

## **Diseases surveillance in Middle East/ North Africa among 2010-2017**

*H. Bakri\**; *E. Hallaq*

Vaxxinova, Amman 11118, Jordan

\*Presenter: husam.bakri@vaxxinova.com

### **Abstract**

#### **Introduction**

For nearly 7 years the Middle East (ME) and North Africa (NA) regions are facing different health problems such as drop in egg production, close to peak production: up to 40-50 % during 2-3 weeks, thin – shelled, rough and misshapen eggs, moderate mortality and respiratory signs in commercial Layer and Breeder production; while in broilers it was noticed severe mortality (over 40% after 3 weeks of age), severe respiratory signs, high percentage of condemnation due to secondary bacterial infections.

#### **Materials and Methods**

Different type of samples: serum, FTA cards and tissues samples were collected from breeders, layers and broilers from different countries during the period of 2010-2017 and analyzed for serology, PCR and virus isolation.

#### **Results**

The results showed the presence of AI -H9N2, Newcastle and IBV variant strain viruses as major diseases in the ME and NA areas, different actions were done to reduce the mortality and improve the production that were the study parameters.

The following solutions were recommended:

- 1- Checking administration of the vaccination program.
- 2- Providing a vaccination program(s) that include H9 and IBV variant strain.
- 3- Using ND live vaccine-respiratory strain.

#### **Conclusion**

After following the above recommendations, field data showed an improvement in production and decrease in mortality.

Key words: ME, NA, AI-H9N2, NDV and IBV variant strains