

Neonatal and Paediatric: Enoxaparin sodium (Inhixa)

(IIIIIXa)					
Presentation:	Pre-filled syringes 20mg/ml prepared in pharmacy				
	Pre-filled syringes (100mg/ml) 60mg, 80mg, 100mg				
Indication:	Prophylaxis of thrombotic episodes				
	Treatment of thrombotic episodes				
Dose:	Prophylaxis of thrombotic episodes				
	 Neonate: 750 micrograms/kg twice daily 1 month: 750 micrograms/kg twice daily 				
	- 2 months -	- 2 months - 17 years: 500 micrograms/kg twice daily; max. 40mg per day			
	Treatment of thron	nbotic episodes dose as per BNFc			
	- Neonate: 1.5-2mg twice daily				
		5mg/kg twice daily			
	- 2 months- 2	17 years: 1mg/kg twice daily			
	Routine monitoring	of anti-Factor Xa activity is not usually rec	urired during treatment with		
	_	in neonates; monitoring may also be nece			
		ic impairment. If levels are being monitore	•		
	-	cording to table below:			
	Anti-Xa level (unit/ml)	Dose adjustment	Next anti-Xa level		
	<0.35	Change Insuflon [®] site	4 hours post dose		
		Increase dose by 25%			
	0.35 - 0.49	Increase dose by 10%	4 hours post dose		
	0.5 – 1.0	No change	Twice weekly (4 hours post dose)		
	1.01 – 1.5	Decrease dose by 20%	Pre next dose		
	1.51 – 2.0	Delay dose by 3 hrs & decrease by 30%	Pre next dose (trough). Then 4 hours		
		Delevide e viskile iski Veleviel	after next dose		
	>2	Delay dose until anti-Xa level =	Pre next dose (trough). Check anti-		
		0.5unit/ml Decrease dose by 40%	Xa every 12 hrs until <0.5 unit/ml Check anti-Xa 3.5 hours post dose		
		Decrease dose by 40%	Check anti-Na 3.3 flours post dose		
	Target level is 0.5 – 1.0 U/ml for therapeutic dosing.				
	Please ensure lab is aware you are sending a sample for analysis. If results are not requestor the same day sample may be frozen for weekly 'batch' analysis				
Route of	Subcutaneous injec	tion			
administration:	Insuffon® dayica can be used if necessary this should be changed every 4.5 days and flushed with				
Insuflon device can be used if necessary – this should be changed every 4-5 days and to					
	0.5ml sodium chloride 0.9% after each dose to ensure dose delivery. Insuflon information availab insuflon TM Intrapump				
	mounton mulipamp				
	Doses from manufacturer's syringes: Expel the excess enoxaparin from the syringe to the correct graduation for the prescribed dose to be administered.				

Instructions for		
preparation and		
administration:		

Doses < 20mg

These doses cannot be reliably administered from manufactures syringe. Ward to prepare first dose then pharmacy to manufacture subsequent doses.

- 1. Transfer 0.2 ml (20 mg) from the manufactures syringe into a 1 ml syringe
- 2. Using a filter needle, dilute with water for injection to 1 ml in the 1 ml syringe (20 mg/ml)
- 3. Using a transfer device, transfer the required diluted enoxaparin into a new 1 ml syringe

Doses ≥20mg to be administered using licensed prefilled syringes (100mg/ml) 20mg and 40mg syringes are not graduated and cannot be used to administer part doses.

Please round to a measurable dose as per table below.

Table of measurable doses:

Enoxaparin dose (mg)	Volume of 100mg/ml syringe to be administered (mls)	Enoxaparin dose (mg)	Volume of 100mg/ml syringe to be administered (mls)
20	0.2	52.5	0.525
22.5	0.225	55	0.55
25	0.25	57.5	0.575
27.5	0.275	60	0.6
30	0.3	62.5	0.625
32.5	0.325	65	0.65
35	0.35	67.5	0.675
37.5	0.375	70	0.7
40	0.4	72.5	0.725
42.5	0.425	75	0.75
45	0.45	77.5	0.775
47.5	0.475	80	0.8
50	0.5		

<u>Prescribing</u>	<u>RDH</u>
	Paediatrics: prescribe all doses on Lorenzo
	NICU: prescribe on regular side of white prescription chart
	QHB: prescribe on Meditech
	Prescribe brand name (Inhixa) and drug name
Additional	Anti-Xa levels will be affected by use of unfractionated heparin, renal failure (delayed excretion),
Comments:	hepatic failure and coexisting coagulopathy (e.g. in sepsis).
	Increased anti-Xa assay may be required if there are bleeding concerns.
	If patients are being discharged on enoxaparin for administration by parents/carers, the
	parent/carer must be counselled by nursing or pharmacy staff to ensure they are using the correct technique

Note: The contents of this monograph should be read in conjunction with information available in the BNFC and Medusa

References:

- 1. BNF for Children, accessed online 13/12/23
- 2. UHDB aseptic worksheet. QPULSE. Paediatric enoxaparin (approved 6/7/17). Accessed 13/12/23
- 3. Nottingham University Hospitals. Clinical guideline: paediatric nephrology enoxaparin Intravenous Immunoglobulin (koha-ptfs.co.uk). Accessed 13/12/23

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- 4. EMC enoxaparin <u>Inhixa 15,000 IU (150mg)/1 mL solution for injection</u> Summary of Product Characteristics (SmPC) (emc) (medicines.org.uk). accessed 13/12/23
- 5. University Hospitals Bristol and Weston. Low molecular weight heparin therapy in children and neonates clinical guideline (Low Molecular Weight Heparin Lmwh Therapy In Child-2_5.pdf). Accessed 13/12/23

Document control sheet

GUIDELINE NUMBER	
AREA IN WHICH THIS MONOGRAPH APPLIES	Paeds/NICU

DIVISIONAL AUTHORISATION		
GROUP	DATE	
Paediatric monograph review group		

AUTHORS		
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If review:

	Position	Date
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Change history:

Changes Reference	Change details	Date
	Timings of Anti-Xa levels and target level	April 2020
	Type of charts/EPMA	April 2020
	References	April 2020
	Insuflon information	April 2020
	Addition of QHB prescribing. Addition of preparation instructions for ward staff not pharmacy overnight service has finished. Added that it should be prescribed by brand. Altered factor Xa level table to match dosage handbook. Removed expired reference	December 2023