

Pathophysiology of the digestive system

Nausea and Vomiting

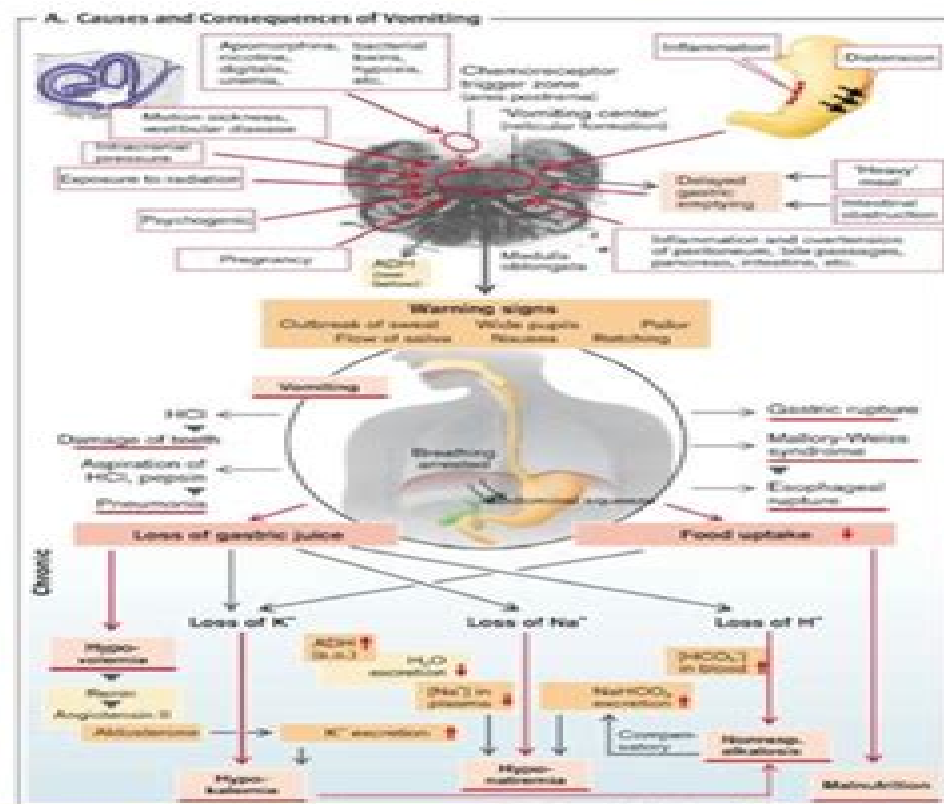
Vomiting, with its precursor warning signs of nausea and retching, is mainly a protective reflex, but also an important symptom.

Chronic vomiting causes severe disorders. The vomiting center, located in the medulla oblongata, is reached, among others, via chemoreceptors of the area postrema on the bottom of the 4th ventricle (chemoreceptor trigger zone [CTZ]), where the blood-brain barrier is less tight. CTZ is activated by dopamine agonists such as apomorphine (therapeutic emetic), by numerous drugs or toxins, for example, digitalis glycosides, nicotine, staphylococcal enterotoxins as well as hypoxia, uremia, and diabetes mellitus. The

CTZ cells also contain receptors for neurotransmitters (e.g., epinephrine, serotonin, GABA, substance P), allowing neurons access to the CTZ. However, the vomiting center can also be activated without mediation by the CTZ, such as during unphysiological stimulation of the organs of balance (kinesia [motion sickness]). In addition, diseases of the inner ear (vestibule), such as Ménière's disease, cause nausea and vomiting.

The vomiting center is activated from the gastrointestinal tract via vagal afferents:

– on overstretching of the stomach or damage to the gastric mucosa, for example, by alcohol;



Pathophysiology Digestive System Disorders Study Guide

**Susan C. deWit, Holly Stromberg, Carol
Dallred**



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Table of Contents Pathophysiology Digestive System Disorders Study Guide

1. Understanding the eBook Pathophysiology Digestive System Disorders Study Guide
 - The Rise of Digital Reading Pathophysiology Digestive System Disorders Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Pathophysiology Digestive System Disorders Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pathophysiology Digestive System Disorders Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pathophysiology Digestive System Disorders Study Guide

- Personalized Recommendations
- Pathophysiology Digestive System Disorders Study Guide User Reviews and Ratings
- Pathophysiology Digestive System Disorders Study Guide and Bestseller Lists
- 5. Accessing Pathophysiology Digestive System Disorders Study Guide Free and Paid eBooks
 - Pathophysiology Digestive System Disorders Study Guide Public Domain eBooks
 - Pathophysiology Digestive System Disorders Study Guide eBook Subscription Services
 - Pathophysiology Digestive System Disorders Study Guide Budget-Friendly Options
- 6. Navigating Pathophysiology Digestive System Disorders Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Pathophysiology Digestive System Disorders Study Guide Compatibility with Devices
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- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pathophysiology Digestive System Disorders Study Guide
 - Highlighting and Note-Taking Pathophysiology Digestive System Disorders Study Guide
 - Interactive Elements Pathophysiology Digestive System Disorders Study Guide
- 8. Staying Engaged with Pathophysiology Digestive System Disorders Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pathophysiology Digestive System Disorders Study Guide
- 9. Balancing eBooks and Physical Books Pathophysiology Digestive System Disorders Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pathophysiology Digestive System Disorders Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pathophysiology Digestive System Disorders Study Guide
 - Setting Reading Goals Pathophysiology Digestive System Disorders Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pathophysiology Digestive System Disorders Study Guide

- Fact-Checking eBook Content of Pathophysiology Digestive System Disorders Study Guide
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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