













Abstract Number: 5PSQ-051

COST-EFFECTIVENESS OF A PRESURGICAL PHARMACEUTICAL CARE CONSULTATION

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BACKGROUND AND IMPORTANCE

4.7%

spanish hospital patients suffer a preventable adverse event (AE) due to medication errors.

Pharmacist have started initiatives to **2016** prevent them. New programs in surgery.

Pre-surgical Pharmaceutical Care Consultation: patient's manage chronic medication before surgery.

AIM AND OBJECTIVES: To analyse the economic impact of implementing this consultation based on the presurgical medication errors avoided with pharmaceutical interventions.

MATERIALS AND METHODS

1. Creation of Multidisciplinary team Two clinical pharmacists + two anesthesiologists.

All the interventions performed by Presurgical Pharmaceutical Care Consultation (2016 and 2020) in 2. Retrospective analysis of interventions Traumatology, General Surgery, Cardiac Surgery and Thoracic Surgery Services.

According to its probability of causing an AE (literature + clinical 3. Classification of errors judgment). Conservative approach, without "1" probability. 5 groups:

0 - 0.01 - 0.1 - 0.4 - 0.6

Cost of one AE: "AE probability * €6,924" 4. Calculation of avoided costs

€6,924 adjusted cost of an AE (Spanish literature)

Sensitive analysis: AE cost 20% higher or lower

RESULTS

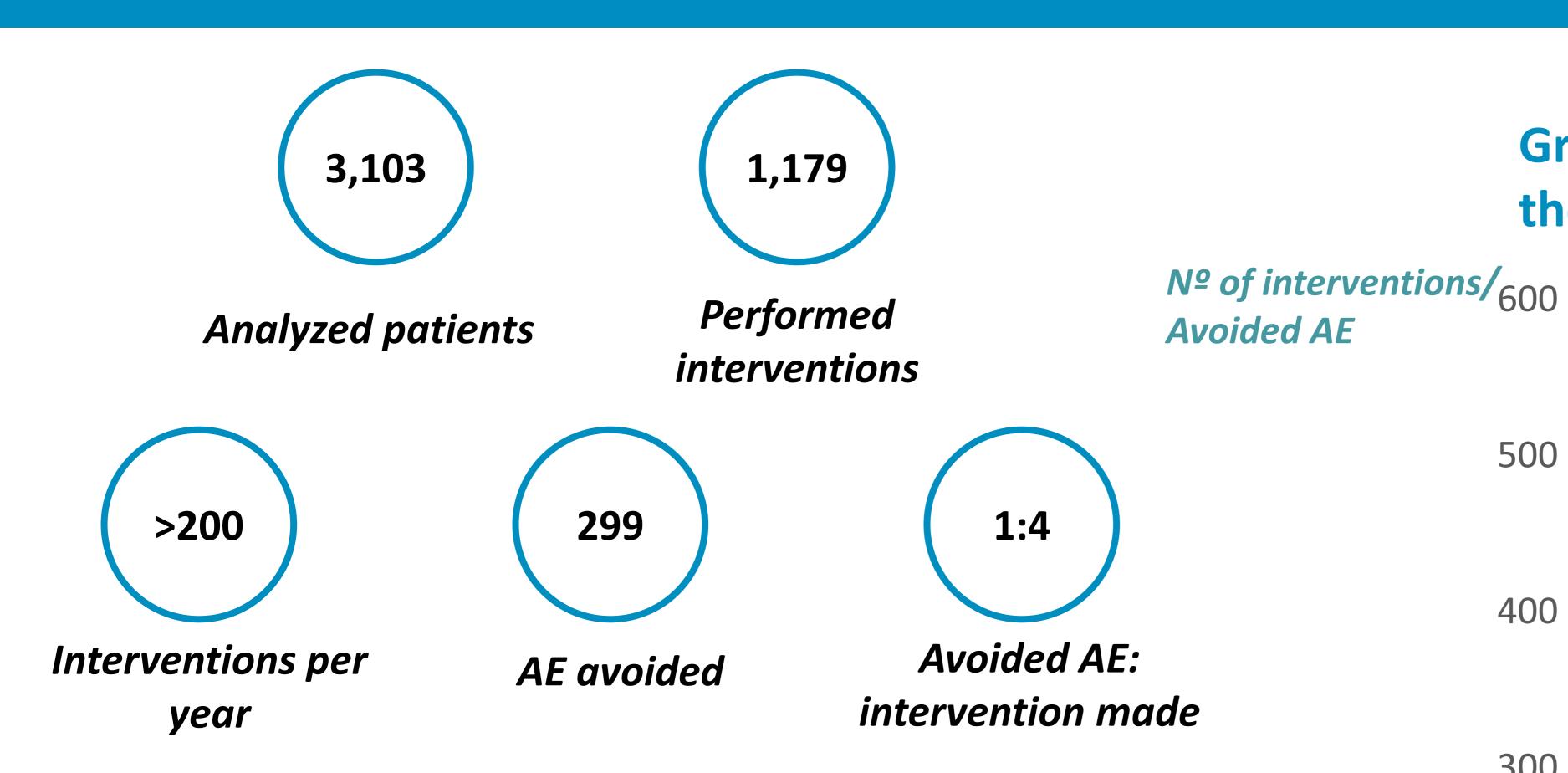
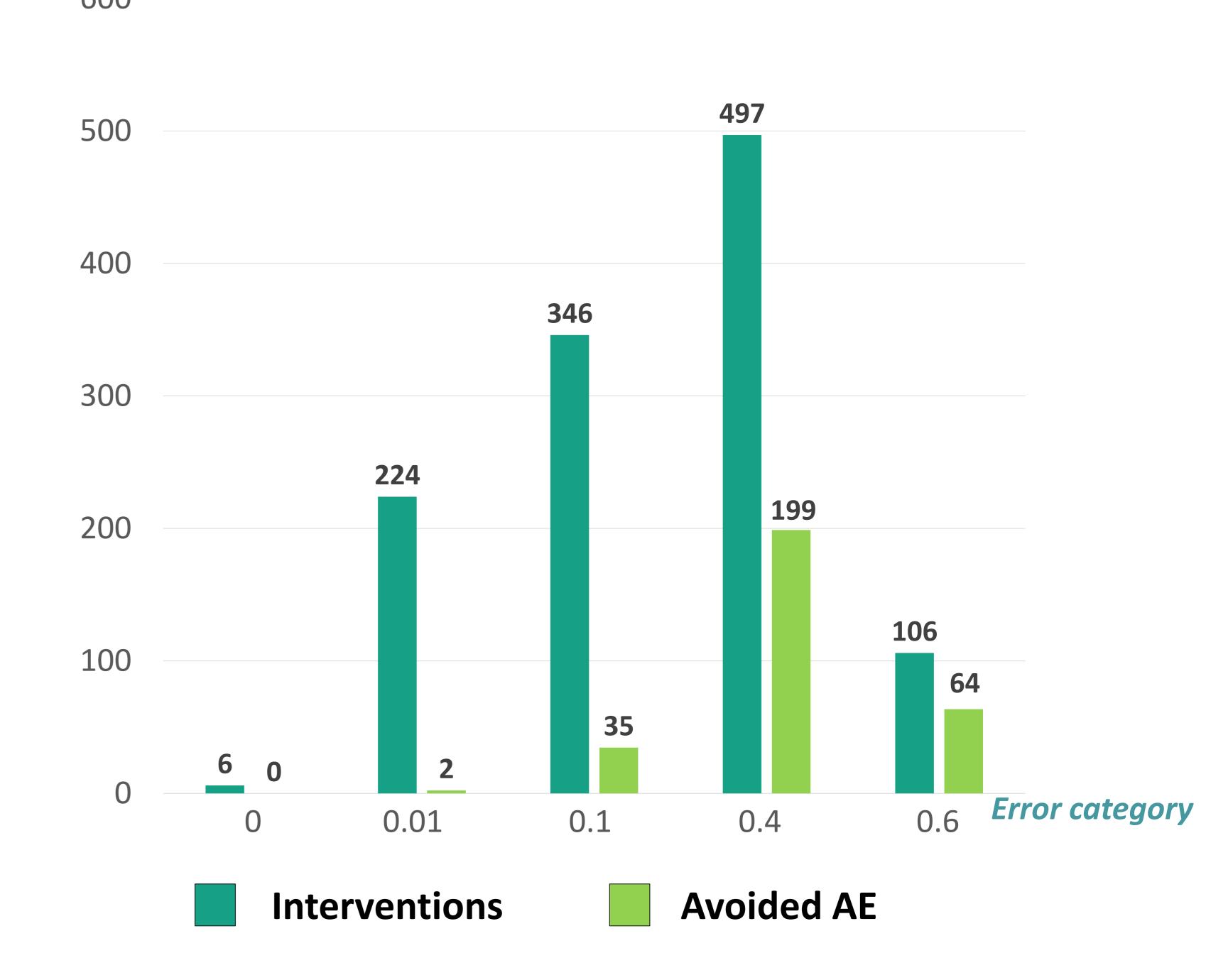


Table 1. Avoided costs.

	AE cost	Total	Ratio Savings/Costs
Estimated cost	6,924€	2.076.785 €	9.1:1
20 % higher	8,309€	2,486,385 €	10.9:1
20 % lower	5,539€	1,657,490 €	7.3:1

distribution Interventions Graph and theoretical avoided AE.



CONCLUSION AND RELEVANCE

- Implementation of our Pre-surgical Pharmaceutical Care Consultation was cost-effective, preventing medication errors and reducing health spending.
- It could be extrapolated to other hospitals in order to improve surgical patient safety in a cost-effective way.



