# **CALCULATION OF THE THERAPEUTIC COMPLEXITY OF THE INSTITUTIONALIZED PATIENT IN A TERTIARY HOSPITAL**

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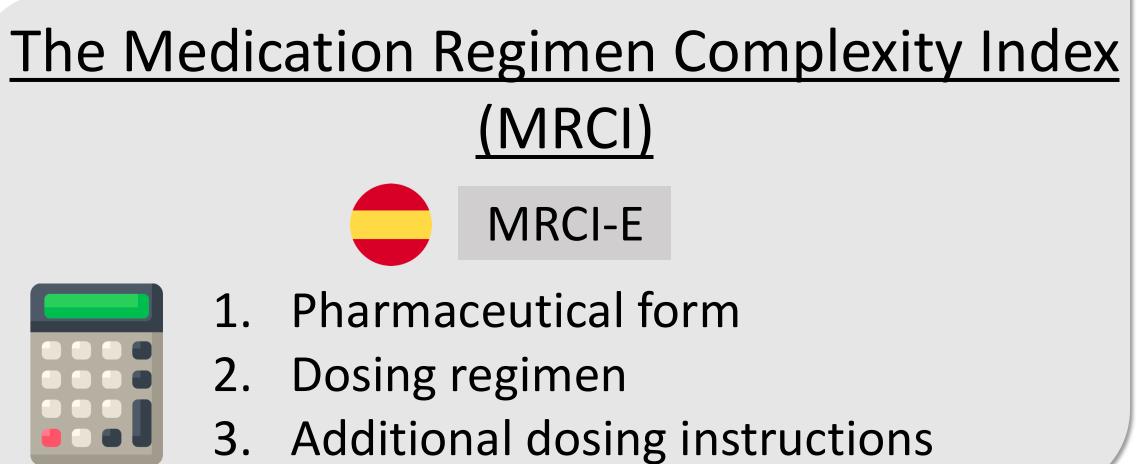
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## INTRODUCTION



↑ Hospital admissions  $\downarrow$  Patients' quality of life  $\uparrow$  Mortality rates 50% of patients do not follow their medication

regimen







1. Estimate the therapeutic complexity of institutionalized patients upon admission to the Institutionalized Patient Care Unit (UAPI), and to assess the potential reduction in complexity following pharmaceutical interventions on chronic treatment at discharge.

AIMS

2. Evaluate whether there is a relationship between therapeutic complexity and the number of hospital visits or readmissions.



#### MATERIALS AND METHODS

A database was created to collect information from electronic medical records and prescription systems,

**Excel<sup>®</sup> sheet:** automatically calculated the

Wilcoxon test  $\rightarrow$  evaluate differences in the MRCI-E score before and after pharmaceutical validation.

- Linear regression  $\rightarrow$  analyze the association between therapeutic complexity and the number of UAPI visits.

UAPI's patients

nursing home reports

complexity scores

### RESULTS

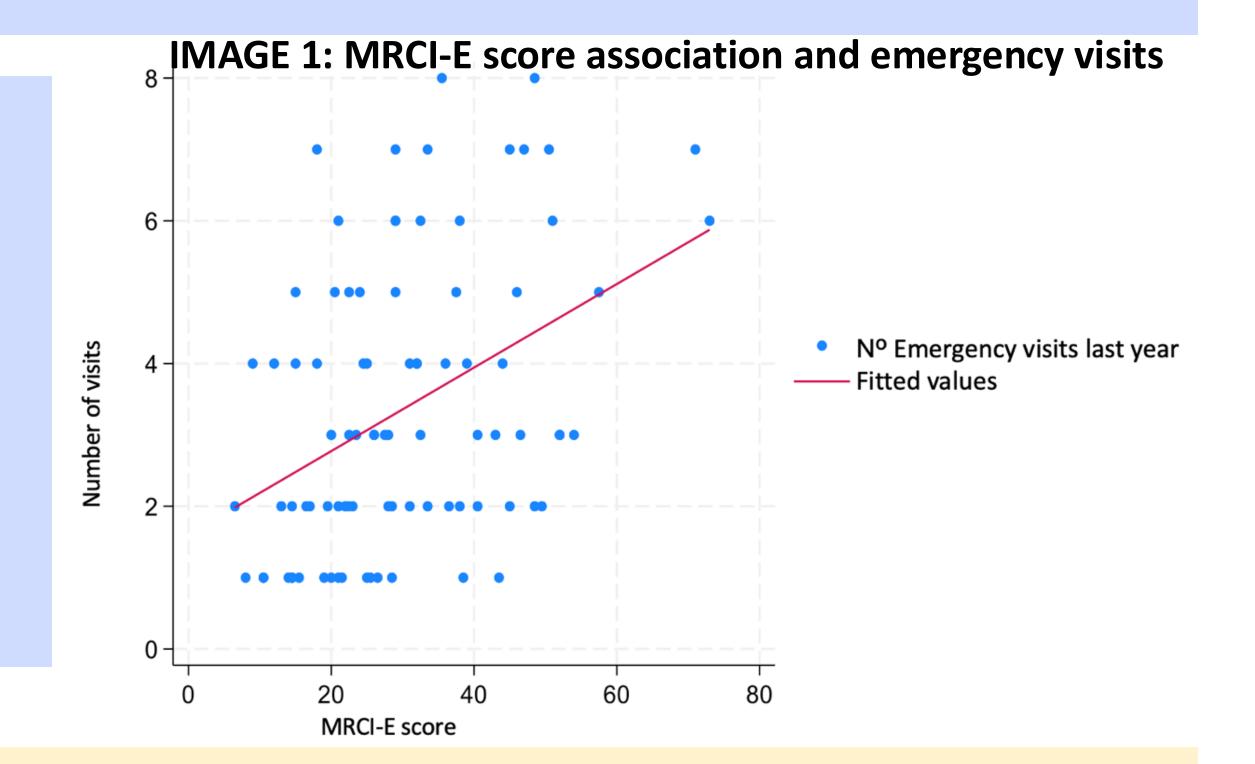
#### **88 PATIENTS**

66% women

Mean age of 86 years (65-99) Average of 11 prescribed medications

The mean MRCI-E score was 30 points which, reduced to 28 after pharmaceutical **intervention**, with a statistically significant difference (p<0.001).

The regression analysis showed that for every additional 20 points in the MRCI-E, there was an increase of 1.17 emergency visits (95%Cl 0.61; 1.73, p-value<0.001).



#### CONCLUSIONS

The results demonstrate that pharmaceutical intervention can reduce the therapeutic complexity of patients and, therefore, decreasing their associated risk. Additionally, higher MRCI-E scores are found associated with an increased number of emergency hospital visits.



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