li>40% case fatality rate</li> <li>Camels are reservoirs</li> <li>Human contact with camels during festival</li> <li>Consumption of unpasteurised diary product common</li> </ul>	Well-established national surveillance     Improved IPC practices     Good interagency communication and collaboration     Designated MERS-CoV management centre
Foodborne diseases	5	4	2	40	Major threat at mass gatherings     Patronage of vended food	Need to strengthen food safety regulations
Brucellosis	5	3	2	30	Endemic in KSA     12.8 cases/100 000     population in 2016     Consumption of     unpasteurised diary	Strong interagency collaboration for prevention and control
Rift Valley fever	2	4	3	24	Known zoonosis     886 suspected cases of RVF and 13.9% case fatality rate in 2000/2001     Reported outbreak in Niger 2016     Tendency for rapid international spread	Existing national surveillance

<sup>\*</sup>Frequency: return period for a given hazard, \*Magnitude: probability of adverse event to population health, 'Exposure: percentage of population that could be exposed to hazard based on historical data, 'Product of frequency, magnitude and exposure