

Adequacy of systematic antifungal agents prescriptions in a teaching hospital



J02 – Antimycotics for systematic use

<u>F. BARGE</u>¹, C. DUBREUIL¹, T. GASTINNE², J. CAILLON³, I. ROUILLER-FURIC¹, D. NAVAS¹, J.F. HUON¹

¹CLINICAL PHARMACY, ²HEMATOLOGY, ³BACTERIOLOGY, NANTES TEACHING HOSPITAL, FRANCE

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Background

Invasive fungal infections (IFI) have an important **morbidity** and **mortality** and their incidence is constantly **increasing** for more than twenty years due to the increase of immunocompromised patients.

The complex medical care (related to diagnostic difficulties), the expansive treatments and emerging antifungals resistances require an appropriate prescribing.

Materials and Methods

Aim

To assess the conformity of antifungal prescribing to local and international guidelines for the treatment of IFI in a teaching hospital and to compare with similar studies.

- A prospective study was performed between April and May of 2018
- In six wards (pediatric oncology, hematology, and intensive care units)
- A multidisciplinary group produced a grid for prescription compliance
- For each initiation of antifungals drugs
- In accordance with the local guidelines
- And international guidelines from ECIL and IDSA

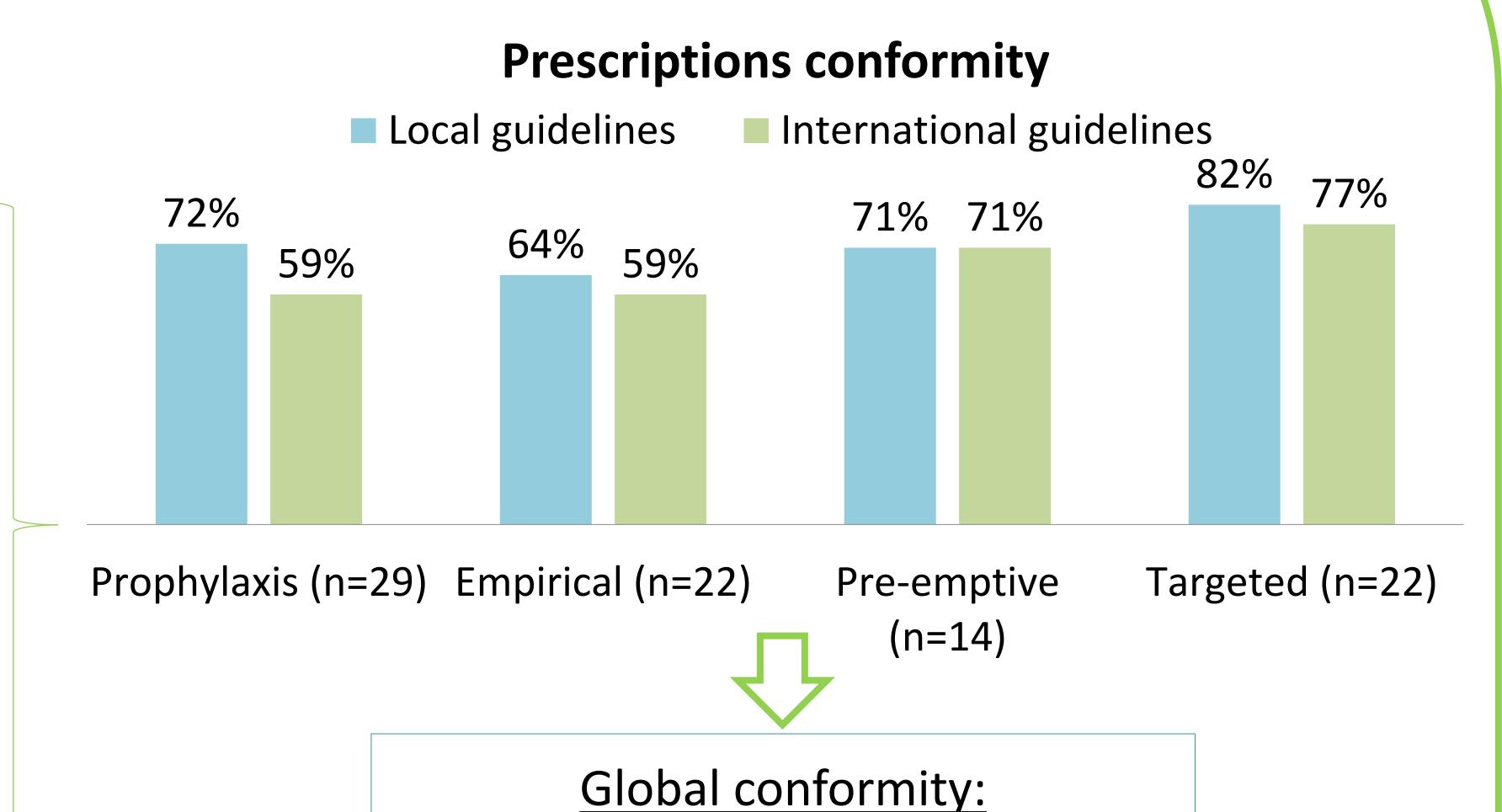
Results

Patients 79 patients for 87 prescriptions

Average age 50,8 years ± 20,

Sex ratio H/F 1,63 On average the patients had 3 risk factors for IFI

Units Hematology Chirugical intensive care Cardio thoracic intensive care Care Medical intensive care Paediatric oncology Infectious diseases



✓ The guidelines issued within the facility closely follow these international guidelines: 6% difference (p=0,41)

Clinical evolution at the end hospitalisation

72% with local guidelines

66% with international guidelines

24% 47% Stable Deterioration Death

The most common inappropriate use:

- ✓ Prescription of 2nd or 3rd-line while the 1st-line antifungal therapy was an option (14.9%), typically by an azole
- ✓ Antifungal prophylaxis indications (9.2%), leading to unnecessary exposure to antifungal agents

Conclusion

Few studies to date have assessed appropriate use of antifungals. In the studies published with a similar methodology, compliance with the international guidelines has been reported to be between 34% (1) and 58% (2).

A multidisciplinary antifungal group was implemented to curb IFI and to improve the use of antifungals.

In this context, guidelines were updated in the form of decision algorithms that, once adopted as a guide, should be able to improve practices (3).

References:

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