

UNIT FARMASI KLINIKAL DAN MAKLUMAT DRUG. JAB. FARMASI, HOSPITAL USM

EDARAN MAKLUMAT UBAT

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PATIENTS BEST TREATED WITH WARFARIN:

- Good INR control with warfarin
- Renal failure patients
- Prostetic valve or moderate to severe mitral stenosis
- Gastrointestinal disease and elderly patients
- Poor compliance patients

PATIENTS BEST TREATED WITH NOACs:

- Unexplained poor INR control
- Unavoidable warfarin-drug interaction
- New patients on anticoagulation therapy for AF
- Adults. Safety in patients < 18 y/o have not been established



REFERENCES:

Nur Aida Murni

Siti Hannan Shabirah

Apixaban

NOACs	Dabigatran [1]	Rivaroxaban ^[2]	Apixaban [3]
Status in HUSM	Standard terkawal with quota.		
Formulation &	Current brand: Pradaxa®	Current brand: Xarelto®	Current brand: Eliquis®
strength (mg)			
available in HUSM	110mg & 150mg hard capsules.	10mg, 15mg, 20mg film-coated tablets.	2.5mg, 5mg film-coated tablets.
MOA	Direct thrombin inhibitor Factor Xa inhibitor		
Directions for oral	Should be swallowed whole with	To be taken with food. For patients unable to	Should be swallowed with water, with or without
administration	water, with or without food. Not	swallow whole tablets, may be crushed and	food. For patients unable to swallow whole
	to open the capsule as this may	mixed with water or apply puree immediately	tablet, may be crushed and suspended in
	increase the risk of bleeding.	prior to use and administered orally.	water/D5W/apple juice or apple puree. Crushed
			tablets are stable in diluents for up to 4 hours.
Able to crush and	No	Yes.	Yes.
administer via		Crushed tablet should be administered in a small	May be crushed and suspended in 60mL of
nosogastric/gastric		amount of water via a gastric tube after which it	water/D5W and immediately delivered through
tube		should be flushed with water. After the	NG tube.
		administration of crushed tablet, the dose should	
		then be immediately followed by enteral feeding.	

INDICATIONS AND DOSES OF DIFFERENT NOACs [1], [2], [3], [4]

NOACs	NOACs Prevention of stroke and systemic Treatment of DVT and/ or PE & VTE prophylaxis after total hip or knee					
1107103	embolism in non-valvular AF	Secondary prevention of DVT and/ or PE	replacement in adults			
	(NVAF)	Secondary prevention of DVT and, of FE	replacement in addits			
Anivahan	• •	10mg PD for the first 7 days, then Emg PD (for at least 2)	Initial dose to be taken 12.24b post surgery			
Apixaban	5mg BD.	10mg BD for the first 7 days, then 5mg BD (for at least 3	Initial dose to be taken 12-24h post-surgery.			
	<u>Dose reduction</u>	months based on risk factors).	Hip: 2.5mg BD 32-38 days.			
	2.5mg BD in pt with any 2 of these:	Prevention of recurrent DVT/PE: 2.5mg BD initiated	Knee: 2.5mg BD 10-14 days.			
	age ≥ 80y/o, BW ≤ 60kg or	after completion of 6 months of Apixaban 5mg BD.				
	SrCr ≥ 133umol/L	Crcl < 30ml/min: To be used with caution. M	ay lead to increased bleeding risk.			
	CrCl < 15mL/min or dialysis patient: No clinical experience before. Use is not recommended. Severe liver impairment (Child-Pugh class C): Use is not recommended.					
Dabigatran	150mg BD life-long.	150mg BD following treatment of parenteral anticoagulant	CrCl >50mL/min: 110mg within 1-4h on Day 1			
		for 5-10 days. Individualized duration of therapy.	post-surgery then day 2 onwards: 220mg OD.			
			<u>Dose reduction</u>			
	Dose reduction 110mg BD: pt > 8	y/o, receiving concomitant verapamil. Dabigatran and	CrCl 30-50mL/min or pt > 75 y/o: 75mg within			
	verapamil should be taken at the same time. Individual assessment on dosage selection (150mg BD or 110mg BD): pt 75-80 y/o, CrCl 30-50mL/min, with gastritis, esophagitis or gastroesophageal reflux, low thromboembolic risk/high bleeding risk, concomitant treatment with strong P-gp inhibitors, antiplatelets.		1-4h on day 1 post-surgery then day 2			
			onwards: 150mg OD.			
			Duration:			
			Knee: 10 days			
		Hip: 28-35 days				
	CrCl <30mL/min: Contraindicated					
Rivaroxaban	CrCl > 50mL/min: 20mg OD	15mg BD with food for first 21 days.	Hip: 10mg OD for 35 days.			
	CrCl 15-50mL/min: 15mg OD	20mg OD for remaining treatment. If bleeding risk > risk	Knee: 10mg OD for 12 days.			
	Taken with evening meal.	for recurrent DVT/PE 15mg OD can be considered.	Initial dose to be taken			
	CrCl < 15mL/min: Use not recommended.					
	Cirrhotic pt with Child Pugh B and C: Contraindicated.					
Immountants Doco	Dose vary depending an indication and may need to be adjusted for rough bandic impairment drug drug interaction, weight and co-markidities. Pefer product					

Important: Doses vary depending on indication and may need to be adjusted for renal, hepatic impairment, drug-drug interaction, weight and co-morbidities. Refer product information leaflets available at 'Quest 3 Product Search' for complete dosage information.

NOACS WITH CHARACTERISTICS BENEFICIAL TO TARGET GROUP [4] Agent with

Apixaban

stroke

prevention

VKA (TTR > 70%)

lowest due to High risk GI bleed Pt with dyspepsia 1) Product Information Leaflet: Pradaxa® Dabigatran incidence of GI association with Rivaroxaban Date of revision: 10th May 2019. 110mg dyspepsia bleeds 2) Product Information Leaflet: Xarelto®: Date of revision 10th May 2019. 3) Product Information Leaflet: Eliquis®: Date of revision: 11th July 2019. Agent with Dabigatran Agent with 4) Hammersley, D., & Signy, M. (2017). High overall lowest 110mg Navigating the choice of oral **Elderly patients** lowest Apixaban bleeding risk anticoagulation therapy for atrial incidence of bleeding risk fibrillation in the NOAC era. Therapeutic Apixaban bleeding Advances In Chronic Disease, 8(12), 165-176. Greatest Ischaemic stroke PREPARED BY: superiority over while Dabigatran Once-daily Khairul Bariah Johan VKA for ishaemic Patient's choice Rivaroxaban anticoagulated on 150mg

Avoid dabigatran,

dose