

Pathophysiology of the digestive system

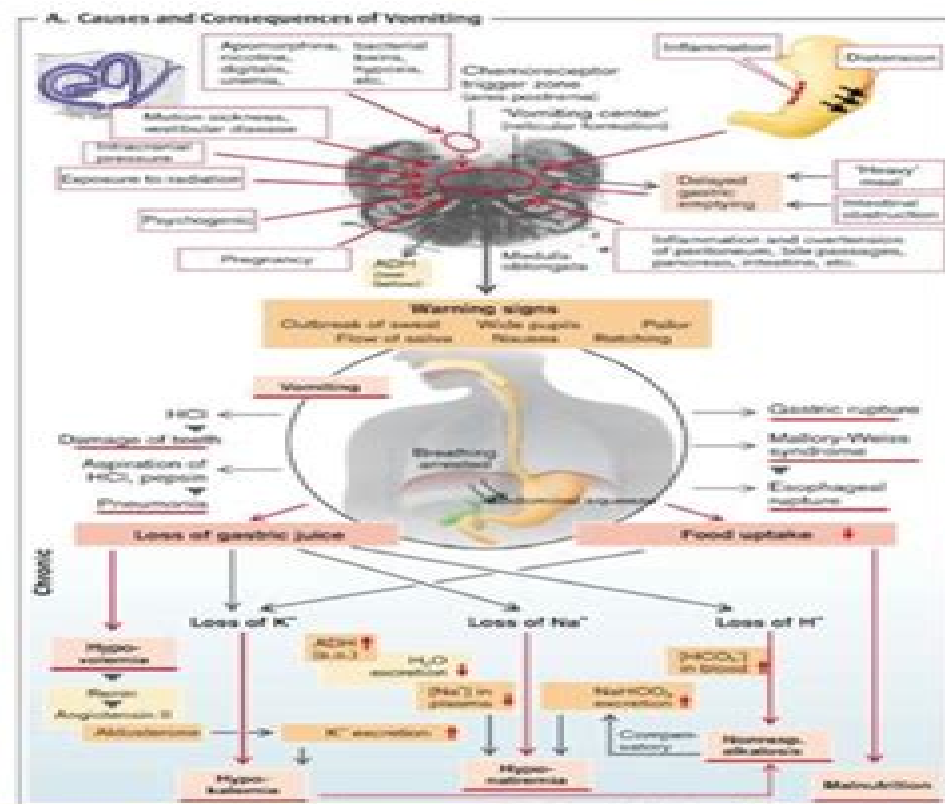
Nausea and Vomiting

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

Patricia N. Konrad, John E. Ertl



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Pathophysiology for the Health Professions Barbara E. Gould, 2002 Pathophysiology for the Health Professions is a fundamental pathophysiology text designed specifically for students in any health professions field It emphasizes the basic principles of disease processes in a clinical context supported by concrete examples The first two sections cover basic concepts of pathophysiologic processes such as inflammation and infections as well as conditions that may alter a patient's health status by mimicking pathophysiological processes or affecting the process of disease The last section on disorders of the body systems highlights commonly occurring problems and selected topics relevant to each system Chapters in this section follow a consistent format including a review of anatomy and physiology concepts of disease and specific disorders Key terms at the beginning of each chapter help to identify new vocabulary Think About questions at the end of the Sections help to focus students on the key points of what they've just learnt Short answer study questions at the end of each Chapter give students the chance to measure their own understanding of the material Case Studies at the end of the Body Systems Section helps to build critical thinking skills and encourage practical application of knowledge Tables that condense important information makes reference easier Appendices present commonly used reference topics Full colour illustrations coding through the text for easier understanding of the course of the disease Challenge boxes for follow up discussions on normal function Emergency Care sections throughout the book that help to describe emergency systems necessary to specific situations Warning Signs these describe signs and symptoms of diseases and disorders that students should be alert to A glossary that defines all key terms from each chapter underlining the new terminology for easy revision *Mucosal Vaccine Delivery Systems: The Future of Immunization (Part 1)* Shaweta Sharma, Aftab Alam, Akhil Sharma, 2025-07-04 Mucosal Vaccine Delivery Systems The Future of Immunization Part I presents a pioneering exploration into the realm of mucosal vaccination covering innovative delivery platforms immunological mechanisms and their diverse applications in human and veterinary medicine This comprehensive volume examines the regulatory economic and technological landscapes shaping mucosal vaccine development highlighting their pivotal role in combating infectious diseases chronic ailments and advancing cancer immunotherapy Key Features Detailed insights into nasal oral pulmonary gastrointestinal and urogenital vaccination Analysis of mucosal vaccines in pediatric and elderly healthcare Exploration of adjuvants bioprocessing challenges and commercialization trends Contributions from leading researchers in the field *Practical Points in Pediatrics* John E.

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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Pathophysiology Digestive System Disorders Study Guide.

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