Cardio Exam 4 Cheat Sheet

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Anticoagulants & Fibrinolytics

Generic	Brand	Class	Form
Heparin	UFH (abbre-viation)	HMWH	*PAR*
Enoxaparin	Lovenox	LMWH	*PAR*
Dalteparin	Fragmin	LMWH	*PAR*
Warfarin	Coumadin	Coumarin Derivative (Vit K Antag.)	*PO*
Dabigatran	Pradaxa	Direct Thrombin Inhibitor	*PO*
Fondap-arinux	Arixtra	Xa Inhibitor	*PAR*
Apixaban	Eliquis	Xa Inhibitor	*PAR*
Rivaro-xaban	Xarelto	Xa Inhibitor	*PO*
Edoxaban	Savaysa	Xa Inhibitor	*PO*
Betrixaban	Bevyxxa	Xa Inhibitor	*PO*
Alteplase t-PA	Activase Cathflo	Fibrinolytic	*IV Bolus & Infusion*
Reteplase rPA	Retavase	Fibrinolytic	*IV Bolus*
Tenect-eplase TNK-tPA	TNKase	Fibrinolytic	*IV Bolus*

Drug Site of Action in Coagulation Cascade

Class	Drugs	Site of Action
Unfractionated Heparin	Heparin	ATIII, Xa, IIa, VIIa, IXa, XIa, & XIIa
LMWH	Enoxaparin, Dalteparin	ATIII, Xa, IIa
Factor Xa Inhibitor	Fondaparinux	ATIII, Xa
Vit K Antagonist	Warfarin	II, VII, IX, & X
Oral Xa Inhibitors	Apixaban, Rivaroxaban, Edoxaban, Betrixaban	Xa
Direct Thrombin Inhibitors	Dabigatran	IIa (Thrombin)
Fibrinolytics	Alteplase Reteplase Tenectaplase	Fibrin

MOA for Therapies

Drug	MOA	Result
Heparin	↑ fxn of ATIII Significant inhibition of **Xa & IIa** Minor Inhibitor of **VIIa, IXa, XIa, & XIIa**	ACF become inactivated
Enoxaparin Dalteparin	↑ fxn of ATIII Significant inhibition of Xa Some inhibition of IIa	ACF become inactivated
Fondap-arinux	↑ fxn of ATIII Significant inhibition of Xa Inhibition **specific** to Xa	ACF become inactivated
Warfarin	Targets Vit K dependent clotting factors (II, VII, IX, & X) **Inhibits VKORC1**	↓ KH2 KH2 is needed as a cofactor for carboxylase enzyme to activate dependent clotting factors ↓ Vit K dependent clotting factors are produced ↓ F II, VII, IX, & X
Apixaban Rivaro-xaban Edoxaban Betrixaban	**Blocks the active site** for Factor Xa Does not affect antithrombin	**Direct inhibition** of Factor Xa
Dabigatran	**Directly** inhibits Factor IIa (Thrombin)	No conversion of fibrinogen to fibrin Prevents development of a thrombus
Alteplase (t-PA/r-tPA)	Converts **plasmin-ogen** to **plasmin**	Breaks up clot

ACF: Active Clotting Factors
VKORC1: Vit K Epoxide Reductase - *Enzyme responsible for converting Vit K epoxide to its reduced and active form (KH2)*
KH2: Active Vit K

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