



# SAFETY RELATED TO PSYCHOGERIATRIC PATIENTS. **ONE YEAR PROSPECTIVE STUDY**

Marta H Hernandez, Conxita Mestres, Pilar Modamio, Jaume Junyent, Lluís Costa-Tutusaus, Cecilia F Lastra, Eduardo L Mariño, <sup>1</sup> School of Health Sciences Blanquerna, University Ramon Llull, Barcelona, Spain. <sup>2</sup> Clinical Pharmacotherapy Unit, Faculty of Pharmacy and Food Sciences, University of Barcelona, Barcelona, Spain.<sup>3</sup> Mutuam Güell Hospital, Barcelona, Spain.

Background

Aim

**Patient safety** is the most important concern for patients and caregivers, health care professionals, and health care systems. Adverse drug events (ADEs) are a common cause of hospitalization and occur with increasing frequency in hospital as patient's age.





Inclusion criteria: Patients with dementia, admitted for neuropsychiatric / Behavioral and Psychological Symptoms in Dementia (BPSD) control.

Method

Excluded patients with previous psychiatric illness or palliative.



Medication review at admission with prescribing information: Aegerus<sup>®</sup> and Catalonia clinical record HC3. Follow up weekly meeting with the physician.

Demographic variables (age/gender)

**Global Deterioration** Scale of Reisberg

Risk of fall J.H. **Downton scale** 

**One-year prospective study** (July 2015 - July 2016).

Anticholinergic load Drug Burden Index

**ADE assessment**: causality by **Naranjo** algorithm, severity by classification system of the Institute for Healthcare Improvement



68 ADEs (53 patients - 81.5%, 22.6% more than 1)

80% were related to ATC Nervous System (46%, 23 ADE, Psycholeptics).

# 73.5% no related to falls.

## NARANJO

1 (2%) definite, probable 45 (90%), possible 4 (8%).

**E:** Temporary harm to the patient and required intervention in 34 (68%)

F: Temporary harm to the patient and required initial or prolonged hospitalization in 16 (32%).

### SCHUMORK-THORNTON

**58% (29)** of the ADE were preventable, possible preventable 6% (3) and unavoidable 36% (18).

Main ADE: 27.7% drowsiness/somnolence, 12.8% weakness and hypoactivity and 10.7% hypotension.

DBI differences related to fall as ADE result (fall group 1.29±0.79, non-fall group 0.95±0.71 p=0.05).

+ Anticholinergic load is determinant for ADEs related to fall with significant clinical consequences in these patients, and economic impact.

The balance between effective treatments and safety is complex in these patients. Mostly ADE are related to the pharmacological treatment of this BPSD.

