

COMPLIANCE OF FLUOROQUINOLONES PRESCRIPTIONS: A HOSPITAL ACQUIRED RESISTANCE?

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BACKGROUND AND IMPORTANCE:



- Annual European death toll from antibiotic-resistant bacteria : ↗ from 25.000 to 35.000
- In 2020, France reported a 16% rate to fluoroquinolones (FQ) in hospital.
- FQ are no longer first line treatment, but restrited to particular infections.

AIM & OBJECTIVES:

- Assesing compliance of FQ prescriptions to local, national and scientific societies guidelines

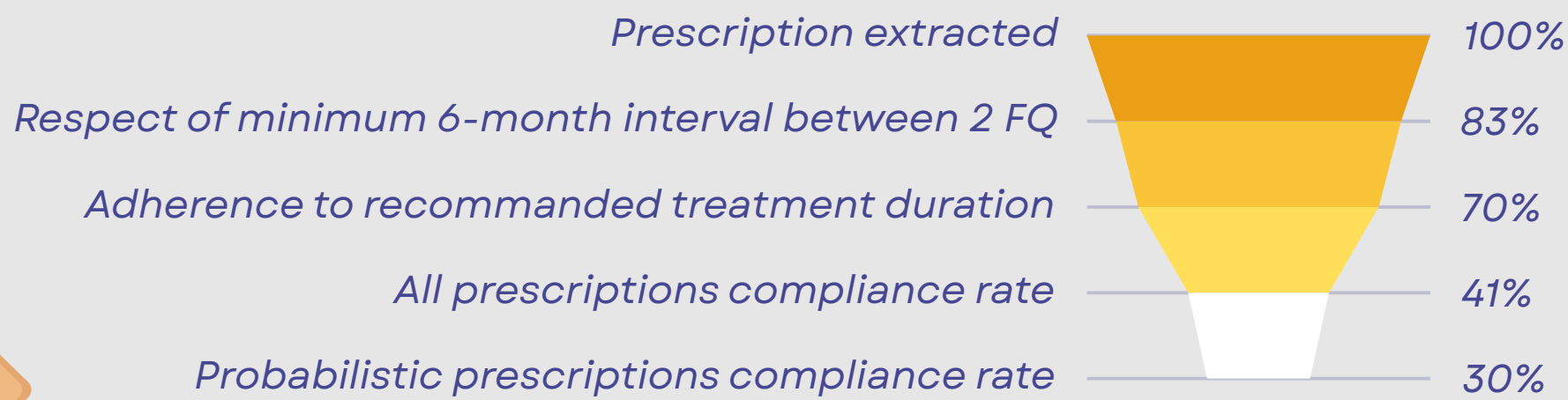
MATERIAL AND METHODS:

- Extraction of: Ciprofloxacin, Ofloxacin, Levofloxacin, and Moxifloxacin prescription
- From December 1, 2022 to May 1, 2023, using DxCare[®] prescription software.
- Departements: Hepatogastroenterology, vascular medicine, home hospitalization, neurology, ophthalmology, dermatology, hematology, and intensive care.
- Analysing the **conformity of : indication, dosage, duration, documentation, interval between two FQ, and pharmaceutical validation.**



RESULTS: 197 prescriptions were extracted. 100% were validated.

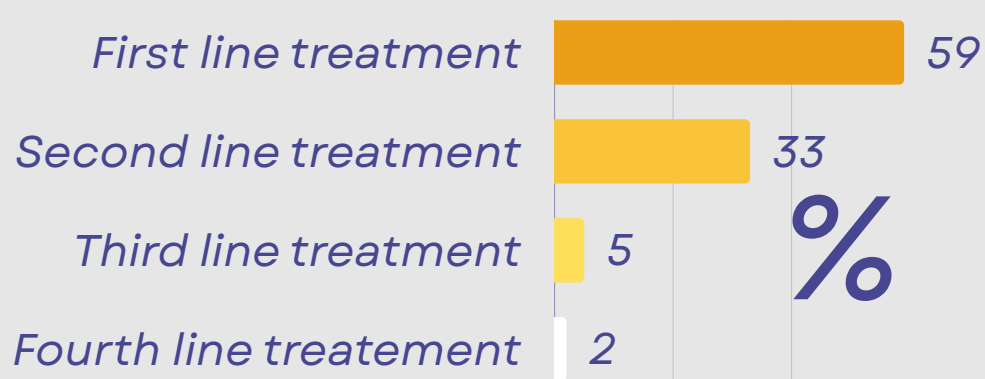
Compliance rate of the main criteria (%)



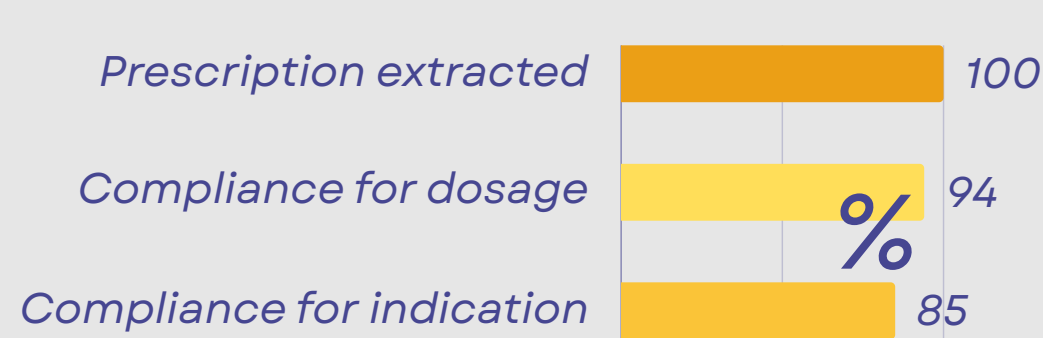
% of prescription documented, probalistic and used as prophylaxis



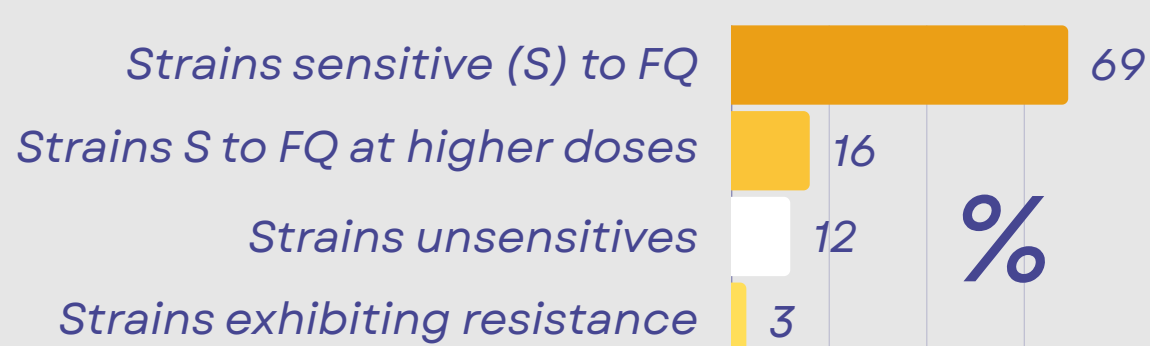
Use of the FQ in the therapeutic strategy (%)



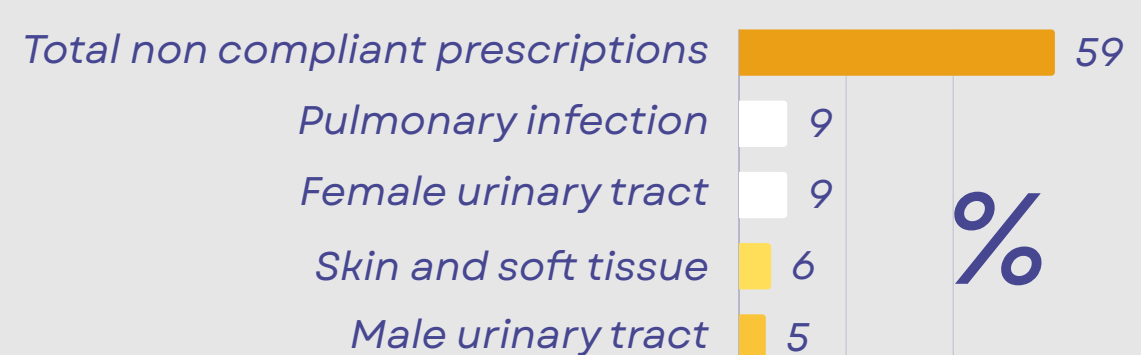
Compliance rate of dosage and indications (%)



Sensitivity levels of different strains (%)



Indications of main non compliant prescription (%)



CONCLUSION AND RELEVANCE:

- High rate of **non-compliant prescriptions (59%)**
- We may need to **review internal guidelines** of the principal non-compliant infections
- We need to write **an informational note to physicians and pharmacists**
 - Emphasize the need to **adhere to strict indications and to document infections**



Could be extended to the **entire university hospital** center in 2022.

