ASSESSING THE QUALITY OF ANTIBIOTIC PRESCRIBING AT DISCHARGE FROM HOSPITAL



Martí Gil C, Barreira Hernández D, Martínez Valdivieso L, Marcos Pérez G, Llopis Salvia P, Barreda Hernández D. Pharmacy Department. Virgen de la Luz Hospital (Cuenca)

BACKGROUND

Infectious diseases, mainly respiratories, are one of the main reasons for hospital admissions. So, an appropiated antibiotic prescribing at discharge (APD) after these episodes of hospitalization have an important clinical repercussion.



PURPOSE

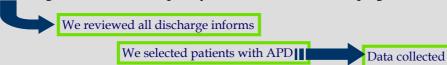


To assess the quality of APD

of the same

METHODS

- Descriptive, observational, retrospective study over 3-months-period (June-August 2010).
- Carried out in an Internal Medicine Short Stay Unit of a 400-bed hospital.
- It included <u>patients discharged from an interdisciplinary Medication Reconciliation program.</u>



Program

- Demographics: sex, age

- Clinics: allergies, diagnosis

- Antibiogram: sample, microorganism isolated

APD

Indicators used:



PE rate = [number of PE/ total APD]*100

We considered PE: dose/frequency/duration treatment inadequated/omission or incomplete prescription.

RESULTS

■ 85 patients were discharged during the study period |



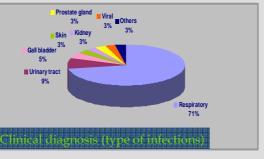
35 of them were prescribed at least one antibiotic. (30 patients with 1 APD, 5 patients with 2 APD)

41,2% of patiens with APD

Patient characteristics (%)

Sex: female (46%), male (54%)







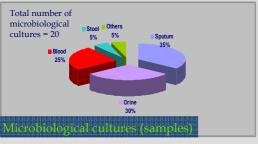
During the hospitalization, only microbiological cultures were assessed in 31,4% of the patients

55% of microbiological cultures were positive

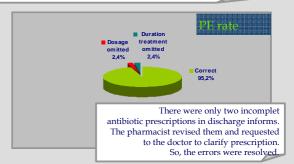
55% of microbiological cultures were positive

APD

Microorganisms isolated: Streptococcus viridans (18,2%), Chlamydophila penumoniae (18,2%), Escherichia coli (9,1%), Streptococcus pneumoniae (9,1%), Haemophilus influenzae (9,1%), Candida albicans (9,1%), Aspergillus fumigatus (9,1%), Morganella morganni (9,1%), Neisseria (9,1%)



APD indicators	
Adherence to PCPG	64,1%
Prescription by INN	24,4%
PE rate	4,8%
Emprical use	84,3%



CONCLUSIONS

To review the use of antibiotics at hospital is a tool necessary to assess quality of prescription and to promote a rational drug use.

