Initiating a DOAC in Patients with Atrial Fibrillation / Flutter (AF)



Patients to consider

- Newly identified patients with AF or previous diagnosis not on an oral anticoagulant
- Patients on VKAs with consistently low TTR < 70%, it is recommended to switch to DOACs unless contraindicated

Determine risk of stroke using CHA2DS2-VASc score and bleeding risk

- Patients with a CHA2DS2-VASc = 1 in men or 2 in women should be <u>considered</u> for an oral anticoagulant (OAC)
- Patients with a CHA2DS2-VASc score >2 in men and >3 in women: It is recommended that these patients should be prescribed an OAC
- Assess bleeding risk using HAS-BLED score or ORBIT score and address modifiable risk factors for anticoagulation in all AF patients e.g. BP control, use of NSAIDs, alcohol intake, obesity
- Oral anticoagulation is recommended in all patients with AF and hypertrophic cardiomyopathy or cardiac amyloidosis, regardless of CHA2DS2-VASc score

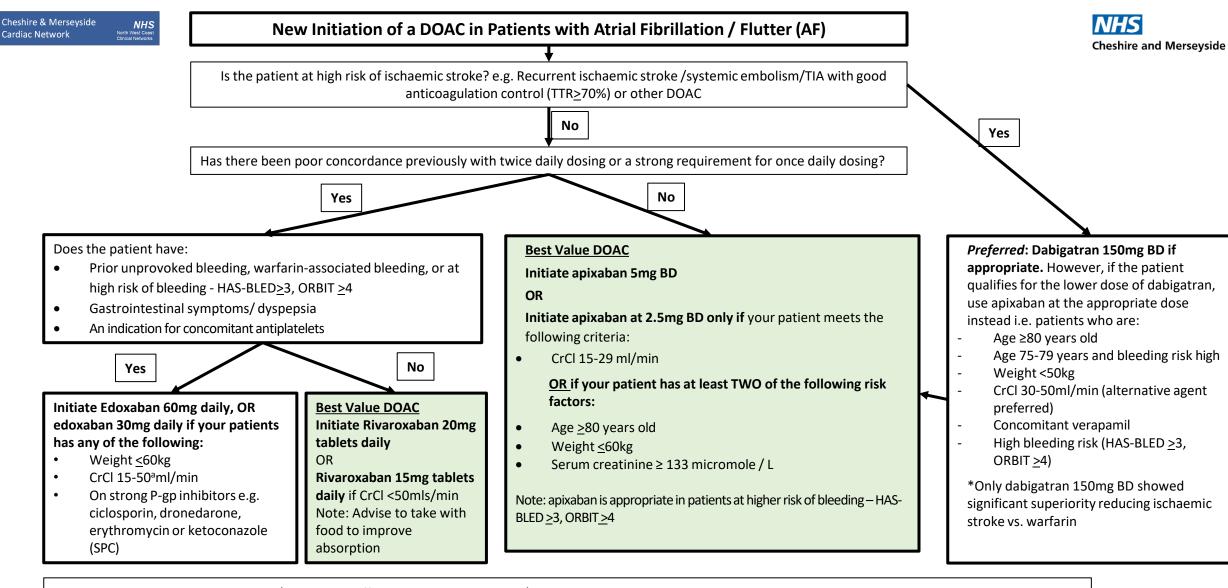
Assess if suitable for oral anticoagulation

- Baseline clotting screening, body weight, FBC, LFTs, serum creatinine, urea and electrolytes
- Consider contraindications, concomitant medicines (e.g. aspirin, SSRIs, NSAIDs, bisphosphonates), alcohol and drug abuse.

Does the patient have a contraindication to a DOAC?

- With a prosthetic mechanical valve (bioprosthetic/tissue valves are not contraindicated).
- With moderate to severe mitral stenosis
- Antiphospholipid antibody syndrome (APLS) with an indication for anticoagulation i.e. recent provoked VTE or as long-term treatment for unprovoked event.
- Who are pregnant, breastfeeding or planning a pregnancy
- With severe renal impairment Creatinine Clearance (CrCl) < 15ml/min (apixaban, edoxaban and rivaroxaban). If CrCl 15-30 mL/min use apixaban, edoxaban and rivaroxaban with caution. Do not prescribe dabigatran if CrCl<30 ml/min.
- Those requiring a higher INR than the standard INR range of 2.0 3.0, without appropriate discussion with an anticoagulant specialist or cardiologist
- With active malignancy/ chemotherapy (unless advised by a specialist), there is no data to suggest lack of DOAC efficacy in patients with active cancer but consider specialist advice before initiation, particularly for gastric and genitourinary malignancies. Check for interactions with chemotherapy and absorption relating to chemotherapy induced nausea and vomiting.
- Prescribed interacting drugs check SPCs for full list e.g. HIV antiretrovirals and hepatitis antivirals check with HIV drug interactions website at https://www.hiv-druginteractions.org/ and some antiepileptics phenytoin, carbamazepine, phenobarbitone or rifampicin are likely to reduce DOAC levels so should be discussed with an anticoagulation specialist
- If the patient has a lesion or condition considered a significant risk for major bleeding, including current or recent gastrointestinal ulceration, 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 seek specialist advice.
- There is little data on DOACs for patients with venous thrombosis at unusual sites (e.g. portal vein thrombosis) discuss with an anticoagulation specialist

If YES to any of the above, consider warfarin or LMWH if clinically appropriate and discuss with specialist if required If the answer if NO to all of the above, continue down the flowchart. See FAQ for further information if required.



- Patients requiring a blister pack /swallowing difficulties requiring crushing/NG tube cannot take dabigatran
- Patients with a BMI >40 kg m² or a weight >120kg can be considered for a DOAC
- Laboratory monitoring of DOACs is not routinely recommended and the availability of drug concentration level measurement is variable. Consider discussion with a Anticoagulation specialist before requesting drug concentration levels under special circumstances e.g., bleeding, extreme obesity
- Patients with AF ≥ 48 h or unknown duration undergoing elective electrical or pharmacologic cardioversion require DOAC for at least 3 weeks before cardioversion and for at least 4 weeks after successful cardioversion to sinus rhythm, regardless of the baseline risk of stroke

V1: Sept 2022, V2: December 2022. V3: February 2024 Version 4 February 2024