Syndromic Surveillance for Animal Health: **Current Practices and Future Directions**



Julie Teresa SHAPIRO¹, Géraldine CAZEAU¹, Maissane CHIKH¹, Romane DI BIAGIO², Céline DUPUY¹, Éric MORIGNAT¹, Viviane HÉNAUX¹, Jean-Philippe AMAT¹ ¹University of Lyon – French Agency for Food, Environmental and Occupational Health and Safety (ANSES), Epidemiology and Surveillance Support Unit, Lyon, France anses ²GDS France, Lyon, France

iulie.shapiro@anses.fr JulieTheBatgirl

Background

- Syndromic Surveillance is the use of non-specific indicators to monitor health events
- Often in real-time \succ
- Powerful tool for the early detection of threats, ranging from diseases to bioterrorism \succ
- Ideally can provide an **early warning** of unexpected health threats
- Adapted for known or unknown threats or pathogens
- Used in animal health since 2006
- Most recent systematic review: 2016 (Dórea and Vial)

Methods

- Systematic **literature review** :
 - Terms : "syndromic surveillance" & "animal*" OR "veterinary" Ο
 - Titles, abstracts, keywords of peer-reviewed articles
 - Scopus and PubMed databases.
- Abstracts screened for relevance
- For original research papers: Characteristics of the syndromic surveillance system and methods used were extracted
- Here we present **preliminary results** mainly based on **original research papers** \succ

GDS GDS



- In addition to **animal health**, some syndromic surveillance systems are also