

# Pharmacology 1 and Prescription Knowledge

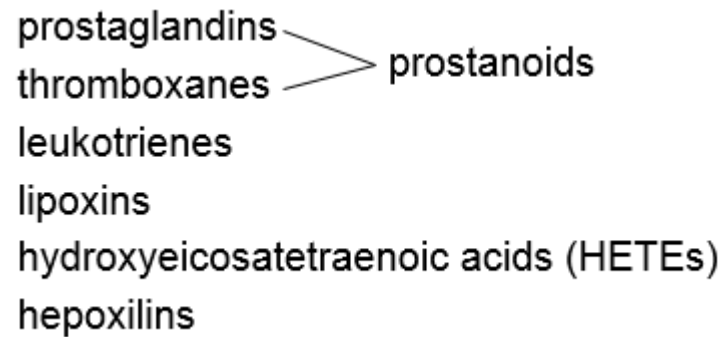
## Local hormones

Refer lecturer for course updated notes.

Students are obliged to follow the courses for evaluation process and presented notes are preliminary drafts for the whole evaluation process.

- Introduction of local hormones
- Eicosanoids
- Cytokines
- Histamine
- 5-Hydroxytryptamine (Serotonin)
- Nitric oxide
- Endothelin

- Eicosanoids



- Biosynthesis
- Main sites of eicosanoid biosynthesis
- Main steps of eicosanoid biosynthesis
- Biological effects of eicosanoids

- Nature and Functions of Prostaglandins
- Pathological functions of prostaglandins and connections with stress
- Some physiological functions of prostaglandins with connections to stress

- Synthesis and biological activity of prostaglandin analogues
- Model for Endocrine control of pulsatile PGF<sub>2</sub>α secretion during luteolysis in sheep

- Histamine

- Synthesis
- Storage
- Release
- Histamine receptors and effects

- Histamine H1 antagonists
  - Mechanisms and effects
  - Clinical use
  - Toxicity and interaction
- Histamine H2 antagonists

- Serotonin ( 5-Hydroxytryptamine, 5-HT )
- 5HT1 receptors
- 5HT2 receptors
- 5HT3 receptors
- 5-HT antagonists
- Mechanisms and effects
- Clinical use
- Toxicity



- Ergot alkaloids
- Toxicity

- Vasoactive peptides
- angiotensin, bradykinin, atrial natriuretic peptide, vasoactive intestinal peptide, substance P, calcitonin gene-related peptide, vasopressin, glucagons, and opioid peptides
- Mechanism of actions

- Angiotensin and its antagonists
- Bradykinin
- Atrial natriuretic peptide
- Endothelin
- Vasoactive Intestinal Peptide, Substance P, Calcitonin Gene-related Peptide And Neuropeptide Y