## **FONDAPARINUX**



GOVERNMENT I LOCAL MEALTH DISTRICT		
Fondaparinux IS A HIGH RISK MEDICINE		
USE WITH CAUTION AND ENSURE THE DIRECTIONS WITHIN THIS PROTOCOL ARE FOLLOWED CAREFULLY		
Areas where Protocol/Guideline applicable	SESLHD	
Authorised Prescribers:	Haematologists or Medical Officers under the direct supervision of or in consultation with a Haematologist	
Important Safety Considerations	<ul> <li>Fondaparinux should only be used in consultation with Haematology.</li> <li>HIT is a complication of heparin therapy with a high rate of thrombotic complications. If the diagnosis is confirmed by a haematologist (or suspected based on assessment using the 4T score) then all forms of heparin (unfractionated and low molecular weight heparins) including heparin flushes, must be discontinued and an alternative anticoagulant started.</li> <li>Thrombocytopenia is not a contraindication to anticoagulation in patients with HIT and platelet transfusions should be avoided unless critical bleeding.</li> <li>If the patient is on warfarin, this should be reversed using vitamin K 5mg IV or oral, and not restarted until the platelet count is normal for 2 days.</li> <li>Patients should be screened for asymptomatic proximal DVT which</li> </ul>	
	may influence the duration of anticoagulant therapy.	
Indication for use	Treatment of thromboembolic disease in a patient with (or with a history of) Heparin induced Thrombocytopenia (HIT)	
Clinical condition	Patients with HIT as diagnosed in consultation with a treating haematologist, based initially on clinical scoring (e.g. 4T score), which may be completed via laboratory testing as time permits.  Also, in suspected COVID-19 Vaccine Induced Thrombocytopenia with Thrombosis (treatment as per local therapeutic practice for HIT)  This drug is most likely to benefit patients with HIT fulfilling the following criteria; normal or moderately impaired renal function and otherwise clinically stable and a quick offset of anticoagulant effect is not required.	
Proposed Place in Therapy	Fondaparinux is a non-heparin anticoagulant used to treat HIT. Alternative anticoagulants used to treat HIT include bivalirudin, danaparoid, argatroban, and lepirudin.  Consult haematology regarding choice of therapy for the individual patient.	
	Argatroban and lepirudin are not currently registered in Australia but are available via the TGA Special Access Scheme.	
Contra-indications	<ul> <li>Severe renal impairment (creatinine clearance &lt; 30 mL/min)</li> <li>Active major bleeding</li> <li>Known hypersensitivity to Fondaparinux sodium</li> <li>Acute bacterial endocarditis</li> </ul>	

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Fondaparinux.  • Pregnancy cat pharmacologic harmful effects	egory C: limite egory C: limite al effect fond on the huma	a haemorrhagic eve ed safety data is av aparinux may be su n foetus.	ailable. Owning to spected of causin	ad of its
Other anticoagulants clopidogrel, antiplate Prolongs INR, will ne	and drugs the lets, fish oil) led specific co	at can cause bleed	ing (e.g. NSAIDs,	
Patient weight	< 50 kg	51 – 100 kg	> 100 kg	
Subcutaneous dose mg	5 mg daily	7.5 mg daily	10 mg daily	
5 mg/0.4 mL, 7.5 mg	/0.6 mL and 1	0 mg/0.8 mL streng	gths are commerci	ially
safely transitioned to	an oral antic	oagulant.	,	be
			escribing of	
All medication orders for fondaparinux must include: - Drug, dose, route and indication, the intended duration of therapy and the word "ANTICOAGULANT" printed clearly.  The parts of the syringe with an automatic needle protection system are: needle shield, plunger, finger-grip, security sleeve.  To be administered subcutaneously To use the Arixtra syringe,  1 Remove the needle shield, by first twisting it and then pulling it straight off				
3 Gently pinch the fold between injection. 4 Insert the full 90°) into the 5 Inject all of the plunger as fawithdraw autowill be locked 6 Discard the under the right anterolatera. To avoid the loss of residue.	the skin that heen the thumle length of the skin fold. e content of the ras it goes, a comatically from the sed syringe in the syringe in the sed syringe in the sed syringe in the sed syringe in the syringe	b and the forefinger needle perpendicul he syringe by press and then release it: m the skin into a se n a safe manner. n should alternate to right posterolateral duct when using the	arly (at an angle of any (at an angle of any down on the the needle will curity sleeve and the petween the left and abdominal wall.	f then
	Pregnancy cat pharmacologic harmful effects Fondaparinux in Other anticoagulants clopidogrel, antiplate Prolongs INR, will ne transitioning to oral at transitioning to oral at a subcutaneous dose mg  2.5 mg/0.5 mL injections 5 mg/0.4 mL, 7.5 mg available overseas at Patient dependent, usafely transitioned to After consultation with fondaparinux on the All medication, the in "ANTICOAGULANT" The parts of the syrin needle shield, plunger and indication, the in "ANTICOAGULANT" The parts of the syrin needle shield, plunger To be administered at To use the Arixtra sy 1 Remove the restraight off. 2 Discard the needle shield injection. 4 Insert the full 90°) into the 5 Inject all of the plunger as fawithdraw autowill be locked 6 Discard the use the right anterolatera To avoid the loss of restrictions.	Fondaparinux.  Pregnancy category C: limits pharmacological effect fond harmful effects on the huma Fondaparinux must not be as Other anticoagulants and drugs the clopidogrel, antiplatelets, fish oil) Prolongs INR, will need specific contransitioning to oral anticoagulant.  Patient weight	Fondaparinux.  Pregnancy category C: limited safety data is av pharmacological effect fondaparinux may be su harmful effects on the human foetus. Fondaparinux must not be administered intramu Other anticoagulants and drugs that can cause bleedi clopidogrel, antiplatelets, fish oil) Prolongs INR, will need specific consultation with hae transitioning to oral anticoagulant.  Patient weight	Fondaparinux.  Pregnancy category C: limited safety data is available. Owning to pharmacological effect fondaparinux may be suspected of causir harmful effects on the human foetus. Fondaparinux must not be administered intramuscularly  Other anticoagulants and drugs that can cause bleeding (e.g. NSAIDs, clopidogrel, antiplatelets, fish oil) Prolongs INR, will need specific consultation with haematologists when transitioning to oral anticoagulant.  Patient weight

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Monitoring requirements	The anticoagulant effect of fondaparinux is predictable. Routine anticoagulation monitoring is not required in most cases. Monitor signs of bleeding.  Specific laboratory monitoring using anti-Xa fondaparinux may be required (range not established, consult haematologist)  Platelet count  Serum creatinine/eGFR
Management of Complications	<ul> <li>There is no reversal agent for Fondaparinux.</li> <li>Elimination half-life: 17 hours in healthy young patients and 20 hours in elderly patients</li> <li>Overdosage associated with bleeding complications should lead to treatment discontinuation and search for the primary cause. Initiation of appropriate therapy which may include surgical haemostasis, blood replacements, fresh plasma transfusion, plasmapheresis should be considered.</li> </ul>
Storage requirements	Prefilled syringe contains 2.5 mg/0.5 mL of fondaparinux sodium. Store below 25 °C.
Basis of Protocol/Guideline: (including sources of evidence, references)	<ol> <li>Cuker A, Arepally G, Chong B, Cines D, Greinacher A, Gruel Y, et al. American Society of Hematology 2018 guidelines for management of venous thromboembolism: heparin-induced thrombocytopenia. Blood Adv. 2018;2(22):3360–92.</li> <li>Nilius H, Kaufmann J, Cuker A, Nagler M. Comparative effectiveness and safety of anticoagulants for the treatments of heparin-induced thrombocytopenia. Am J Hematol. 2021;96:805-815</li> <li>MIMsOnline. Arixtra (Fondaparinux) Product Information.</li> <li>Therapeutic Guidelines. (2021). Anticoagulant therapy.</li> <li>Australian Medicines Handbook. Fondaparinux. (2023).</li> <li>Micromedex. Fondaparinux. (2021).</li> </ol>
Groups consulted in development of this guideline	Intradepartmental discussion amongst all haematologists. SESLHD Pharmacy Services

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