

TABLET CRUSHING AND HARD CAPSULE OPENING PRATICES IN NURSING HOME AND LONG-TERM CARE UNIT



C. CASTEL ¹, G. LOGGIA ², P. LESCURE ², P. DESCATOIRE ², C. HECQUARD ¹, G. SAINT-LORANT ¹

- ¹ Central Pharmacy department, CHU de Caen, Avenue de la côte de Nacre, F-14000 Caen, France
- ² Geriatric Medicine department, CHU de Caen, Avenue de la côte de Nacre, F-14000 Caen, France

Background

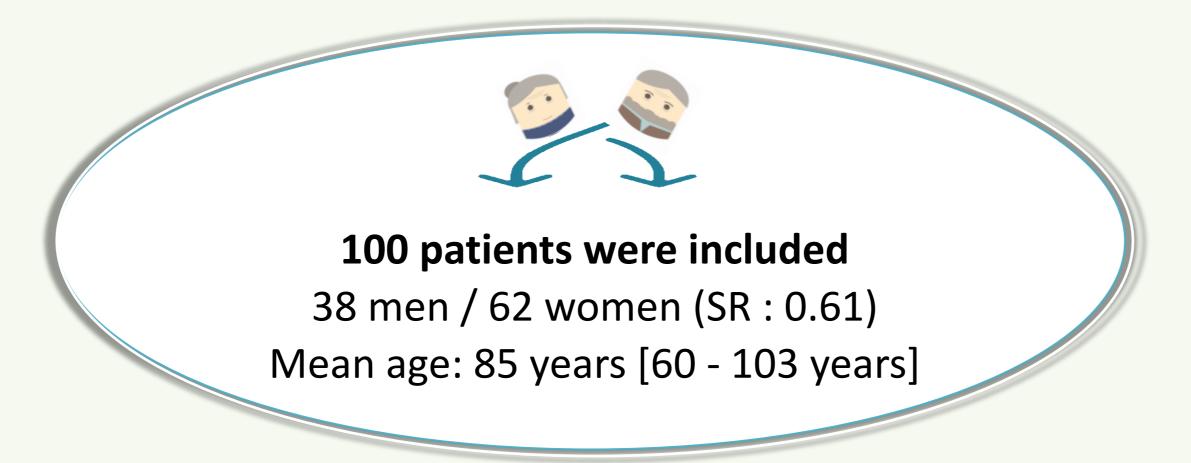
- In geriatrics, drugs are frequently crushed or opened to facilitate their administration.
- However, these operations can lead to medication errors.

Purpose of the study: evaluate medication crushing and opening practices in a residence for the elderly in order to identify corrective actions likely to improve such practice

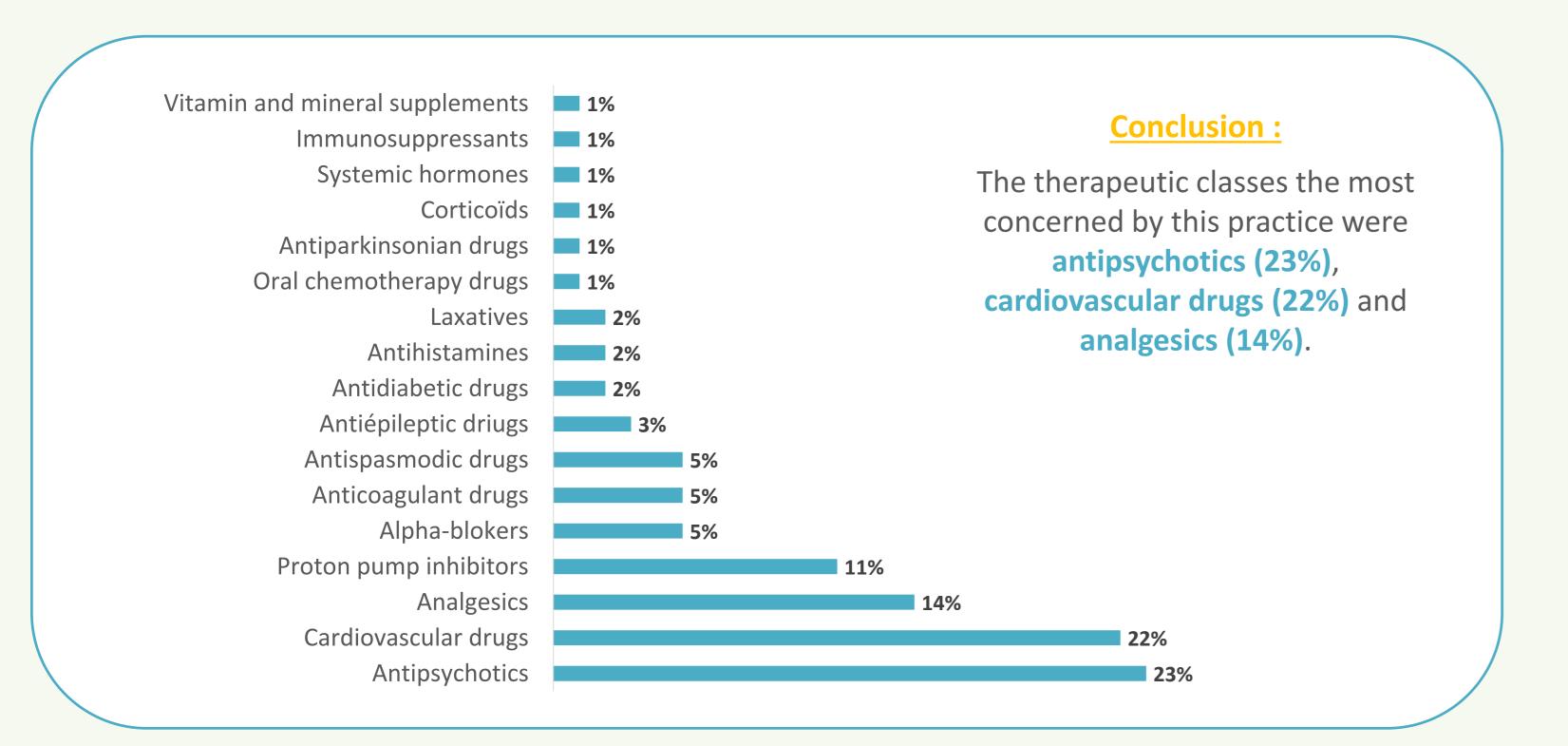
Material & Method

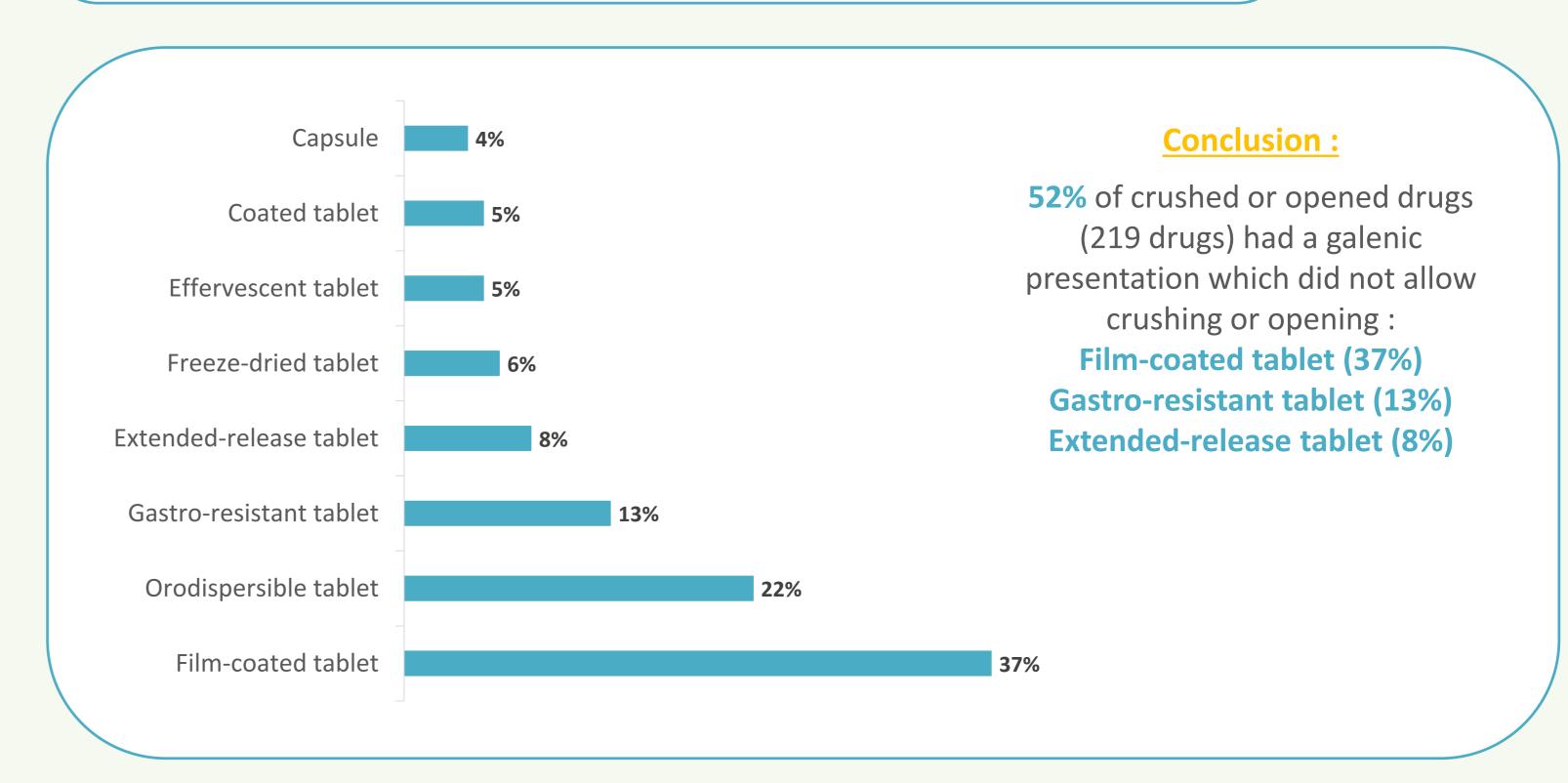
- A prospective study was performed in a French University Hospital residence comprising a nursing home and a long-term care unit (266 patients).
 - Patient for whom treatment was crushed or opened were identified,
 - Prescriptions and causes for crushing and opening drugs were analysed,
 - Drugs and respective administration techniques were studied,
 - Economic impact was not considered.

Results



- Patients took on average 7 drugs [2-13 drugs].
- Medication crushing or opening concerned 38% of patients.
- On average, 4 drugs were crushed or opened per resident [0-11 drugs].
- A medical prescription for crushing or opening drugs
 - was found in 49% of cases.
- The main reasons for crushing or opening drugs were swallowing disorders or psycho-behavioural distress.
- In 51% of cases, the decision to crush or open the drugs was made by nurses without physician or pharmacist supervision.
- No nursing traceability of the act was found.





- An alternative galenic presentation was available in 33% of cases but was not prescribed.
- Although medication crushing or opening was possible, a more suitable galenic presentation was available in our hospital in 80% of cases.

Conclusions

- In our residence, medication crushing and opening practices are more important than those found in the literature. However, the rest of our results are in accordance with the literature.
- Corrective actions were developed in order to optimise elderly safety: a list of crushable drugs was given to geriatricians and nurses, info signs about crushing or opening medication were displayed in each care units and nurses were sensitized on the traceability.
- To optimize patient care, a review of prescriptions by a geriatrician and a pharmacist will be established to adapt prescriptions to the patients' clinical situations and capacities.