

African swine fever (scientific and technical assistance, Art. 31)

Nik Križ

PAFF meeting, 6 April 2017, Brussels







TERMS OF REFERENCE

- Analyse the epidemiological data on ASF from Estonia, Latvia, Lithuania, Poland and any other Member States at the Eastern border of the EU that might be affected by ASF. Include an analysis of the temporal and spatial patterns of ASF in wild boar and domestic pigs. Include an analysis of the risk factors involved in the occurrence, spread and persistence of the ASF virus in the wild boar population and in the domestic/wildlife interface.
- Based on the findings from the point above, review the management options for wild boar identified in the EFSA scientific opinion of June 2015 and indicate whether the conclusions of the latest EFSA scientific opinion are still pertinent.





1ST SCIENTIFIC REPORT

- To update the epidemiological analysis of African swine fever in the EU, EFSA applied a **harmonised data model** agreed at a workshop in November 2015. This analysis can be used by Member States and the European Commission to fine-tune their control measures
- And for declaring of freedom from the disease

http://www.efsa.europa.eu/en/efsajou rnal/pub/4732



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Sample based data



Environmental data



Populations

- Domestic pigs
- Wild boar popu ٠
- Human popula ٠







DATA ANALYSIS: DESCRIPTIVE







Slot Machine Performance



Technology Adoption Trend







DATA ANALYSIS: STATISTICAL

R4EU-EFSA WEB Tool

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Conclusions:

- Currently the ASF cases in wild boar in Estonia, Latvia, Lithuania and Poland show the spatio-temporal pattern of a small-scale epidemic;
- The average spatial spread of the disease in wild boar subpopulations in Latvia and Estonia is approximately 2 km/month, while in Lithuania and Poland the average spatial spread of the disease is approximately 1 km/month, which indicates a slow spread in the region;
- Virus prevalence in hunted wild boar is very low (0.04 and 3%), without any apparent increasing trend over time;
- No clear time trend in ASFV-antibody prevalence has been observed in hunted wild boar;
 - Since the beginning of the epidemic, the apparent antibody prevalence in hunted wild boar has always been lower than the apparent virus prevalence in hunted wild boar, indicating an **unchanged epidemiological/immunological situation**.









1ST SCIENTIFIC REPORT

Conclusions:

- The risk factor analysis shows an association between the number of settlements and pig farms, forest coverage, number of roads and the notification of ASF in wild boar in 2016;
- According to the risk factor analysis the number of human settlements is associated with ASF notification in wild boar in Estonia, Latvia and Lithuania in 2015 and 2016;
 - Given existing trends in apparent virus prevalence and seroprevalence, there is a **need** to maintain high biosecurity standards on pig farms and adjust control measures in the backyard sector and at hunting grounds level.





Variable Importance







2ND SCIENTIFIC REPORT (OCTOBER 2017)

Objectives

- Update descriptive epidemiological analysis
- Update risk factors analysis involved in the occurrence, spread and persistence of the ASF virus in the wild boar population and in the domestic/wildlife interface
- Review the management options for wild boar identified in the EFSA scientific opinion of June 2015





EFSA'S ACTIVITY ON ASF



http://www.efsa.europa.eu/en/events/event/151123



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