Eicosanoids

I. Background
  A. arachidonic acid (AA)
    1. phospholipase A_2
  B. paracrine

II. Prostaglandins
  A. History
  B. Description
  C. Function
  D. cyclooxygenase
    1. prostaglandin H_2 (PGH_2)
  E. Blocking cyclooxygenase - two isoforms of cox - 60-65% homologous at aa level
    1. cox 1
    2. cox 2
    3. aspirin
    4. cox 2 inhibitors

III. Thromboxanes
  A. Description
  B. Function
  C. Synthesis
    1. thromboxane synthase

IV. Prostacyclins
  A. Description
  B. Function
  C. Synthesis
    1. prostacyclin synthase

V. Leukotrienes
  A. Description
  B. Function
  C. Synthesis
    1. leukotriene synthase
  D. Actions