

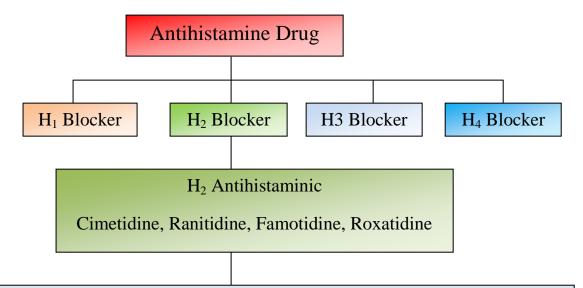
<sup>\*</sup> Diagrams and explainations are made by Solution-Pharmacy to make you better understand the concept

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## Classification and Mechanism of Action for Antihistamine Drug

Key Point to Understand- 'Histamine' is made up of two simple words- Histo (Tissue) + Amine. If we add them together the meaningful sentence will be- Amine released from tissue. Histamine is stored and release from mast cells. Other tissue like- Skin, gastric and intestinal mucosa, lungs, liver and placenta. Histamine receptors are of basically 02 types- (1) H1 and H2. H3 is also available. Histamine initiate allergic reaction thus antihistaminic drugs give relief from allergy by blocking any of the histamine receptor.



## H<sub>2</sub> Receptor antagonist and regulation of gastric acid secretion

Gastric acid (Hcl) is secreted by the parietal cells from the mucosa of gastrointestinal tract, and that is stimulated by acetylcholine, histamine, and gastrin. The receptor medicated binding of acetylcholine, histamine, and gastrin result into activation of protein kinase which ultimately stimulate the  $H^+/K^+$  ATP. Thus it is very simple that if someone is willing to inhibit the release of gastric acid he or she has to inhibit the binding of any of the above agent to their respective receptor. So the  $H_2$  Receptor antagonist doesn't allow the agent to bind to the receptor and inhibit the release of gastric acid.

