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Contents

Conte	ents 1		
1.	Rationale1		
2.	Scope		
3.	Acceptance to HATH Criteria and Pathway3		
4.	Pathology Work Up		
5.	General Management 4		
6.	Medical Management / Treatment Plan5		
	6.1. Warfarin		
	6.2. DOAC		
7.	Monitoring		
8.	Medical Governance		
9.	Discharge Planning6		
10.	Supporting Documents		
11.	Document Details7		
Apper	ppendix A: Management of Bleeding and/or High INR (Over-anticoagulation)		

1. Rationale

The purpose of this Clinical Protocol is to provide a guiding framework for Hospital at the Home service Medical Practitioners and clinical staff.

- Anticoagulation for Atrial Fibrillation (AF) typically involves LMWH whilst bridging to • Warfarin, or introduction of a direct oral anti coagulant (DOAC) This will depend on a number of factors including status of AF, any planned cardioversions, Valvular vs Non-Valvular AF, co-morbidities, age and cognitive status etc.
- Warfarin takes a number of days to achieve therapeutic anticoagulation and causes an initial increase in prothrombotic potential. Consequently, when immediate BC-CP-0016 Version: 1 Effective to: 20/07/2024 Page 1 of 9

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Silver Chain Clinical Protocol for Anticoagulation for Atrial Fibrillation

anticoagulation is required (eg treatment of acute venous thromboembolism) warfarin must be started with concurrent parenteral anticoagulant therapy.

- When immediate anticoagulation is not required (eg stroke prevention for patients with chronic atrial fibrillation), warfarin or a DOAC can be started without concurrent parenteral therapy.
- Warfarin can be used in patients with severe kidney disease. Its use is limited by its narrow therapeutic index, interactions with other drugs and food, and the necessity to perform regular blood tests to monitor anticoagulation.
- DOACs achieve maximum anticoagulant effect within 3 hours of the first dose so there is usually no requirement for postprocedural bridging anticoagulation
- Be aware of the uncommon risk of heparin induced thrombocytopenia and check for this on day 5
- 2. Scope

The Clinical Protocol applies Nationally for HATH and in-home clients commencing on anticoagulants for the management of atrial fibrillation.

Silver Chain Clinical Protocol for Anticoagulation for Atrial Fibrillation

3. Acceptance to HATH Criteria and Pathway

RED Unacceptable for community admission to HATH Refer to ED/ Inpatient management. (May become suitable for HATH after ED or inpatient stabilisation)	 Co-existing medical conditions requiring hospital admission Known or suspected hypersensitivity to warfarin or LMWH/other (eg. clexane, fondaparinux) (unless under the governance of Haematology Consultant or Thrombosis Clinic) Pregnancy < 22 wks unless under the governance of a Haematology, O and G or Cardiothoracic Consultant for high-risk conditions e.g mechanical valve. Warfarin is teratogenic and is Pregnancy category D.
ORANGE Requires discussion with Medical Governance prior to acceptance.	 Over 13 years, suitable for adult dosing and under the care of a specialist team Increased risk factors for bleeding (e.g recent surgery, recent falls) or increased risk of falls (eg neurodegenerative conditions), familial bleeding disorder, GI bleeds, chronic liver disease, history of recurrent epistaxis, thrombocytopenia, uncontrolled hypertension Increased risk factors for clotting- mechanical valves (especially mitral), mitral valve disease, recent VTE, carotid artery disease, arterio-embolic disease whilst on anticoagulation.
GREEN Accepted for HATH	 Confirmed diagnosis of Atrial Fibrillation Client's medical condition has been assessed as stable, has a clear diagnosis, management plan, prognosis and is at low risk of deterioration.

4. Pathology Work Up

Verify if any recent pathology has been ordered prior to requesting the below:

• Baseline blood tests:



- Full blood picture (FBP) for baseline platelet counts
- Urea & electrolytes to assess renal function
- Coagulation profile (INR, APTT, fibrinogen)
- Liver function tests
- Day 5: Repeat FBP to assess platelet count for heparin induced thrombocytopenia.
 - Refer to eTG anticoagulation guidelines for further guidance on heparin induced thrombocytopaenia
- 5. **General Management**
- Daily nursing assessment as per Atrial Fibrillation Assessment tool. •
- Collaborate with medical governance doctor if any deterioration in client's condition •
- If transitioning to warfarin:
 - Access blood results from referral source 0
 - Obtain last INR and Warfarin dose from referral source if warfarin has already Ο commenced
 - If warfarin has not been commenced, check renal function, calculate CG and check Ο LMWH orders with Medical Governance.
 - Administer LMWH as per medical authority until INR in therapeutic range 0
 - If client has been on warfarin before, try to stick to the usual brand the client is 0 familiar with and has been stable on prior (eg Coumadin or Marevan
 - Monitor INR daily (utilising Coagucheck) and liaise with medical governance doctor 0 for dosing of warfarin
 - If INR reading >3.5, a formal blood test is required for confirmation. See Appendix Ο А
 - 0 Collaborate with medical governance doctor regarding any abnormal test results and warfarin dosing
- Advise client regarding warfarin use, including its potential complications and interactions with diet and alcohol as per Living with Warfarin booklet.
- Administer LMWH as per medical authority.

Silver Chain Clinical Protocol for Anticoagulation for Atrial Fibrillation

For management of bleeding and/or high INR in a patient taking warfarin refer to Appendix A.

6. Medical Management / Treatment Plan

6.1. Warfarin

- LMWH should be continued until INR is within therapeutic range for 24-48 hours (can be withheld on 2nd day of INR in therapeutic range unless medical governor requests 48hrs of therapeutic INR prior to cessation of LNWH).
- Use warfarin nomogram below to calculate warfarin dose

6.2. DOAC

DOACs achieve maximum anticoagulant effect within 3 hours of the first dose so there is usually no requirement for postprocedural bridging anticoagulation.

Day	INR	Suggested Dose
1	1.0 - 1.4	5mg
2 and 3	Below 1.8	5mg
	Above or equal 1.8	1mg
4 and 5	Below 1.5	7mg
	1.5 – 1.9	5mg
	2.0 – 2.5	4mg
	2.6 – 3.5	3mg
	3.5 – 4.5	2mg (formal INR required)
	Above 4.5	Omg (formal INR required)

6.3 Recommended warfarin nomogram

6.4 Recommended enoxaparin dose

Renal function	Treatment dose
Normal renal function	 1.5 mg/kg SC daily* ** or
CrCl > 30mL/min	 1 mg/kg SC BD
Severe renal impairment	1 mg/kg SC daily
CrCl < 30mL/min	
* Twice-daily dosing of enoxaparin is preferred for patients at high risk of bleeding, or of	

thrombosis, such as patients who are older, obese or have a malignancy.

**If dose required is greater than 150mg, dose must be given as twice daily dose.

7. Monitoring

Day 5: Repeat FBP to assess platelet count for heparin induced thrombocytopenia if • on bridging LMWH and transitioning to warfarin.



Anticoagulation dosing is as per pathway. Daily liaison with Medical Governance for dosing of warfarin based on POC INR results until INR in therapeutic range for 24-48 hrs

8. **Medical Governance**

- The client must have access to medical governance support for 24 hours per day, 7 days • per week.
- Primary medical governance can be by referring medical specialists, credentialed referring GPs or by Silver Chain medical staff.
- When governance is retained by a Silver Chain medical officer the client will have a medical review within 48 hours of admission and the medical officer will determine when the scheduled follow up and discharge will occur.
- Where the primary medical governor is unavailable the Silver Chain medical officer can ٠ provide the medical governance.
- Care delivery is planned and provided in consultation with the client, medical • officer/specialist holding medical governance and nursing staff.
- In the instance when a client's condition deteriorates the Silver Chain medical officer or • nursing staff will confer with referring medical officer or an emergency department medical officer as indicated-or escalate immediately if required
- A summary of the episode of care is sent to the referrer or the client's GP at discharge. •

9. **Discharge Planning**

- Ensure the client has an appointment arranged with own General Practitioner (GP) prior • to discharge to ensure continuity of care. This needs to be in a timely fashion to ensure INR monitoring.
- Fax client discharge summary to GP. •

10. **Supporting Documents**

Silver Chain Group documents that directly relate to and inform this Clinical Protocol are available with this document in the Policy Document Management System (PDMS).

Other documents that directly relate to and inform this Clinical Protocol are as follows:



Therapeutic Guidelines. eTG complete: Cardiovascular Anticoagulant Therapy (eTG March 2021 edition) https://tgldcdp-tg-orgau.silverchain.idm.oclc.org/viewTopic?topicfile=anticoagulant-therapy

11. Document Details

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Silver Chain Group's policies align with relevant legislation and standards and are based on providing a fair, inclusive and safe working environment free from bullying and discrimination and one that enables equal opportunity for all Silver Chain staff. Our policies embody our values of Care, Community, Integrity and Excellence.



Appendix A: Management of Bleeding and/or High INR (Over-anticoagulation)

Principles

- INR > 3.5 on Point of Care (POC) machine e.g. Coaguchek mandates laboratory specimen • to be taken.
- Laboratory specimen is considered as 'gold standard' and should be utilised in preference to POC machine.

High Bleeding Risk

- Recent major bleed (within 4 weeks)
- Major surgery (within 2 weeks) •
- Thrombocytopaenia (platelet count < 50×10^{9} /L)
- Known liver disease •
- Concurrent antiplatelet therapy

Refer to management recommendations on the following page



Management of patients on warfarin therapy with bleeding*

Clinical setting	Recommendation
INR \ge 1.5 with life threatening bleeding	Cease warfarin and transfer immediately to hospital
INR \ge 2.0 with clinically significant bleeding	Cease warfarin and transfer immediately to hospital
Any INR with minor bleeding	Omit warfarin, repeat INR following day and adjust warfarin dose to maintain INR in the target therapeutic range
	If bleeding risk is high or INR > 4.5 refer to hospital for administration of vitamin K

*indication for warfarin therapy should be reviewed; if clinically appropriate, consider permanent cessation.

Management of patients on warfarin therapy with high INR and no bleeding

Clinical setting	Recommendation
INR higher than the therapeutic range but < 4.5	Lower or omit the next dose of warfarin
and no bleeding	Resume therapy at a lower warfarin dose when the INR approaches therapeutic range
	if INR ≤ 10% above therapeutic range dose reduction generally not necessary
INR 4.5-10.0 and no bleeding	Cease warfarin therapy; consider reasons for elevated INR and patient-specific factors.
	Measure INR within 24h
	Resume warfarin at reduced dose once INR approaches therapeutic range
	If bleeding risk is high, send patient to hospital for medical review +/- administration of vitamin K
INR > 10.0 and no bleeding	Cease warfarin therapy
	Transfer immediately to hospital

Source: Tran H, et al. An Update of Consensus Guidelines for Warfarin Reversal. Med J Aust 2013; 198 (4): 198-199.