

Staff Education

Presentation: GERD (Gastroesophageal Reflux Disease) and Famotidine

Student Name

College of Nursing & Health
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iversity

NUR641:Advanced Pathophysiol
ogy and Pharmacology for
Nurse Educators

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astle Due Date

GERD and Famotidine

Disease Process GERD

- Role of stomach acid in GERD
- Symptoms
- Complications such as esophagitis or Barrett's esophagus.




Drug Class

- H2 Receptor Antagonists
- Works by blocking histamine H2 Receptors



Pharmacokinetics of Famotidine

Absorption: Famotidine is absorbed in the small intestine.



Metabolism: Minimal hepatic metabolism.



Distribution: Well, distributed in body tissues.



Excretion: Primarily excreted unchanged in urine.

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Pharmacodynamics of Famotidine

- Mechanism of Action: Blocks H₂ receptors on parietal cells, reducing gastric acid secretion.
- Effect: Decreased gastric acidity, providing relief from GERD symptoms.

Side Effects, Adverse Reactions, and Safety Issues



Common Side Effects:
Headache, dizziness,
constipation.

Adverse Reactions: Rare but
may include arrhythmias
and hypersensitivity
reactions.

Safety Issues: Caution in
patients with renal
impairment.

Ethnic, Cultural, and Genetic Considerations

Genetic Differences: Variability in drug metabolism, particularly in renal impairment patients.

Cultural Considerations: Dietary habits affecting GERD management.

Ethnic Considerations: Some populations may have a higher prevalence of GERD, influencing drug efficacy.

Monitoring for Desired Effect

Effectiveness: Monitor symptom relief (e.g., heartburn, regurgitation).

Safety: Regularly assess renal function, especially in elderly or renal-impaired patients.

Patient Education: Importance of adherence and lifestyle modifications.

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