

Pathophysiology of the digestive system

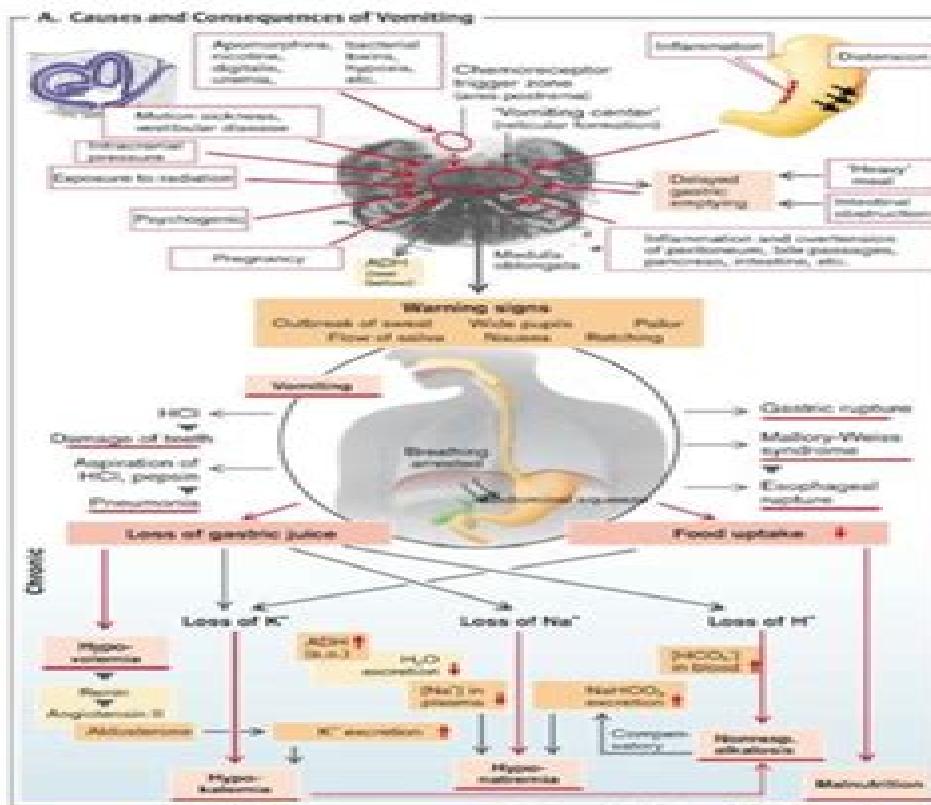
Nausea and Vomiting

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** (kinesthesia [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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