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MemoCharts Pharmacology: Drug Therapy For Peptic Ulcers (Review Chart) (Paperback)

MemoCharts[®] Pharmacology An integrated approach DRUG THERAPY FOR PEPTIC ULCERS Howard Shen, MD, PhD																															
General Principles of Gastric Acid Secretion Gastric acid secretion is controlled by a complex system of neural and hormonal factors. The primary stimulus for gastric acid secretion is the vagus nerve (parasympathetic), which releases acetylcholine (ACh) at the gastric mucosa. ACh binds to muscarinic receptors (M ₃) on the parietal cells, leading to the release of histamine (H ⁺) from the enterochromaffin-like (ECL) cells. Histamine then binds to H ₂ receptors on the parietal cells, leading to the release of gastric acid (HCl).		Anatomical Overview of the Stomach 																													
Classification of Peptic Ulcers Peptic ulcers are classified into two main types: gastric ulcers and duodenal ulcers. Gastric ulcers are located on the stomach wall, while duodenal ulcers are located in the first part of the small intestine (duodenum).		Drug Therapy The primary goal of drug therapy for peptic ulcers is to reduce gastric acid secretion and promote healing of the ulcer. The main classes of drugs used are:																													
Drugs Used in Peptic Ulcers <table border="1"> <thead> <tr> <th>Classification (e.g.)</th><th>Mechanism of Action</th><th>Clinical Applications</th><th>Major Side Effects</th></tr> </thead> <tbody> <tr> <td>1. H₂ antagonists (e.g., ranitidine)</td><td>Block histamine H₂ receptors on the parietal cells, reducing gastric acid secretion.</td><td>First-line therapy for healing of peptic ulcers.</td><td>Headache, dizziness, constipation.</td></tr> <tr> <td>2. H₂ blockers (e.g., famotidine)</td><td>Block histamine H₂ receptors on the parietal cells, reducing gastric acid secretion.</td><td>First-line therapy for healing of peptic ulcers.</td><td>Headache, dizziness, constipation.</td></tr> <tr> <td>3. PPIs - healing (e.g., omeprazole)</td><td>Block gastric acid secretion by irreversibly inhibiting H⁺ secretion from the parietal cells.</td><td>First-line therapy for healing of peptic ulcers.</td><td>Headache, dizziness, constipation.</td></tr> <tr> <td>4. Antacids (e.g., aluminum hydroxide)</td><td>Neutralize gastric acid, providing temporary relief of symptoms.</td><td>Used for symptomatic relief of acid-related symptoms.</td><td>Constipation, diarrhea, and other gastrointestinal side effects.</td></tr> <tr> <td>5. Prokinetics (e.g., metoclopramide)</td><td>Enhance gastric motility, promoting healing of the ulcer.</td><td>Used for patients with delayed gastric emptying.</td><td>Headache, dizziness, constipation.</td></tr> <tr> <td>6. Antibiotics (e.g., amoxicillin)</td><td>Eliminate H. pylori infection, which is a major cause of peptic ulcers.</td><td>Used in combination with acid-reducing drugs for H. pylori eradication.</td><td>Headache, dizziness, constipation.</td></tr> </tbody> </table>		Classification (e.g.)	Mechanism of Action	Clinical Applications	Major Side Effects	1. H₂ antagonists (e.g., ranitidine)	Block histamine H ₂ receptors on the parietal cells, reducing gastric acid secretion.	First-line therapy for healing of peptic ulcers.	Headache, dizziness, constipation.	2. H₂ blockers (e.g., famotidine)	Block histamine H ₂ receptors on the parietal cells, reducing gastric acid secretion.	First-line therapy for healing of peptic ulcers.	Headache, dizziness, constipation.	3. PPIs - healing (e.g., omeprazole)	Block gastric acid secretion by irreversibly inhibiting H ⁺ secretion from the parietal cells.	First-line therapy for healing of peptic ulcers.	Headache, dizziness, constipation.	4. Antacids (e.g., aluminum hydroxide)	Neutralize gastric acid, providing temporary relief of symptoms.	Used for symptomatic relief of acid-related symptoms.	Constipation, diarrhea, and other gastrointestinal side effects.	5. Prokinetics (e.g., metoclopramide)	Enhance gastric motility, promoting healing of the ulcer.	Used for patients with delayed gastric emptying.	Headache, dizziness, constipation.	6. Antibiotics (e.g., amoxicillin)	Eliminate H. pylori infection, which is a major cause of peptic ulcers.	Used in combination with acid-reducing drugs for H. pylori eradication.	Headache, dizziness, constipation.	Pharmacokinetics The pharmacokinetics of the drugs used in peptic ulcer therapy are as follows:	
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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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Customer Reviews

Im sure this is helpful to the medical profession. I bought for my dad as a quick reference and it only contains medical terms. Hard to understand.

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