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 4. Historical research

# DRUG-INDUCED SOMNOLENCE IN FRAILTY PATIENTS ATTENDED IN AN EMERGENCY DEPARTMENT

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## BACKGROUND

Drug-induced somnolence is an important cause of Emergency department (ED) visit in frailty patients.

## AIM AND OBJECTIVES

To describe the drugs involved in ED visits due drug-induced somnolence in frailty patients and to evaluate the risk factors involved in ED revisits 30-days after discharge..

## MATERIAL AND METHODS

Retrospective observational study (October 2020 - March 2021)

- **Inclusion Criteria:** Patients admitted in a frailty area of an ED who consulted for drug-induced somnolence according to the diagnosis at discharge
- **Exclusion Criteria:** Suicide attempts

### 30-days ED Revisits evaluation

- ✗ ED revisits 30 days after discharge
- ✗ Multivariate analysis (logistic regression), including in the model those variables related to the patient's comorbidity with a value of  $p < 0.2$  in a previous univariate analysis

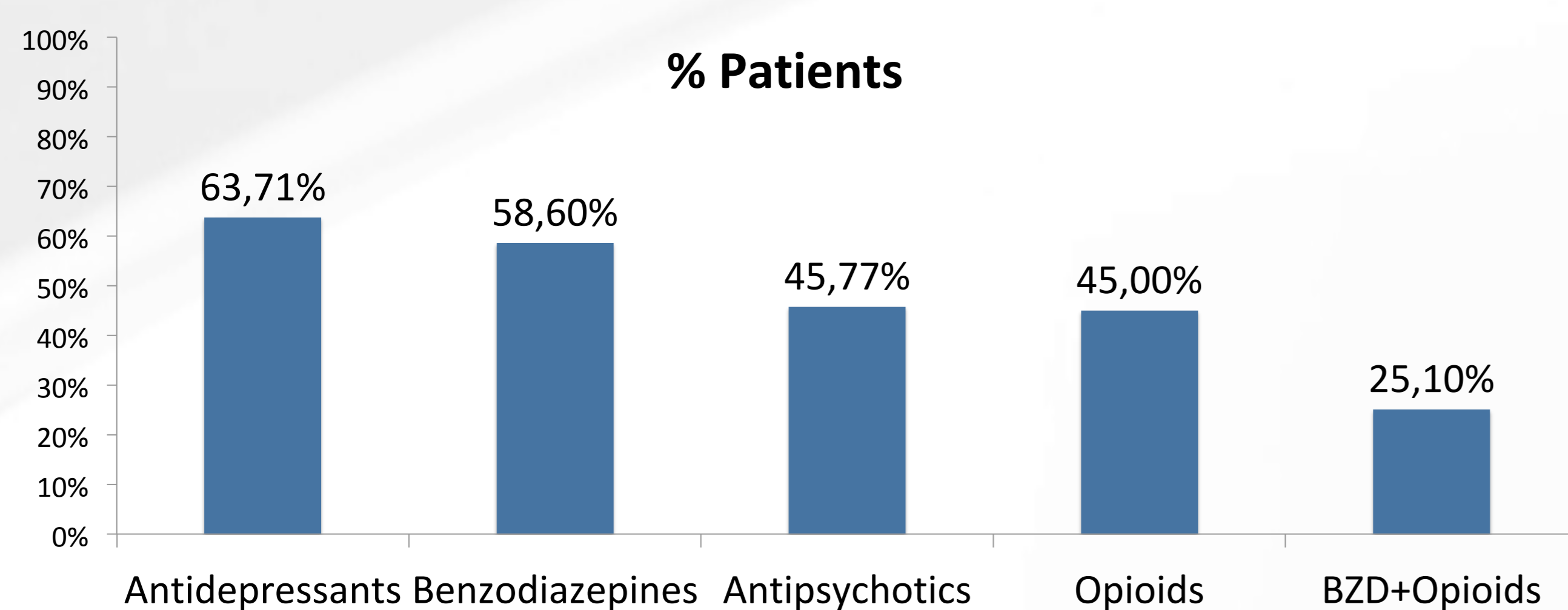
## RESULTS

### 80 Patients

Mean Age: 80.1; SD: 13.1 years  
 Median drugs at admission: 9 (Range: 3-20)  
 Median chronic pathologies 6 (Range: 1-12)  
 35 (43.7%) patients had dementia

At discharge, drugs prescription were modified in **44 (55.0%)** patients  
**3 (3.7%)** died during hospitalization  
**8 (10.0%)** died 30 days after discharge

### Median number of CNS depressant drugs on admission: 3 (Range: 1-6)



**18 (25.0%)** patients returned to the ED 30 days after discharge

### Results of the multivariate analysis

	30-days ED revisits due HF decompensation	
	OR (IC95%)	p
Dementia	1,31 (0,74-1,72)	0,244
<b>Chronic kidney disease</b>	2.87 (0.87-7.27)	<b>0,089</b>
> 3 CNS depressant drugs	2.10 (0.83-4.21)	0,175

## CONCLUSIONS

- ✗ Frailty patients who visit the ED due to drug-induced somnolence frequently have multiple contributing drugs.
- ✗ Near 25% of patients revisited the ED 30 days after discharge, most of them due to new episodes related to these drugs.
- ✗ Chronic renal failure may be associated to an increased risk of 30-day revisits.