

COAGULATION

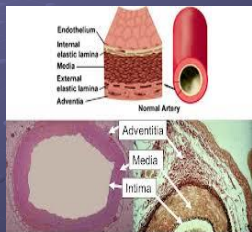
Hemostasis

HEMOSTASIS

- Primary Hemostatic Plug
- Secondary Homostatic Plug
- Thrombosis
- www.youtube.com/watch?v=8YjmE5UMYvY

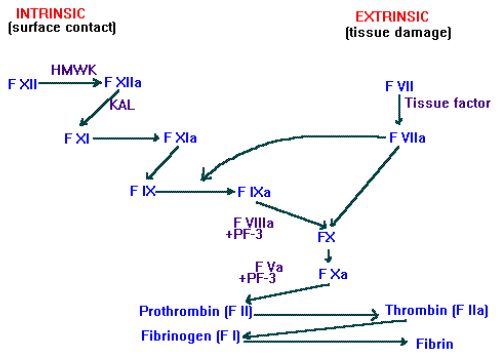
ROLE OF VASCULAR SYSTEM

- Structure
 - Arterioles
 - Venules
 - Capillaries
- Function
 - Vasoconstriction
- Endothelial Cells
 - Nonthrombotic
 - Thrombotic



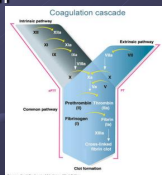
COAGULATION FACTORS

- Prothrombin Group
- Fibrinogen Group
- Contact Group



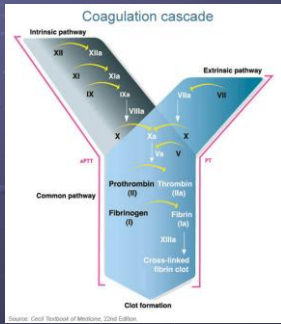
INTRINSIC PATHWAY

- Contact Factors
 - Factor XII
 - Prekallikrin
 - High Molecular Weight Kininogen
- Other Factors
 - Factor XI
 - Factor IX
 - Factor VIII
 - Von Willebrand Factor



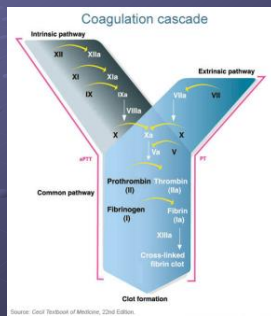
EXTRINSIC FACTOR

- Tissue Factor
- Factor VII



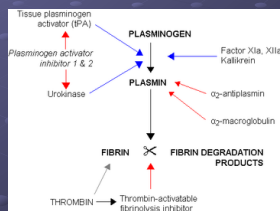
COMMON PATHWAY

- Factor X
- Factor V
- Prothrombin
- Fibrinogen
- Factor XIII



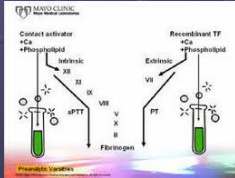
FIBRINOLYSIS

- Plasminogen and Plasmin
- Activators
- Inhibitors



LABORATORY TESTING

- Bleeding Time
- Platelet Aggregation
- Prothrombin Time
- Activated Partial Thromboplastin Time
- Thrombin Time



PLATELET DISORDERS THROMBOCYTOPENIA

- Increased Destruction – Immune or Nonimmune
- Decreased Production
- Splenic Sequestration
- Dilutional
- Multiple Mechanisms

PLATELET DISORDER THROMBOCYTOSIS

- Primary
- Secondary
- Transient

QUALITATIVE PLATELET DISORDERS



- Hereditary Adhesion
- Platelet Aggregation
- Hematological Disorders
- Drugs
- Cardiopulmonary Bypass Surgery

DISORDERS OF SECONDARY HEMOSTASIS

- Hereditary Disorders
- Disseminated Intravascular Coagulation