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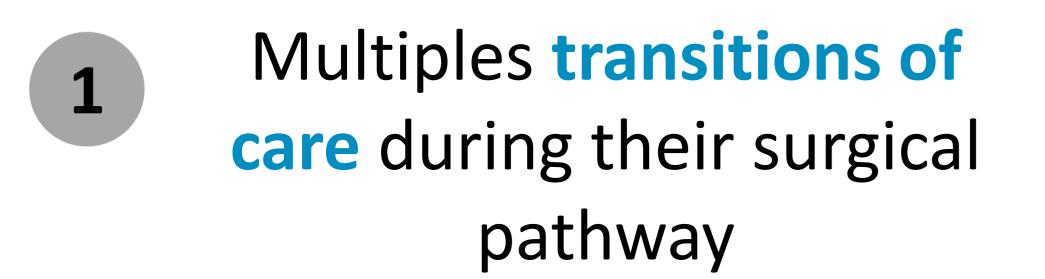
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# ANALYSIS OF MEDICATION ERRORS INVOLVING HIGH-RISK PATIENTS IN THE PERIOPERATIVE SETTING

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# OBJECTIVES

**Background:** The perioperative setting has suggestive differences from any other hospital unit that make it more vulnerable to medication errors (ME):





Medications are usually prescribed and administered by the anesthesiologist A significant proportion of medications used are highalert medications

**Objetive:** Analyze perioperative ME rates in high-risk patients that occurred throughout the use of medication in the surgical process

# MATERIALS AND METHODS

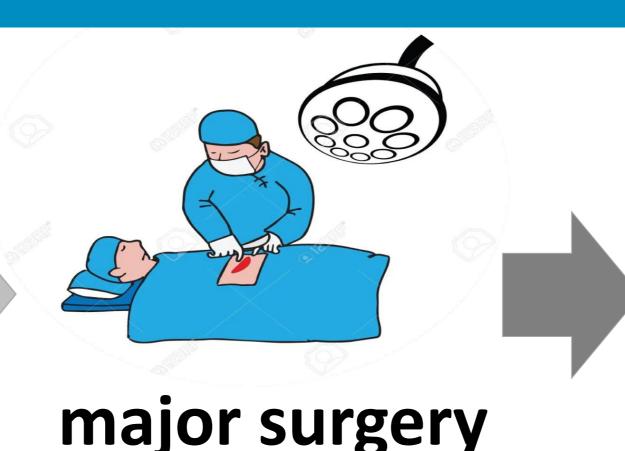
### **High-risk adults**

- 1- Anticoagulated therapy
- 2- Dual antiplatelet therapy
- 3- ASA-IV\*
- 4- complex chronic patients
- \*American Society of Anesthesiologists physical status
- ✓ Preoperative management ✓ Antibiotic prophylaxis of chronic medication
  ✓ Prevention of nausea and vomiting
  ✓ Glycemic management

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✓ Medication reconciliation ✓ Sequential therapy

Design: A observational, descriptive, and retrospective study conducted from October to December, 2020 in a



#### 1,300-bed tertiary teaching hospital.

#### RESULTS

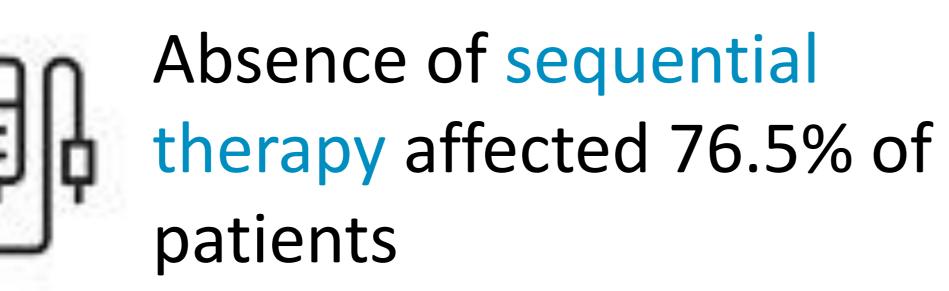
68 patients were included:



- mean age: 71 years
- 66.6% males

- Patients received an average of 7.8 chronic drugs.
- Most patients underwent general surgery (32,3%) or urology (29,4%) procedures.





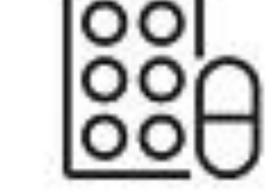


Antibiotic prophylaxis was inadequate in 52.9% of the patients



7.3% patients presented any ME related to pain management





was in 39.7% of patients

The incidence of ME in reconciliation was higher at patient admission (41.2%) than

at discharge (29.4%)



3.2% of patients presented inadequate treatment to prevent nausea and vomiting



27.9% patients had incorrect glycemic management

# CONCLUSION

This study revealed **a high incidence** of ME in high-risk patients undergoing major surgery. Strategies to reduce ME in the perioperative setting **should be implemented** in order to improve the quality of surgical care and patient safety in the surgical environment

Pharmacists play a key role in medication errors prevention and they should be engaged in promoting the safe use of medications

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