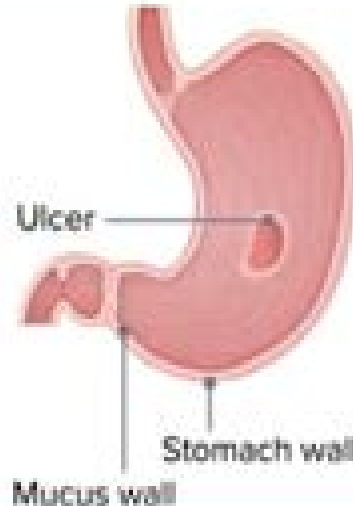
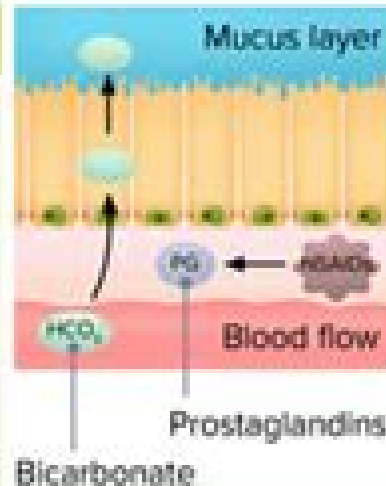


# PEPTIC ULCER DISEASE & TREATMENT



## Normal GI tract

- **Mucus:** secreted by mucosal cells, coats the lining
- **Bicarbonate:** secreted by epithelial cells, neutralizes gastric acid
- **Blood flow:** adequate, nourishes mucosa
- **Prostaglandins:** stimulate mucus and bicarbonate secretion



## Peptic ulcer disease (PUD)

- Imbalance between mucus, bicarbonate, blood flow, or prostaglandins that leads to damage
- Open sores (ulcers) develop in the lining of stomach and small intestine.
- PUD can lead to perforation/GI bleed.

## Causes



### *H. pylori:*

bacteria that hides between mucus and epithelial cells; most common cause of PUD

**Treatment:** antibiotics



### NSAIDs:

inhibit prostaglandins, decrease mucus and bicarbonate secretion

**Treatment:** Decrease use.



### Gastric acid:

injuries the mucosal cells, activates pepsin (stomach enzyme)

**Treatment:** histamine (H2) receptor antagonists, proton pump inhibitors (PPI), mucosal protectants, antacids



### Smoking & alcohol:

increase gastric acid, reduce bicarbonate production, delay healing

**Treatment:** Decrease use.

# Peptic Ulcer Disease Mechanisms And Management

**Allan H. Goroll, Albert G. Mulley**



## **Peptic Ulcer Disease Mechanisms And Management:**

*Ocular Disease: Mechanisms and Management E-Book* Leonard A. Levin, Daniel M. Albert, 2010-03-03 Ocular Disease a newly introduced companion volume to the classic Adler's Physiology of the Eye correlates basic science and clinical management to describe the how and why of eye disease processes and the related best management protocols Editors Leonard A. Levin and Daniel M. Albert two of the world's leading ophthalmic clinician scientists have recruited as contributors the most expert and experienced authorities available in each of the major areas of ophthalmic disease specific to ophthalmology retina cornea cataract glaucoma uveitis and more The concise chapter structure features liberal use of color with 330 full color line artworks call out boxes summaries and schematics for easy navigation and understanding This comprehensive resource provides you with a better and more practical understanding of the science behind eye disease and its relation to treatment Covers all areas of disease in ophthalmology including retina cornea cataract glaucoma and uveitis for the comprehensive information you need for managing clinical cases Presents a unique and pragmatic blend of necessary basic science and clinical application to serve as a clinical guide to understanding the cause and rational management of ocular disease Features 330 full color line artworks that translate difficult concepts and discussions into concise schematics for improved understanding and comprehension Provides the expert advice of internationally recognized editors with over 40 years of experience together with a group of world class contributors in basic science and clinical ophthalmology *Primary Care Medicine* Allan H. Goroll, Albert G. Mulley, 2012-03-28 Now in its Sixth Edition this comprehensive text provides pertinent information on medical diagnosis therapy lab tests and health maintenance essential to decision making in primary care medicine Every chapter has been revised to include more images tables and bulleted lists Practical recommendations that incorporate the best available evidence expert consensus guidelines and clinical judgement are listed in bulleted items at the end of every chapter The dermatology section has been extensively revised for this edition by a new section editor A companion Website offers the fully searchable text and an image bank *Peptic Ulcer Disease: Causes, Symptoms, Diagnosis, Treatment, and Holistic Management* Doctor's Notes, 2025-02-19 Discover a comprehensive guide to Peptic Ulcer Disease PUD covering everything from pathophysiology risk factors and clinical presentation to diagnosis complications and advanced treatments Learn about Helicobacter pylori eradication strategies pharmacological therapies PPIs H2 blockers antacids NSAID associated ulcer management and surgical or endoscopic interventions This treatise also explores nutrition stress reduction lifestyle modifications and complementary therapies such as licorice mastic gum and probiotics Designed for both healthcare professionals and general readers it provides evidence based insights into healing prevention and long term prognosis of peptic ulcers **Principles of Clinical Pharmacology** Shiew-Mei Huang, Juan J.L. Lertora, Arthur J. Atkinson Jr., 2012-09-18 Principles of Clinical Pharmacology is a successful survey covering the pharmacologic principles underlying the individualization of patient therapy and contemporary drug development This essential reference continues to focus on

the basics of clinical pharmacology for the development evaluation and clinical use of pharmaceutical products while also addressing the most recent advances in the field Written by leading experts in academia industry clinical and regulatory settings the third edition has been thoroughly updated to provide readers with an ideal reference covering the wide range of important topics impacting clinical pharmacology as the discipline plays an increasingly significant role in drug development and regulatory science The Third Edition has been endorsed by the American Society for Clinical Pharmacology and Therapeutics Includes new chapters on imaging and the pharmacogenetic basis of adverse drug reactions Offers an expanded regulatory section that addresses US and international issues and guidelines Provides extended coverage of earlier chapters on transporters pharmacogenetics and biomarkers and also illustrates the impact of gender on drug response Presents a broadened discussion of clinical trials from Phase 1 to incorporate Phases II and III

**Atkinson's Principles of Clinical Pharmacology** Shiew-Mei Huang, Juan J.L. Lertora, Paolo Vicini, Arthur J. Atkinson Jr., 2021-10-16 Selected for Doody's Core Titles 2024 in Pharmacology Atkinson's Principles of Clinical Pharmacology Fourth Edition is the essential reference on the pharmacologic principles underlying the individualization of patient therapy and contemporary drug development This well regarded survey continues to focus on the basics of clinical pharmacology for the development evaluation and clinical use of pharmaceutical products while also addressing the most recent advances in the field Written by leading experts in academia industry clinical and regulatory settings the fourth edition has been thoroughly updated to provide readers with an ideal reference on the wide range of important topics impacting clinical pharmacology Presents the essential knowledge for effective practice of clinical pharmacology Includes a new chapter and extended discussion on the role of personalized and precision medicine in clinical pharmacology Offers an extensive regulatory section that addresses US and international issues and guidelines Provides extended coverage of earlier chapters on transporters pharmacogenetics and biomarkers along with further discussion on Phase 0 studies microdosing and PBPK

*Peptic Ulcer Disease* Perry B. Molinoff, 1990

Principles of Clinical Pharmacology Arthur J. Atkinson Jr., Darrell R. Abernethy, Charles E. Daniels, Robert Dedrick, Sanford P. Markey, 2011-04-28 This revised second edition covers the pharmacologic principles underlying the individualization of patient therapy and contemporary drug development focusing on the fundamentals that underlie the clinical use and contemporary development of pharmaceuticals Authors drawn from academia the pharmaceutical industry and government agencies cover the spectrum of material including pharmacokinetic practice questions covered by the basic science section of the certifying examination offered by the American Board of Clinical Pharmacology This unique reference is recommended by the Board as a study text and includes modules on drug discovery and development to assist students as well as practicing pharmacologists Unique breadth of coverage ranging from drug discovery and development to individualization and quality assessment of drug therapy Unusual cohesive of presentation that stems from author participation in an ongoing popular NIH course Instructive linkage of pharmacokinetic theory and applications with provision

of sample problems for self study Wide ranging perspective of authors drawn from the ranks of Federal agencies academia and the pharmaceutical industry Expanded coverage of pharmacogenetics Expanded coverage of drug transporters and their role in interactions Inclusion of new material on enzyme induction mechanisms in chapters on drug metabolism and drug interactions A new chapter on drug discovery that focuses on oncologic agents Inclusion of therapeutic antibodies in chapter on biotechnology products

Peptic Ulcer Disease Jianyuan Chai,2011-11-04 Peptic ulcer disease is one of the most common chronic infections in human population Despite centuries of study it still troubles a lot of people especially in the third world countries and it can lead to other more serious complications such as cancers or even to death sometimes This book is a snapshot of the current view of peptic ulcer disease It includes 5 sections and 25 chapters contributed by researchers from 15 countries spread out in Africa Asia Europe North America and South America It covers the causes of the disease epidemiology pathophysiology molecular cellular mechanisms clinical care and alternative medicine Each chapter provides a unique view The book is not only for professionals but also suitable for regular readers at all levels

**Advances in Peptic Ulcer Pathogenesis** W.D. Rees,2012-12-06 Over the past decade a great deal of research activity has occurred on either side of the gastroduodenal epithelial interface with the common goal of elucidating the mechanisms of mucosal protection and how these may be compromised in peptic ulcer disease A prime stimulus to such research has been the realization that abnormal acid secretion or its delivery into the duodenum in excessive amount cannot fully explain ulcer pathogenesis in the majority of patients One may envisage the stomach and proximal duodenum as being in a dynamic equilibrium with aggressive luminal factors such as acid and pepsin being counteracted by protective mucosal mechanisms Until recently the mechanisms involved in mucosal protection had been poorly defined while the physiology and pathophysiology of acid and pepsin secretion had been elucidated The impression that gastroduodenal mucosa was protected by a single mechanism has at last been replaced by a more realistic view suggesting a number of protective zones acting in series Some of these zones may act as first or second line defences against aggressive factors while certain zones may specifically protect against certain aggressors

Mechanisms of Peptic Ulcer Healing F. Halter,A. Garner,Guido Tytgat,1991-07-31

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