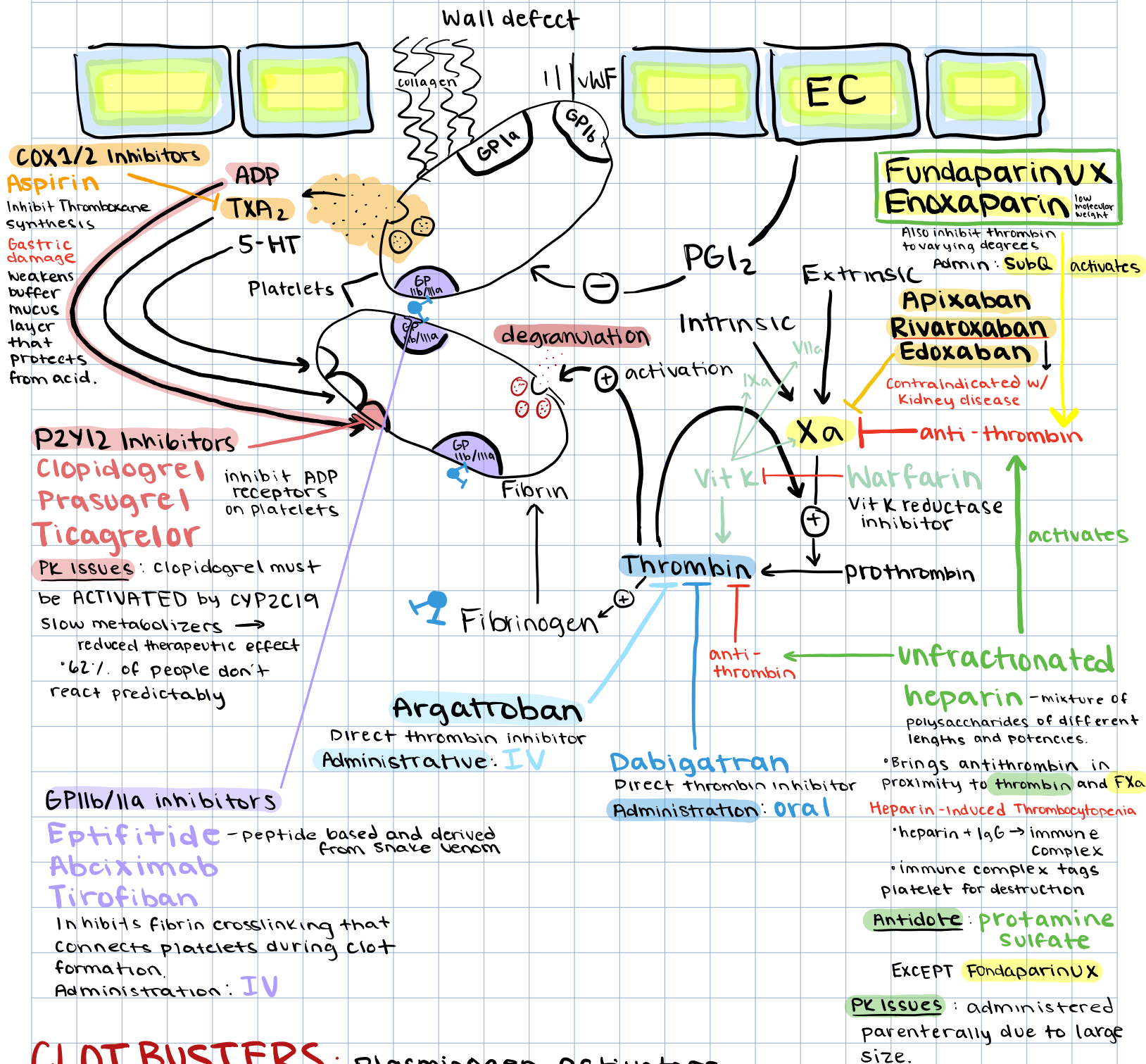


GOALS of venous thromboembolism treatment:

- ① Prevent thrombus extension
- ② Prevent embolization
- ③ Prevent Recurrence
- ④ Reduce mortality

Clot formation involves platelet aggregation and thrombin activation

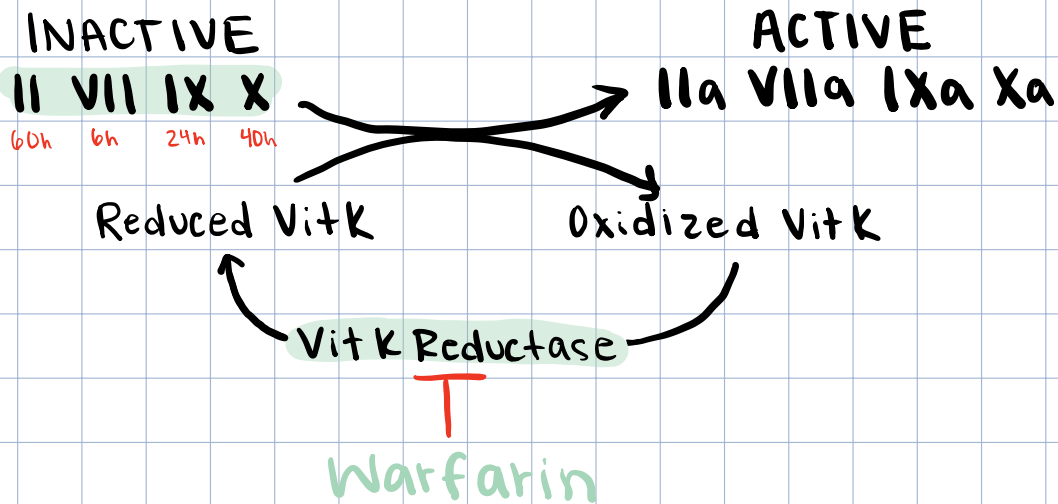


CLOT BUSTERS: plasminogen activators

Alteplase - plasminogen degrades fibrin clot as wounds heal. **t-PA** = tissue plasminogen activator

Meds are synthetic t-PAs. **Bleeding risk** - don't give to pts where clotting is important
 • not given for strokes caused by cerebral hemorrhage

WARFARIN - vitamin K Reductase Inhibitor



PK issues:

- Slow onset time → often needs heparin bridge
- Low V_d , high plasma protein binding → NSAIDs increase free Warfarin.

Non-therapeutic effects:

- inhibits anti-clotting factors, Proteins S and C (8hr half life)
↳ may produce paradoxical short-term increase in clot risk.

Immediate pro-clotting effect AND delayed anti-clotting effect

- thrombosis
- skin necrosis
- other clotting events

CHADS₂ score to determine risk in Afib

Patient specific factors: VKOR12 and CYP2C9 polymorphisms affect Warfarin dosing. Amiodarone.

INR = 2.0 - 3.3

Variability in diet makes Warfarin dosing hard

Toxicities: **PREGNANCY CATEGORY X**

Birth defects - nasal hypoplasia, depressed nasal bridge, groove between nostril and nasal tip, bone defects, shortened fingers, low birth weight, intellectual disability