Epidemiological investigation of influenza A viruses in laboratory swine and dogs in Shanghai

Abstract:
Swine and canine influenza, which is acute viral respiratory infectious disease, can do great threat to the health of people and animals. What's more, swine as an intermediate host for the transmission of avian influenza viruses to humans, it's very important to supervise the epidemiological situation of swine in influenza virus (SIV) infections all over the world. The major aim of this paper was to investigate the epidemiological situation of influenza A viruses in laboratory swine and dogs in Shanghai and surrounding area from January 2010 to March 2011. There were 109 throat swabs collected from swine and 35 from dogs. Based on RT-PCR, we have got only one swine influenza virus-positive sample and none canine influenza virus-positive. In addition, this survey not only gives a data about the epidemiological situation of swine and canine influenza, but also provides a basis and guarantee for taking a timely and effective security measures.

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