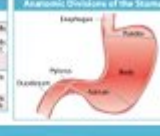


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DRUG THERAPY FOR PEPTIC ULCERS Howard Shen, MD, PhD																																			
<p>Basic Principles of Gastric Acid Secretion Based on the Gastric Gland (Parietal Cells) and the Gastric Mucosa (Gastric Epithelium)</p> <table border="1"> <thead> <tr> <th>Component</th><th>Stimulus</th><th>Receptor/Pathway</th><th>Major Effects</th></tr> </thead> <tbody> <tr> <td>Histamine</td><td>H₂ histamine</td><td>H₂ receptor</td><td>↑ cAMP → ↑ H⁺ secretion</td></tr> <tr> <td>Acetylcholine</td><td>Acetylcholine</td><td>M₃ receptor</td><td>↑ IP₃ → ↑ Ca²⁺ → ↑ H⁺ secretion</td></tr> <tr> <td>Gastrin</td><td>Gastrin</td><td>CCK₂ receptor</td><td>↑ cAMP → ↑ H⁺ secretion</td></tr> </tbody> </table> <p>Regulation of Gastric Acid Secretion</p> <table border="1"> <thead> <tr> <th>Regulator</th><th>Effect</th><th>Receptor/Pathway</th><th>Major Effects</th></tr> </thead> <tbody> <tr> <td>Insulin</td><td>↓ H⁺ secretion</td><td>Insulin receptor</td><td>↓ cAMP → ↓ H⁺ secretion</td></tr> <tr> <td>Growth hormone</td><td>↑ H⁺ secretion</td><td>GHRH receptor</td><td>↑ cAMP → ↑ H⁺ secretion</td></tr> <tr> <td>Thyroid hormone</td><td>↑ H⁺ secretion</td><td>Thyroid hormone receptor</td><td>↑ cAMP → ↑ H⁺ secretion</td></tr> </tbody> </table> <p>Anatomical Diagram of the Stomach</p> 				Component	Stimulus	Receptor/Pathway	Major Effects	Histamine	H ₂ histamine	H ₂ receptor	↑ cAMP → ↑ H ⁺ secretion	Acetylcholine	Acetylcholine	M ₃ receptor	↑ IP ₃ → ↑ Ca ²⁺ → ↑ H ⁺ secretion	Gastrin	Gastrin	CCK ₂ receptor	↑ cAMP → ↑ H ⁺ secretion	Regulator	Effect	Receptor/Pathway	Major Effects	Insulin	↓ H ⁺ secretion	Insulin receptor	↓ cAMP → ↓ H ⁺ secretion	Growth hormone	↑ H ⁺ secretion	GHRH receptor	↑ cAMP → ↑ H ⁺ secretion	Thyroid hormone	↑ H ⁺ secretion	Thyroid hormone receptor	↑ cAMP → ↑ H ⁺ secretion
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Synopsis

An integrated mini review of the drug therapy for peptic ulcers, illustrated with visually appealing tables and diagrams. A quick visual aide for the course study and board review

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