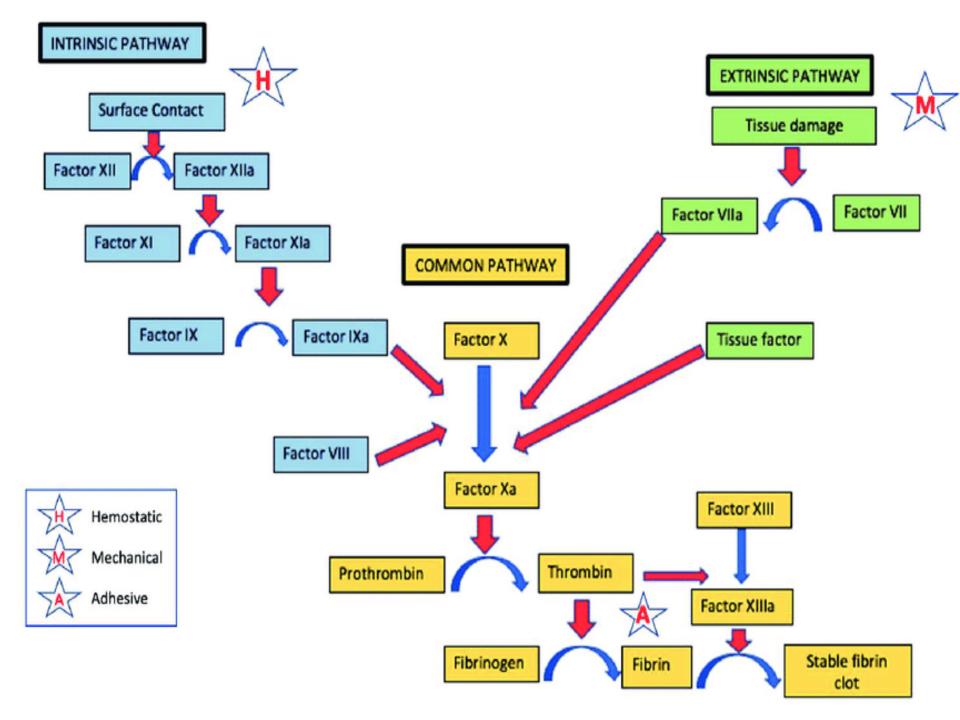
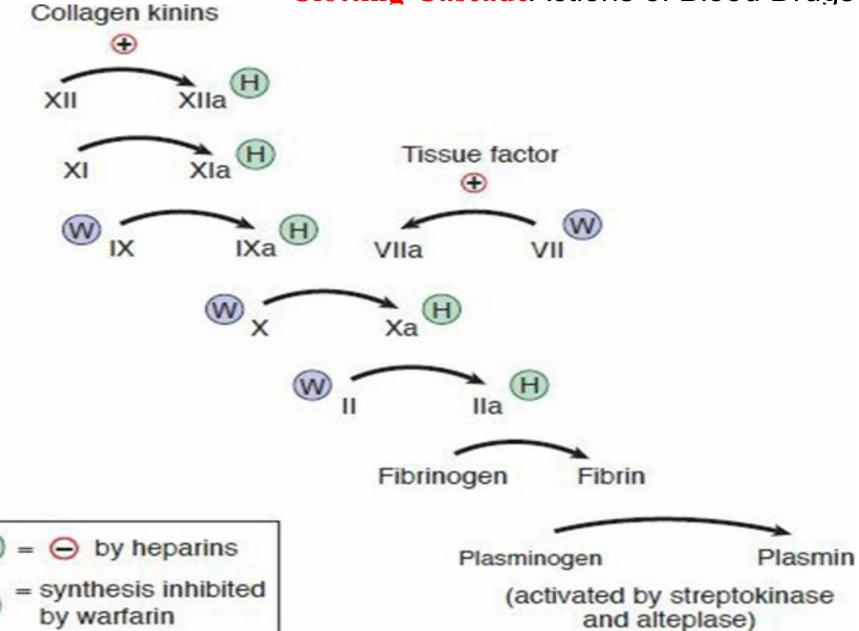
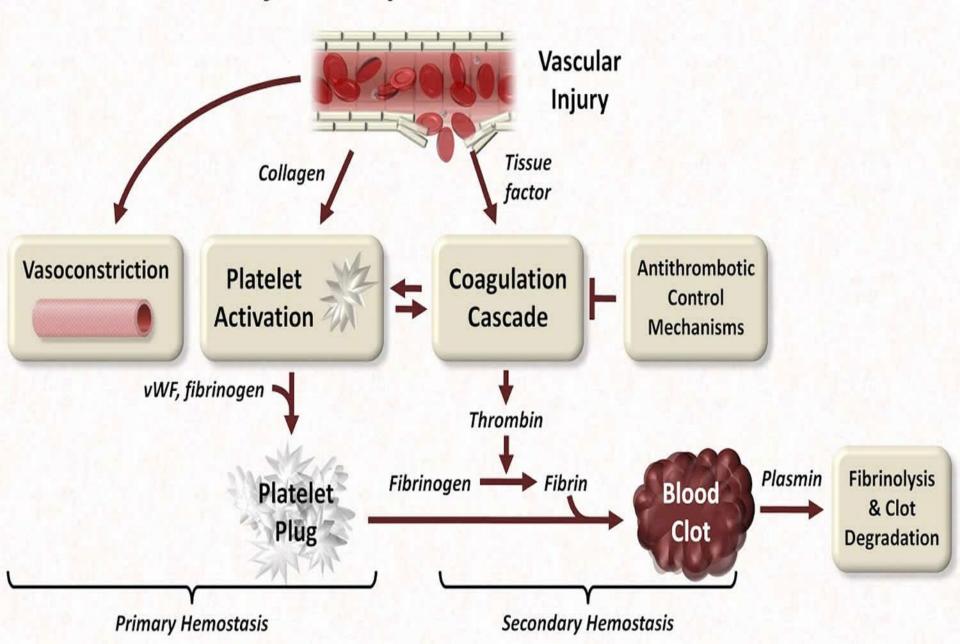
Anticoagulation Drugs Used in Blood Ass. Prof. Dr. abdulameer leelo



Clotting CascadeActions of Blood Drugs



Major Components of Hemostasis

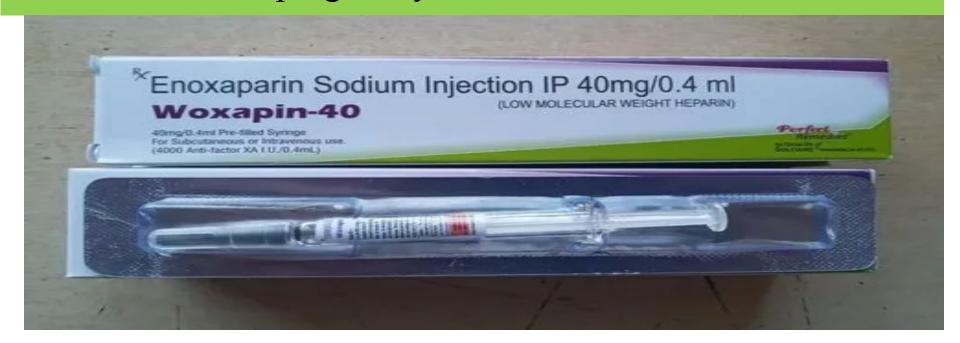


- ➤ <u>Unfractionated Heparin (UFH):</u> These include heparin, which inactivates various clotting factors.
- . **UFH** onset of action is rapid and has a short half-life.
- UFH can be monitored using activated partial thromboplastin (aPTT), activated clotting time, and anti-factor 10a activity.
- The recommended target ratio of aPTT is 1.5 to 2.2 times the patients' aPTT.





- Low Molecular Weight Heparin (LMWH): These are enoxaparin, dalteparin, tinzaparin, and nadroparin,
- which have a longer length of action.
- long half-life, and can be
- monitored using anti-factor 10a activity.
- However, monitoring is not indicated except in certain conditions like pregnancy and renal failure.





- ➤ Vitamin K Dependent Antagonists (VKA):
- Warfarin is one of the most common anticoagulants available.
- It acts by inhibiting vitamin K
- It has a narrow therapeutic window of dosing.
- It requires frequent monitoring with an international normalized ratio (INR), which is a measure of how long it takes blood to clot.

Non-Vitamin K Antagonist Oral Anti Coagulants

Direct Thrombin Inhibitors:

Dabigatran

Factor Xa Inhibitors:

Rivaroxaban, apixaban, edoxaban





Indications for Anticoagulation: :

- 1. Acute Myocardial Infarction (AMI)
- 2. Left Ventricular (LV) Thrombus.
- 3. Atrial Fibrillation
- 4. Left Ventricular Aneurysm
- 5. Prosthetic Heart Valve
- 6. Venous Thromboembolism Treatment
- 7. Venous Thromboembolism Prophylaxis
- 8. Treatment of Venous Thromboembolism in Patients with Cancer
- 9. Heparin-Induced Thrombocytopenia:
- 10.Pregnancy

Nursing, Interprofessional Team Monitoring

- . Monitoring **haemoglobin** serially
- . Monitoring heart rate and blood pressure, and electrocardiogram
- . Administering blood products if indicated
- . Monitor for indicators of internal bleeding like back, joint, or flank pain
- . Monitor for dark or smoky-coloured urine
- . Minimize unnecessary intravenous line placement or venipuncture

THANKS