

DETERMINING PATIENT KNOWLEDGE OF DIRECT ORAL ANTICOAGULANTS: A QUESTIONNAIRE STUDY

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BACKGROUND

- There has been a significant increase in the number of patients prescribed Direct Oral Anticoagulants (DOACs) e.g. apixaban (Eliquis®), rivaroxaban (Xarelto®), dabigatran (Pradaxa®) and edoxaban (Lixiana®).
- Reduced need for monitoring compared to warfarin.
- Less frequent contact with healthcare professionals (HCPs) may contribute to poor patient knowledge.

AIM

• To determine patients' knowledge on DOACs in the hospital and community pharmacy setting.

References:

Metaxas C, Albert V, Stahl M, Hersberger KE, Arnet I. Development and validation of a questionnaire to self-assess patient knowledge of direct oral anticoagulants (KODOA-test). Drug Healthc Patient Saf. 2018 Jul 20;10:69–77. Other references available on request.

METHODS

Participants were recruited from:

- Cork University Hospital, Ireland
- Community pharmacies in Cork

Potential participants were identified by the pharmacist in that setting using the following criteria:

Table 1: Recruitment Criteria

Age	≥18 years
Length of DOAC use	DOAC use ≥3 months

The questionnaire consisted of:

- Participant demographics
- Questions from the KODOA (The Knowledge of Direct Oral Anticoagulants) questionnaire, translated into English language

Based on previous research, a target sample of 40 participants was set.

Descriptive statistics were performed.

RESULTS		
Questions	Participants who correctly	
	answered (X/Y,%)*	
What is the name of your "blood thinner"?	38/38 (100)	
How long do you need to take you "blood thinner for"?	39/39 (100)	
How many times a day do you have to take your "blood thinner"?	39/39 (100)	
What does your "blood thinner" protect you from?		
Correct	30/39 (76.9)	
Partially correct	7/39 (17.9)	
Incorrect	2/39 (5.1)	
If you cannot remember whether you have taken your "blood	27/40 (67.5)	
thinner" or not, what would you do?		
If you have forgotten to take your "blood thinner", what would you do?	20/39 (51.3)	
If you have taken twice as many "blood thinner" tablets/capsules	17/39 (43.6)	
today as you should have, what would you do?		
If 5 minutes ago you took your "blood thinner" but then you vomited,	31/34 (91.2)	
will your "blood thinner" work as normal?		
Which of the following is a possible side effect of your "blood	26/31 (83.9)	
thinner"?		
Which of the following Over The Counter (OTC) products, to treat	36/39 (92.3)	
pain and fever, is safest to take with your "blood thinner"?	10/10 (100)	
You would like to buy some OTC medicine, but you don't know	40/40 (100)	
whether this will interfere with your "blood thinner". Who do you		
think is the most suitable person to ask? In what situation should you inform a healthcare professional that	36/40 (90)	
you are taking a "blood thinner"?	30/40 (30)	
In what situation do you think you should go to the A+E (Accident	30/39 (76.9)	
and Emergency Department)?		
How often should you visit your doctor for a check-up because of your "blood thinner"?	33/40 (82.5)	
What should you always have on you if you are taking a "blood thinner"?	31/39 (79.5)	

Table 2: Results of the KODOA questionnaire in a sample of English-speaking adults (n=40)

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CONCLUSION

Participants demonstrated good levels of knowledge of their DOAC therapy.

This study has identified areas of knowledge deficits in patients, such as:

- What to do if patients have forgotten to take a dose.
- What to do if patients have taken too much DOAC.
- This can help target patient counselling points for patients taking DOAC therapy.

Limitation of the questionnaire:

• Questions are presented in a multiple-choice format and it is possible that participants may have selected the correct answer due to chance.

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^{*} X= number of people who selected the correct answer option, Y=Number of people who answered the question, %= percentage of people who selected the correct answer option