

Vibrio cholerae from bullfrog may be transmitted to humans through food or water

yibin yang¹, xia zhu², yuhua chen³, yongtao liu⁴, yi song⁵, and xiaohui ai⁴

¹Affiliation not available

²Shanghai Ocean University

³Department of Gastroenterology, Zhongnan Hospital of Wuhan University, Wuhan, China; and Hubei Clinical Center & Key Lab of Intestinal & Colorectal Diseases, Wuhan, China.

⁴the Institute of Yangtze River Fisheries Research Institute, Chinese Academy of Fishery Sciences; the Key Laboratory for quality and safety control of aquatic products, Ministry of Agriculture

⁵the Key Laboratory for quality and safety control of aquatic products, Ministry of Agriculture

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Abstract

Bullfrog is one of the most important economic aquatic animals in China. It is widely cultured in southern China, and is a key breed recommended by China's poverty alleviation industry. In recent years, a fatal bacterial disease often occurs in cultured bullfrogs. The clinical manifestations of diseased bullfrog were severe intestinal inflammation and even anal prolapse. A bacterial pathogen was isolated from the diseased bullfrog intestine. The bacterium was identified as *Vibrio cholerae* by morphological, biochemical and 16S rRNA phylogenetic analysis. In this study, *V. cholerae* was isolated and identified from the diseased bullfrog for the first time, which provided the basis for the diagnosis and control of the disease. At the same time, it is also reminded that *V. cholerae* from bullfrog may be transmitted to human through bullfrog food and aquaculture water, which is a serious threat to human beings. The whole society should pay attention to it and formulate reasonable measures to avoid disasters.

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