

Investigating the relevance and feasibility of involving wildlife rehabilitation centres for disease surveillance in France

Lorette Hivert, Timothée Vergne, Manon Tissidre, Anouk Decors, Guillaume Le Loc'h

▶ To cite this version:

Lorette Hivert, Timothée Vergne, Manon Tissidre, Anouk Decors, Guillaume Le Loc'h. Investigating the relevance and feasibility of involving wildlife rehabilitation centres for disease surveillance in France. European Wildlife Disease Association, Sep 2024, Straslund, Germany. hal-04736618

HAL Id: hal-04736618 https://hal.science/hal-04736618v1

Submitted on 15 Oct 2024

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers. L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



Investigating the relevance and feasibility of involving wildlife rehabilitation centres for disease surveillance in France.

Lorette Hivert (1), Timothée Vergne (1), Manon Tissidre (2), Anouk Decors (3), Guillaume Le Loc'h (1)

- 1 Université de Toulouse, ENVT, INRA, UMR 1225, 31076 Toulouse, France
- 2 Réseau Centres de soins faune sauvage, 17300 Rochefort, France.
- 3 Office Français de la Biodiversité, DRAS, Orléans, France



Once upon a time at the 2024

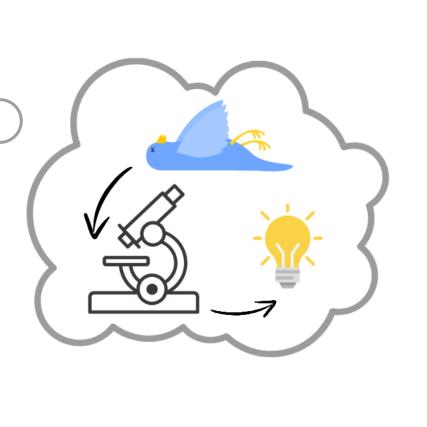
EWDA conference in

Stralsund, Germany

Hi! I work in a wildlife rehabilitation centre. I was very interested about the results you presented concerning the French SAGIR network. Can you tell me how it works?



Of course! The SAGIR network is an epidemio-surveillance network of abnormal mortality in wildlife. It's based on the opportunistic discovery of carcasses. Necropsies and complementary tests are performed to determine the cause of death.



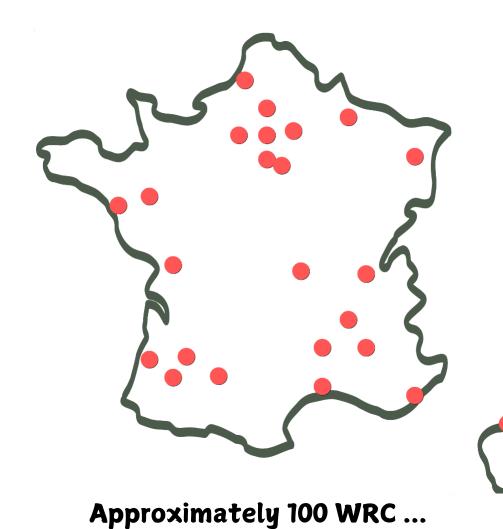
Wow that's impressive!

I see ... I wonder whether involving wildlife rehabilitation in wildlife disease surveillance centres could be usefull. Are you familiar with WRCs?



Thanks! It has proved to be efficient, but unfortunately, it's not as adapted to detect non lethal health events, and sometimes to detect small size species mortality.

No, I'm not.



... treat around 100 000 wild animals each year



WRCs are facilities admitting distressed

wildlife and providing the necessary care to

release them into the wild. There are many

complmentarities between WRCs and the

SAGIR network.

Maybe WRCs could help reinforcing wildlife disease surveillance, particularly regarding non lethal health events.



We could model the admission profile to predict future admissions. Thus, we could early detect abnormal health events causing a change in the admission profile.



That's not a problem. First, we could also sample species that are not usually included in the surveillance of HPAI. It would help us identify relevant species for HPAI surveillance in WRCs.



On paper, I think so, yes. The only trouble is, WRCs may not necessarily admit many specimens of the species surveyed by SAGIR HPAI reinforced program, for example swans or ducks.

Well, their primary missions are the

individual care of distressed

wildlife and raising awareness on

widlife pre-servation. In addition,

they have a lot on their plates.

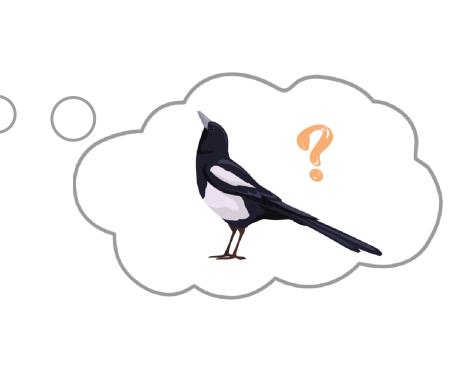


SAGIR also has a reinforced program for a few diseases, like highly pathogenic avian influenza (HPAI). In times of crisis, carcasses of specific species are systematically tested to detect the virus in with the aim of detecting early new outbreaks.

In such a situation, do you think early detection would be possible by screening some birds for HPAIv in WRCs?

I get it! The relevant species are those which participate in the circulation of the virus, and are admitted in sufficient numbers in WRCs!







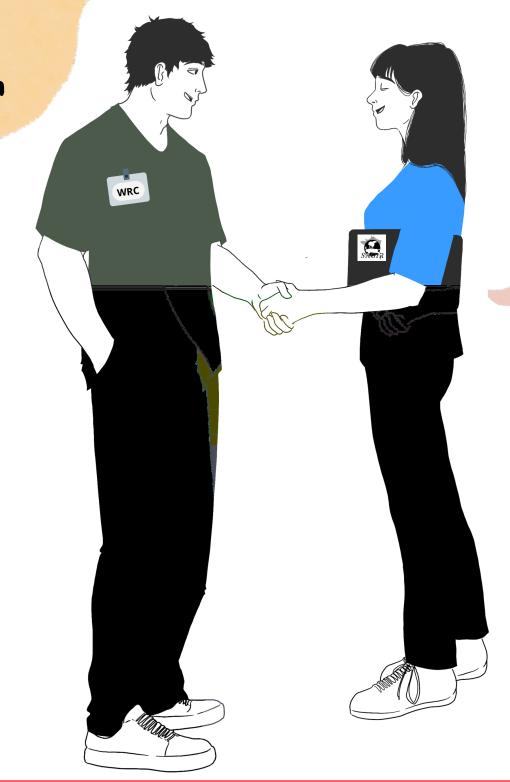
I have to say, I am surprised there's no formal disease surveillance program in WRCs in France.



I wonder how this new, additionnal mission would be perceived by my fellow WRCs.



I think we're onto something here: including WRCs in wildlife disease surveillance would complement disease surveillance by monitoring different species, and detecting non lethal health events with potential impacts on wildlife conservation, domestic animal health and public health.



Well said! Now,

let's get cracking!

Good point. It's important to assess the acceptability and the feasibility of a new surveillance program befire its implementation, to maximize its efficiency in the long run.

References

Decors, A. et al. Le réseau SAGIR, la surveillance au carrefour des enjeux. Bull. Épiémiologique Santé Anim. -Aliment. 1–9 (2022).

Gourlay, P. et al. The potential capacity of French wildlife rescue centres for wild bird disease surveillance. Eur.

J. Wildl. Res. 60, 865-873 (2014).

Lhote, C. & Saint-Germain, S. Amélioration de La Situation Des Centres de Soins de La Faune Sauvage. 93 (2022).

Présentation du Réseau centres de soins faune sauvage. (2019). King, M. et al. Using wildlife rehabilitation and postmortem data to identify key causes of morbidity and mor-

tality impacting the health and welfare of free-living wild animals in Canada. J. Wildl. Dis. 59, (2023).

Kelly, T. R. et al. Early detection of wildlife morbidity and mortality through an event-based surveillance system.

Proc. R. Soc. B Biol. Sci. 288, 20210974 (2021).



Any questions?