

Pathophysiology of the digestive system

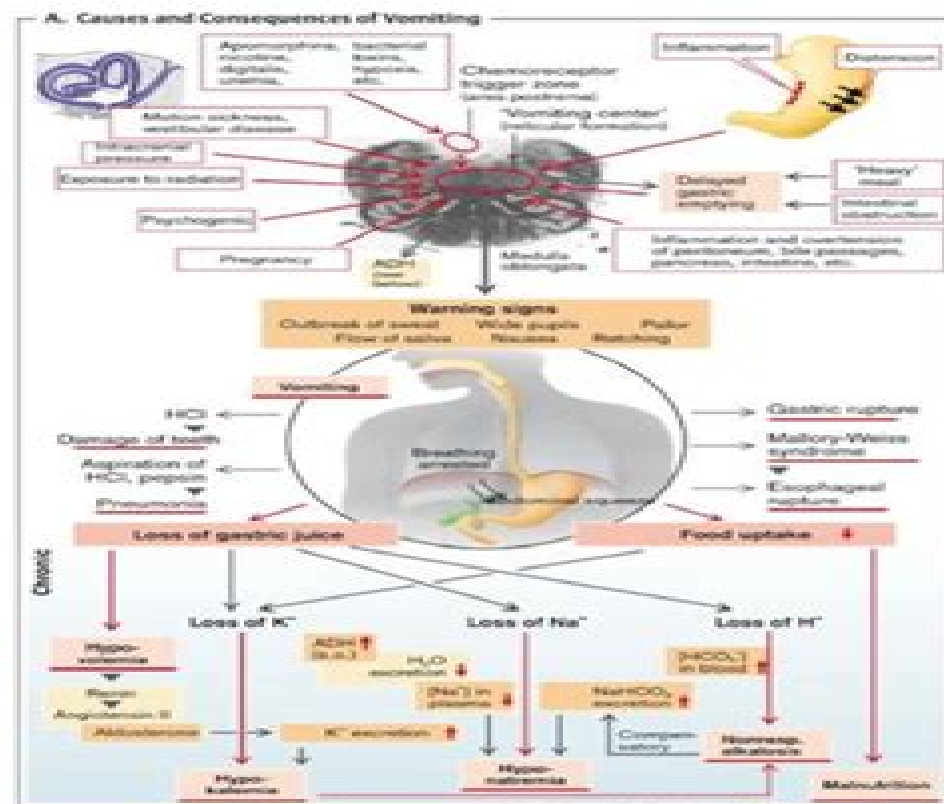
Nausea and Vomiting

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

J Dewey



Pathophysiology Digestive System Disorders Study Guide:

Unveiling the Power of Verbal Art: An Emotional Sojourn through **Pathophysiology Digestive System Disorders Study Guide**

In a global inundated with monitors and the cacophony of immediate connection, the profound power and psychological resonance of verbal artistry frequently diminish into obscurity, eclipsed by the regular barrage of noise and distractions. However, located within the lyrical pages of **Pathophysiology Digestive System Disorders Study Guide**, a charming work of literary beauty that pulses with organic emotions, lies an wonderful trip waiting to be embarked upon. Composed by way of a virtuoso wordsmith, that mesmerizing opus instructions visitors on a mental odyssey, gently revealing the latent possible and profound impact embedded within the complicated internet of language. Within the heart-wrenching expanse with this evocative analysis, we shall embark upon an introspective exploration of the book is central themes, dissect its captivating publishing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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