

Appendix 1: Direct oral anticoagulant drug interactions

The table below provides some common direct oral anticoagulant (DOAC) drug interactions. It is not meant to be an exhaustive list. There are other clinically relevant interactions. In all cases clinicians should perform a drug interaction search using available online databases. Where this table states 'AVOID', interpret as 'avoid the interacting medication OR DOAC'.

Interacting medications	Direct acting oral anticoagulant (DOAC)	
	Dabigatran	Apixaban or Rivaroxaban (15mg or 20mg dosing)
Antiplatelet agents		
Aspirin	Increased risk of bleeding but often appropriate – seek advice	
Clopidogrel		
Ticagrelor		
AVOID – increased risk of bleeding (see CYP 3A4 and P-gp inhibitors)		
CYP450 3A4 Inducers		
Carbamazepine	AVOID - Risk of decreased efficacy (see P-gp inducers)	AVOID - Risk of decreased efficacy
Clobazam	Continue	
Dexamethasone	AVOID - Risk of decreased efficacy (see P-gp inducers)	
Oxcarbazepine	Consider alternative	
Phenobarbitone	AVOID - Risk of decreased efficacy (see P-gp inducers)	AVOID - Risk of decreased efficacy
Phenytoin		
Primidone		
Rifampicin		
St Johns Wort		
CYP450 3A4 Inhibitors (strong)		
Clarithromycin	AVOID – increased risk of bleeding (see P-gp inhibitors)	AVOID – increased risk of bleeding
Itraconazole		
Ketoconazole		
Posaconazole		
Ritonavir		
Ticagrelor		
Voriconazole		
CYP450 3A4 Inhibitors (moderate)		
Aprepitant	Continue	Consider alternative
Diltiazem		
Erythromycin		
Fluconazole		
Fluvoxamine		
Grapefruit juice		
Verapamil		
Non-steroidal anti-inflammatory agents (NSAIDs)		
All NSAIDs	Increased risk of bleeding - seek advice	
P-glycoprotein (P-gp) inducers		

Continued overleaf

Interacting medications	Direct acting oral anticoagulant (DOAC)	
	Dabigatran	Apixaban or Rivaroxaban (15mg or 20mg dosing)
Carbamazepine	AVOID - Risk of decreased efficacy	
Dexamethasone		
Phenobarbitone		
Phenytoin		
Primidone		
Rifampicin		
St Johns Wort		
P-glycoprotein (P-gp) inhibitors		
Azithromycin	Consider alternative	Consider alternative
Clarithromycin	AVOID – increased risk of bleeding	
Cyclosporin		
Erythromycin		
Grapefruit juice		
Itraconazole		
Ketoconazole		
Posaconazole		
Ritonavir		
Tacrolimus		
Ticagrelor		
verapamil	Seek advice	
Proton Pump inhibitors (PPIs)		
All PPIs	Use dabigatran 150mg twice daily	Continue

Source: (MIMS Australia Pty Ltd, 2022); (UW Medicine Pharmacy Services, 2022)

DOAC = direct oral anticoagulant; NSAID = non-steroidal anti-inflammatory; P-gp = P-glycoprotein; PPI = proton pump inhibitor

References

MIMS Australia Pty Ltd. (2022). Product information. Retrieved from MIMS Online: <https://www.mimsonline.com.au/Search/Search.aspx>

UW Medicine Pharmacy Services. (2022). Anticoagulation Services. Retrieved from University of Washington: <https://depts.washington.edu/anticoag/home/>

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