

## Seroprevalence of Crimean–Congo Hemorrhagic Fever in Cattle in Basrah Province, Iraq

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### Abstract

The study was conducted in the prominent districts of Abu Al-Khasib, Al-Zubair, Al-Qurnah, Karamak Ali, Bani Sakīn, the College of Agriculture, and Al-Harithah in Basrah Governorate. The study aimed to detect *Crimean-Congo hemorrhagic fever* as a result of a virological and epidemiological study of the types of calves, buffaloes, cows, races, and ages. The indirect site ELISA test detected antibodies against the CCHF virus using IgG antibodies. Fresh blood samples were collected from buffaloes, cows, and calves, starting from June until the end of September 2023. There were 42.44% of 172 cattle (73). IGg titers were higher among females compared to males. The number of infected females was 56, and the number of males was 17. A higher percentage of antibodies was also recorded in those aged 2–3 years compared to those aged less than two years. According to the regions of Abu Al-Khasib, the number of cases of virus infection was extremely high, with 33 cases (64.7%) the results were obtained. Hard and soft ticks were collected from Basrah Governorate, from the same animals that were collected blood samples and they were classified into tick family *Ixodidae*, known as three species: *Rhipicephalus sanguineus*, *Hyalomma anatolicum*, and *Hyalomma truncatum*. These results indicate that CCHV is widely spread in cattle in southern Iraq. 42.44% and found that the type of tick *Hyalomma* is clearly widespread in areas of Basrah. These results indicate that CCHV is widely spread in cattle areas in southern Iraq in Basrah Governorate.

**Keywords:** Crimean -Congo hemorrhagic, Hemorrhagic fever virus, Basrah.