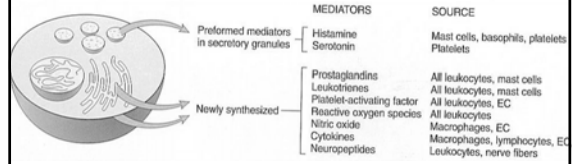


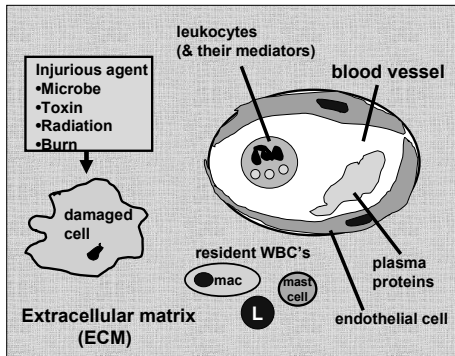
# Inflammation 2:

1. Chemical mediators
2. Systemic effects
3. Chronic inflammation

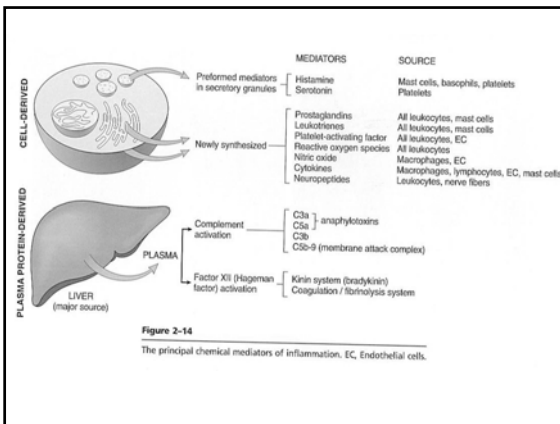
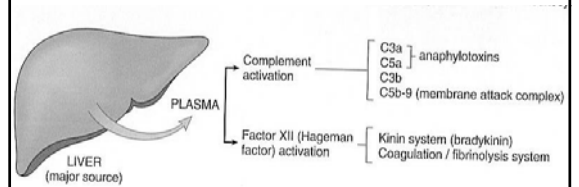
## Cell-Derived Mediators



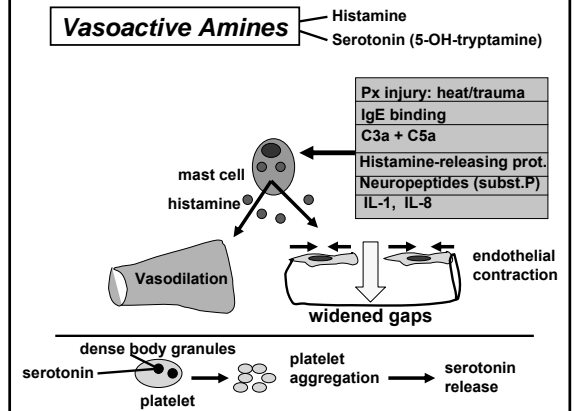
## Key Players in Inflammation

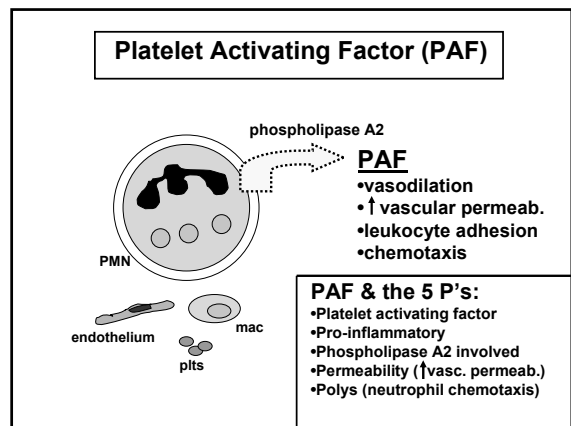
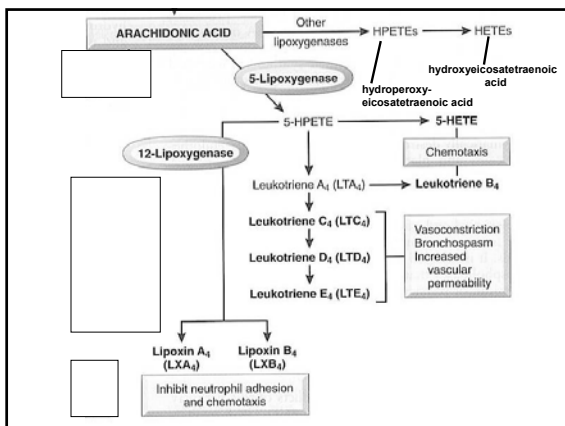
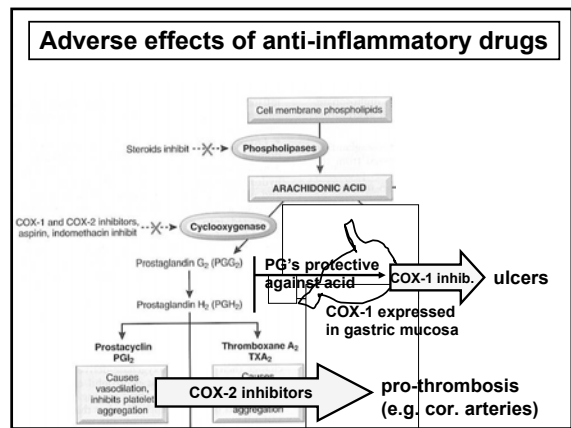
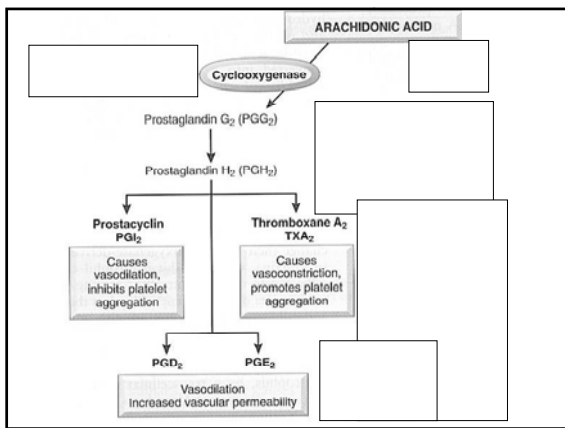
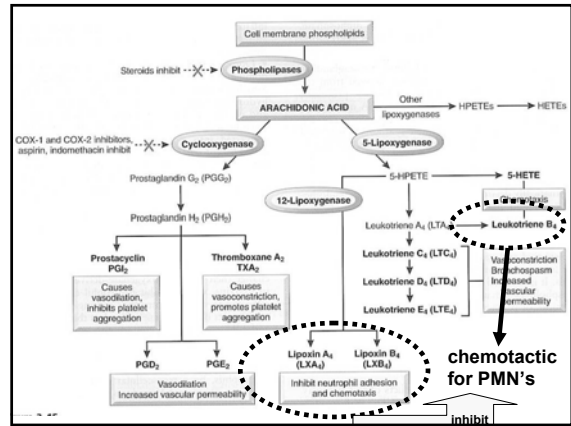
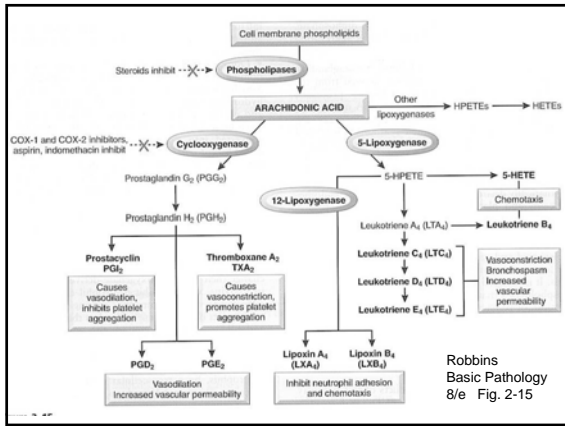


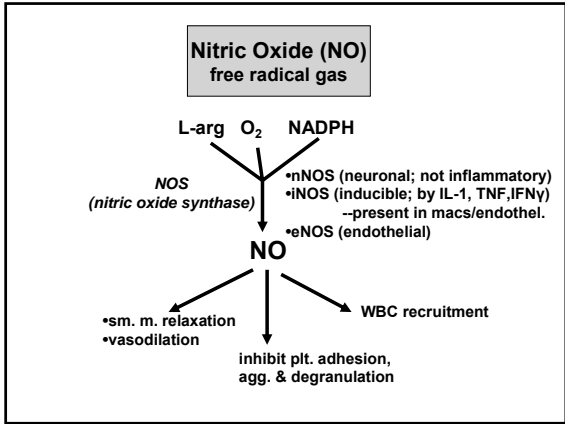
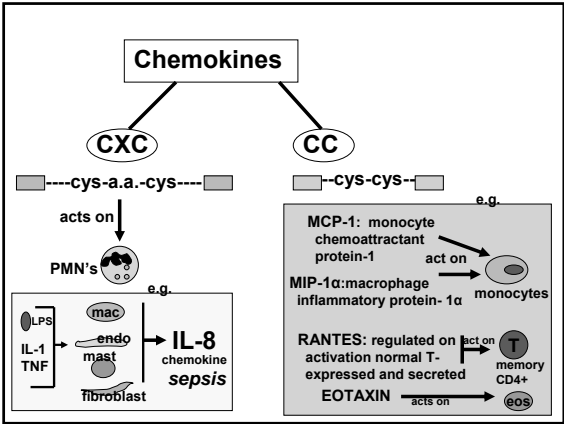
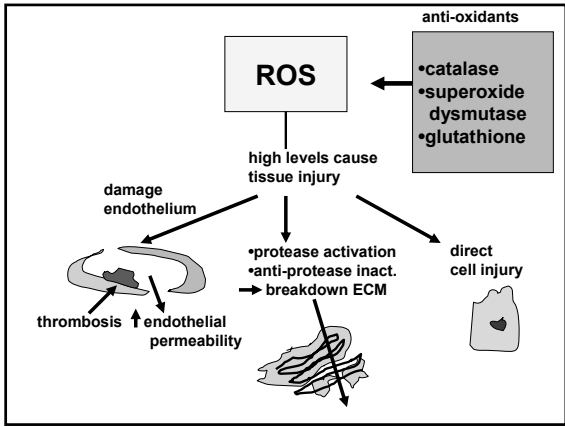
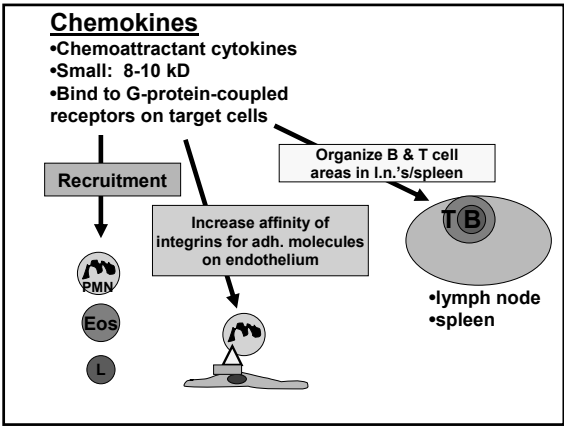
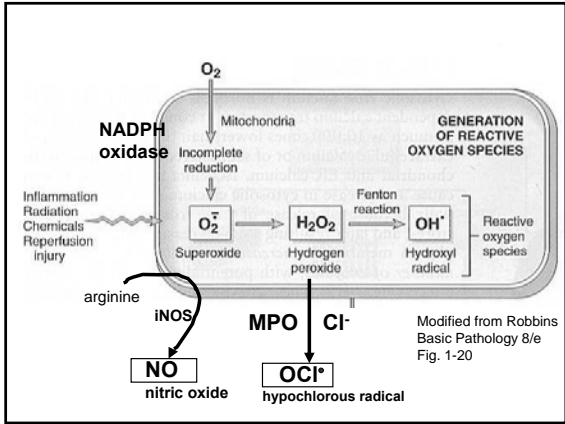
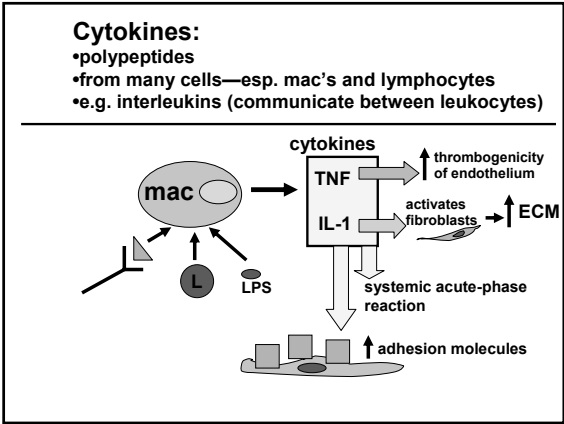
## Plasma Protein-Derived Mediators



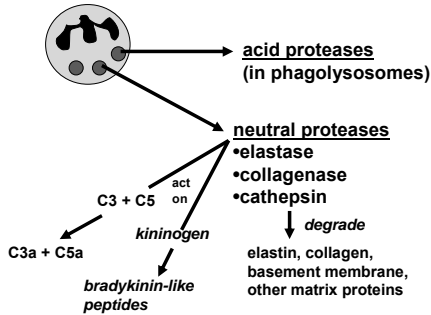
## Vasoactive Amines







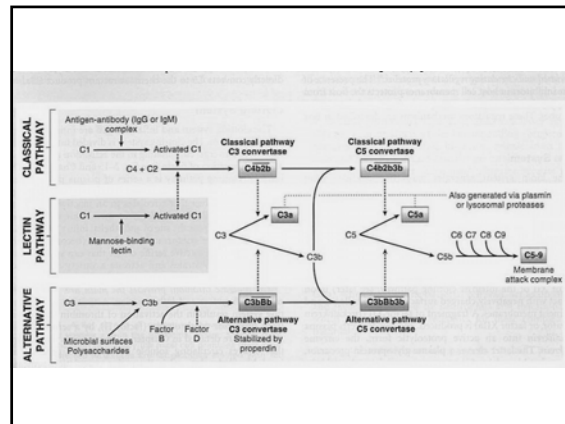
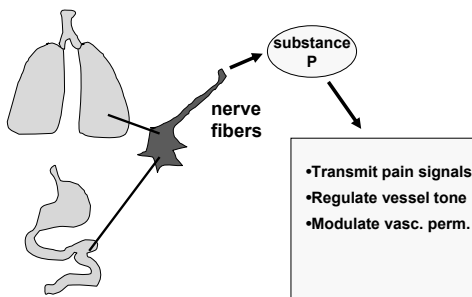
### Lysosomal enzymes of leukocytes



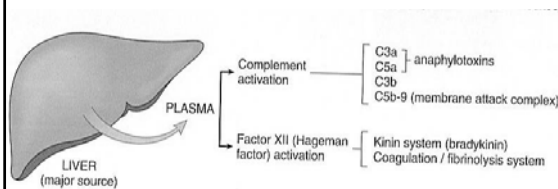
### Complement

- Present in plasma as 9 inactive proteins C1 – C9
- Progressive conversions from inactive to active forms (C1→C1a, C3→C3a + C3b, etc.)
- Membrane attack complex: C5-9 forms channel in lipid membranes → entry of fluid & ions, cell lysis
- Activation pathways:
  1. Classical (Ag-Ab complexes; IgG/IgM)
  2. Alternative (bacterial polysaccharides, e.g., endotoxin, cell wall components)
  3. Lectin (plasma mannose-binding lectin binds to mannose residues on microbes)

### Neuropeptides



### Plasma Protein-Derived Mediators



### Complement roles in inflammation

