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Seroprevalence of H₅ and H₇ Subtypes of avian influenza viruses in rural domestic poultry, Iran

Aidin Azizpour ^{1*}, Zahra Amirajam ²

¹ Department of Medicinal Plants, University of Mohaghegh Ardabili, Ardabil, Iran

² Department of Cardiology, Ardabil University of Medical Sciences, Ardabil, Iran

*Corresponding Author's E-mail: Aidin_azizpour@uma.ac.ir

ABSTRACT

BACKGROUND AND OBJECTIVES

Influenza is one of the most important infectious viral diseases of birds, which causes huge economic losses to the poultry industry of countries every year. In recent years, H₅ and H₇ subtypes of influenza viruses (high pathogenic avian influenza) have been detected in Iran. Backyard poultry can cause spread these viruses to industrial poultry as reservoirs and vectors. Therefore, the aim of this study was to survey seroprevalence of H₅ and H₇ subtypes of avian influenza viruses in rural domestic poultry of Ardabil province, northwest of Iran.

MATERIALS AND METHODS

This cross-sectional study was conducted from September to December of 2015. In this study, 943 blood serum samples were randomly collected from backyard poultry of 40 villages. The hemagglutination inhibition (HI) test was performed on the serum samples according to Iran Veterinary Organization (IVO) protocol to detect H₅ and H₇ subtypes of influenza virus.

RESULTS AND DISCUSSION

All the examined sera were negative for H₅N₁, H₅N₂, H₇N₁ and H₇N₇ subtypes of influenza virus. The results of this study show no seroprevalence of H₅ and H₇ subtypes of influenza virus in rural domestic poultry of Ardabil province.

CONCLUSION

Active surveillance must be carried out in rural domestic poultry.

Keywords: H₅ and H₇ viruses, rural domestic poultry, HI

Congress Address:

Main Hall of Iranian Research Organization for
Science and Technology (IROST)

Sh.Ehsani Rad St., Enqelab St.,Ahmadabad Mostoufi Rd.,
Azadegan Highway.

ISM Office:

Unit2, No. 15 , Majd St. , North Kargar Ave.

021 88632456

09331446539

09122572396

ismcongress2023.ir

info@ismcongress2023.ir



Iranian Society of
Microbiology (ISM)



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