

BACKGROUND

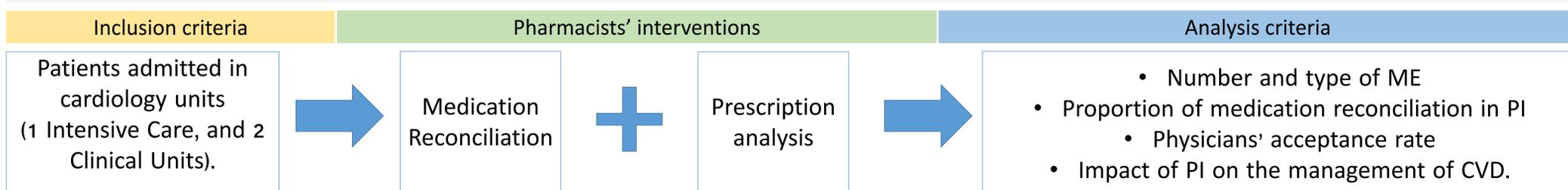
Previous studies have reported that clinical pharmacists improve medication safety. A clinical pharmacy team (1 senior pharmacist, 1 junior pharmacist, 7 student pharmacists) was deployed in cardiology units (79 beds) to develop medication reconciliation, identify medication errors (ME) and optimize patients' pharmacotherapy.

OBJECTIVES

Describe and analyse pharmacists' interventions (PI) in cardiology units during 9 months and evaluate their impact on the management of chronic cardiovascular diseases (CVD).

METHODS

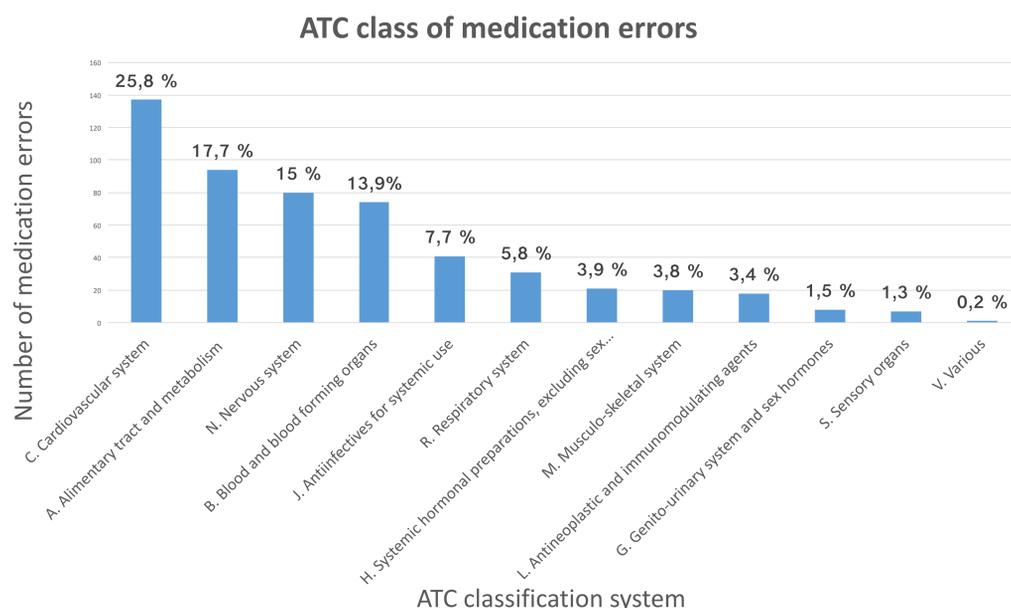
Prospective, non-randomized and observational study performed between December 2015 and August 2016.



RESULTS

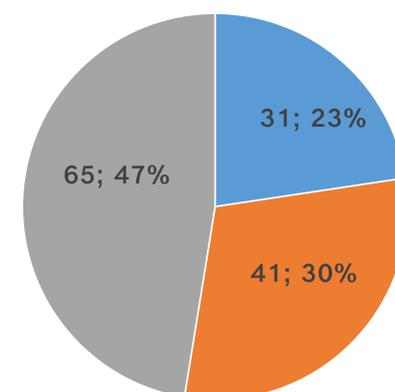
- A total of 532 interventions were performed for 339 patients.
- The mean (median) age was 70,4 (72).
- 258 (48,5%) of pharmacists' interventions were identified by medication reconciliation.
- 98,2% of interventions were accepted.

Type of medication errors	Number (%)
Untreated indication	178 (33,5%)
Supratherapeutic dosage	107 (20,1%)
Subtherapeutic dosage	96 (18,0%)
Inappropriate form of administration	52 (9,8 %)
Drug without indication	26 (4,9%)
Nonconformity to guidelines/contraindication	22 (4,1%)
Pharmaceutical advice for medical questions	16 (3%)
Drug interaction	15 (2,9%)
Drug monitoring	9 (1,7%)
Adverse drug reaction	5(0,9%)
Pharmaceutical advice for nurse questions	4 (0,7%)
Failure to receive drug	2(0,4%)



Impact of pharmacists' interventions on cardiovascular diseases

- Acute coronary syndrome treatment optimization
- Heart failure treatment optimization
- Other



Discussions and conclusions

These results highlight a positive impact of pharmacy team on reduction of ME. Prescriptions analysis as well as medication reconciliation are two key points to avoid medication discrepancies.

Pharmacists became a key member in cardiology team. They are involved in therapeutic strategy, indeed most of interventions concern cardiovascular drugs. Moreover we can see that half of these interventions involved treatment of heart failure and acute coronary syndrome, so we can observe that pharmacists can improve the management of these chronic diseases.

Acknowledgements

We would like to thank all the cardiology team for the committed work that has been done to improve medication safety.