



FAO activities on wildlife diseases surveillance (Europe-focused)

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ORIGINAL ARTICLE



Targeting the search of African swine fever-infected wild boar carcasses: A tool for early detection

Alberto Allepuz¹ Mark Hovari² Marius Masiulis^{3,4,5} Giovanna Ciaravino¹

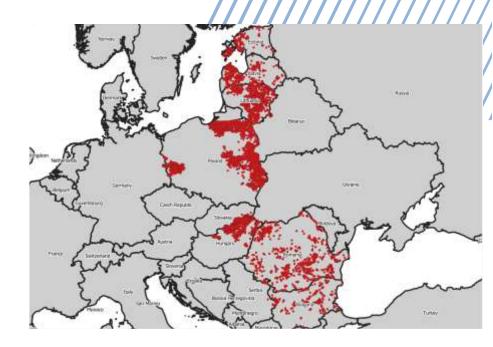
Daniel Beltrán-Alcrudo²

• Spatio-temporal analysis of found dead ASF-positive wild boar carcasses from 2017 to January 2021 in 10 countries: 21,785 cases.

Main results:

- Temporal:
 - Southern countries → higher number of cases between January and April
 - Northern countries → no clear temporal pattern.
- Space-time clustering within distances of 2 km and within 1 week.
- Risk factors:
 - Land use: transition areas between woodland and shrub, green urban areas and mixed forests.
 - Presence of a path and a higher abundance of wild boar

Recommendations to design a search strategy to find ASF-infected wild boar carcasses, which is a crucial activity for surveillance purposes, but also for control







Article

A Novel Tool to Assess the Risk for African Swine Fever in Hunting Environments: The Balkan Experience

Mario Orrico 1,2, Mark Hovari 1 and Daniel Beltrán-Alcrudo 1,*

To estimate the risk of ASF introduction, spread and capacity of detection at hunting ground level. Plus the overall risk

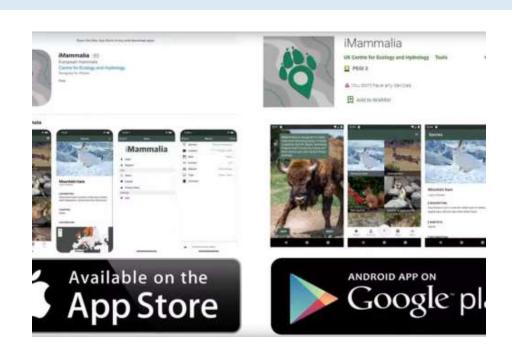
- Face-to-face survey for hunting ground managers looking into general management, husbandry and biosecurity practices at the hunting ground (epicollect5)
- Expert Knowledge Elicitation (EKE) with 33 experts to weight risk factors
- Assess how feasible it is to change current practices, and how the risk would decrease if changes were implemented.
- Map the risk based on a 0-100 scale
- Outputs can be used to guide policy makers, highlighting gaps or geographical areas to prioritize.
- Conducted in Kosovo*, Montenegro and Serbia

^{*}As per United Nations Security Council resolution 1244



Imammalia mobile application to report dead wild boar

- Collaboration with MammalNet to update iMammalia App for citizens to report wildlife sightings
- Now iMammalia can also be used for early reporting of wild boar carcasses (geolocation, species and picture)
- Added info on sex, age, whether the dead animal has been hunted or not, or the degree of decomposition observed
- FAO's role: initiate the idea, provided the fields, translated it into Balkan languages, promoted its use in the Balkans, and linked the App to the vet services for early notification
- The App today:
 - Languages: Italy, Greece, Serbia, Montenegro, Kosovo, Bosnia-Herzegovina, North Macedonia, Albania, and Portugal
 - 14,393 mammal observations all over Europe
 - 1,270 observations of dead animals (5.53%)





Online trainings

Through <u>Virtual Learning Centre (VLC)</u> – One per region

Variety of training formats and languages

Network of focal points

Interactive modules

Course format:

- Videos, webinar recordings, resources, further readings
- Discussion forum
- Surveys
- Final course assessment and certificate



An Introduction to One Health



Date	Topic	Language	Number of participants
Sep-Oct. 2021	ASF Preparedness for Canada	English, French	300
Nov-Dec. 2021	ASF Preparedness in Russian	Russian	300
Jan-Feb. 2022	<u> Al Preparedness – Global</u>	English	360
Apr-May. 2022	<u>Lumpy skin disease – Russian</u>	Russian	350
Apr-2022	Workshop on Outbreak Costing Tool	English	30
<i>Nov-Dec 2022</i>	Stamping Out Course	English	~ 100
Nov-Dec 2022	<u> AI Preparedness - Russian</u>	Russian	~ 300
Date	Topic	Language	Number of participants
5 L 2022			
Feb 2023	One Health Course	English	~ 300
Feb 2023 Feb-Mar 2023	One Health Course ASF Preparedness for Spain	English Spanish	~ 300 TBD
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Feb-Mar 2023	ASF Preparedness for Spain	Spanish	TBD
Feb-Mar 2023 Mar-Apr 2022	ASF Preparedness for Spain AMR Surveillance Course	Spanish Russian	TBD ~ 350
Feb-Mar 2023 Mar-Apr 2022 Apr-May 2023	ASF Preparedness for Spain AMR Surveillance Course Stamping Out Course - Russian	Spanish Russian Russian	TBD ~ 350 ~ 350



Face-to-face trainings for hunters in wild boar and hunting biosecurity

- Half day, hands-on, certified training on ASF and hunting biosecurity
- Targets hunting ground managers
- Translated/implemented in Albania,
 Macedonian and Serbian
- In collaboration with local hunting associations



Dates	Location	# of trainings	# of hunters trained
July-Aug 2021	<u>Serbia</u>	10	200-220
July-Aug 2021	Kosovo*	2	40-60
Aug-Oct 2021	North Macedonia	12	200-250
Oct 2021	Montenegro	3	60-80



Workshops

National events on wild boar management and hunting biosecurity

- Serbia, 24 May 2019
- Montenegro, 10-11 Sep 2019
- Kosovo*, 26-27 Sept 2019
- North Macedonia, 17-18 Oct 2019

Simulation exercises

- North Macedonia 27-28 Nov 2019, face-to-face
- Kosovo* 26-27 Feb 2020
- Multi-country SimEx (B&H, Serbia & Croatia) 23-24 Feb 2021, online
- Montenegro 18 19 Aug 2021, face-to-face

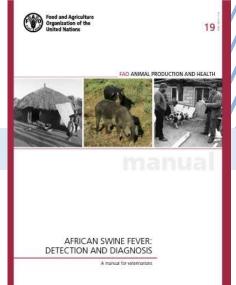
Regional ASF Wild Boar Management Workshop, Belgrade, Serbia, 21 – 23 May 2019





Technical materials on ASF relevant to wildlife

- African swine fever: detection and diagnosis A manual for veterinarians
- The <u>second edition of the handbook African swine fever in wild</u> <u>boar - Ecology and biosecurity</u>
- 2-pager on "What hunters need to know about African swine fever and biosecurity measures during hunting"
- <u>Template for a control and eradication plan for African swine</u> <u>fever in wild boar</u> intended as a short guide on how to structure a control and eradication plan for ASF in wild boar





Template for a control and eradication plan for African swine fever in wild boar



African swine fever in wild boar

ecology and biosecurity







Thanks