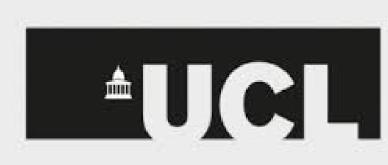
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A review of bleeding events associated with anticoagulants with a primary focus on transitions of care Devi Shantini Rata Mohan¹ Sotiris Antoniou² Jagjot Chahal² Li Wei¹ 1. UCL School of Pharmacy 2. Barts Health NHS Trust



NHS **Barts Health**

Anticoagulants are high risk medications which can cause clinically significant harm when used inappropriately.¹

INTRODUCTION

- Transition of care (ToC) is the continuity of care during movement from one healthcare setting to another.²
- World Health Organization's goal is to assess nature of avoidable harm and to strengthen monitoring systems with a focus on ToC to protect patients from harm.²

AIM

Aim - To review major bleeding events due to anticoagulants with a primary focus on transitions of care

Objectives

To describe the burden of major haemorrhagic events

Table 1: Bleeding burden by anticoagulant

	•	•			
		Warfarin (n= 180)	Rivaroxaban (n=20)	Apixaban (n=12)	Others (n=8)
Intracranial bleeds		49%	30%	42%	50%
Gastrointestinal bleeds		13%	40%	33%	25%
Other bleeds		38%	30%	25%	25%
40.7% 40% 35.3%	, D	 ≤ 30 days cohort (n=34) > 30 days cohort (n=81) 			
35%				Other findings	
25%	2 18.5%	24.7%	20.0%	20.0% 20.0% 14.5% of all patients died after major blee	
15%	14.7% 14.8%	12.0%	8.0%	> 29.6% of pa	tionts who

RESULTS

To identify omitted vital information about anticoagulants on ToC documents and characteristics of patients who are at risk during ToC

METHOD

- Records of patients who presented with a major Ο bleeding event at Royal London Hospital from 2013 – 2016 were traced to determine if they had any prior contact at Barts Health NHS Trust (BH) and information pertaining anticoagulants that are available on their ToC documents were recorded.
- For patients who were admitted to BH within 30 Ο days after their last review at BH (\leq 30 days cohort), the ToC document and case notes were further analyzed to identify additional bleeding risk factors that were present.

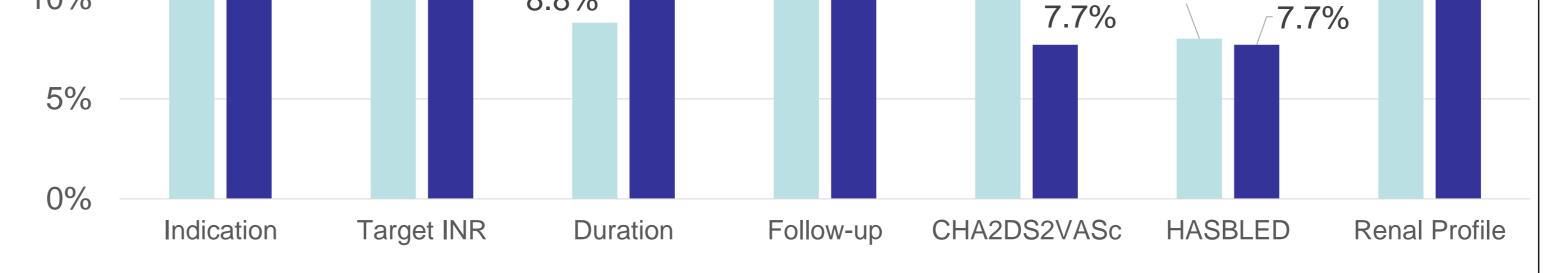
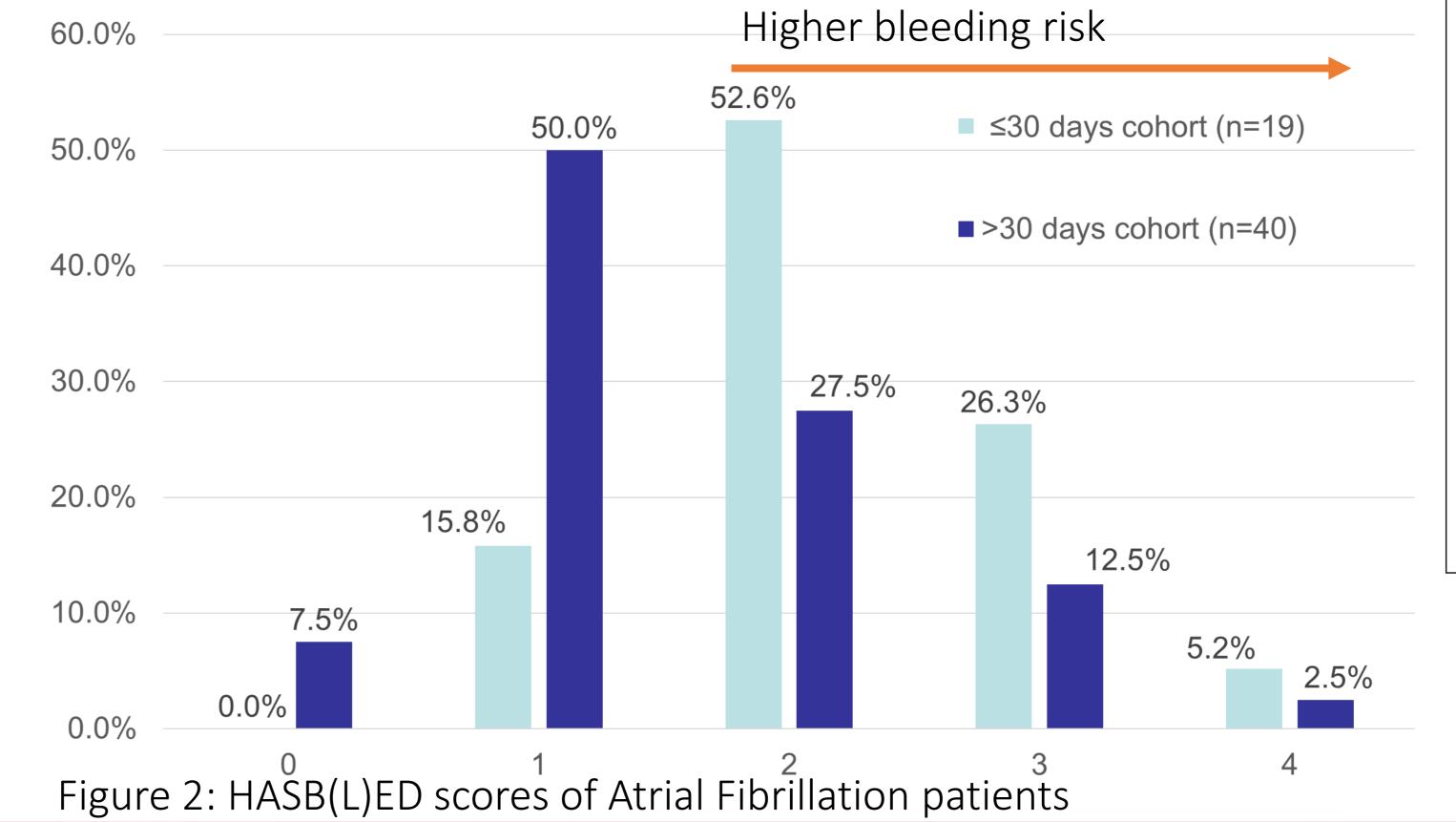


Figure 1 : Availability of anticoagulant information on ToC documents



29.6% of patients who followed up at BH were readmitted within 30 days from last contact at BH

➢ 68% of patients had more than 4 bleeding risk factors in ≤30 days cohort (co-morbidities, concomitant medication, social history, previous bleeds)

REFERENCES

1.Green L, Tan J, Morris J, Alikhan R, Curry N, Everington et al. A three-year prospective study of the presentation and clinical outcomes of major bleeding episodes associated with oral anticoagulant use in the UK (ORANGE study). Haematologica. 2018;103(4):738-745. 2. World Health Organization (2017). *Medication Without* Harm - Global Patient Safety Challenge on Medication Safety. Geneva, pp 5-12

DISCUSSION & CONCLUSION

- Intracranial haemorrhage still remains to be the most debilitating complication from warfarin (similar to UK findings) but direct oral anticoagulants shared different bleeding profiles, possibly due to small sample size.¹
- More than 50% of ToC documents in \leq 30 days cohort had no information on anticoagulants. The most common cause of these incidents were due to human factors such as incomplete discharge letters.
- **Conclusion** : Availability of information provided on ToC documents is poor and is more apparent in those who were admitted within 30 days from their last contact at BH indicating that these information are vital to be present to minimize patient harm.

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