

The use of Direct Oral Anticoagulants (DOACs) for treatment of DVT or PE, or prevention against recurrent DVT or PE (in adults)

There are four DOACs available for the treatment of DVT or PE, and prevention of recurrent DVT or PE, these are:

- Rivaroxaban (tablets, NOT capsules, due to cost)
- Apixaban
- Edoxaban
- Dabigatran etexilate

Clinical trials have shown that DOACs are all non-inferior to vitamin K antagonists such as Warfarin for treatment of DVT and PE, as well as evidence for their long-term use for protection against recurrent DVT or PE.

There are no clinical trials comparing the DOACs, so there is no evidence that one DOAC is superior to any other with respect to efficacy or side effects.

The updated NICE guideline published in March 2020 (NG158) recommends that patients with a suspected DVT or PE should receive interim anticoagulation that can be continued if DVT or PE is subsequently confirmed. This means that it is now acceptable to use either **Apixaban** or **Rivaroxaban** as an alternative to Low Molecular Weight Heparin (LMWH) injections (e.g. Enoxaparin) for suspected DVT or PE whilst investigations are being carried out. Although it is imperative that baseline blood tests including FBC, UE, LFT and clotting screen are taken, the results do not need to be known prior to starting anticoagulation, as long as they are reviewed within 24 hours.

Secondary care will:

- Ensure that patient continues an appropriate anticoagulant if subsequently confirmed to have a DVT or PE.
- Guide the planned duration of anticoagulation (include in the discharge letter).

A switch between anticoagulants would be required in certain situations, such as:

- Intolerance of vitamin K antagonists or one of the DOACs,
- Poor INR control or time in therapeutic range with vitamin K antagonists,
- Change in other medication meaning that current anticoagulant no longer suitable,
- Patient choice.

This information sheet is intended to assist primary care clinicians in initiating interim anticoagulation for suspected DVT or PE, or when switching between anticoagulants.

Full guidance about how to switch between parenteral anticoagulants or Warfarin and DOACs can be found on the summary of product characteristics (SPC) of the DOAC being initiated. For DOAC to DOAC switches, initiate the new medicine when the next dose is due. This is all summarised in Appendix 1 on page 9.

When starting or switching to a DOAC it is important to consider certain factors such as:

- **body weight** (initial clinical trials only included patients between 50kg and 120kg), there is increasing evidence to support the use of DOACs in patients weighing above 120kg, and recent ISTH guidance suggests that **Rivaroxaban** or **Apixaban** can be used for the management of DVT or PE in patients with obesity irrespective of weight (although this guidance does not cover the use of these agents in the context of Atrial Fibrillation); this ISTH guidance has been adopted locally by the NUH Anticoagulation Service for patients coming through the DVT pathway.
- renal function (see below prescribing information),
- interacting medications (see below prescribing information),
- the differences between dosing regimens (e.g. once daily or twice daily, whether taken with food or not; see below prescribing information).

 Reversibility may be an important consideration in certain cases (e.g. high risk of bleeding or patient choice). There is a specific reversal agent available for:
- Warfarin,
- Dabigatran etexilate,
- Apixaban although only approved for use in the context of major bleeding related to gastrointestinal tract,
- Rivaroxaban although only approved for use in the context of major bleeding related to gastrointestinal tract.

Although the risk of bleeding is lower than Warfarin, there is no specific reversal agent yet available for **Edoxaban**, although there are strategies available to manage patients in the context of major bleeding (which would also be adopted in patients on **Apixaban** or **Rivaroxaban** in the context of major bleeding not related to the gastrointestinal tract).

With respect to anticoagulation used long term as prevention against recurrent DVT or PE, the updated NICE guidance published in March 2020 (NG158) recommends that patients are offered continued treatment with the anticoagulant they started when DVT or PE was confirmed or consider switching to **Apixaban** if the current anticoagulant isn't well tolerated. This assessment of choice of anticoagulant for those patients continuing long term anticoagulation will usually be made in secondary care as part of a follow up appointment.

When switching from Warfarin onto a DOAC in a patient where the plan for long term anticoagulation was made historically, the above considerations (i.e. body weight, renal function, interacting medications and the differences between dosing regimens) apply, and there are scenarios where specific DOACs may be preferred to **Apixaban**:

- Once a day dosing regimen: Rivaroxaban 10mg od
- Concerns related to high thrombotic risk: Rivaroxaban 20mg od, Dabigatran etexilate or Edoxaban

If advice about which DOACs to consider for an individual patient is required, please liaise with Consultant Haematologist (e.g. via Advice and Guidance service). There are certain scenarios where anticoagulation for prevention against recurrent DVT or PE should not be changed without consultation with secondary care:

- Renal impairment (i.e. creatinine clearance below 30ml/min)
- Active cancer
- Established triple positive antiphospholipid syndrome
- Extremes of body weight (i.e. body weight less than 50kg, or greater than 150kg)

Prescribing information for Direct Oral Anticoagulants (DOACs) for DVT or PE



See product SPCs for full prescribing information

Nottinghamshire Area Prescribing Committee

Medicine	Riv	aroxaban	Apixaban		Dabigatran etexilate	Edoxaban	
Licensed indication	Treatment of deep vein thrombosis (DVT) and pulmonary embolism (PE), and prevention of recurrent DVT and PE in adults. Not recommended in PE patients who are haemodynamically unstable or may receive thrombolysis.						
Standard Dosing	Day 1-21	, , , , , , , , , , , , , , , , , , , ,		After at least 5 days of parenteral anticoagulation:			
for DVT / PE	Day 22 + After 6 months	20 mg OD 10 mg OD	Day 8+ After 6 months	5mg BD 2.5mg BD	150mg BD	60mg OD	
	review and if treatment still	or 20 mg OD if risk of recurrent DVT/PE is	review and if treatment still	NB: 5mg BD is	Reduced to 110mg BD if: ->80yrs	Reduced to 30mg OD if: -CrCl 15-50ml/min	
	required	high (See <u>SPC</u>)	required	not a licenced long-term dose	-taking verapamil -increased risk of bleeding	-low body weight (≤60kg) -concomitant use of potent P-gp inhibitors	
				for DVT/PE	(See <u>SPC</u>)	(e.g. Dronedarone, Erythromycin, Ketoconazole, Ciclosporin) (See SPC)	
It is worth bearing in mind that Apixaban and Rivaroxaban drop to a lower dose after 6 months of treatment as the respective clinical trials highlighted a reduction in bleeding risk with this strategy (although Rivaroxaban has the option to remain on the higher dose for those deemed to be at high risk of recurrence), whereas Dabigatran etexilate and Edoxaban have one dose throughout the duration of treatment.							
Presentation					15, 30 and 60mg film coated tablets		
	NB: 75mg capsules are not licensed for DVT/PE.						
Administration	The tablet is taken with food				Take with or without food. Swallow whole with a glass of water, to facilitate delivery to the stomach	Take with or without food. Swallow whole with a glass of water, to facilitate delivery to the stomach	
Use in Renal	DOACs can be used in patients with renal impairment in line with the SPC of the specific agent (as below).						
Impairment	 Patients who develop acute renal failure should discontinue the DOAC and seek specialist advice Creatinine clearance must be calculated (see here for calculator), eGFR is NOT considered a suitable alternative. 						
CrCL 30-50ml/min	Limited clinical data: maintenance dose may be reduced to 15 mg OD based on bleeding		No dosage adjustment		Consider 110mg BD in moderate renal impairment	CrCl 15-50ml/min: 30mg OD	
CrCL 15-30ml/min	risk and risk of recurrent VTE		Use with caution		CrCl < 20ml/min; Controladicated		
CrCL <15ml/min	Contraindicated		Contraindicated		CrCl < 30ml/min: Contraindicated	Contraindicated	

Medicine	Rivaroxaban	Apixaban	Dabigatran etexilate	Edoxaban
Use in Hepatic Impairment	Contraindicated in patients with hepatic disease associated with coagulopathy and clinically relevant bleeding risk including cirrhotic patients with Child Pugh B and C	Contraindicated in patients with hepatic disease associated with coagulopathy and clinically relevant bleeding risk. Not recommended in patients with severe hepatic impairment. Caution in patients with mild or moderate hepatic impairment (Child Pugh A or B), but no dose adjustment is required. Caution in patients with elevated liver enzymes (ALT/AST >2 x ULN) or total bilirubin ≥1.5 x ULN as these patients were excluded in clinical trials.	Contraindicated in hepatic impairment or liver disease expected to have any impact on survival. Not recommended in mild-moderate hepatic impairment with liver enzymes >2 ULN.	Contraindicated in patients with hepatic disease associated with coagulopathy and clinically relevant bleeding risk. Not recommended in patients with severe hepatic impairment. Use with caution in patients with mild-moderate hepatic impairment with liver enzymes >2 ULN or total bilirubin >1.5 ULN.
Suitability for patients with swallowing difficulties/ enteral tubes	May be given via gastric tube or crushed and mixed with water or apple puree for patients with swallowing difficulties (licensed route of admin)	Tablets may be crushed and dispersed in dextrose 5% (unlicensed, info from personal communication with manufacturer)	Capsules should not be opened- increased risk of bleeding (oral bioavailability may be increased by 75% when the pellets are removed from the capsule shell)	Tablets may be crushed and mixed with water/apple puree and immediately administered. Alternatively, tablets may be crushed and suspended in water and immediately delivered through a gastric tube followed by flushing with water.
Suitability for patients with compliance problems / multi-compartment compliance aids			anticoagulation more quickly compared to w It to objectively measure concordance in indi	
(MCAs)	May be put in MCAs (no special storage conditions required)	May be put in MCAs (no special storage conditions required)	Not suitable for use in MCAs (unstable out of original packaging)	May be put in MCAs (no special storage conditions required).

Contraindication	S	Hypersensitivity to drug or excitations	ipients				
		Active clinically significant bleeding					
		 Active clinically significant bleeding Risk factors for major bleeding e.g. current or recent gastrointestinal ulceration, presence of malignant neoplasms at high risk of bleeding, recent brain or spinal injury, recent brain, spinal or ophthalmic surgery, recent intracranial haemorrhage, known or suspected oesophageal varices, arteriovenous malformations, vascular aneurysms or major intraspinal or intracerebral vascular abnormalities, uncontrolled severe hypertension Hepatic disease associated with coagulopathy and clinically relevant bleeding risk Dabigatran is contraindicated and neither rivaroxaban, apixaban nor edoxaban are not recommended in patients with prosthetic heart valves Pregnancy or breast feeding 					
Drug interactions - refer to SPC for more information.		 Dabigatran and edoxaban are substrates for P-glycoprotein (P-gp) Apixaban and rivaroxaban are metabolised by cytochrome P450 enzyme CYP3A4 and are substrates for P-gp. The table below outlines main DOAC drug interactions (drugs in bold font recommend not be used with DOACs – except those marked with * can be used with edoxaban): N.B. This is not an exhaustive list and if in doubt check for interactions using BNF, SmPC or online tool. 					
Class	Medicine	Rivaroxaban	Apixaban	Dabigatran	Edoxaban		
Strong P-gp inhibitors (also CYP3A4 inhibitors)	*Ciclosporin *Dronedarone Itraconazole *Ketoconazole Posaconazole Tacrolimus Voriconazole Imatinib Crizotinib Vandetanib Sunitinib Abiraterone	Strong recommendation not to use.	Strong recommendation not to use.	Combination contraindicated.	Reduce dose to 30mg daily if on ciclosporin, dronedarone, erythromycin or ketoconazole. Recommend not use with others listed.		
Other strong P- gp inhibitors (also CYP3A4 inhibitors)	Amiodarone Clarithromycin Quinidine Verapamil	Caution.	Caution.	Caution. If on verapamil give 110mg twice daily.	Caution.		

HIV Protease	Ritonavir	Strong recommendation not	Strong recommendation not to	Concomitant use not	Not recommended to use.			
inhibitors (P-gp	Telaprevir	to use.	use.	recommended.				
inhibitors and	Lopinavir							
CYP3A4	Darunavir							
inhibitors)	Cobicistat							
Strong P-gp and	Carbamazepine		Combination	on should be avoided.				
CYP3A4	Phenobarbital							
inducers	Phenytoin							
	Primidone							
	Rifampicin							
	St John's Wort							
	Vinblastine							
	Doxorubicin							
	Enzalutamide							
Other	E.g. LMWH,	Combination contraindicated except when switching therapy or when UFH is given at doses necessary to maintain an open central venous or						
anticoagulants	warfarin, UFH,	arterial catheter.						
	fondaparinux							
Others	Aspirin	Caution. Combination not recommended. A careful risk-benefit assessment should be made prior to initiation if required.						
	Clopidogrel							
	NSAID's							
	Prasugrel	Combination not recommended.						
	Ticagrelor							
	SSRI's and	Caution. Monitor for signs of bleeding.						
	SNRI's							

Monitoring of DOACs

older than 75 years 28

Creatine Clearance

Baseline blood tests								
	U + Es	Full blood count	Coagulation screen	Liver function tests				
Patient group	(Creatinine clearance)							
All			✓	>				
The current national recommend	The current national recommendations, once DOAC treatment is started, are to review patients after 1 month, and at least 3 monthly thereafter. Follow up intervals may vary							
depending on the individual patient	's characteristics, comorbidities, and co	o-medications. ²⁷ Please see below for fre	equency on blood monitoring during	the first year and ongoing.				
U + Es Full blood count Coagulation screen Liver function								
Patient group	(Creatinine clearance)							
Creatine Clearance	Annually*	Annually*	X Inappropriate without correct	Annually				
> 60ml/min	Ariffually .	Annually ·	reagent	Annually				
If the person is frail or	C monthly		X Inappropriate without correct	6 monthly				

30-60ml/min**

Creatinine Clearance
15-30ml/min

3 monthly**

3 monthly**

3 monthly**

3 monthly***

3 monthly***

3 monthly***

3 monthly***

6 monthly

Minimum

6 monthly

reagent

X Inappropriate without correct

6 monthly

Minimum

- Clinical trials have demonstrated that the therapeutic anticoagulation effect of DOACs does not require routine monitoring and may be beneficial in patients on interacting medicines that do not want to take warfarin.
- Unlike warfarin, a prothrombin time may not be sensitive to their anticoagulant effect. Likewise, an INR will not demonstrate the level of anticoagulation.
- As DOACs are predominantly eliminated by the renal route, it is prudent to monitor the renal function of a patient taking a DOAC. The following regimen is broadly in line with NICE guidance on Chronic Kidney Disease and based on consensus clinician opinion. This may recommend more frequent monitoring than that advised in the manufacturer's summary of product characteristics (SPC).

^{*} In addition to adequate clinical surveillance, laboratory testing of haemoglobin/haematocrit could be of value to detect occult bleeding, as judged to be appropriate

^{**} NICE CKS and SPS recommend that if CrCl < 60 mL/min, the frequency of monitoring (in months) can be guided by the CrCl divided by 10. For example, every 3 months if CrCl is 30 mL/min.

^{***} PCCS and UKCPA recommend routine surveillance every 6 months in patients over 75 years of age and/or frail and routine surveillance 3 monthly in CrCl 15-30mls/min.

• <u>Creatinine clearance</u> must be used for calculating renal function using the Cockcroft and Gault equation (see below). eGFR is **not** a suitable alternative:

CrCl (ml/min) = (140 – age) x weight (kg) x 1.04 (female) or 1.23 (male)

serum creatinine (micromol/l)

Should the individual patient be deemed at a greater risk of developing renal dysfunction, more frequent monitoring may be warranted. The frequency of testing will need to be increased if there is rapid progression, or during intercurrent illness and perioperatively in all patients with CKD.

Criteria for review and discontinuation of DOACs

Event	Action		
Haemorrhage	Refer patient immediately to Emergency Department if serious bleeding occurs e.g. GI bleeding, epistaxis lasting more than 1 hr.		
Dyspepsia	Common with dabigatran. Consider a proton pump inhibitor. If persists, consider alternative anticoagulant.		
Unexplained acute fall in haemoglobin or blood pressure	Refer patient immediately to the Emergency Department for investigation.		
Trauma (especially to the head)	Consider referral to Emergency Department.		
Excessive bruising	Check FBC and U+Es. Consider discussion with Haematologist.		
Any acute illness that MAY affect renal function	Measure U+Es and calculate creatinine clearance. Reduce dose or withhold treatment if required.		
Significant reduction in renal function (and see below)	Reduce dose as appropriate according to the medicine's recommended dosing schedule in renal impairment (see above for CrCl calculation). If renal function continues to worsen consider alternative anticoagulant.		
Fall in <u>creatinine clearance</u> to <30ml/min with dabigatran or <15ml/min with rivaroxaban, apixaban or edoxaban	Stop DOAC, assess for bleeding and seek advice as to whether specific assays are indicated / alternative anticoagulant required.		

Appendix 1: Switching between anticoagulants

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Drug switch	To Apixaban	To Dabigatran	To Edoxaban	To Enoxaparin	To Rivaroxaban	To Warfarin
Fuero Animakan	V	Chan animahan and	Chara animahan and	Chan animahan and sime	Chair animakan and	Lood with workering as you looding
From Apixaban	X	Stop apixaban and	Stop apixaban and	Stop apixaban and give	Stop apixaban and	Load with warfarin as per loading
		commence dabigatran at	commence edoxaban at	enoxaparin at same time as	commence rivaroxaban at	guide, take INR prior to next dose
		same time as next	same time as next	next scheduled apixaban	same time as next	of apixaban, continue apixaban
		scheduled apixaban dose	scheduled apixaban dose	dose	scheduled apixaban dose	until INR in range
From	Stop dabigatran and	X	Stop dabigatran and	Stop dabigatran and	Stop dabigatran and	Load with warfarin as per loading
Dabigatran	commence apixaban at		commence edoxaban at	commence enoxaparin at	commence rivaroxaban at	guide, take INR prior to next dose
	same time as next		same time as next	same time as next	same time as next	of dabigatran, continue
	scheduled dabigatran dose		scheduled dabigatran	scheduled dabigatran dose	scheduled dabigatran	dabigatran until INR in range
			dose		dose	
From Edoxaban	Stop edoxaban and	Stop edoxaban and	Х	Stop edoxaban and	Stop edoxaban and	Load with warfarin as per loading
	commence apixaban at	commence dabigatran at		commence enoxaparin at	commence rivaroxaban at	guide, take INR prior to next dose
	same time as next	same time as next		same time as next	same time as next	of edoxaban, continue edoxaban
	scheduled edoxaban dose	scheduled dabigatran dose		scheduled edoxaban dose	scheduled edoxaban dose	at half of usual daily dose until
		_				INR in range.
From	Stop enoxaparin and	Stop enoxaparin and	Stop enoxaparin and	X	Stop enoxaparin and	Load with warfarin as per loading
Enoxaparin	commence apixaban at	commence dabigatran at	commence edoxaban at		commence rivaroxaban at	dose guide and continue
	same time as next	same time as next	same time as next		same time as next	enoxaparin until INR in range
	scheduled enoxaparin dose	scheduled enoxaparin dose	scheduled enoxaparin		scheduled enoxaparin	
	·		dose		dose	
From	Stop rivaroxaban and	Stop rivaroxaban and	Stop rivaroxaban and	Stop rivaroxaban and give	Х	Load with warfarin as per loading
Rivaroxaban	commence apixaban at	commence dabigatran at	commence edoxaban at	enoxaparin at same time as		guide, take INR prior to next dose
	same time as next	same time as next	same time as next	next scheduled rivaroxaban		of rivaroxaban, continue
	scheduled rivaroxaban dose	scheduled rivaroxaban dose	scheduled rivaroxaban	dose		rivaroxaban until INR in range
			dose			3
From Warfarin	Stop warfarin and start	Stop warfarin and start	Stop warfarin and start	Stop warfarin and	Stop warfarin and start	Х
	apixaban when INR<2	dabigatran when INR<2	edoxaban when INR<2.5	commence enoxaparin	rivaroxaban when INR<3	
	•			when INR<2 (or below	(AF) or <2.5 (DVT/PE)	
				usual range)		

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