

# Assessment of oral anticoagulant prescriptions and pharmaceutical analysis at the hospital by regional audit

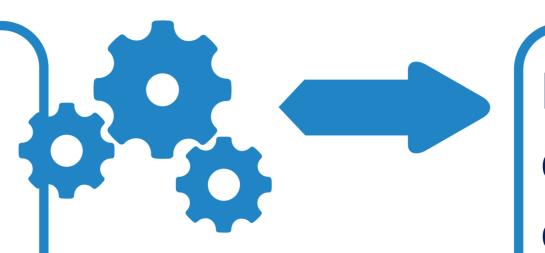


D. Fuss<sup>1</sup>, C. Monchablon<sup>1</sup>, A. Breteau<sup>1</sup>, M. Lefebvre-Caussin<sup>1</sup>, R. Varin<sup>2</sup>, J. Doucet<sup>1</sup>, M. Daouphars<sup>3</sup>, D. Monzat<sup>1</sup>
<sup>1</sup>OMEDIT Haute-Normandie - CHU Rouen, <sup>2</sup>Pharmacie - CHU de Rouen, <sup>3</sup>CRLCC Henri Becquerel , Rouen cedex, France

Poster n° HP-PC081

## **Background and Objective**

Oral anticoagulants (OA) are the most common drug class associated with preventable adverse drug events in hospitalized patients that require optimizing the pharmaceutical analysis (PA) process.



In this context, a regional audit was conducted on PA of prescriptions oral of OA.

The aim of this study is to provide an overview of the treatment by OA in the hospital by evaluating the consistency of the OA prescriptions compared with national and European guidelines and evaluate the pharmaceutical interventions.

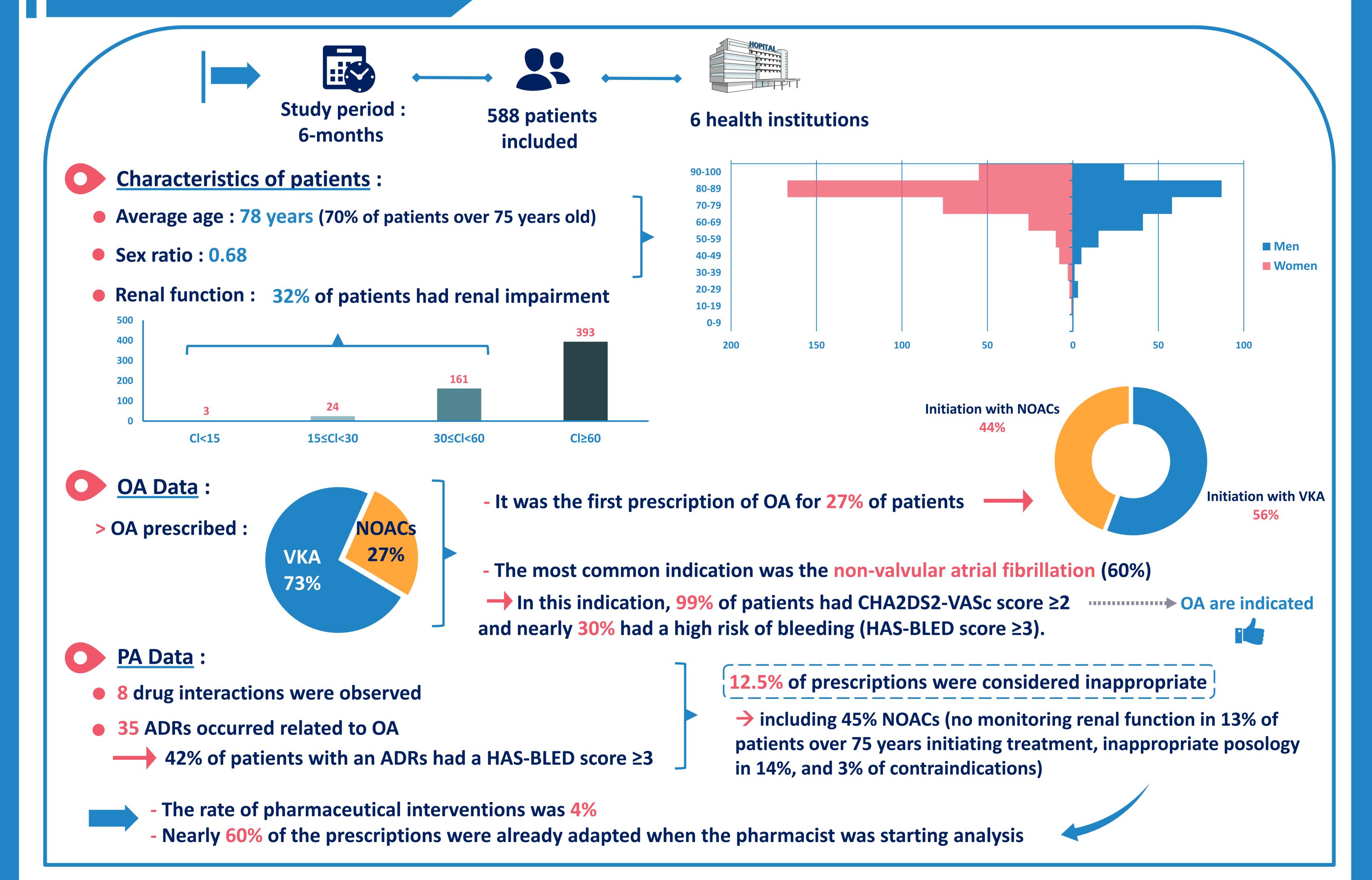
### Design

This study is based on the collection of *PA data* (demographics, indication, posology, drug interactions, monitoring) as well as the collection of *pharmaceutical interventions* and discordance between *guidelines recommendations* and *clinical practice*.

The <u>inclusion criteria</u> were any patient treated with OA (vitamin K antagonists (VKA), non-vitamin K antagonist oral anticoagulants (NOACs)). Included patients were followed minimum *2 months*.

The <u>primary outcomes</u> include description of baseline *characteristics of patients*, the number of *inappropriate prescriptions* compared to the different clinical recommendations, the number of *pharmaceutical interventions*, the number of *adverse drug reactions* (ADRs) related to OA use and the assessment of *patient monitoring*.

#### Results



#### Conclusion

Prescribers are sensitized of the risks on the OA prescriptions, which explained the delay upon PA and low rate of pharmaceutical interventions. However, the high number of inappropriate prescriptions shows the necessity to improve the PA process on these drugs, particularly by actions on therapy initiation and patient monitoring, especially for NOACs. For this class, the impossibility of assess the level of anticoagulation by laboratory monitoring requires appropriate initiation and monitoring, especially an assessment of baseline renal function.