Managing Anticoagulation at a Pre-operative Assessment Clinic

Southern Health and Social Care Trust

Sr Rachel Donnelly – Pre-operative assessment manager

Mrs Sinead Doyle - Lead Anti-coagulant Pharmacist

SHSCT



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History

- Pre-operative Assessment (POA) Service was established in Southern Health and Social Care Trust (SHSCT) in 2006.
- Pre-op all patients who are GA surgery in Orthopaedic, General surgery, Gynae, ENT and Urology surgery
- POA managed anticoagulants for all patients GA & LA surgery as per Consultant instructions
- Guideline for the Management of Warfarin for Patients Requiring an Elective Procedure in place in SHSCT from 2008
- In 2012 POA responsibility expanded to providing anticoagulant (and antiplatelet) advice to patients who were undergoing Endoscopic procedures in addition to GA and LA.





How was the patient advised before 2012?

- Pre-operative assessment Sisters advised based on the add to waiting list form completed by the Consultant
- Schedulers and secretaries Patients contacting the POA team for anticoagulant drug advice being directed to the secretaries or schedulers





How did the Pre-operative Assessment Team become involved

- From 2012 pre-operative assessment were responsible for advising patients who were for GA, LA and endoscopy procedures
- Band 6 Pre-op Sisters advised the patients
- Followed the Guideline for the Management of Warfarin for Patients Requiring an Elective Procedure in place in SHSCT from 2008
- Guidance on the Administration of Medications in Pre-operative Adult Patients were revised in 2012.





Haematology Involvement

- Worked with Dr Boyd, consultant
 Haematologist and lead consultant for
 anticoagulation within the SHSCT. She was
 available for advice and supply of prescriptions
 for bridging at the weekly anticoagulant clinic
- Anticoagulant pharmacists were already managing anticoagulant clinics throughout the Trust – they were another point of contact for the POA team.





Current management

Who Manages this patient Group Now

- Consultant Surgeon
- Pre-operative Assessment Team
- Anti-coagulant pharmacist
- Consultant Haematologist





Role of the Consultant Surgeon

- Completes the "add to waiting list form" for all patients (GA / LA / Endoscopy)
- Indicates which drug the patient is prescribed
- Indicate the management of drug in line with the bleeding risk including bridging if appropriate
- Follows the trust policy and guidelines



Surgery Waiting List Form

Southern Health To be completed in to be completed			t Waiting List		Pre-Opera	ative Management for W	arfarin for Patie	ents Requiring Electiv	re Surgery
Patjent Details – Affix Addressograph or Name:	Date of Clinic / D Consultant	ecision to list			One: Doctor n	nust complete leeding risk of procedure	Step Two	o: Action to be comple Or Doctor	ted by POA Nurse
D.O.B.: H&C No.	Specialty			į) Lov	risk of bleeding		have INR o	e to advise Patient to co checked 5-7 days prior t	o surgery.
Please DO NOT list a Par Diagnosis:	tient for surgery if further tests o	r assessments are neede	d	ii) Hi	th risk of bleedin	SO	Patient to	DA nurse/pharmacist to omit warfarin 5 days prior oxise on UMWH brideing r	to surgery & POA
Procedure:				iii) c		t the Consultant has decide ald be managed in the follow	d the above guida		
Estimated Duration of Surgery:	Additional Comments / Instructions:								
Urgency Please tick appropriate box F	Anaesthetic Type	IF NOT suitable for day of admission – please state		POA	ultant Signature: Nurse to give potier ng is prescribed and	nt written instructions on pre-op I	management plan de	Date:	oplicable any LMWH
Red Fleg	rease that appropriate cox	admission - piease state	a give reason	Sten	Three: Doctor/	POA Nurse/Pharmacist	to complete /ole	are complete a through to	d
	General / Spinal				son for warfarin		Group B (pleas		-1
	seneral / Spinal				son for warrann bolic Risk	AF (no stroke / VTE)		e tick) Heart Valve 🖂 INR tai	
	ocal				indicate whether	☐ VTE more than 3 months		Heart Valve □ INK tar Smonths □ Antiph	
Fienneu	ocei				indicate whether tient falls into	ago		ation with previous stro	
					A or Group B.	Low Embolic Risk:		sk: requires bridging with I	
Intended Management	Please note, that unless indicate		rposes the	0.00,	A GI GI GI GI GI GI	no bridging required		complete sections b throu	
Please tick appropriate box	patient will be shared across the	Trust.		1110				•	-
Day Case	Please detail if the patient is requ	uired to be admitted to:		b) Pa	tient's Weight =	: kg	c) Renal Fund	tion (eGFR) =	ml/min
Inpatient				d) Ca	culation of enox	caparin doses (tick & complete	relevant sections of	flow chart)	
Patients should be listed as a day case	Specific Site Requirement							,	
the intention is for no overnight stay	Specific Unit Requirement					is the ed	SFR <30ml/min?		
pligwing surgery. It does not matter	and the second bases	+					$\overline{}$	_	
(high, ward or unit they are admitted to	Specific Consolicant					□ No		Yes 🗌	
	ation Or Anti-Platelet Therapy?							_	
If yes, please indicate if patient is	s on any of the medications below and	d the action required:		Day	3 & 2 Pre-Op Therap	eutic enoxaparin dose = <u>1.5mg/kg</u>	Day 3 & 2 I	Pre-Op Therapeutic enoxape	nin dose = 1mg/kg
Warfarin?	PLEASE TURN OVER & ind	licate the bleeding risk of t	he procedure.	Dose	should be rounded	down to nearest 10mg, therefore	Dose shoul	d be rounded down to near	est 10mg, therefore
Aspirin 300mg?		daily 7 days prior to surgery	.	Day	3 Pre-Op Date:	SC gg before 10am	ng Day 3 Pre-	Op Date: Enox	aparinmg Og before 10am
		as normal copy, thyroid, parotid or pa laspirin 7 days prior to surg		Day	2 Pre Op Date:	SC gg before 10am	ng Day 2 Pre (Op Date: Enox	aparinmg .gd before 10am
	Surgery - Stop an		-,-			↓		+	
Clopidogrel or Presugrel?	Please advise:				De	y 1 Pre-op dose is 30% of full dos	e (round down to the	nearest 10) in all cases	
		tenting within the past year	thus Surge on				•	•	
		ardiologist to advise□ scontinue 7days prior to su	gery 🗆		D	ay 1 Pre Op: Date: E	noxeperinr	mg SC od before 10am	
- Debigetren, Riveroxeben or Apix	aban? Please refer to Trust Gui	dance and SPC.				Patient / Carer to self-ac	tminister enoxaparin	Yes / No	
Latex.Allergy∂ No □ Yes□		No 🗎 Yes 🗆			If no, arrangeme	ents for administration are as foll	ows:		
Diabetic? No Yes	(f, yes, how is the diabetes controlled)	? Insulin Tablet	Diet[POA N	urse Signature:	Print Name:		Date:	
	e waiting list must be discussed and coun en arrangements should be made to disc			Prescr	iber Signature:	Print Name:	:	Date:	
Doctor's Signature	Print Name	Dete		0	nce completed, e	ensure a copy is sent to the	patient and the p	atient's GP, for their in	nformation.
Countersigned (Consultant)		Dete	:	****	e full muidelin	vailable on Trust Intranet und	an Olivinal Cuid-E-	on Continu & in all OD C	narultation Doc 1
				Pleas	e run guidellines av	ranguic on Trust Intranet und	e cinical Guidein	ies section & in all OP C	prediction kooms "



Endoscopy Form

		This form is to be completed by the POA Nurse & should only b				
Patient Details - Affix Addr		completed for patients whom the Listing Clinician has deemed the procedure bleeding risk as high and/or the Listing Clinician requires the patient to stop warfarin prior to the procedure. This should be used in conjunction with the Yellow Additions to the				
Name:	essograph or write details					
D.O.B.:						
H&C No						
		Endoscopy Waiting List Form.				
		complete (please complete a through to d)				
a) Reason for warfarin	Group A (please tick)	Group B (please tick)				
& Embolic Risk	AF (no stroke / VTE) VTE more than 3	Mechanica Heart Valve				
Please indicate whether the patient falls into	months ago	Arrial Fibrillation with previous stroke or TIA				
Group A or Group B.	Low Embolic Risk:	High Embolic Risk: requires bridging with LMWH				
G100p	no bridging required	complete sections b through to d				
b) Patient's Weight =	kg	c) Renal Function (eGFR) = ml/min				
d) Calculation of enox	aparin doses (tick & comple	ete relevant sections of flow chart)				
	Is the eGF	R <30ml/min?				
	□ No	Yes 🗆				
Day 3 & 2 Pre-Op Therapeu	utic e noxaparin dose = 1.5mg/kg	Day 3 & 2 Pre-Op Therapeutic enoxaparin dose = 1mg/kg				
	own to nearest 10mg, there fore	Dose should be rounded down to nearest 10mg, there fore				
	_					
Day 3 Pre-Op Date:	Enoxaparinmg SC od before 10am	Day 3 Pre-Op Date:mg SC od before 10am				
Day 2 Pre Op Date:	Enoxaparinmg SC od before 10am	Day 2 Pre Op Date:mg SC od before 10am				
	Ţ					
Day 1	Pre-op dose is 50% of full dose /	round down to the nearest 10) in all cases				
'		exaparinmg SC qd before 10am				
	Patient / Carer to self-adm	ninister enoxaparin Yes / No				
If no, arrange ment	ts for administration are as follow	MS:				
POA Nurse Signature:	Print Na					
Prescriber Signature:	Print Na	me: Date:				





Role of Pre-operative Assessment Team

- Co-ordinates the patient care
- Patient for GA at the nurse led pre-op clinic the patient's medication and dose are confirmed with the patient and NIECR – anticoagulant drug is added to PAS
- At this clinic appointment, the patient receives written advice informing that the drug may need to be stopped and to contact POA
- Endoscopy Patients POA team receive email to a central POA endoscopy email address informing us about patient
- LA patients Pre-op admin team review admission lists and alert nursing team
- Pre-op Sr / Cn request the patient's notes to review add to waiting list form
- Add to waiting list form reviewed along with the trust guidelines
- If the advice is not in keeping with trust guidelines the anticoagulant pharmacist
 is contacted to confirm and then the consultant surgeon is contacted to inform
 them of any changes that are required to agree with trust guidelines



When the patient is given a date for surgery:

- Alerted by pre-op admin team of TCI date (GA & LA Patient)
- Scheduling team send endoscopy patient details to POA via an email
- Patient also phones pre-op
- Pre-op Sr / Cn contacts the patient by phone to relay the advice verbally and sends the patient out written advice
- If bridging is required the Pre-op Sr / Cn contacts the anticoagulant pharmacist to complete the prescription
- Bridging prescription is dispensed at hospital pharmacy and the collection of this is co-ordinated by pre-op
- Inform GP if the drug is to be stopped prior to procedure and or if bridging is required



Role of the Anticoagulant Pharmacist

- Since the appointment of an additional anticoagulant pharmacist in mid-2012, the role of the pharmacist in POA clinics has increased
- Available by bleep and email for advice
- Meets the POA nurses several times a week to review patients' who require bridging and advice on when to stop a DOAC
- Can offer advice on patients where the decision on bridging is unclear, using the existing guidelines



Role of the Consultant Haematologist

- No longer required to routinely prescribe bridging – this role is now the pharmacist's
- Point of contact for the pharmacist if further advice or clarification is required
- Involved in guideline development and is influential when engaging other teams to comply with guidelines



Trust-wide Service

- With the expansion of the POA clinics and the bowel screening programme, the anticoagulant team are available to these clinics throughout the Trust.
- The bridging prescription is prepared and can be collected by the patient at the most convenient hospital site. The POA nurses organise administration of enoxaparin, either with the patient self-injecting, calling at their local treatment room or organising District Nursing if necessary.



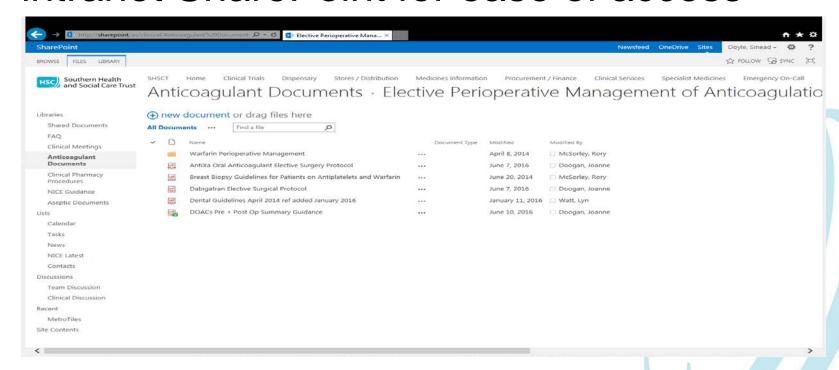
The next step...DOACs

- A guideline to assist with prescribing DOACs in the peri-operative period is currently in draft form.
- There is limited data on the use of DOACs around surgery but more is emerging as time goes on.
- Difficulties encountered have included limited data, e.g., in the area of dentistry and with regards to spinal anaesthesia.



Accessibility to Guidelines

 All polices and procedures are on the intranet SharePoint for ease of access





Example of a Pre-op Case

- Patient undergoing Right Partial
 Parotidectomy high bleeding risk
- Previous PE classed as a high risk patient by surgeon
- Pharmacist contacted by email advised that no bridging required as PE more than 3 months ago, to stop warfarin 5 days pre-op



Example of a Pre-op Case

- Patient undergoing urology procedure
- History of recurrent DVT, target INR of 3.5 so high risk patient
- Weight 136kg
- Based on Trust guidelines for patients over 120kg, enoxaparin prescribed at 0.75mg/kg twice daily so 100mg enoxaparin twice daily with 100mg in the morning the day before procedure, warfarin stopped 5 days pre-op.









