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Evaluation of anticoagulants misuse in patients admitted for ischaemic stroke in a neurology unit

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Introduction

We presume that some ischaemic strokes (IS) can be caused by a misuse (prescription errors or lack of compliance) of oral anticoagulant medications (Vitamin K Antagonists (VKA) or Direct Oral Anticoagulant (DOA)).

Objective

The purpose of this study is to define the proportion of iatrogenic IS for patients admitted in a neurology unit.

Material and Methods

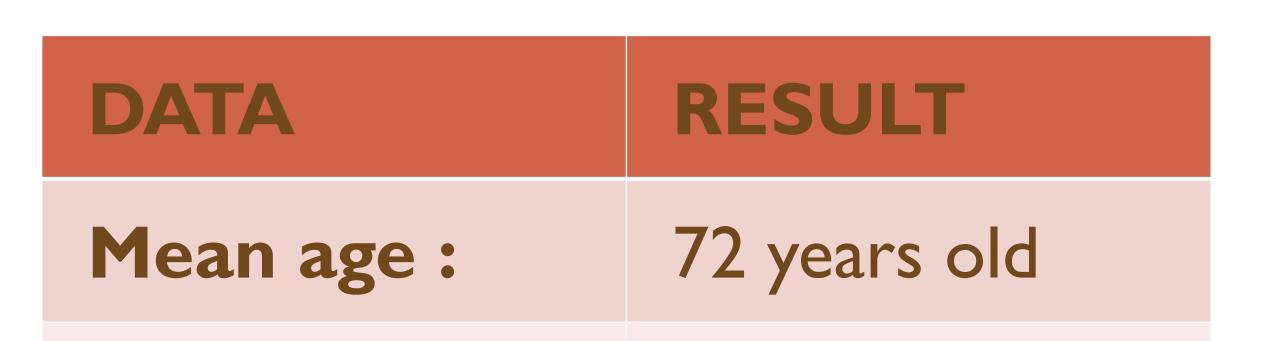
A prospective, single-centre, descriptive study was conducted during 5 months. 75 patients were included

Collected datas :

- Age, Weight, Sex, Cause of the IS, creatinine levels
- CHADS VASC and HAS BLED scores
- INR

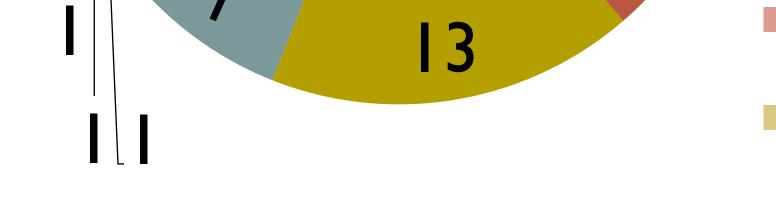
- Anticoagulant before treatments hospitalization.
- •The 4-item morisky medication adherence scale (MMAS-4) was used to assess compliance.

Results



Mean compliance score was 2,5/4 for 46 (61%) of patients (29 patients were not evaluated). 12 patients (16%) were pretreated with anticoagulants before their hospitalization

Sex:	56% Male	Complianco se	coro dotailad	for the 12 patient	<u>s under VKA and D</u>
CHADS VASC :	3,4/9		Patient number	INR in the therapeutic	MMAS-4
HAS BLED :	2,9/9	Fluindian	Dationt 17	range. Yes/No	Miccing data
		Fluindion	Patient 17	No	Missing data
			Patient 25	No	Missing data
Causes of Ischaemic Stroke among the			Patient 43	No	Missing data
<u>75 patients</u>			Patient 44	Yes	Missing data
	Atrial Fibrillation		Patient 45	No	2
	Atheromatous Stenosis	Warfarin	Patient 75	Yes	Missing data
	 Deep Vein Thrombosis Intra Cardiac Thrombus 		Patient number	Well prescribed* DOA ? Yes/No	MMAS-4
	Antiphospholipid	Apixaban	Patient 37	Yes	Missing data
	Syndrom Cerebral Amyloid		Patient 64	Yes	2
	Angiopathy Pulmonary Embolism	Rivaroxaban	Patient 46	Yes	Missing data
			Patient 51	Yes	1
	Unknown		Patient 52	Yes	2
			Patient 66	Yes	0



* Meaning in accordance with patients' weight, age and creatinine levels (cf summary of product characteristics.

Discussion

Compliance scores were low for the patients under DOA and a majority of INR before hospitalization was not within the therapeutic range for patients under VKA. The risk of developing an IS was thus increased for these patients before hospitalization.

Conclusion



Implementing Educational Programs, involving community pharmacists and stressing the importance of INR monitoring seem to be potential axis of improvement to promote patients' compliance before hospitalization.

References and/or Acknowledgments : https://www.ncbi.nlm.nih.gov/pubmed/17186395