

Lucas Mayol M José, Rodríguez Morote M, Macia Soriano S, Matoses Chirivella C, Peral Ballester L, Murcia López AC, Hospital General Universitario de Elche, Pharmacy Department

## BACKGROUND AND IMPORTANCE

Nowadays, there are various **antifungal treatments** on the market, highlighting the need for restrictions on their use.

## AIM AND OBJECTIVES

Evaluate the **prescription quality and clinical progress** of the patient with antifungal treatment in a hospital with an educational antimicrobial stewardship program (ASP).

## MATERIAL AND METHODS

Retrospective observational study (January-December 2023)

Patients who required treatment with controlled antifungals

Software used: Orion Clinic® and FarmisOncofarm®.

Variables collected: sociodemographic and treatment variables

### Prescription quality

Empirical vs directed antimicrobial therapy

Indication adequacy according to the ASP criteria

Doctor's approval of the recommendation made by the ASP

### Clinical progress

30-day hospital re-admission and mortality

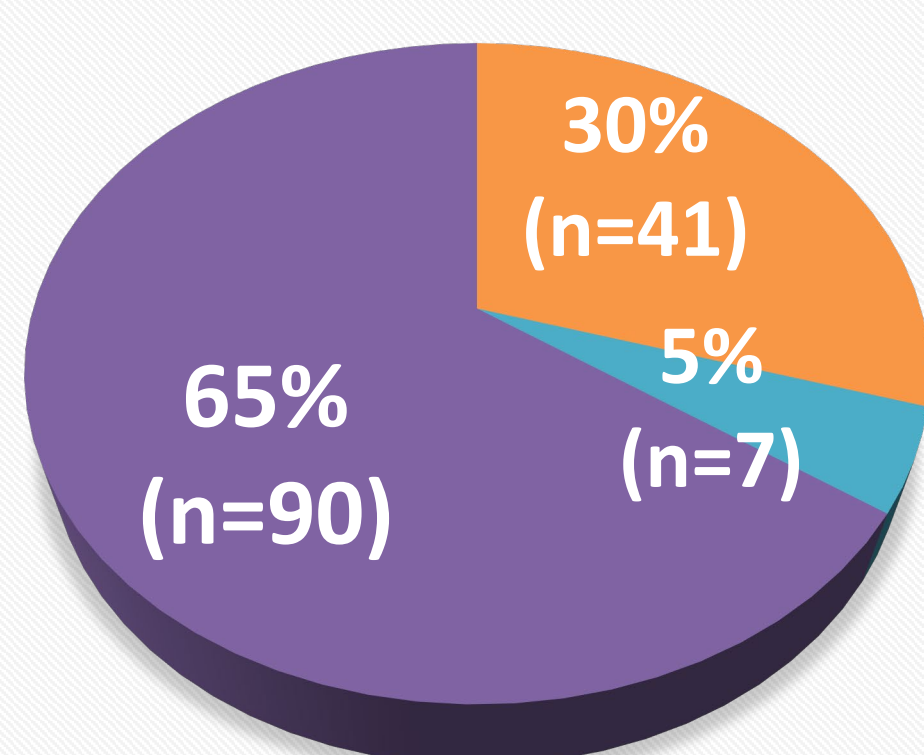
## RESULTS



N=138 patients  
N=87 men (63%)  
Mean age: 66 years

Median of days treatment: 4 (RIC:8)  
Median of days hospital stay: 20 (RIC:24)

Antifungal prescribed



■ Azoles ■ Liposomal amphotericin B ■ Echinocandin

64% of prescription was made by critical intensive care

### PRESCRIPTION QUALITY

- ❑ **Treatments** → 110 empirical vs 28 directed
- ❑ **Prescriptions** → 69(50%) were considered appropriate by ASP, being 52 empirical therapies and 17 directed therapies.
- ❑ A **treatment modification recommendation** was suggested in 69(50%) patients, being accepted in 41(60%) patients by the doctor.

### CLINICAL PROGRESS

- ❑ 70(49.2%) patients were **discharged** without new re-admissions or infection complications
- ❑ 19(13.7%) were **re-admitted** 30 days after de discharge
- ❑ 49(35.5%) **died** (39/49 critical patients)

## CONCLUSIONS

### Prescription quality

- ❖ The majority of treatments were empirical (echinocandins the most commonly group).
- ❖ ASP deemed half of the prescriptions to be appropriate.
- ❖ Over half of the cases implemented the recommendations suggested by ASP.

### Clinical progress

- ❖ Fifty percent of the patients had no complications following discharge.
- ❖ The intervention of these programs is important to ensure a favorable clinical evolution in more complex patients.

