



2-years of automated data extraction from primary-care-pediatricians' computers: French pediatric ambulatory research in infectious diseases (PARI)

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INTRODUCTION AND OBJECTIVES

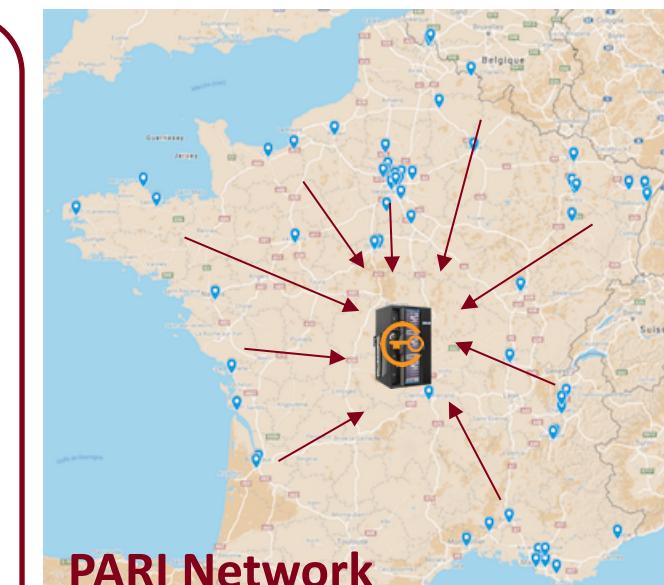
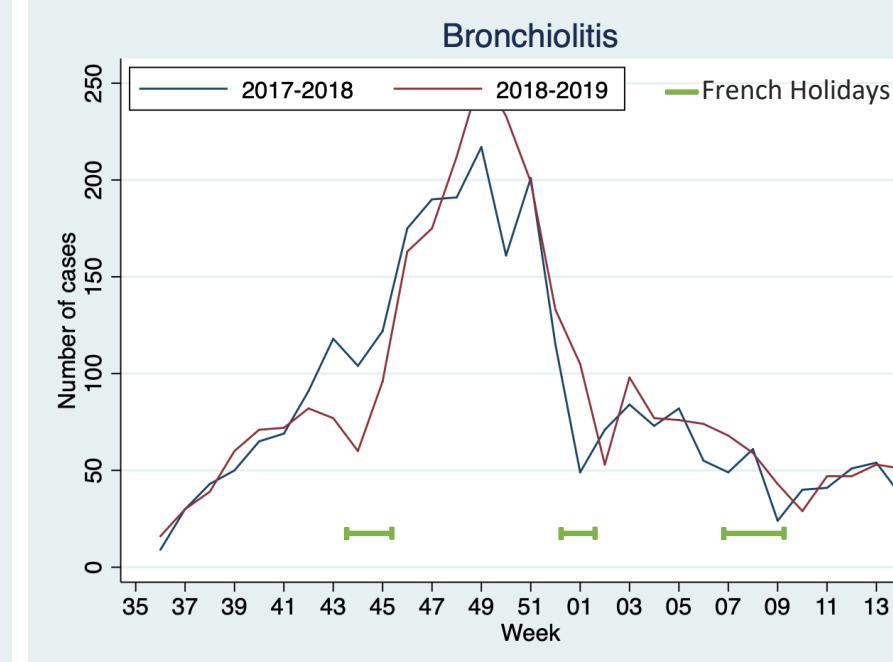
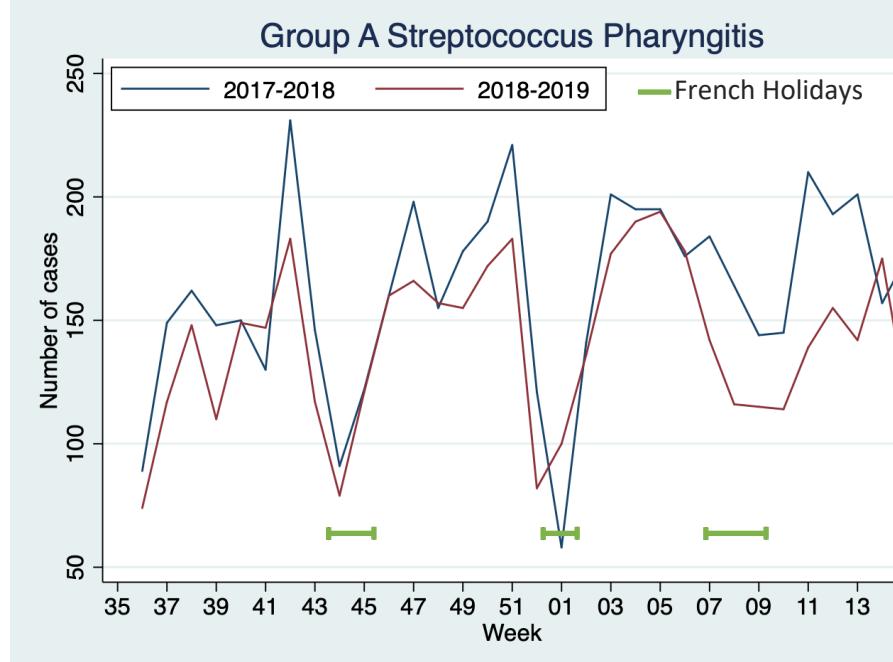
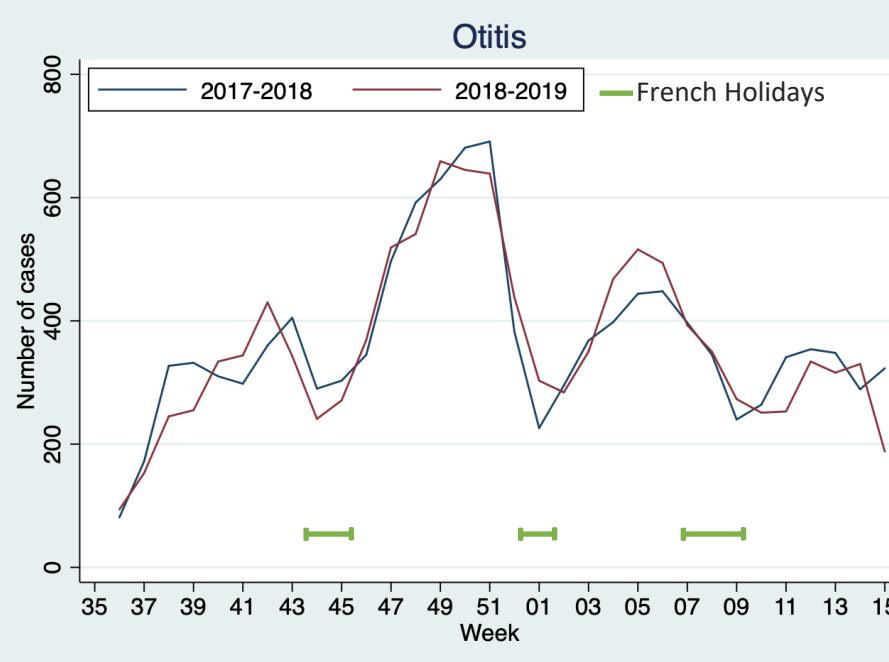
- Infectious diseases: 50-70% of ambulatory pediatric daily practice
- Antibiotics prescriptions: 44% for ENT infections, 23% for LRTI.
 - Need to improve diagnostic performance of primary-care pediatricians
 - set up of a national surveillance network with real-time data, PARI (Pediatric and Ambulatory Research in Infectious diseases)
 - automated data extraction from the primary-care-pediatricians' computer.

METHOD

From September 2017 to April 2019:

- prospective collection of anonymized data (age, sex, height, weight, daycare attendance, vaccines, diagnosis and prescriptions) of children with infectious diseases
- in 82 primary-care pediatricians of the French Ambulatory Pediatric Association (AFPA)
- using the same software (Axi5-Infansoft®, CompuGroup Medical)
- no additional data than those required in the daily practice of the pediatricians

RESULTS



- 82 primary-care-pediatricians
- Automated data extraction
- Anonymized data
- Approved and secured servers
- Dedicated website for surveillance

From 09/2017 to 04/2019:

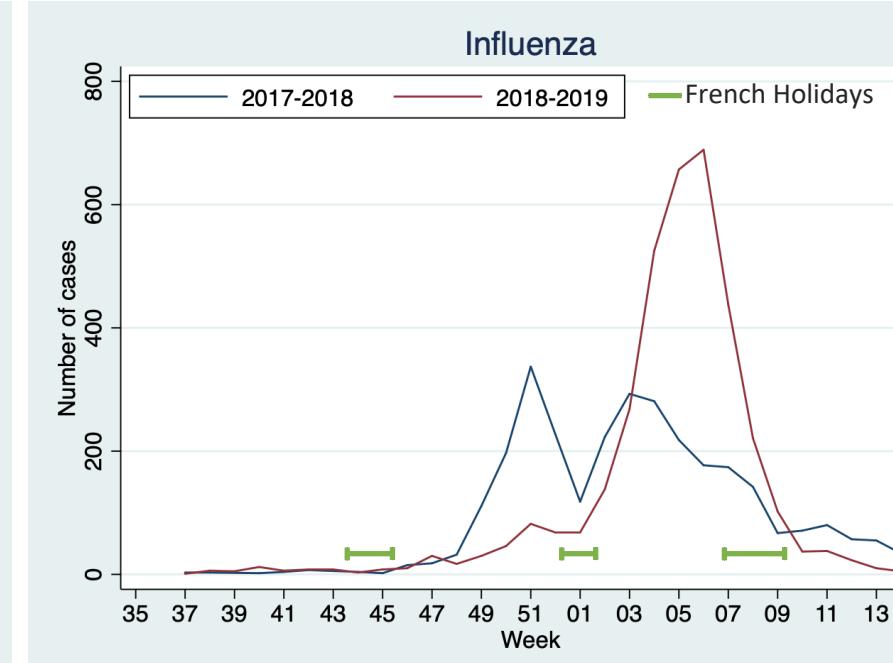
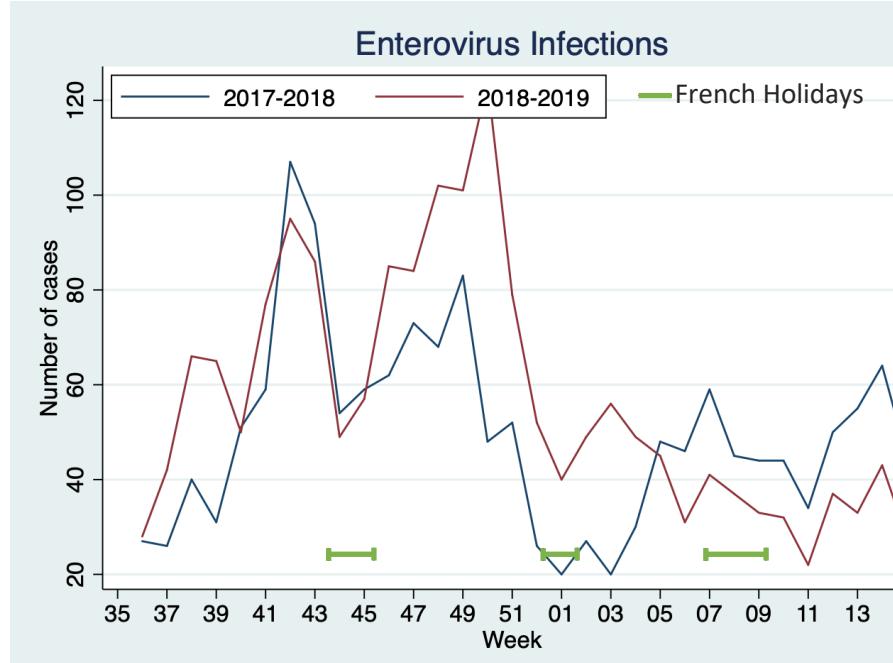
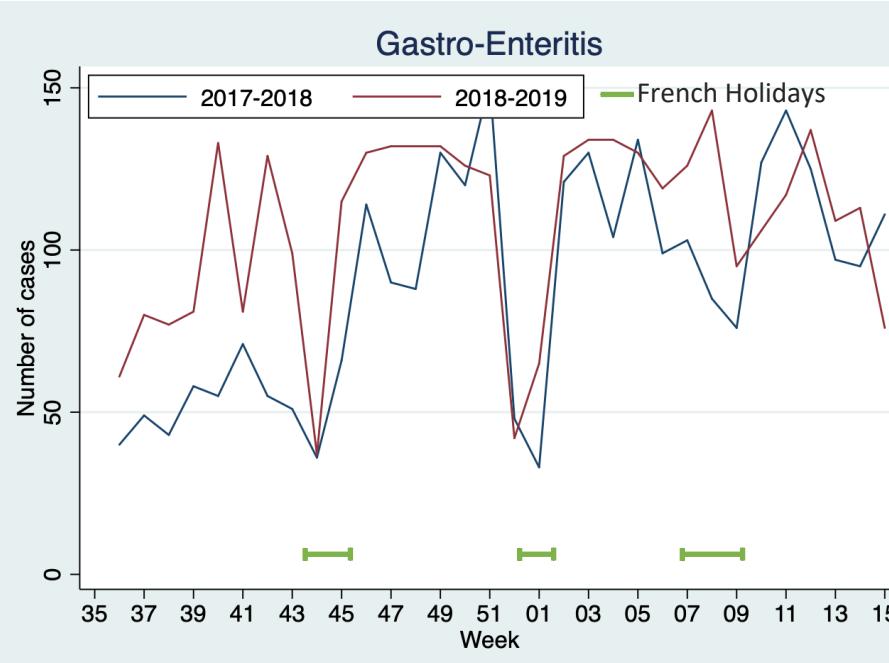
- 25,923 patients
- 37,033 consultations
- 51,568 diagnoses
- 161,654 drug-prescriptions
- 176,331 vaccines

- Patients characteristics: 3.0 y. old \pm 2.9, 57% boys
- Over the two years: identical epidemiology for otitis, group A *Streptococcus* pharyngitis, gastro-enteritis, bronchiolitis and enterovirus infections.
- For influenza, epidemic delayed by 1.5 month : end of December 2017 versus mid-February 2018

Those results are weekly and automatically provided to all participating pediatricians:

- as graphs on a dedicated website
- as a newsletter each Monday

to allow them to monitor the epidemiology of the infectious diseases (national and local level)



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Real-time monitoring of the evolution of infectious diseases in AFPA-PARI investigators

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CONCLUSION

For the first two years of this study, the seasonal distribution of the pediatric infectious diseases is perfectly overlaid, except for influenza diseases. These robust results validate the PARI network as an efficient and reliable tool for monitoring infectious diseases, and enforce the impact of this automated surveillance on the pediatricians' practice and public health.

1 - ACTIV, Association Clinique et Thérapeutique Infantile du Val de Marne

2 - AFPA, Association Française de Pédiatrie Ambulatoire

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