

5PSQ-045

## IMPACT OF PHARMACEUTICAL INTERVENTIONS IN CRITICAL PATIENTS

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### BACKGROUND AND IMPORTANCE

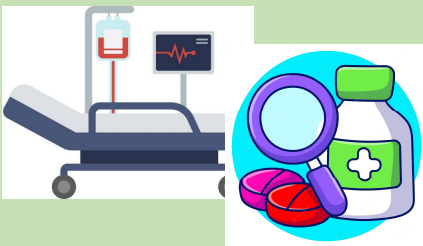
The high healthcare burden in the Intensive Care Unit (ICU) due to the SARS-CoV2 Coronavirus pandemic has created a work environment that increased medication errors. It is known that pharmaceutical interventions reduced medication errors.

### AIM AND OBJECTIVES

The objective of this study is to know the impact of pharmaceutical intervention in critically ill patients.

### MATERIALS AND METHODS

October 2020 to April 2021: Retrospective observational study

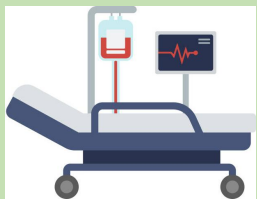


Pharmaceutical interventions in ICU patients

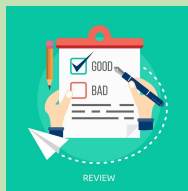
#### COLLECTED DATA:

- Positive diagnosis of COVID-19 (SARS-CoV2 coronavirus disease)
- Number of interventions
- Type of intervention
- Acceptance of the intervention

### RESULTS



169 patients



51 interventions  
(0.3 interventions / patient)

#### MOST FREQUENT REASONS FOR INTERVENTION:

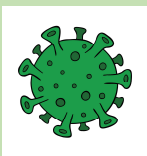
- Dose modification due to inappropriate dose (35,3%)
- Inappropriate choice of presentation due to the route of administration (21,5%)



17% of patient had at least one intervention, of which 38% had more than 1



The mean number of interventions performed in patients with COVID-19 was higher than in non-COVID-19 patients (1.87 vs. 1.33)



42,6% positive diagnosis of COVID-19

84% of interventions was carried out in covid-19 patients

**92% of the interventions were accepted**

### CONCLUSION AND RELEVANCE

Pharmaceutical validation in the Intensive Care Unit (ICU) is essential to optimize the treatment of critical patients, increasing safety and efficacy of medications they receive and reducing medication errors. Patients diagnosed with COVID-19 are especially likely to benefit from pharmaceutical interventions, which are highly accepted by physicians.

