

The new oral anticoagulant drugs (NOADs)

	Warfarin	Dabigatran	Rivaroxaban	Apixaban	Edoxaban
Brand name	Coumadin	Pradaxa	Xarelto	Eliquis	Savaysa
FDA approval for stroke	Before Christ	Oct 2010	Nov 2011	Dec 2012	Jan 2015
Dose					
Normal individual	Variable	150mg BID	20mg Daily _(with evening meal)	5mg BID	60mg Daily
Hepatic disease	Avoid in Child-P B & C*	Avoid in Child-P B & C*	Avoid in Child-P B & C*	Avoid in Child-P B & C*	Avoid in Child-P B & C*
Kidney disease	No adjustment	CrCl 15:30: 75mg BID	CrCl 15:50: 15mg Daily	2.5 BID if 2 of the following (age>80, Cr >1.5, Wt <60Kg)	CrCl 15:50: 30mg Daily
Costs (monthly)	8\$ (5mg)	357\$	357\$	357\$	300\$
Reversal	Vitamin K	Praxiband	None	None	None
Detailed information					
Target	Vit K factors	Factor II	Factor Xa	Factor Xa	Factor Xa
Time to peak	3-5 days	1h	3h	3h	1h
Half life	40h	12h	7-11h	12h	9-11h
Withholding before procedures	5 days	24h for minor surgery 48h for major surgery	24h for minor surgery 48h for major surgery	24h for minor surgery 48h for major surgery	
Interaction	Multiple	P-glycoprotein inhibitors**	CYP 3A4 inhibitors & P-glycoprotein inhibitors**	CYP 3A4 inhibitors & P-glycoprotein inhibitors**	CYP 3A4 inhibitors & P-glycoprotein inhibitors**
Renal clearance	0	80%	35%	25%	40%
Compared to warfarin:					
Risk of Stroke (RRR)		↓ (34%)	Non-inferior	↓ (20%)	
Risk of ICH (RR)		↓ (0.4)	↓	↓	
Risk of GI bleed (RR)		↑ (1.5)	↓	↓	
Involved Trials		RE-LY RELY-ABLE	ROCKET-AF Japanese AF	AVERROES ARISTOTLE	ENGAGE AF-TIMI

* avoid in Child Pugh B & C due to increased risk of hemorrhage

** P-glycoprotein inhibitors: include verapamil – Amiodarone – Clarithromycin

- Costs based on prices on 10/30/15 with no coupons or discounts.