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*Full Length Research Paper*

## Avian influenza virus H<sub>5</sub>N<sub>1</sub> subtype A diagnosed in sick and dead wild and domestic birds in Pavlodar oblast, Republic of Kazakhstan

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### Abstract

This work describes laboratory tests conducted on biological material taken from sick and dead birds from unknown infection in the Pavlodar oblast, Republic of Kazakhstan. In the course of pathological material laboratory tests electron microscopy revealed virion of type A avian influenza virus. Type A AI virus common protein is recognized with the help of "Directigen Flu A" test system. The results of HAIT showed hemagglutinin agent H5, and NAIT results showed neuraminidase agent N1. On the basis of laboratory tests results it was determined that the cause of sickness and death of birds in the territory of Pavlodar oblast Irtysh region farm "NAN" was H5N1 type A AI virus.

**Key words:** HAT, HAIT, NAIT, H5N1 type A avian influenza.

