

Misuse assesment and risks of NSAIDs prescriptions for elderly patients in surgical units



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Background

- Frequently used in Orthopedic Surgery Departments (OSD)
- Indicated in perioperative period for their analgesics properties
- > To spare usine opioïde
- > Multiple prescribers

pharmacy development in Orthopedic Surgery Clinical

Non-steroidal antiinflammatory drugs (NSAIDs)



High risk of adverse effects in Elderly patients

Gastrointestinal

Renal



diuretics (16%)

departments highlighted **dysfunctions** in prescribing **NSAIDs** for patients over 75 years old who are at high risk of adverse effects



Aim and Objectives

- > To assess the risks associated with prescribing NSAIDs for patients over 75 years old in Orthopedic Surgery Department
- > To suggest adjustments to secure the prescriptions

Methods

- Retrospective and observational study
- Between january and october 2021
- > On all NSAIDs prescriptions for patients over 75 years old in OSD

> Treatments which may cause renal failure in elderly patients have been recovered

- Angiotensin-converting enzyme inhibitors (ACE inhibitors)
- Angiotensin receptor blockers (ARB)

584 patients received NSAIDs in the Orthopedic Surgery Department

Results

80 patients were over 75 years old (13,7%)





Evolution of renal clearance before and after taking NSAIDs in patients with acute renal failure



Conclusion

The inappropriate prescriptions of NSAIDs observed in elderly patient and their association to other potentially nephrotoxic drugs, increases the risk of renal adverse effects. The actions implemented initially were setting analgesic protocols adapted to the patient's age according to the latest recommendations. Secondly, both pharmaceutical and medical prescriptions are being monitored daily. Since surgery involves several prescribers (anesthesiologists, surgeons, doctors), harmonizing prescription practices is currently being considered.

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