

Pharmacy

Bulletin



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WPDATES on Novel Oral Anti-coagulants in PPUKM Novel oral anticoagulants (NOACs) are new generation of oral anticoagulants that do not require frequent blood moni-

Novel oral anticoagulants (NOACs) are new generation of oral anticoagulants that do not require frequent blood monitoring and have fewer drug interactions compared to warfarin. Currently, there are 3 NOACs available in PPUKM with different approved indication and supply policies. Below are the differences:

Indication Drug	Prophylaxis of DVT/PE after KNEE or HIP replacement surgery	Reduce stroke risk in non- valvular AF (SPAF)	Treatment of DVT & prevention of recurrent DVT	Treatment of PE & prevention of recurrent DVT & PE after acute PE	
I. Dabigatran (PRADAXA)	Day I: 110mg within 1-4 hrs of completed surgery (Elderly >75 & CrCl 30-50 ml/	I 50mg twice daily lifelong Reduce dose to I I 0mg twice daily:	I 50mg twice daily following treatment with parenteral anticoagulant for at least 5 days		
I I Omg , I 50mg	min: 75mg) Day 2 onwards: 220mg once daily Duration: Knee - 10 days Hip - 28-35 days Reduce dose to 150mg once daily: • Elderly >75yo • CrCl 30-50 ml/min	◆ Elderly >80 yo ◆ Patient with gastritis, esophagitis or gastroesophageal reflux ◆ If thromboembolic risk is low & bleeding risk is high (e.g. CrCL 30-50 mL/min) ◆ Patients weigh <50kg CrCl <30 ml/min: Contraindi-	 Reduce dose to 110mg twice daily if: ◆ Elderly ≥80 yo (due to risk of bleeding in this population) ◆ Taking verapamil ◆ At high risk of bleeding 		
PPUKM Policy	Pay full at Kedai Farmasi RM 4.50/tab	**With subsidy card: RM 150/	Pay full at Kedai Farmasi RM 4.50/tab		
2. Rivaroxaban (XARELTO) 10mg 15mg 20mg	I0mg once daily Duration: Knee- 2 weeks Hip - 5 weeks Initial dose should be taken 6-10 hrs after surgery provided hemostasis has been achieved.	month Normal dose/CICr > 50ml/ min: 20mg once daily with evening meal Reduce dose to 15mg once daily if CICr 15-50 ml/min	15mg twice daily with food for first 21 days 20mg once daily with food on Day 22 onwards		
PPUKM Policy	FREE [A* Consultants only]	**With subsidy card: RM 150/ month	Pay full at Kedai Farmasi RM8.75 (15mg tab), RM8.95 (20mg)	FREE (A* Respiratory only)	
3. Apixaban (ELIQUIS) 2.5mg	2.5mg twice daily. Initial dose should be taken 12-24 hrs post op Duration: Knee - 2 weeks Hip- 5 weeks	5mg twice daily Reduce dose to 2.5mg twice daily if: ◆ Age ≥80 yo ◆ Wt ≤ 60 kg ◆ SrCr ≥ 1.5mg/dL(133μ mol/L)	Treatment dose: 10mg twice daily for first 7 days followed by 5mg twice daily for at least 3 months Prevention dose: 2.5mg twice daily following the completion of 6 months of treatment with 5 mg twice daily		
PPUKM Policy	Pay full at Kedai Farmai RM 8.75/tab	**With subsidy card: RM 150/ month	Pay full at Kedai Farmasi RM4.50 (2.5mg) & RM4.60 (5mg)		

**Subsidy cards allocated for only 300 patients for the combination all the three drugs. Cards are with Cardiologists & Neurologists.

References :

- 1. Department of Pharmacy, PPUKM. (2014). PPUKM Drug Formulary- 6th Edition. Kuala Lumpur.
- 2. MIMS Drug Reference Concise Prescribing Information, 149th Edition, 2017.
- 3. Paulus Kirchhof, Stefano Benussi, et. Al., 2016 ESC Guidelines for the management of Atrial Fibrillation in collaboration with EACTS, European Heart Journal, Vol. 37, Issue 38, 2016, pg 2893-2962.
- 4. BNF 70, September 2015- March 2016, BMJ Group, 2015.
- 5. Product information leaflet of PRADAXA, XARELTO, and ELIQUIS.

Worldwide Discontinuation of Homatropine Eye Drop

DKSH has issue out a letter to inform the discontinuation of Homatropine Eye Drop. It is commonly use refraction and to treat uveitis. Below is the list of alternatives available in PPUKM to replace homatropine:

Alternatives	Indication	Dosage
ATRO pine 1% , (EX)- 0.01%, 0.25%, 0.5%	Uveitis	Child: 1 drop of 0.5% 3 times daily
Availability: Formulary Item Prescriber: All clinic		Adult: 1 drop 3 times daily
STATE MATERIAL STATES AND ATTOCHME STATES	Refraction	Child: 1 drop 2 times daily for 1-2 days before examination and 1 hr before examination
ALCONIA		Adult: 1 drop, repeated 1 hr before examination
TROPIcamide 1% Availability: Formulary Item Prescriber: All clinic	Refraction	Cycloplegic refraction: 1-2 drops, repeat in 5 mins. A further instillation may be necessary to prolong the effect after 20-30 mins. Fundoscopy: 1-2 drops, 15-20 mins prior to examination
CYCLOpentolate 1% (CYCLOGYL) Availability: Formulary Item Prescriber: All clinic	Diagnostic procedures	Adult: 1 drop followed by a second drop in 5 min. Child: 1 drop at the time of refraction, a second application 5 min later if necessary. If pre-treatment needed, 1-2 drops evening prior to examination.
CYCLOpentolate 0.2% + PHENYLephrine 1% Availability: Formulary Item Prescriber: A* (Ophthal Clinic/ward and NICU only) ONLY FOR CLINIC AND WARD USE. NOT FOR OUTPATIENT DISPENSING.	Production of mydriasis	Fundoscopy: 1 drop in each eye every 5-10 mins, not exceeding 3 times to produce rapid mydriasis. Notes: To minimise absorption in premature& small infants, apply pressure over the nasolacrimal sac for 2-3 mins following instillation. Observe infant closely for at least 30 mins.
PHENYLephrine 2.5% Availability: Formulary Item Prescriber: All clinic	Uveitis	Posterior Synechiae: 1 drop to upper surface of cornea and repeated as necessary, not more than 3 times.
2.5% MYOFEN' Previous high action of a common of a com	Refraction	Vasoconstriction & Pupil Dilation: 1 drop on upper limbus Surgery: 30-60 mins before operation Notes: Preceding with a suitable topical anesthetic helps to prevent pain and subsequent lacrimation.

	Onset of Action & Recovery					
Drugs	Mydriasis		Cycloplegia			
	Maximal	Recovery	Maximal	Recovery		
Homatropine	10-30 mins	6 hr to 4 days	30-90 mins	10–48 hr		
Atropine	30-40 mins	7-10 days	1-3 hr	6-12 days		
Tropicamide	20-40 mins	6-7 hr	20-35 mins	50 mins-6 hr		
Cyclopentolate	30-60 mins	24 hr	25-75 mins	6-24 hr		
Phenylephrine	15-60 mins	3 hr	NO cycloplegic effect			

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