

# ACTION OF THE PHARMACIST ON THE ADEQUATE PRESCRIPTION OF ANTIBIOTICS

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## BACKGROUND

THE INAPPROPRIATE AND ABUSIVE USE OF ANTIBIOTICS (ATB) IS CAUSING A SERIOUS GLOBAL HEALTH PROBLEM CONSISTING IN THE APPEARANCE, MORE AND MORE FREQUENTLY, OF BACTERIAL STRAINS RESISTANT TO THEM.

## OBJETIVE

DETECT AND CLASSIFY INTERVENTIONS RELATED TO ANTIBIOTHERAPY, AS WELL AS ANALYZE AND QUANTIFY THE PHARMACEUTICAL CONTRIBUTIONS MADE IN A THIRD LEVEL HOSPITAL

RETROSPECTIVE, OBSERVATIONAL, DESCRIPTIVE STUDY OF ALL INTERVENTIONS RELATED TO ANTIBIOTICS REGISTERED FROM SEPTEMBER/2016 TO SEPTEMBER/2017 WITH ATHOS-APD® SOFTWARE

INCLUSION CRITERIA WERE: PATIENTS OLDER THAN 18 YEARS WHO RECEIVED ATB DURING AN ADMISSION IN THE STUDY PERIOD

## MATERIALS AND METHODS

NUMBER OF PATIENTS TREATED, NUMBER OF ANTIBIOTIC INTERVENTIONS, DESCRIPTION OF INTERVENTION PERFORMED, MEDICAL SERVICES INVOLVED, PHARMACEUTICAL CONTRIBUTIONS AND INTERVENTIONS ACCEPTED/REJECTED BY THE PRESCRIBER

OFFICE® SOFTWARE PACKAGE WAS USED TO PROCESS THE DATA

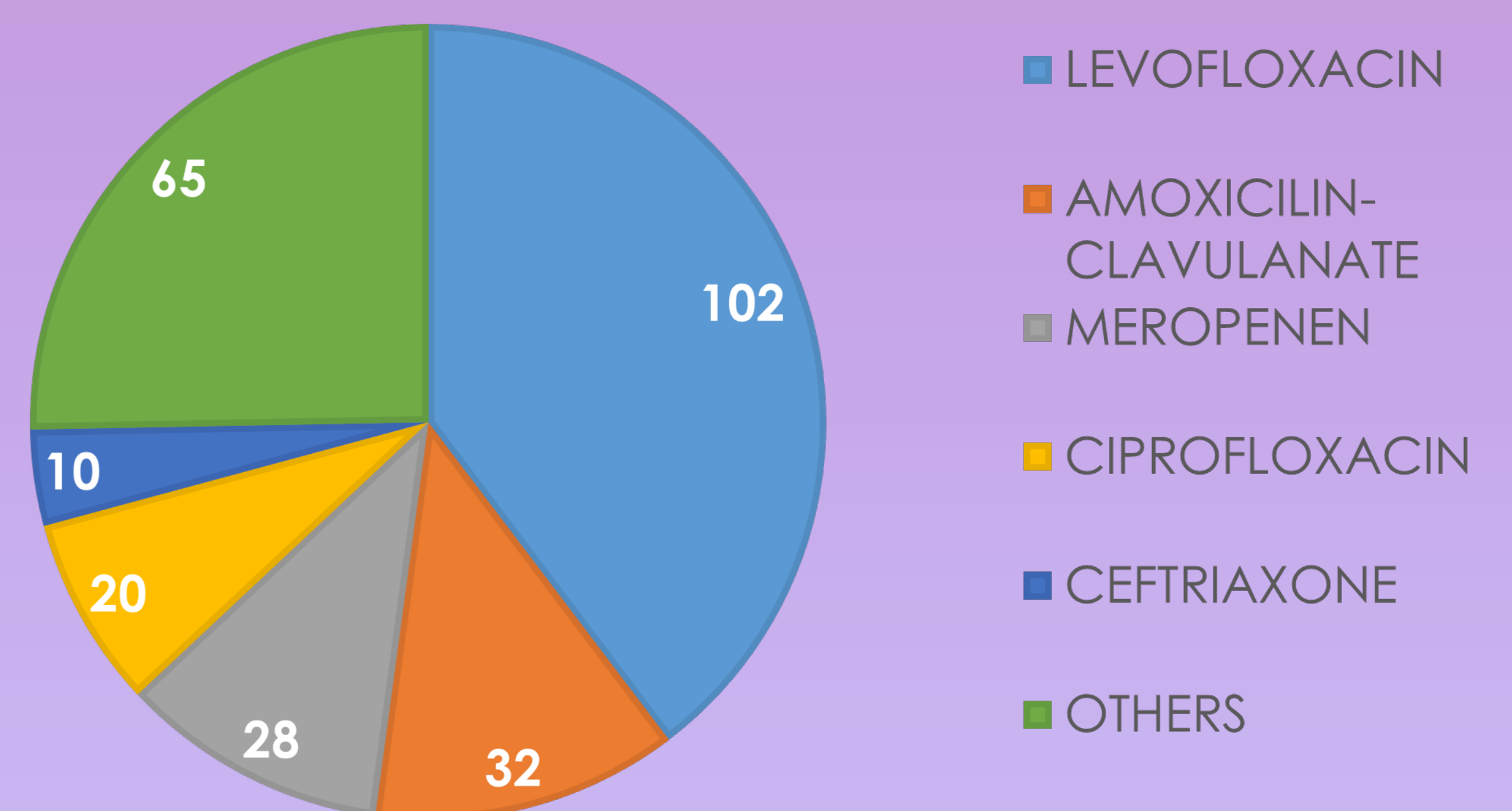
## RESULTS

257 antibiotic-related interventions were obtained for a total of 230 patients

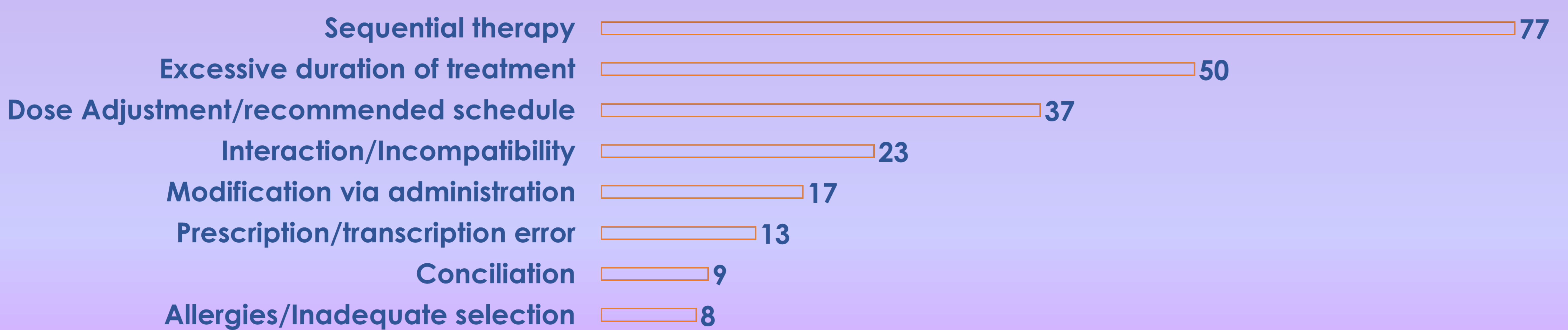
96% of interventions were accepted and corrected by the prescriber in front of 4% that were rejected

Intervened medical services were: Internal Medicine (68), Pneumology (36), General Surgery (24), Infectious (21) and Digestive (20)

## ANTIBIOTICS INTERVENTIONS



## TYPE OF INTERVENTIONS



## PHARMACEUTICAL CONTRIBUTIONS

### CORRECTION OF DOSAGE ERRORS

- AMOXICILLIN/CLAVULANATE 2GR, CEFTRIAXONE AND VANCOMYCIN

### NOTIFICATION CROSS ALLERGIES

- CEPHALOSPORINS-AMOXICILLIN/CLAVULANATE AND PENICILLIN-IMIPENEM

### THERAPEUTIC DOUBLING COMMUNICATION

### SUSPENSION RECOMMENDATION FOR MORE THAN 15 DAYS OF TREATMENT

- IMIPENEM, LEVOFLOXACIN, LINEZOLID OR MEROPENEM

### DRUG INTERACTION NOTIFICATION AND NON-PHARMACOLOGICAL

- CEFTRIAXONA-ACENOCUMAROL OR LEVOFLOXACIN-RIVAROXABAN/CIPROFLOXACIN-ENTERAL DIET

### RECOMMENDATION FOR ORAL CHANGE

- LEVOFLOXACIN OR LINEZOLID

**CONCLUSION:** ACCORDING TO THE RESULTS OBTAINED, THE INTERVENTIONS AND CONTRIBUTIONS MADE BY THE PHARMACIST ALLOW CORRECTION OF PRESCRIPTION ERRORS AND, CONSEQUENTLY, CONTRIBUTE TO IMPROVE THE USE OF ANTIBIOTIC THERAPY