

# ANALYSIS OF THE USE OF PERIOPERATIVE ANTIBIOTIC PROFPHYLAXIS 5PSQ-024

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## BACKGROUND AND IMPORTANCE

The administration of appropriate antibiotics perioperatively can prevent surgical injury infections.

Surgical prophylaxis accounts 30-50% antibiotic use in surgical services.

Updating-monitoring protocols is a priority measures to improve antibiotic use by PROA teams.

## AIM AND OBJETIVES

Analyze perioperative antibiotic prophylaxis prescriptions. Determine if they adapt to current local-protocols.

## MATERIAL AND METHODS

Prospective observational study (May-December´2023) in 2ndlevel-hospital.



**Inclusion criteria:** surgical interventions in inpatient surgery regimen.



**Exclusion criteria:** outpatient surgery interventions.

### Variables:



- Age-gender.
- Adverse drug reactions (ADR).
- Surgical area.
- Type of surgery
- Intervention procedure.
- Antibiotic prophylaxis: compliance with local protocol and discrepancies found.

Data was obtained from electronic-medical record. Collected-analyzed in Excell®.

## RESULTS



**200 patients** were included. 130 patients were men. **Median age 60 years** (IQR 49-71). 4 patient were **allergic to antibiotics**, one patient was given an alternative antibiotic.



**Major surgical areas:** General Surgery Digestive System 110 interventions, Urology 48 **Type of surgery:** 89 clean, 68 clean-contaminated.

**Majority intervention procedures:** 33 hernioplasties, 26 transurethral-resection prostate/bladder, 16 cholecystectomies, 14 colon-rectum-distal-ileum surgerie.

Antibiotic prophylaxis used in **146 patients complied with local protocol**.

### Main discrepancies:



- Prescribing another antimicrobial agent than in the protocol in 15 cases
- Prescribing an antimicrobial agent in patients who didn't meet risk factors for administration in 11
- Using an alternative protocol regimen in patients not allergic to drug of choice in 9.
- The majority of discrepancies were found in clean-interventions

## CONCLUSION AND RELEVANCE

Monitoring perioperative antibiotic prophylaxis guidelines is key to determine if whether the current local protocol is being followed. Also to consider if it needs to be re-evaluated and updated with PROA team

