MEDICATION-RELATED ADMISSION WAS MORE FREQUENT IN ELDERLY PATIENTS HOSPITALISED IN AN ORTHOPEDIC UNIT THAN IN AN EMERGENCY DEPARTMENT IN TWO FRENCH HOSPITALS





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Background and Importance

Medication-related admissions (MRAs) are common in elderly and are preventable in almost half of cases. **Pharmaceutical care** aims to promote medication safety and reduce **potentially inappropriate prescriptions**. In our hospitals, clinical pharmacists perform **medication reviews** in both **emergency department** (ED) and **orthopedic units**. As part of an ongoing process of quality improvement, we conduct a study to identify MRAs in patients over 75 years old hospitalized in these two clinical settings.

Aim and Objectives

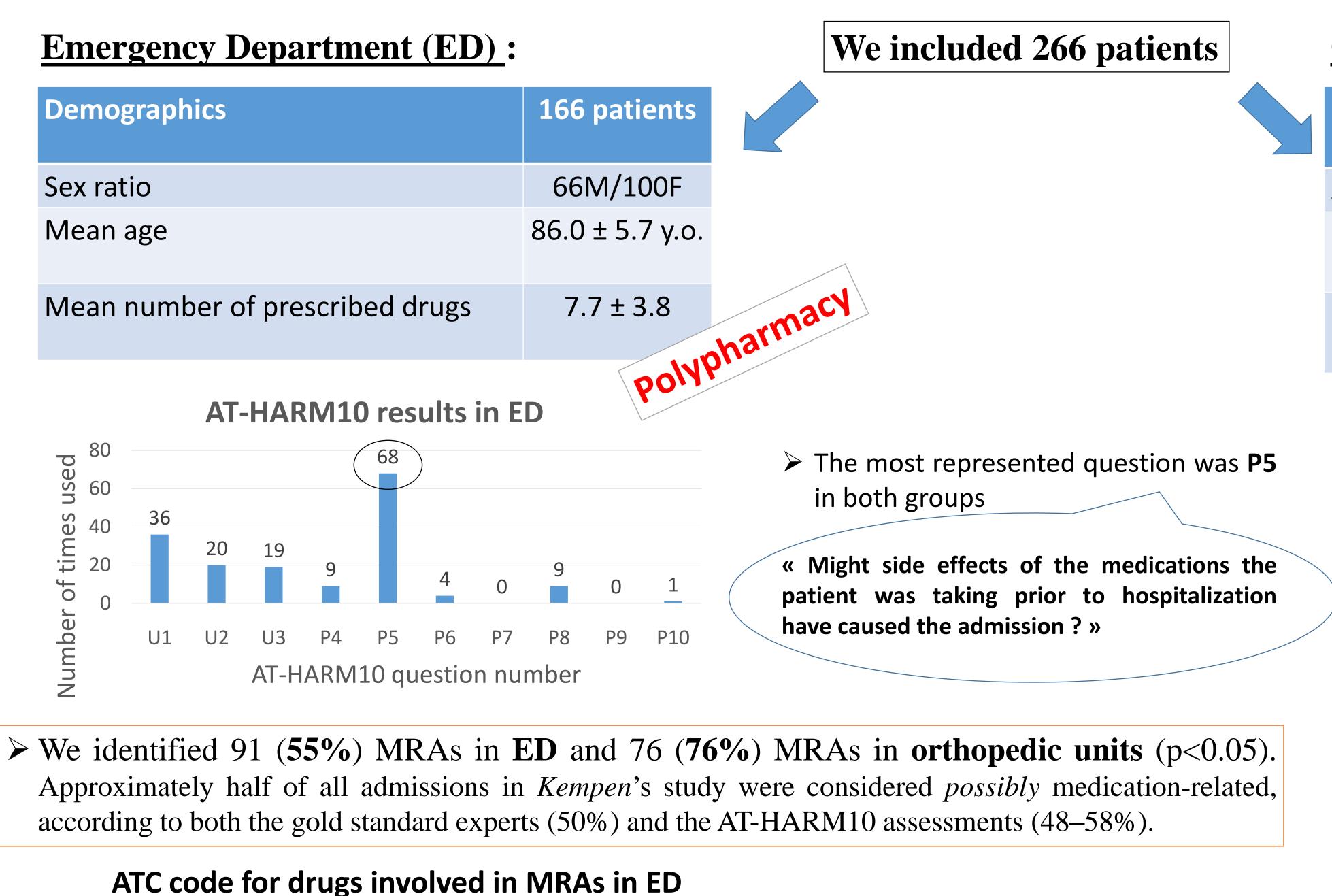
The aim of this study was to compare **MRAs prevalence** in elderly patients hospitalized in ED and orthopedic units, in order to reassess the management of **clinical pharmacists' interventions** during hospitalizations.

Material and Methods

This **prospective observational multicenter study** was conducted between May 2019 and March 2020, including patients over 75 admitted in the ED and orthopedic surgery departments of 2 French hospitals.

We use the AT-HARM10 tool* to distinguish possibly vs unlikely MRAs in elderly patients.

Results



L: Antineoplastic and immunomodulating agents

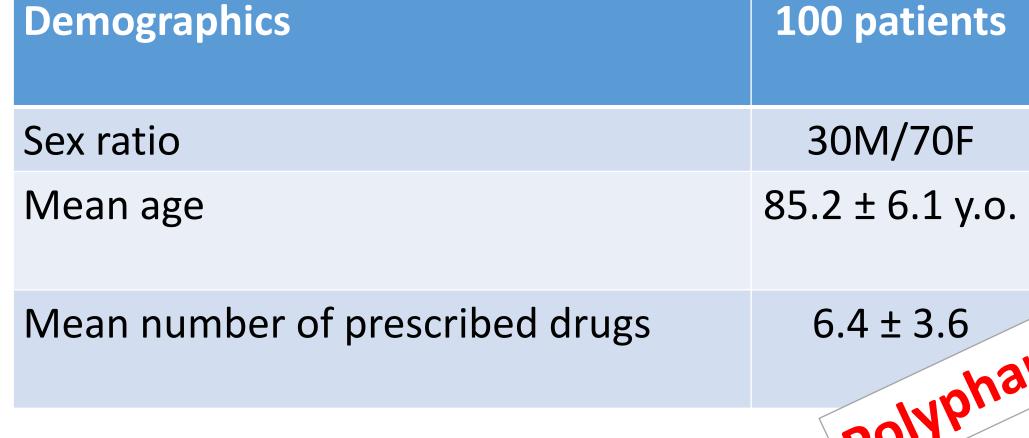
■ C : Cardiovascular system

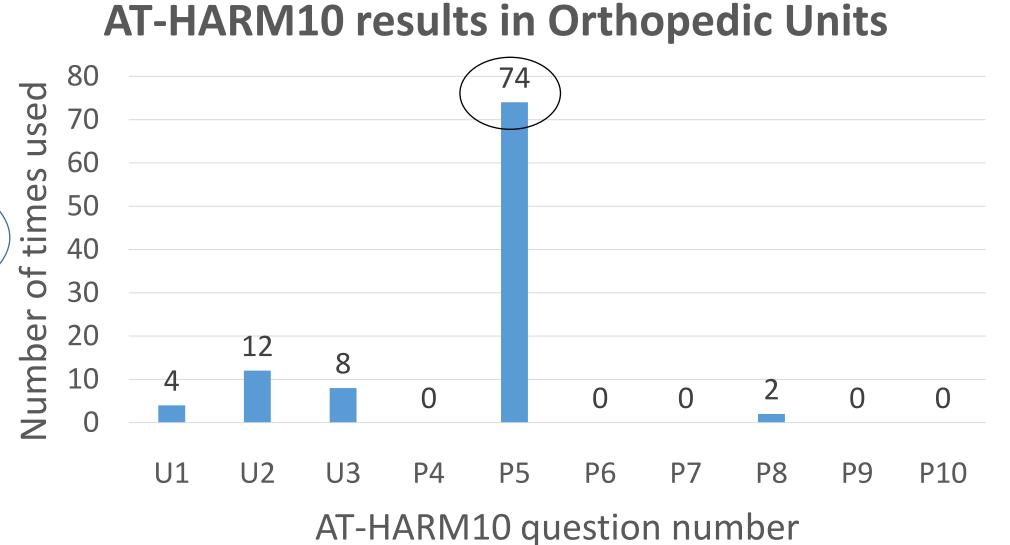
■ B : Blood and blood forming organs

■ A : Alimentary tract and metabolism

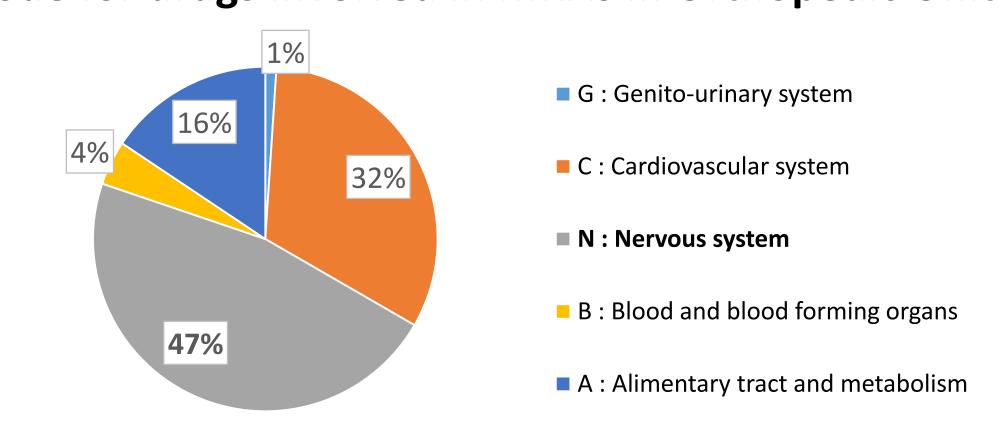
■ N : Nervous system

Orthopedic Units:





ATC code for drugs involved in MRAs in Orthopedic Units



Conclusion and Relevance

previous studies.

Most involved drugs were acting on

nervous system (ATC-N), followed

by blood system (ATC-B) in ED like

We found MRAs rates comparable to results reported in previous studies about elderly patients in ED. MRAs were more frequent in elderly patients admitted in orthopedic surgery. These results lead us to prioritize more medication reviews by clinical pharmacists for older patients in surgery departments, to guarantee a continuity of patient's care and potentially avoid re-hospitalizations.

25%

22%

35%