

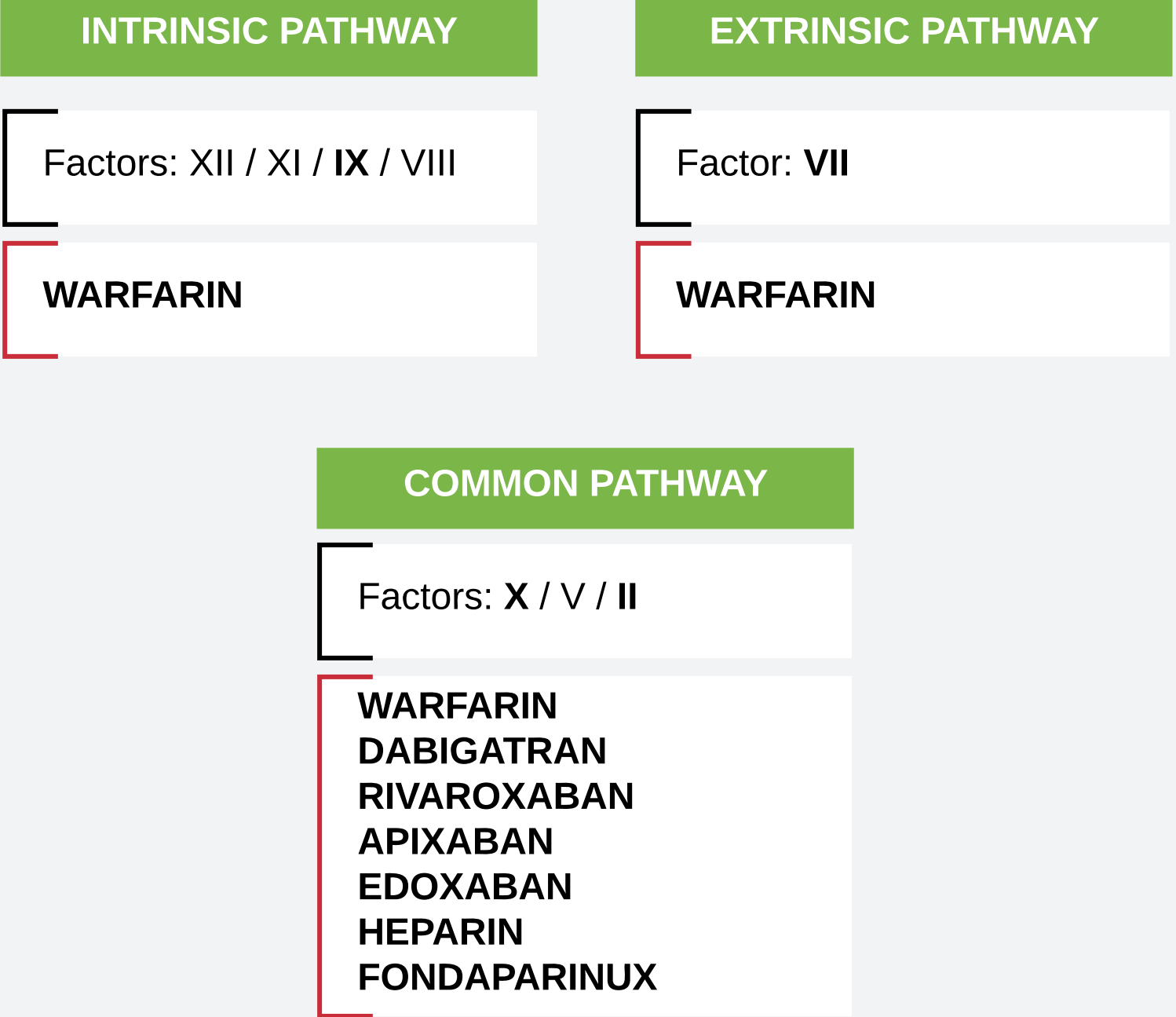
ANTI-COAGULANT MEDICATIONS

WARFARIN	Vitamin K-dependent clotting factor antagonist <ul style="list-style-type: none">II / VII / IX / X Vitamin K dependent regulatory factors antagonist <ul style="list-style-type: none">Protein C / Protein S / Protein Z Reversible: <ul style="list-style-type: none">Vitamin K / Octaplex / Beriplex
DABIGATRAN	Direct Factor IIa (Thrombin) inhibitor Reversible: <ul style="list-style-type: none">Idarucizumab
RIVAROXABAN APIXABAN EDOABAN	Direct Factor Xa inhibitor Reversible: <ul style="list-style-type: none">Andexanet alfa
HEPARINS UNFRACTIONATED LMWH ENOXAPARIN DALTEPARIN TINZAPARIN	Indirect Thrombin (Factor II) / Factor Xa / other Protease inhibitor <ul style="list-style-type: none">Binds to Anti-thrombin (AT III) inhibits factors Reversible: <ul style="list-style-type: none">Protamine Sulfate
FONDAPARINUX	Indirect specific Factor Xa inhibitor <ul style="list-style-type: none">Binds to Anti-thrombin (AT III) which inhibits Factor Xa Lower risk of Heparin-induced thrombocytopenia (HIT) No clear reversible agent

PRO-COAGULANT MEDICATIONS

TRANEXAMIC ACID	Directly inhibits conversion of Plasminogen to Plasmin (which is part of Fibrinolysis process)
DESMOPRESSIN	Synthetic ADH that increases Von Willebrand factor (vWF) production <ul style="list-style-type: none">vWF binds to Factor VIII (reducing degradation of Factor VIII)vWF binds to platelets leading to aggregation
PROTHROMBIN COMPLEX CONCENTRATE OCTAPLEX BERIPLEX	Contain clotting factors: <ul style="list-style-type: none">II / VII / IX / X Used in reversal of Vitamin K-dependent clotting factor antagonist
FRESH FROZEN PLASMA (FFP)	Contains all clotting factors in normal concentrations Has INR 1.6 so won't lower INR < 1.7
CRYOPRECIPITATE	Precipitated from slowly thawing and centrifuged FFP Contains high concentration: <ul style="list-style-type: none">Factor VIII / XIII / vWF / Fibrinogen

COAGULATION PATHWAY OVERVIEW



COAGULATION MEASUREMENT

PROTHROMBIN TIME (PT) Measures extrinsic and common pathway factors: <ul style="list-style-type: none">Factors I / II / V / VII / X INTERNATIONAL NORMALISED RATION (INR) Derived from PT due to variance of technique producing PT	INR used to monitor WARFARIN
ACTIVATED PARTIAL THROMBOPLASTIN TIME (APTT) Measures Intrinsic and Common pathway factors: <ul style="list-style-type: none">Factors I / II / V / VIII / IX / X / XI / XII	APTT used to Monitor HEPARIN