

Treatment recommendations do not cover all clinical scenarios and do not replace the need for clinical judgement

RECOMMENDATIONS FOR DIRECT ORAL ANTICOAGULANTS

Direct Oral Anticoagulant Agents (DOACs) – Apixaban, Dabigatran, Rivaroxaban (also known as NOACs)

- Prescribe with care in elderly (> 75 years), underweight (< 50 kg), overweight (> 150 kg) and patients with renal impairment (CrCl < 50 mL/min).
- Prior to DOAC initiation: Record: FBC, Coagulation status (INR, aPTT and PT), renal and liver function. Check for medicine interactions prior to prescribing.
- If the patient is on warfarin: Discontinue warfarin and start DOAC when INR is 2 or less
- Refer to local prescribing guidelines for further information.

Apixaban (Eliquis®)	Dabigatran (Pradaxa®) Idarucizumab is the reversal agent for dabigatran Refer to local hospital guidelines.	Rivaroxaban (Xarelto®) (Use with caution if CrCL 15-29 mL/min)
Treatment of DVT/PE: • CrCl >25 mL/min: 10 mg twice daily for first 7 days, then 5 mg twice daily thereafter		Treatment and Prevention of DVT/PE: • CrCl ≥ 15 mL/min: 15 mg twice daily for 3 weeks, then 20 mg once daily • Seek specialist advice if CrCl 15-29 mL/min
Non-Valvular Atrial Fibrillation (therapeutic dose): 5 mg twice daily Reduce to 2.5 mg twice daily IF at least 2 of the following risks: <input type="checkbox"/> SCr ≥ 133 micromol/L <input type="checkbox"/> Age ≥ 80 years, <input type="checkbox"/> Weight ≤ 60 kg	Non-Valvular Atrial Fibrillation (therapeutic dose): • CrCl ≥ 50 mL/min: 150 mg twice daily • CrCl 30-49 mL/min or ≥ 75years: 110 mg twice daily	Non-Valvular Atrial Fibrillation (therapeutic dose): • CrCl ≥ 50 mL/min: 20 mg once daily • CrCl 30-49 mL/min: 15 mg once daily • CrCl 15-29 mL/min: seek specialist advice
VTE prophylaxis: Total Hip or Knee Replacement • CrCl > 25 mL/min: 2.5 mg twice daily Hip: up to 38 days Knee: up to 14 days	VTE prophylaxis: Total Hip or Knee Replacement • CrCl > 50 mL/min: 220 mg (2 x 110 mg) once daily • CrCl 30-50 mL/min: 150 mg (2 x 75 mg) once daily Hip: up to 35 days Knee: up to 10 days	VTE prophylaxis: Total Hip or Knee Replacement • CrCl ≥ 15 mL/min: 10 mg once daily Hip: up to 35 days Knee: up to 14 days
		Prevention of cardiovascular events in chronic stable CAD/PVD (in combination with aspirin): • CrCl ≥ 15 mL/min: 2.5 mg twice daily

RECOMMENDATIONS FOR WARFARIN

Warfarin brands are NOT equivalent and cannot be used interchangeably.

TARGET INR RANGE

2 - 3	• Therapy for DVT or PE • Preventing systemic embolism: AF valvular heart disease, post MI, bioprosthetic heart valves (first 3 months)	• Preventing DVT: high risk patients e.g. hip or knee surgery
2 - 3	• Aortic bileaflet mechanical heart valve – if no other risk factors	
2.5 - 3.5	• Starr-Edwards mechanical heart valves. Mitral bileaflet mechanical heart valve or aortic if risk factors for thromboembolic event including AF, previous thromboembolism, LV dysfunction, hypercoagulable condition.	

(ADULT) DOSING FOR WARFARIN NAÏVE PATIENTS (TARGET INR 2-3)	DOSING WITH ONGOING WARFARIN THERAPY
Consider if bridging with heparin is indicated. Refer to local warfarin guidelines for further information. Record baseline FBC, coagulation status (INR, aPTT and PT) and liver function. • Suggested initial dosing of 5 mg daily for first 2 days, modify dosing for day 3 based on day 3 INR. • For younger patients (< 60 years) consider 7-10 mg on day 1 and day 2. • Consider smaller starting doses when the patient is elderly, has low body weight or abnormal liver function, is at high bleeding risk or has severe chronic renal impairment. • Consider dose modification in the presence of interacting drugs. • Discontinue heparin after a minimum of 5 days therapy and INR is 2 or greater.	<ul style="list-style-type: none"> • Patients being re-initiated on warfarin post surgery/ intervention should be restarted on the dose prescribed prior to intervention and check INR day 3. • In acutely ill patients with ongoing warfarin therapy: daily monitoring of INR may be appropriate. • Monitor INR more frequently when any change in treatment involves medicines known to interact with warfarin.

REVERSING WARFARIN OVER-TREATMENT (bleeding risk increases exponentially from INR 5 to 9. Monitor closely INR ≥ 6)

Clinical Setting	Management				Comments
	INR	Bleeding	Warfarin	Vitamin K (seek advice if cardiac valve replacement)	
Greater than therapeutic range but <4.5	Absent	Reduce dose or omit next dose			Resume warfarin at reduced dose when INR approaches therapeutic range. If INR <10% above therapeutic level, dose reduction may not be necessary.
4.5 – 10	Absent (Low risk)	Stop			Measure INR in 24 hours. Resume warfarin at reduced dose when INR approaches the therapeutic range.
	Absent (High Risk)*	Stop	Consider 1 - 2 mg (oral) ¹ Or 0.5 - 1 mg IV ²		Measure INR within 24 hours. Resume warfarin at reduced dose when INR approaches the therapeutic range.
>10	Absent (Low risk)	Stop	3 - 5 mg (oral) ¹ Or IV ²		Measure INR in 12 - 24 hours. Resume warfarin at reduced dose when INR approaches the therapeutic range.
	Absent (High Risk)*	Stop	3 - 5 mg IV ²	Consider 15 - 30 Units/kg ^{3,4} See weight based nomogram	Measure INR in 12 - 24 hours. Resume warfarin at reduced dose when INR approaches the therapeutic range. Close monitoring over the following week.
Clinically significant bleeding where warfarin is a contributing factor. e.g. Intracranial or massive haemorrhage		Stop	5 - 10 mg (IV) ²	25 - 50 Units/kg ^{3,4} doses may be appropriate as per warfarin reversal guidelines. See weight based nomogram	Only add Fresh Frozen Plasma (FFP) if critical organ bleeding (150-300 mL) or if Prothrombinex VF is unavailable (FFP 15 mL/kg). If required seek consultation with a haematologist / specialist.

Notes
¹ undiluted paediatric IV formulation
² undiluted as slow IV bolus over at least 30 seconds
³ at a rate of 3 mL/min. 500 Units of factor IX in 1 vial of Human Prothrombin Complex³
⁴ available from transfusion service
⁵ Prothrombinex VF will be replaced with Beriplex AU in mid-2024
For reversal prior to a procedure – Refer to hospital guidelines or seek specialist advice. Seek advice with Vitamin K in cardiac valve replacement.

***High Bleeding Risk One or more** →

- Recent surgery / trauma / bleed
- Advanced age
- Renal Failure
- Hypertension
- Alcohol abuse
- Active GI bleed
- Antiplatelet therapy
- Other relevant co-morbidity

AFFIX PATIENT IDENTIFICATION LABEL HERE AND OVERLEAF

Facility/Service: **XXX**

Ward/Unit: _____

Consultant: _____

URMN:

Family Name:

Given Name:

Address:

DOB:

Gender: M F

WA Anticoagulation Medication Chart

Attach ADR Sticker

Patient weight _____ kg Date weighed ____ / ____ / ____ **1st Prescriber to print patient name and check label correct:**

Height _____ cm

Bleeding Risk considered before prescribing anticoagulants Completed by (prescriber) _____ Date: ____ / ____ / ____

Please refer to Local Venous Thromboembolism Guidelines for Bleeding Risk Assessment. Caution should be considered for patients on Dual Antiplatelet Therapy (DAPT)

ONCE ONLY AND TELEPHONE (Prescriber to sign within 24 hours of order)

Date prescribed	Medicine (print generic name)	Route	Dose	Date/Time of dose	Nurse		Prescriber		Given by	Time Given
					N1	N2	Sign	Print Name		
									Checked by	

REGULAR DOSE ORDERS - PROPHYLACTIC DOSES Check platelets and coagulation profile before commencing (Subcutaneous unfractionated and low molecular weight heparins [LMWHs] and direct oral anticoagulants [DOACs])

YEAR 20__	DAY AND MONTH →												Continue at Discharge: YES / NO	Dispense YES / NO	Duration: _____ days Qty: _____	
Date	Medicine (Print generic name)	Route	Dose AND Frequency NOW enter times →	CrCl mL/min	Route	Dose AND Frequency NOW enter times →	Indication: VTE Prophylaxis	Pharmacy	Creatinine	Platelets	Prescriber Sign	Print Name				Contact No.

YEAR 20__	DAY AND MONTH →												Continue at Discharge: YES / NO	Dispense YES / NO	Duration: _____ days Qty: _____	
Date	Medicine (Print generic name)	Route	Dose AND Frequency NOW enter times →	CrCl mL/min	Route	Dose AND Frequency NOW enter times →	Indication: VTE Prophylaxis	Pharmacy	Creatinine	Platelets	Prescriber Sign	Print Name				Contact No.

REGULAR DOSE ORDERS - THERAPEUTIC DOSES Check platelets and coagulation profile before commencing (Subcutaneous low molecular weight heparins [LMWHs] and direct oral anticoagulants [DOACs])

YEAR 20__	DAY AND MONTH →												Continue at Discharge: YES / NO	Dispense YES / NO	Duration: _____ days Qty: _____	
Date	Medicine (Print generic name)	Route	Dose AND Frequency NOW enter times →	CrCl mL/min	Route	Dose AND Frequency NOW enter times →	Indication: Therapeutic	Pharmacy	Creatinine	Platelets	Prescriber Sign	Print Name				Contact No.

Pharmaceutical review:

WARFARIN OR DOAC MEDICINE INTERACTIONS (Pharmacy: Indicate medicine and expected interaction) Sign _____ Date _____

WARFARIN VARIABLE DOSE ORDERS

YEAR 20__	DAY AND MONTH →												Continue at Discharge: YES / NO	Dispense YES / NO	Duration: _____ days Qty: _____	
Date	Medicine	Route	Dose	Time	INR Result	Target INR	Pharmacy	Prescriber	Telephone order N1/N2	Given by	Prescriber Sign	Print Name				Contact No.

Warfarin Discharge Plan Dose _____ mg Target INR _____ Duration _____ Next INR due ____ / ____ / ____ Prescriber _____

ANTICOAGULANT DISCHARGE PLANNING Patient has booklet Patient education completed
 Warfarin DOAC LMWH Patient given treatment plan Duration _____ GP informed GP faxed chart
 Signature: _____ Designation: _____ Date: _____

Version 11

