

National Food and Veterinary **Risk Assessment Institute** 



Example 2 Sector Strategy Stra **Health Sciences** 

### **AFRICAN SWINE FEVER IN WILD BOAR IN** LITHUANIA

#### **Arunas Stankevicius**

ASF management in wild boar, 22 November 2017 LUHS, Kaunas











Lithuanian ASFV isolated from wild boars 2014 induced an acute disease in pigs which resulted in 94.5% mortality

Transboundary and Emerging Diseases

SHORT COMMUNICATION Experimental Infection of Domestic Pigs with African Swine Fever Virus Lithuania 2014 Genotype II Field Isolate

C. Gallardo<sup>1</sup>, A. Soler<sup>1</sup>, R. Nieto<sup>1</sup>, C. Cano<sup>1</sup>, V. Pelayo<sup>1</sup>, M. A. Sánchez<sup>1</sup>, G. Pridotkas<sup>2</sup>, J. Fernandez-Pinero<sup>1</sup>, V. Briones<sup>1</sup> and M. Arias<sup>1</sup>

<sup>1</sup> European Union Reference Laboratory for African Switer Faver, Cantro de Investigación en Sanidad Animal (INIA-CISA), Valdecknos, Madrid, Spani <sup>3</sup> National Food and Veterinary RSk Agestement Institute, Vihila, Lifferantia

Transboundary and Emerging Diser

 The ASFV was easily detected by PCR in blood samples prior to the appearance of the clinical signs and from the tested organs at necropsy
ASF antibodies were detected in 33% of the pigs at 17-18 days post-exposure







### The prevalence of ASFV in hunted and dead wild boars 2014-2016

Year	Active+passive surveillance			
	Number of wild boars tested	Number of positive wild boars	Percentage of positive wild boars	95% confidence interval (%)
2014	PCR / 22371	76	0.34 %	0.26-0.42
	ELISA / 7934	1	0.012 %	0.01-0.02
2015	PCR / 24122	124	0.51 %	0.42-0.60
	ELISA / 7219	23	0.32 %	0.19-0.45
	IPT / 5610	56	1.00 %	0.74-1.26
2016	PCR / 33685	458	1.36 %	1.24-1.48
	ELISA / 14660	57	0.39 %	0.29-0.49
	IPT / 2595	63	2.43 %	1.84-3.02

# The results of detection ASFV in wild boar carcasses 2014-2016

	Passive surveillance			
Year	Number of wild boars tested	Number of positive wild boars	Percentage of positive wild boars	95% confidence interval (%)
2014	223	54	24.2 %	18.58-29.82
2015	195	59	30.26 %	23.81-36.71
2016	785	379	48.28 %	44.60-51.65
Total	1203	492	40.81%	38.03-43.59

# The prevalence of ASFV in hunted and dead wild boars 2017

Year	Active+passive surveillance			
	Tested	Positive	Prevalence	95% confidence interval (%)
2017	PCR / 13018	386	2.86 %	2.57-3.15
	ELISA / 5656	14	0.25 %	0.12-0.38
	IPA / 821	17	2.07 %	1.1-3.04

The results of detection ASFV in wild boar carcasses 2017

13

14

	Passive surveillance				
Year Tested	Number of positive wild boars	Percentage of positive wild boars	95% confidence interval (%)		
2017 482	353	73.24%	69.29-77.19		



ASF virus yearly prevalence in wild boar carcasses			
Number of ASF	Percentage and 95%		
positive wild boars	confidence interval (%)		
39	20.1 [14.46 - 25.74]		
43	23.12 [17.06 - 29.18]		
344	52.44 [48.62 - 56.26]		
393	71.32 [67.55 - 75.1]		
	16		
	Arly prevale or carcasse Number of ASF positive wild boars 39 43 344 393		

ASF virus seasonal prevalence in wild boar carcasses			
Season	Number of ASF	Percentage and 95%	
Ocason	boars	(%)	
Winter	232	65.72 [60.77 - 70.67]	
Spring	275	51.31 [47.07 - 55.53]	
Summer	210	48.84 [44.11 - 53.56]	
Autumn	102	38.06 [32.25 - 43.87]	
		17	

ASF virus yearly prevalence in hunted and dead wild boars (active and passive surveillance)

Year	Number of ASF positive wild boar (ELISA)	Percentage and 95% confidence interval (%)	Number of ASF positive wild boar (PCR)	Percentage and 95% confidence interval (%)
2014	2	0.03 [0 - 0.06]	122	0.83 [0.69 - 0.98]
2015	34	0.47 [0.31 - 0.63]	146	1.17 [0.98 - 1.35]
2016	62	0.42 [0.32 - 0.53]	402	2.27 [2.05 - 2.48]
2017	24	0.32 [0.19 - 0.45]	434	6.12 [5.56 - 6.68]

ASF virus seas	onal preval	ence in hunted a	nd
dead wild boars	(active and	passive surveilla	nce)

Season	Number of ASF positive wild boar (ELISA)	Percentage and 95% confidence interval (%)	Number of ASF positive wild boar (PCR)	Percentage and 95% confidence interval (%)
Winter	40	0.35 [0.24 - 0.46]	346	1.78 [1.6 - 1.97]
Spring	8	0.09 [0.03 - 0.15]	291	2.2 [1.95 - 2.45]
Summer	26	0.29 [0.18 - 0.4]	277	2.72 [2.41 - 3.04]
Autumn	48	0.66 [0.47 - 0.84]	190	1.91 [1.64 - 2.17]
				19

TOTAL POPULATION OF PIGS IN LITHUANIA
(DATA OF 01/02/2017)

Size of the farm	Number of herds	Number of pigs
1-10	21806	71389
11-100	509	9888
101-500	25	6162
501-1000	8	5832
Over 1000	39	530590
Total	22387	623861



















