۲

+ +

+ +

Treatme	nt recom	mendatio	ons do no	ot cover all c	linical	scenarios an	d do not repl	ace the r	need for clinical judgement							
Decto	l ad :	RE	COMME	NDATION	S FOR	LOW MOL	ECULAR W	VEIGHT	HEPARIN (LMWH)							
Preferred	administi		es for twice	daily dosing a		and 1800 hr. L	ally thrombopro	phylaxis s	should be given in the evening.							
		IUNAFAR	KIN DOSA		QUEN	Normal rona	al function*	in patien	Impaired renal function (CrCl < 30 ml /min)*							
VTF pror	ohylaxis					40 mg or	ice daily		20 mg once daily							
DVT treat	tment				1.5 mg/k	g once daily C	R 1 mg/kg twic	e daily	1 mg/kg once daily							
Acute Co	oronary Sy	ndromes/	VTE treatm	ent		1 mg/kg tv	vice daily	1 mg/kg once daily								
		*Creati	inine Cleara	ance (CrCl) [{(	(140-age	) x Ideal Body	Weight(kg)}/Sei	inine(µmol/L]*[1.2 for males]								
S	eek advice	e on Dalte	parin (LMV	NH) doses, ad	ljustmen	t in renal failur	e, monitoring ar	nd reversa	I from your clinical pharmacist or specialist.							
Monitori	ng		<ul> <li>Seek sp</li> <li>Consider</li> </ul>	ecialist advice	e for mor	hitoring anti-Xa	, dose modificat	tion or alte	ernative therapeutic options.							
Withhold	ting I MW	/H	Interven		al (surgical) procedure: for prophylactic doses withhold 12 hours before procedure an											
prophyla	axis and		procedu	re. For treatm	. For treatment doses withhold 24 hours before procedure and 24 hours after procedure (48-72											
treatmen	nt prior ar	nd post	patients	at high risk of bleeding). pidural anaesthesia, do not institute anaesthesia or remove catheter within 12 hours of a prophylar												
Invasive	proceau	res	<ul> <li>Spinal / I MWH</li> </ul>	or 24 hours w	r 24 hours within a treatment dose of LMWH. Treatment may recommence 2 hours after catheter removal											
			Conside	er longer exclu	onger exclusion periods in the presence of complications or high risk of bleeding.											
Reversir	ng		Seek sp	ecialist advice	ist advice.											
Overtrea	itment		<ul> <li>As a gui (10minu)</li> </ul>	ide: Give 1mg	protami	ne sulfate per '	1 mg enoxaparin	I. Give hal	f of the protamine dose as a slow IV push							
			(Tominu	RE(												
			Warfa	arin brands a	are NOT	equivalent a	and cannot be	used inf	terchangeably							
						TARGET IN	IR RANGE	uoou iii								
2.0-3.0	Thera	py for DVT o	or PE 🔳 Prev	enting DVT: high	ı risk patie	nts e.g. hip or kne	e surgery									
	Preve	enting system	nic embolism:	AF valvular hear	t disease,	post MI, bioprosth	netic heart valves (f	first 3 month	s)							
2.5-3.5	Bileaf	let mechanic	cal heart valve	e (aortic)												
3.0-4.0	Mech	anical prosth	netic valve (hi	gh risk)					Car Cuidanas Osta							
De		(AD			SING F	OR WARFAR		This de	3 - For Guidance Only							
Da	iy		1.0	1 /		Sugges		INR, Ic	onger in those under 60 years.							
2	,		No.	INR		5	ma	For yo	unger patients consider 7–10mg on day 1 and day 2.							
3			<1	18		5	ma	Consid	der smaller starting doses when the patient is elderly,							
· · ·			≥1	1.8		1	ma	has lov	w body weight or abnormal liver function, or, is at high							
485			<1	1.5		7	ma	Consider does modification in the surgery of interestion								
-00			1.5	-1.9		5	mg		der dose modification in the presence of interacting drugs							
			2.0	-2.5		4	mg	<ul> <li>INR testing is recommended at morning blood rounds.</li> <li>Discontinue heparin after a minimum of 4 days therapy an when INR is therapeutic (&gt;2) for two consecutive days.</li> </ul>								
			2.0	-3.5 -4 0		2	ma									
			4.1	-4.5		1	mg									
			>4	1.5		See treatm	nent reversal	_								
6 onw	vards	Measu	ire on alterna	ate days until sta	able	As for day	s 4&5 or per									
		(ually if uit	uy meracioi					THEDA	PV							
In acute	ly ill nationt	s with ongoin	na warfarin th	erany: daily moni	toring of I		oriate	INEKA	FI							
Monitor	INR more fr	requently wh	ien any chang	ge in treatment in	volves dru	gs known to intera	act with warfarin.									
REVER	RSING W	ARFARI	N OVER-1	TREATMEN	T (blee	ding risk inc	reases expo	nentially	r from INR 5 to 9. Monitor closely INR ≥ 6)							
	Clinica	l Settina	-			<b>.</b>	Ma	anageme	nt							
11	NR	Ble	edina	Warfarin	\ \	/itamin K	Prothrom	binex VF	Comments							
Greater	than	At	osent	Reduce					Resume warfarin at reduced dose when							
therape range b	utic ut <5			dose or omi next dose	it				INR approaches therapeutic range. If INR <10% above therapeutic level, dose reduction may not be necessary.							
5	- 9	Ab (Lov	o <b>sent</b> w risk)	Stop					Measure INR in 24 hours. Resume warfarin at reduced dose when INR is within the therapeutic range.							
		Ak (High	<b>osent</b> h Risk)*	Stop	1-3	2 mg (oral) <sup>1</sup> Or 5-1mg IV <sup>2</sup>			Measure INR within 24 hours. Resume warfarin at reduced dose when INR is within the therapeutic range.							
;	>9	Ab (Lov	<b>osent</b> w risk)	Stop	2.5	–5mg (oral) <sup>1</sup> Or			Measure INR in 6–12 hours Resume warfarin at reduced dose when							
		Ak (High	<b>osent</b> h Risk)*	Stop		1 mg (IV) <sup>2</sup>	Consider 2 See weig	25 IU/kg <sup>3</sup> ht based	<sup>4</sup> Measure INR in 6–12 hours Resume warfarin at reduced dose when INR is within the therapeutic range							
Clinically warfarin	significan	t bleeding	where or.	Stop	5 –	10 mg (IV) <sup>2</sup>	25 IU See weig	/kg <sup>3,4</sup> Iht based	Assess patient continuously until INR < 5 and bleeding stops. Reassess need for warfarin							
High Risk Haemorrh haemorrh	k Bleeding hage (ICH) hage. Seek	e.g. Intracr or massive consultation	ranial e on with a				nomo	gram	therapy with supervising team. If Prothrombinex VF is unavailable, give FFP (10 – 15mL/kg) <sup>4</sup> in addition to vitamin K. FFP (10-15mL/kg) <sup>4</sup> should be considered in							
haematol	logist / spe	cialist.							addition to Prothrombinex VF for high risk bleeding e.g. ICH or massive haemorrhage							
Notes				<sup>1</sup> undiluted pae <sup>2</sup> undiluted as s For reversal p Seek advice w	ediatric IV i slow IV bo prior to a p vith vitam	tormulation lus over at least 3 procedure – Refe in K in cardiac ve	<sup>3</sup> a 0 seconds <sup>4</sup> F r to hospital guide alve replacement	at a rate of 3 Fresh Frozer elines or se	mL/min. 500 Units of factor IX in 1 vial of ProthrombinexVF n Plasma (FFP) available from transfusion service ek specialist advice.							
*	High Ble	eding Ris more →	sk	<ul> <li>Recent sur</li> <li>Advanced</li> </ul>	Advanced are     Advanced are											

۲

Facility/Ser	vice: XX	x			l
Nard/Unit:					F
Consultant	:				
Δr	nticoadu	ulatio	n Cha	rt	A
	lioougi	N	0:	of	[
Attac	h ADR S	ticker		1 <sup>st</sup> and	Prescribe d check la
Attach sticke	er and refer to NI	MC for details			
Co-existing Pregnancy Thyroid dia Anticoagula Concomitar	conditions conditions escase Ad ant history therapy	relevant f enal dysfu ctive pepti Aller	n (First to anticoa inction c ulcer gy to war platelet th	prescri agulants Recer Throm farin erapy	ber to co to co bocytopa Bleedi Other
Fixed Dose	Novel Oral	Anticoagu	u <mark>lants (N</mark> vears) ur	<mark>OACs) -</mark> derweig	- eg . Dab
Newer oral a	anticoagulant	s have no	specific	reversa	al agent. F
	Y AND TE	LEPHON	E (Pres	criber t	o sign w
prescribed	(print gener	ric name)	Noute	DUSE	of dose
REGULAR	DOSE OR	DERS - P	PROPHY		
YEAR 20	DOOL ON	DERO-I	Norm	LAGH	DODE
Date	Medication (F	Print generic	name)		
CrCl mL/min	Route	Dose Fre	equency NC	W enter ti	mes →
Indication: VTE		AXIS	Pharmac	y	
Prescriber Sign		Print name	) ;	Contac	ct No.
Date	Medication (F	Print generic	name)		
CrCl mL/min	Route	Dose Fre	equency NC	W enter ti	mes →
	E PROPHYL	AXIS	Pharmac	y	
Indication: VTE		Drint nome		Contac	ct No
Indication: VTE Prescriber Sign		FIIILIIdille	9	Contac	
Indication: VTE Prescriber Sign	DOSE OP				0959 (9
Indication: VTE Prescriber Sign REGULAR Date	DOSE OR Medication (F	DERS - 1 Print generic	r <b>REATM</b> name)		OSES (S
Indication: VTE Prescriber Sign REGULAR Date CrCl mL/min	DOSE OR Medication (F Route	DERS - 1 Print generic Dose Fre	r <b>REATM</b> name) equency NC	ENT D	OSES (S mes →
Indication: VTE Prescriber Sign REGULAR Date CrCl mL/min Indication:	DOSE OR Medication (F Route	DERS - 1 Print generic Dose Fre	aname) equency NC	ENT D W enter ti	OSES (S mes →
Indication: VTE Prescriber Sign REGULAR Date CrCl mL/min Indication: Prescriber Sign	DOSE OR Medication (F Route TRE	DERS - 1 Print generic Dose Fre EATMENT Print name	r <b>REATM</b> name) equency NC	IENT D W enter ti y Contac	OSES (S mes →
Indication: VTE Prescriber Sign REGULAR Date CrCl mL/min Indication: Prescriber Sign	DOSE OR Medication (F Route TRE	DERS - 1 Print generic Dose Fre EATMENT Print name	a name) equency NC Pharmac	W enter ti W contac	OSES (S mes →
Indication: VTE Prescriber Sign REGULAR Date CrCl mL/min Indication: Prescriber Sign PHARMAC	DOSE OR Medication (F Route TRE	DERS - 1 Print generic Dose Fre EATMENT Print name	a name) equency NC Pharmac	IENT DI IW enter ti IY Contac	OSES (S mes →
Indication: VTE Prescriber Sign Date CrCl mL/min Indication: Prescriber Sign PHARMAC WARFARIN	DOSE OR Medication (F Route TRE Y USE ONI	DERS - 1 Print generic Dose Fre EATMENT Print name		ENT D W enter ti y Contac	OSES (S mes → ct No.
Indication: VTE Prescriber Sign Date CrCl mL/min Indication: Prescriber Sign PHARMAC WARFARIN Details:	DOSE OR Medication (F Route TRE Y USE ONI VARIABL DRUG INTER	DERS - 1 Print generic Dose Fre ATMENT Print name LY E DOSE ACTIONS	TREATM name) equency NC Pharmac ORDER	ENT D W enter ti y Contac	OSES (S mes → ct No.
Indication: VTE Prescriber Sign Date CrCI mL/min Indication: Prescriber Sign PHARMAC WARFARIN Details: YEAR 20_	DOSE OR Medication (F Route TRE Y USE ONI VARIABL DRUG INTER	DERS - 1 Print generic Dose Fre EATMENT Print name LY E DOSE RACTIONS	REATM name) equency NC Pharmac Pharmac ORDER	ENT D W enter ti y Contac S cy: Indica	OSES (S mes → ct No.
Indication: VTE Prescriber Sign REGULAR Date CrCl mL/min Indication: Prescriber Sign PHARMAC WARFARIN WARFARIN Details: YEAR 20 Dose at adm	DOSE OR Medication (F Route TRE Y USE ONI N VARIABL DRUG INTER	DERS - 1 Print generic Dose Fre EATMENT Print name LY E DOSE RACTIONS		ENT D W enter ti y Contac Contac S cy: Indica DAY ANE ot Applicat	OSES (S mes → ct No. ate drug, ty D MONTH → ole
Indication: VTE Prescriber Sign  REGULAR Date CrCl mL/min Indication: Prescriber Sign  PHARMAC WARFARIN Details: YEAR 20 Dose at adm Dose Date	DOSE OR Medication (F Route TRE Y USE ONI VARIABL DRUG INTER ission Brance Medication (F	DERS - 1 Print generic Dose Fre EATMENT Print name LY E DOSE ACTIONS d:Marew Print generic	Pharmac ORDER ORDER (Pharmac N C ORDER C N an <sup>®</sup> □ C name)	ENT D W enter ti y Contac Contac S Cy: Indica ot Applicat ournadin®	OSES (S mes → ct No. ate drug, ty D MONTH → ole
Indication: VTE Prescriber Sign  REGULAR Date CrCl mL/min Indication: Prescriber Sign  PHARMAC WARFARIN Details:  YEAR 20 Dose at adm Dose Date Indication	DOSE OR Medication (F Route TRE Y USE ONI VARIABL DRUG INTER ission Brand Medication (F WARFAR	DERS - 1 Print generic Dose Fre EATMENT Print name LY E DOSE RACTIONS d:Marev Print generic RIN		ENT D W enter ti Y Contac Contac S Cy: Indica DAY ANE ourmadin®	OSES (S mes → ct No. ate drug, ty D MONTH → ole
Indication: VTE Prescriber Sign  REGULAR Date CrCI mL/min Indication: Prescriber Sign  PHARMAC WARFARIN Details: YEAR 20 Dose at adm Dose Date Indication Target INR	DOSE OR Medication (F Route TRE Y USE ONI VARIABL DRUG INTER ission Brand Medication (F WARFAF			ENT D W enter ti y Contac Cortac Cortac Cortac Cont	OSES (S mes → ct No. ate drug, ty D MONTH → ole se Time :00 hr
Indication: VTE Prescriber Sign  REGULAR Date CrCI mL/min Indication: Prescriber Sign  PHARMAC WARFARIN Details: YEAR 20 Dose at adm Dose Date Indication Target INR Prescriber Sign	DOSE OR Medication (F Route TRE Y USE ONI VARIABL DRUG INTER ission Brand Medication (F WARFAF			ENT D W enter ti y Contac Contac Contac DAY ANE ot Applicat ourmadin® 16	OSES (S mes → the of the of t
Indication: VTE Prescriber Sign  REGULAR Date CrCl mL/min Indication: Prescriber Sign  PHARMAC WARFARIN Details: YEAR 20 Dose at adm Dose Date Indication Target INR Prescriber sign	DOSE OR Medication (F Route TRE Y USE ONI N VARIABL DRUG INTER ission Branc Medication (F WARFAR			IENT DU Wenter ti y Contac Contac DAY ANE ot Applicat ournadin® 16 Contac	OSES (S mes → et No. ate drug, ty D MONTH → ole se Time :00 hr

XXX 11/13

					• • <b>T</b> I	<b>0</b> N 1		<b>6</b> 1 U							
							LAD		IER			KLE/	<u>ч</u> г		
	RIVIN:	<b>.</b> .													
	amiy Name	э. ·													
	ddroes.														
$ ^{\sim}$	uuress.														
D	OB:					C	Geno	der:		M	] F				
riber k lat	to print patie bel correct:	ent na	ime	Pati	ient v	veigh	It	kç	g Da	te weigh	ed	/ /	/		
Height															
na opae eedir her a	complete)       Image: Nil Known         na       Image: Hepatic impairment       Image: Hypoalbuminaemia       Image: Recent surgery         opaenia       Image: High Vitamin K intake       Image: Congestive heart failure       Image: Recent surgery         reading with anticoagulants       Image: Heparin Induced Thrombocytopenia       Image: Heparin Induced Thrombocytopenia         her antithrombotic agent       Image: Fixed dose oral anticoagulant       Image: Other														
Okg)	and with rena	l impa	airme	nt (Ci	r Cl <	50ml	L/min	чріла 1). giot/S	ball		-				
n. Re n wi	thin 24 hou	rs of	ord	s or s er)	еекг	haem	atolo	gist/S	pecia	alist advice	э.				
e/Time			Sign	F	Prescri	ber Drir	at non	20	Giv	/en by		Tim	ie an		
0030			Sigil			FIII	it nan			Check	ed by	give	511		
SES	(Subcutan	eous	and	fixe	d do	ose o	oral a	antic	οασι	lants)					
DAY /	AND MONTH →											I			
											NO /	fe			
											Je YES	da			
											ischarç	days_	ate		
	Creatinine										p uo ar	se YES			
	Platelets										Continu	Duratio		⊢	
											0			A R	Ŷ
											YES/N	ate		H	
											scharge	/ NO	rmacis		
	Croatinina										e on dis	e YES day	Pha	б	
	Platelets										ontinue	ispens uration	/	Ē	
6 (Su	bcutaneous	s and	d fixe	ed do	ose (	oral a	antic	coagi	ulan	ts)	0		/	CA CA	
											9		Date	ā	
											e YES/I	date		¥	
											scharg	s / NC ays		Z	
	Creatinine										le on di	se YES		Ō	
	Platelets										Continu	Dispen Duratio		ΔT	
											cted			L L	
g, typ	be of change (if	f any)	and e	expec	ted in	teract	tion)	Się	gn	Date	Take as dire	oumadin <sup>®</sup> 1mg qty	Print Name	OAG	
Ή→												ר / C		E	
	INR Result										No	Mareva 3mg qty		N.	
	DOSE	ma	ma	ma	ma	ma	ma	ma	ma	mg ma	۶ YES				
e	Prescriber		.9	.9					.9	09	scharge	/ NO			
	Telephone		/		/		/		/		∋ on dis	e YES 1: 5mg	er sign		
	Given by	<u> </u>	/	/		/			/		ontinu€	lispens larevar.	rescrib	ğ	
	Duration			Next	INR du	le	1		F	Prescriber	0	⊔ ≥	_ <u> </u>	X	
			tient g	iven t	reatm	ent pla	an	GP	infor	med 🗌	GP fa	xed cl	nart	Σ	

-

+

	REASON FOR NURSES NOT ADMINISTERING Codes MUST be circled	
	Absent (A) Refused – notify Doctor	R
Attach Patient Sticker	Fasting         F         Not Available Obtain supply or contact doctor	$\bigcirc$
	Vomiting V Self Administering	S
	On Leave L Withheld Enter reason in clinical record	W

Prescr	AVENC riber to c	omplete. (	A new pre	Scription i	DER s required	if the orde	er (total dos	se, fluid or v	volume) is	s chan	ged)						
Гarge aPTT:	t		Indicat	ion:	ute Corona	ry Syndror	ne (ACS)	Othe	r(specify)						Weight:		
Date	[	Drug	Total do	ose (units)		Fluid	/	Volume (n	nL)	Signa	ature		Print n	ame	Contact		
	HEPA	RIN	25.000	units	0.9% SC	DIUM CHI	LORIDE	500 mL									
NITL	AL BOI	LUS DOS	SE AND	INITIAL	INFUSIC	ON RATE	Preso	criber to	comple	te Ol	RDER						
		DTT		6.1	Initial	Bolus	Initial Infu	usion Rate			Prescrib	er			Nurse		
Date	Basel	ine aPTT	Date/ I li	ne of dose	(ur	nits)	(mL/	/hour)	Signa	ture		Print Nam	ie	Time	N1/N2		
MAIN	ITENA	NCE INF	USION	RATE CH	ANGES	AND BO	DLUS DC	SES									
Presc	riber to	complete	order 🗌	Prescrib	er to be c	ontacted	following	each aPT	T test								
				Nursing	staff to a	djust dos	e based o	n nomogra	am for		TE	ACS	using_		_kg column		
Jate		Prescribe	er signatur	9	Pr	int name		Contact					Pharmacy				
	aPTT to	est				Bolus and infusion rate administration											
Date	Time	aPTT	Time	IV bolus	Bolus	Hold	Time	Hold	Time	New	Rate	Rate		Prescri	ber Sign		
	laken			(units)	Sign	(mins)	Stopped	(Sign)	Started	(mL/	hour)	Sign					
		_	<u> </u>														
		_															
		_															
		_										$\square$					
			<u> </u>									$\square$					
INFUSI	ON CEAS	SED:	Date		Time	Prescribe	r signature	Print nam	е			Contact	Pharr	nacy			
NEU				Nurein	n staff to d	locumont	oach now	haa lafu	sion cho	uld or	ulv ho i	otorrupt	d who	n indicato			
		Time		Nursing	Time	V	olume	Data	Time					Time	Volume		
Date	° Co	mmenced	Checked	Given	Complet	ed Infu	sed (mL)	Date	Commen	ced	Checked	Give	י C	Completed	Infused (ml		

reatment recommendations do NOT cover all clinical sce											
RECOMMENDAT	ONS FOR INTRAVENOUS UNFRAC										
Standard dilution	<ul> <li>50 units / mL : dilute 25, 000 units of unfraction</li> <li>Nomograms below apply to this dilution only.</li> </ul>										
Target aPTT	<ul> <li>VTE: Dd – Ee seconds and ACS Nn – Pp s</li> <li>Target aPTT and dose nomograms are HC</li> <li>Measure baseline aPTT prior to commencing</li> </ul>										
Other monitoring	<ul> <li>Measure platelets at baseline and at least tw</li> <li>Contact haematologist in all suspected cases</li> </ul>										
Reversing heparin treatment	<ul> <li>Protamine reversal should be reserved for ca without bleeding apply relevant nomogram.</li> <li>Seek specialist or senior colleague advice. A per 100 units of heparin (max 50mg) as a slo</li> </ul>										

# INFUSION NOMOGRAMS FOR INTRAVENOUS UNFRACTIONATED HEPARIN USE

The nomograms (weight-based guides) are only valid when using an unfractionated heparin concentration of 50 units/mL and STANDARD aPTT targets. INITIAL ORDER: Prescriber should complete order (initial bolus and initial infusion rate) on page 2. See below for recommended doses. MAINTENANCE: Prescriber to indicate on page 2 whether nurse should maintain infusion rate based on nomogram as indicated OR whether the prescriber is to

be contacted following each aPTT test. THE PRESCRIBER SHOULD ALWAYS BE CONTACTED FOR EXTREME aPTT LEVELS.

VE	NOUS THE	KOWROEWRO	JLISM													
							WEI	GHT BAS	ED GUID	DE FOR I	NITIAL D	OSE				
TIAL	INITIA	LORDER	Weight (kg)	<40 kg	45 kg	50 kg	55 kg	60 kg	65 kg	70 kg	75 kg	80 kg	85kg	90 kg	<u>&gt;</u> 95 kg	
INI	Bolus dose 80	) units/kg	Units	3200	3600	4000	4400	4800	5200	5600	6000	6400	6800	7200	7200	
	Infusion 18 units/kg/hour F		Rate (mL/hr)	14	16	18	20	22	23	25	27	29	31	32	32	
							WEIGHT	BASED	RATE FO	OR MAIN	TENANC	E DOSE				
	MAINIENA	ANCE ORDER	Weight (kg)	<40 kg	45 kg	50 kg	55 kg	60 kg	65 kg	70 kg	75 kg	80 kg	85kg	90 kg	<u>≥</u> 95 kg	
	aPTT	Dose Adjustment	Rate change (mL/hour)           Re-measure aPTT within 6 hours of each rate change													
NANCE	< Aa	80 units/kg bolus (a plus increase rate b	as per initial bolus) by 4 units/kg/hour	+3	+4	+4	+4	+5	+5	+6	+6	+6	+7	+7	+8	
MAINTE	Bb – Cc	40 units/kg bolus ( plus increase rate b	half initial bolus) by 2 units/kg/hour	+2	+2	+2	+2	+2	+3	+3	+3	+3	+3	+4	+4	
-	Dd – Ee	No change	Re-measure aPTT within 24 hours (or next morning)													
	Ff – Gg	Reduce 2 units/kg/	educe 2 units/kg/hour			-2	-2	-2	-3	-3	-3	-3	-3	-4	-4	
	Hh – Jj	Contact Doctor, h then reduce 3 unit	-2	-3	-3	-3	-4	-4	-4	-5	-5	-5	-5	-6		
AC	UTE CORO	NARY SYNDR	nts at hi	igher ris	sk of bl	eeding	and/or	on dua	l antipl	atelet tl	nerapy)					
	INITIAL ORDER			WEIGHT BASED GUIDE FOR INITIAL DOSE												
TIAL			Weight (kg)	<40 kg	45 kg	50 kg	55kg	60 kg	65 kg	70 kg	75 kg	80 kg	85 kg	90 kg	<u>≥</u> 95 kg	
N	Bolus dose 60	) units/kg	Units	2400	2800	3000	3300	3600	4000	4000	4000	4000	4000	4000	4000	
	Infusion 12 un	its/kg/hour	Rate (mL/hr)	10	11	12	13	14	15	17	18	19	20	20	20	
							WEIGHT	BASED	RATE FO	OR MAIN	TENANC	E DOSE				
	WAINTENA	ANCE ORDER	Weight (kg)	<40 kg	45 kg	50 kg	55kg	60 kg	65 kg	70 kg	75 kg	80 kg	85kg	90 kg	<u>≥</u> 95 kg	
	aPTT	Dose Adjustment				R	e-measu	<b>Rat</b> ure aPTT	e chang within 6	e (mL/ho hours of	<b>our)</b> Feach ra	te chang	е			
NCE	< Kk	60 units/kg bolus (a plus increase rate b	is per initial bolus) by 3 units/kg/hour	+2	+3	+3	+3	+4	+4	+4	+5	+5	+5	+5	+6	
INTEN/	LI – Mm	Increase 2 units/kg	/hour	+2	+2	+2	+2	+2	+3	+3	+3	+3	+3	+4	+4	
MA	Nn – Pp	No change				F	Re-meas	ure aPT	T within 2	24 hours	(or next	morning	)			
	Qq – Rr	Reduce 1 unit/kg/h	our	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	
	Ss – Tt	Hold 30 minutes then reduce 2 units	/kg/hour	-2	-2	-2	-2	-2	-3	-3	-3	-3	-3	-4	-4	
	> Zz	Contact doctor, he then reduce 3 unit	old 60 minutes ts/kg/hour	-2	-3	-3	-3	-4	-4	-4	-5	-5	-5	-5	-6	

/E	NOUS THE	ROMBOEMBO	OLISM													
							WEI	GHT BAS	ED GUID	DE FOR II	NITIAL D	OSE				
TIAL	INITIA	LORDER	Weight (kg)	<40 kg	45 kg	50 kg	55 kg	60 kg	65 kg	70 kg	75 kg	80 kg	85kg	90 kg	<u>≥</u> 95 kg	
Z	Bolus dose 80	) units/kg	Units	3200	3600	4000	4400	4800	5200	5600	6000	6400	6800	7200	7200	
	Infusion 18 un	its/kg/hour	Rate (mL/hr)	14	16	18	20	22	23	25	27	29	31	32	32	
	MAINTENANCE ORDER		WEIGHT BASED RATE FOR MAINTENANCE DOSE													
			Weight (kg)	<40 kg	45 kg	50 kg	55 kg	60 kg	65 kg	70 kg	75 kg	80 kg	85kg	90 kg	<u>≥</u> 95 kg	
	aPTT	Dose Adjustment	Rate change (mL/hour) Re-measure aPTT within 6 hours of each rate change													
NANCE	< Aa	80 units/kg bolus (a plus increase rate b	+3	+4	+4	+4	+5	+5	+6	+6	+6	+7	+7	+8		
MAINTE	Bb – Cc	40 units/kg bolus ( plus increase rate b	half initial bolus) by 2 units/kg/hour	+2	+2	+2	+2	+2	+3	+3	+3	+3	+3	+4	+4	
_	Dd – Ee	No change	Re-measure aPTT within 24 hours (or next morning)													
	Ff – Gg	Reduce 2 units/kg/	duce 2 units/kg/hour			-2	-2	-2	-3	-3	-3	-3	-3	-4	-4	
	Hh – Jj	Contact Doctor, h then reduce 3 unit	-2	-3	-3	-3	-4	-4	-4	-5	-5	-5	-5	-6		
ACUTE CORONARY SYNDROME (and for patients at higher risk of bleeding and/or on dual antiplatelet therapy)																
	INITIAL ORDER		WEIGHT BASED GUIDE FOR INITIAL DOSE													
TIAL			Weight (kg)	<40 kg	45 kg	50 kg	55 kg	60 kg	65 kg	70 kg	75 kg	80 kg	85 kg	90 kg	<u>≥</u> 95 kg	
Z	Bolus dose 60	) units/kg	Units	2400	2800	3000	3300	3600	4000	4000	4000	4000	4000	4000	4000	
	Infusion 12 un	its/kg/hour	Rate (mL/hr)	10	11	12	13	14	15	17	18	19	20	20	20	
							WEIGHT	BASED	RATE FO	OR MAIN	TENANC	E DOSE				
	MAINIENA	ANCE ORDER	Weight (kg)	<40 kg	45 kg	50 kg	55 kg	60 kg	65 kg	70 kg	75 kg	80 kg	85 kg	90 kg	<u>≥</u> 95 kg	
	aPTT	Dose Adjustment				R	le-measu	<b>Rat</b> Ire aPTT	e chang within 6	e (mL/ho hours of	<b>our)</b> <sup>:</sup> each ra	te chang	е			
NCE	< Kk	60 units/kg bolus (a plus increase rate b	as per initial bolus) by 3 units/kg/hour	+2	+3	+3	+3	+4	+4	+4	+5	+5	+5	+5	+6	
	LI – Mm	Increase 2 units/kg	/hour	+2	+2	+2	+2	+2	+3	+3	+3	+3	+3	+4	+4	
MA	Nn – Pp	No change				F	Re-meas	ure aPT	T within 2	24 hours	(or next	morning	)			
	Qq – Rr	Reduce 1 unit/kg/h	our	-1	-1	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	
	Ss – Tt	Hold 30 minutes then reduce 2 units	s/kg/hour	-2	-2	-2	-2	-2	-3	-3	-3	-3	-3	-4	-4	
	> Zz	Contact doctor, he then reduce 3 unit	old 60 minutes ts/kg/hour	-2	-3	-3	-3	-4	-4	-4	-5	-5	-5	-5	-6	

### narios and do not replace the need for clinical judgement

## TIONATED HEPARIN

onated heparin in 500mL of 0.9% sodium chloride or 5% glucose

. Rates will vary for more concentrated dilutions. Please seek pharmacy advice.

seconds, or as otherwise specified by consultant.

**OSPITAL SPECIFIC** – consult Pathology Laboratory for correct aPTT ranges.

g treatment, then within 6 hours of every rate change, otherwise daily.

ice weekly.

s of Heparin Induced Thrombocytopaenia (HIT).

ases of major bleeding or where required prior to emergency surgery. For a high aPTT

As a guide: Estimate heparin dose received in last hour. Administer 1 mg protamine sulphate low IV push (over 10 minutes). Monitor aPTT after bolus then as required.

# IT IS RECOMMENDED THAT BOLUS DOSES BE DRAWN UP (AS PRESCRIBED) FROM SEPARATE AMPOULES INTO A SYRINGE FOR ADMINISTRATION.

۲