

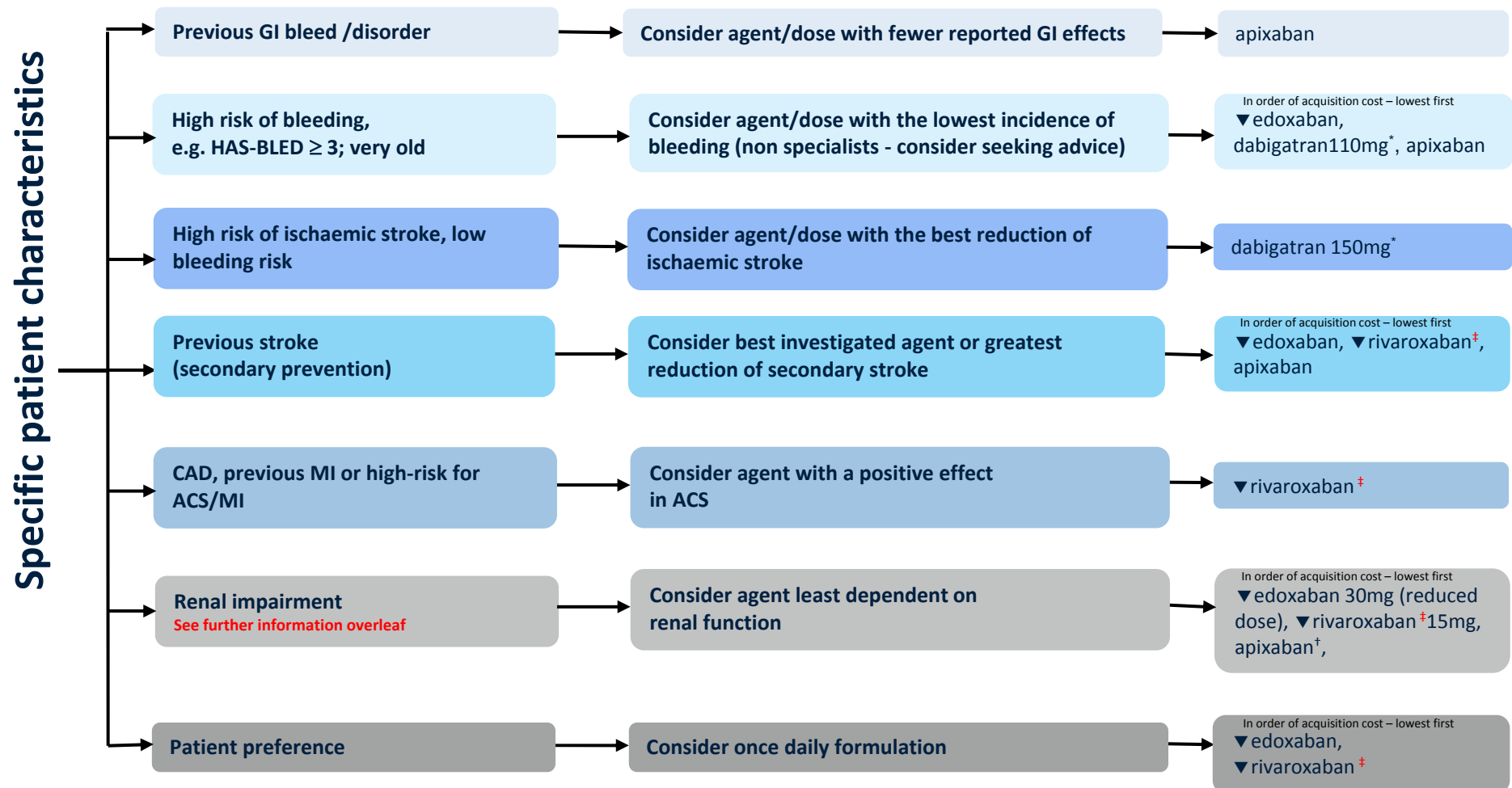
“Pointers” to DOAC treatment choices in non-valvular AF

No trials have directly compared different DOACs with each other, so it is difficult to determine which drug should be recommended as a first choice for most patients.

The guidance below does not override the individual responsibility of healthcare professionals to make decisions appropriate to the circumstances of the individual patient, in consultation with the patient and/or guardian or carer, and informed by the summaries of product characteristics of any drugs.

ABSOLUTE CRITERIA FOR WARFARIN:

eGFR <15ml/min/1.73m², body weight <50kg & >120kg or BMI >40kg/m², any poorly compliant patient, mechanical heart valve, patients with HIV



[†] take/administer **WITH FOOD**, [†] use endorsed by NICE CG182, * antidote available ; ACS=acute coronary syndrome; CAD=coronary artery disease; MI=myocardial infarction; DOAC= direct acting oral anticoagulant; ▼=drug is subject to additional monitoring. **Note: where more than one DOAC is an option, edoxaban is the preferred choice for ABUHB as it has a significantly lower acquisition cost due to an all Wales approved primary care rebate.**

FOR FULL PRESCRIBING INFORMATION CONSULT SmPC <https://www.medicines.org.uk/emc/>

DOAC indications, doses, notable interactions & Traffic Light

DOAC (Brand with links to SmPC)	Dabigatran (Pradaxa®)		Rivaroxaban ▼ (Xarelto®)			Apixaban (Eliquis®)		Edoxaban ▼ (Lixiana®)	
Indication [NICE TA]	AF [NICE TA 249]	DVT, PE [NICE TA 327]	AF [NICE TA 256]	DVT, PE [NICE TA 287]	ACS [NICE TA 335]	AF [NICE TA 275]	DVT, PE [NICE TA 341]	AF [NICE TA 355]	DVT, PE [NICE TA 354]
TRAFFIC LIGHT:	GREEN	AMBER	GREEN	AMBER	AMBER	GREEN	AMBER	GREEN	AMBER
DOSES:	<p>Age < 80 yrs - 150mg twice daily</p> <p>Following individual assessment of the individual risk of thromboembolism and bleeding consider 110mg twice daily if:</p> <ul style="list-style-type: none"> - bleeding risk is high - age 75-80 yrs - patients with gastroesophageal reflux, oesophagitis or gastritis - CrCL 30-50ml/min 	<p>Following parenteral anticoagulant for at least 5 days - 150mg twice daily</p> <p>Duration of treatment individualised after careful assessment of the treatment benefit against the risk of bleeding</p>	<p>20mg once daily</p> <p>15mg once daily when CrCL is 15-49 ml/min</p>	<p>15mg twice a day for 21/7 then 20mg daily (min. 3/12)</p> <p>10mg daily for extended prevention of recurrent DVT & PE (after ≥6 months therapy for DVT/PE)</p> <p>CrCL 15-49 ml/min - 15mg twice a day for 21/7 then 20mg daily (or 15mg daily if risk of bleeding > risk of recurrent DVT & PE)</p>	<p>2.5mg twice daily with:</p> <ul style="list-style-type: none"> - aspirin alone Or - aspirin plus clopidogrel or ticlopidine <p>Use with caution if >75yrs or if <60kg</p> <p>Review regularly. Extension of treatment beyond 12 months should be done on an individual basis</p>	<p>5mg twice daily</p> <p>CrCL 15-29ml/min - 2.5mg twice daily</p> <p>Patients with two or more of the following give 2.5mg twice daily:</p> <ul style="list-style-type: none"> - age ≥80 yrs - body weight ≤60kg - serum Cr ≥133 micromole/l <p>Or</p> <p>All patients with severe renal impairment (CrCL 15-29 ml/min)</p>	<p>Treatment dose DVT/PE - 10mg twice daily for the first 7 days followed by 5mg twice daily</p> <p>Prevention DVT/PE following 6/12 treatment dose – 2.5mg twice daily</p> <p>The duration of treatment should be individualised after careful assessment of the treatment benefit against the risk of bleeding</p>	<p>60mg once daily</p> <p>Patients with one or more of the following give 30mg daily:</p> <ul style="list-style-type: none"> - CrCL 15-50ml/min - body weight <60kg - concurrent P-gp inhibitors: ciclosporin, dronedarone or erythromycin 	<p>Following parenteral anticoagulant for at least 5 days - 60mg once daily</p> <p>Duration of treatment individualised after careful assessment of the treatment benefit against the risk of bleeding</p>
RENAL IMPAIRMENT	<p>Patients must have baseline renal function and recent weight before initiating NOAC. Renal function can decline while on treatment. Monitor annually with normal renal function (6 monthly if >75-80 yrs [especially if dabigatran or edoxaban], or frail), otherwise a good guide is the eGFR divided by 10 in months and a low threshold to check renal function during inter-current illness/dehydration. Patient's weight should be rechecked at each renal monitoring visit.</p> <p>Although eGFR and CrCL are NOT considered interchangeable (for most drugs and for most patients [>18 years] of average build and height, eGFR provides some guidance) if a patient's eGFR figure is close to the threshold for a dose reduction use the 'Cockcroft-Gault' formula to confirm CrCL (dabigatran & edoxaban SmPCs advise using Cockcroft-Gault for dosing/monitoring)</p> <p>Cockcroft-Gault formula: $CrCL = \frac{(140 - \text{Age in yrs}) \times \text{Weight}^* (\text{kg}) \times \text{Constant}}{72}$</p> <p style="text-align: center;">Serum creatinine (use: https://www.mdcalc.com/)</p> <p style="text-align: center;">Constant = 1.23 (Men); 1.04 (Women). Serum creatinine (in micromoles/litre)]</p> <p>*In the RE-LY, ROCKET-AF and ARISTOTLE trials for dabigatran, rivaroxaban and apixaban, total (actual) body weight (rather than Ideal or Adjusted Body Weight) was used for CrCL calculations in the Cockcroft-Gault equation.</p> <p>Use warfarin for those with a body weight <50kg & >120kg</p>								
Some notable DRUG INTERACTIONS: <u>CONSULT SmPC FOR FULL DETAILS</u>	<p>Avoid concomitant use of rifampicin, phenytoin, carbamazepine, phenobarbital or St. John's Wort - the anticoagulation effect of all 4 DOACs reduced</p> <p>Avoid concomitant use of ketoconazole, itraconazole, voriconazole, posaconazole, HIV protease inhibitors (e.g. ritonavir) - the anticoagulation effect of all 4 DOACs increased</p> <p>Close clinical surveillance (looking for signs of bleeding or anaemia) is recommended in patients treated concomitantly with NSAIDs (including acetylsalicylic acid), anti-platelets or SSRIs, and SNRIs, or any other drugs that can typically increase the risk of bleeding</p>								
	Concomitant treatment with ciclosporin and dronedarone contraindicated		Avoid concomitant use with dronedarone			Diltiazem, naproxen, amiodarone, verapamil or quinidine may increase apixaban plasma concentration		With concomitant use of ciclosporin, dronedarone or erythromycin use edoxaban 30mg once daily	
	SSRIs and SNRIs increased the risk of bleeding in RE-LY in all treatment groups								
	Use 110mg twice daily in those on concomitant verapamil								

Note: The Traffic Light designation of DOACs used for primary prevention of venous thromboembolic events (VTE) in adult patients who have undergone elective hip or knee replacement surgery is **RED** - The full supply should be made by the responsible surgeon and this use is **not covered by this guidance**.