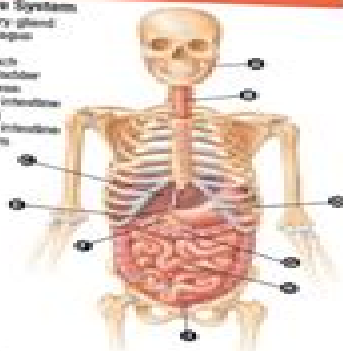


OVERVIEW

Digestive System

- Salivary gland
- Esophagus
- Liver
- Gall bladder
- Pancreas
- Large intestine
- Sigmoid
- Small intestine
- Rectum



- The digestive system is a group of organs responsible for breaking down food into a form that can be absorbed and used by the body for energy. • The alimentary canal, a tube extending from the mouth to the anus, processes and transports digestive products. • Accessory organs (i.e., salivary glands, liver, gall bladder, pancreas) secrete enzymes that aid in digestion. • Once digestion has occurred, waste products are carried through the intestines to the rectum, and are excreted. • Disorders that affect the digestive process can have a profound effect on the rest of the body, as the supply of energy and elimination of waste are crucial to the body's well-being.

CANCER

- Cancer is a general term that refers to a disease process initiated when cells in the body lose their ability to grow in a controlled manner. • Uncontrolled proliferation of these cells leads to formation of tumors. • Eventually, the tumors invade the surrounding tissue layers, impinge on the function of local organs, and affect normal body function. • Tumor cells can travel to other sites in the body (metastasize) and initiate new tumors at other sites. • Treatment usually consists of surgical resection of the disease area, radiation therapy, and/or chemotherapy.

Cancers of the Digestive System

- Oral: Tumors begin as small lumps that bleed easily and develop into hard ulcers and lesions that do not heal.
- Localized pain appears later.

- Esophageal: Late - Weight loss, anorexia, difficulty and painful swallowing, regurgitation, swollen lymph nodes.
- Gastric: First symptoms - Breath odor, indigestion, stomach discomfort, vomiting, anorexia, abdominal fullness. • Late - Green pain, bloody stool, weight loss.

- Colorectal: Early - Changes in bowel movements, bloody stool. • Late - Indigestion, abdominal pain, anorexia, general ill health, general lymph glands & liver.

- Liver: Early - Weight loss, anorexia, ill health/vomiting, abdominal pain/discomfort. • Late - Enlarged liver, jaundice.

- Pancreatic: Early - Weight loss, anorexia, abdominal & back pain, vomiting, jaundice. • Late - Itchy skin, fatigue, diarrhea, possible recent onset of diabetes.

DISORDERS OF THE MOUTH & JAW

Gingivitis & Periodontitis

- Gingivitis is inflammation of the gums due to plaque buildup around base of teeth. • It is caused by microorganisms brushing and focusing. • The gums begin to pull away from teeth, forming pockets that trap food. • If untreated, gingivitis can lead to periodontitis, in which pockets deepen, exposing tooth root and underlying bone to plaque, which accumulates and leads to bone loss. • Prevention includes regular cleaning and plaque removal.



Tooth Abscess

- An abscess is a pus-filled sac that forms around the base of the tooth root due to bacterial infection or trauma. • Infection can occur if a tooth dies, is damaged or from periodontitis. • Symptoms include pain when chewing or biting, general toothache, swelling, swollen glands, fever, and malaise. • Antibiotics are used to destroy bacteria, then surgical removal of infected tissue and/or tooth.

Candidiasis (Thrush)

- Thrush is an oral infection by fungus *Candida albicans*, which is normally present in small amounts. • The primary symptom is some yellow patches in mouth and/or throat. • It is most common in young children, elderly, and immunocompromised; treated with antifungal medication.

GASTROINTESTINAL (GI) DISORDERS

Common Signs & Symptoms

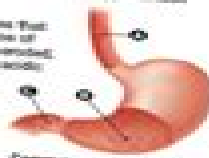
- Nausea
- Vomiting
- Colic
- Diarrhea
- Flatulence
- Indigestion
- Heartburn
- Constipation
- Fecal incontinence

Esophageal Varices

- Esophageal varices are varicose veins of the esophagus arising from portal hypertension (high blood pressure in the portal vein due to liver disease). • These superficial veins are dilated and twisted, and may rupture. • Symptoms include abdominal pain, hematemesis (vomiting of blood), and melena (black feces). • If vessels burst, bleeding is controlled by applying pressure with a balloon catheter and surgical sealing of vessels. • Can be life-threatening as a complication of portal hypertension.

Peptic Ulcers

- Peptic ulcers are open sores that occur when mucous membranes of digestive tract is damaged or eroded, exposing underlying tissue to acids. • Gastric juices. • They can be acute (sudden), superficial, asymptomatic or chronic (deep, single, asymptomatic). • Antacid/acid/peptic ulcers cause pain, single, asymptomatic. • Antacid/acid/peptic ulcers cause pain, single, asymptomatic. • Antacid/acid/peptic ulcers cause pain, single, asymptomatic.



Common peptic ulcer types
① Duodenal ② Gastric

- Increased acid secretion can also be a cause. • Symptoms include heartburn, pain, indigestion, changes in appetite, nausea, bloating, and vomiting. • Treatment involves rest, diet of frequent, small, bland meals, and eliminating acid-producing factors. • Antacid drugs neutralize excess acidity, acid-inhibitors control gastric secretion, and coating agents protect mucosa. • In severe cases, a vagotomy or partial gastrectomy may be needed.

Temporomandibular Joint Syndrome (TMJ)

- TMJ is facial pain associated with inflammation of the temporomandibular joint caused by muscle spasms, malocclusion, arthritis, cancer or stress (bruxism or clenching). • Patient suffers from limited joint mobility, clicking or popping sounds during chewing, fatigue or discomfort. • Treatment involves elimination of the cause.

Mouth Sores

- Mouth sores are open sores on mucous membranes, the most common of which is the canker sore. • They are round, pale spots with red borders, and can be caused by a virus, stress, stress or injury. • In rare cases, an ulcer may be the first stage of oral cancer. • They can appear alone or in clusters. • They usually heal on their own, but may help to use antiseptic mouthwash, rinse with warm salt water, and avoid spicy and foods high in temperature.

Herpes Simplex (Cold Sores)

- Cold sores are ulcers that form on the lips, but can form in the mouth and on the gums. • They are caused by herpes simplex type 1 virus, a common virus that most people have been infected with by the time they are adults. • After the initial infection, virus lies dormant; in some people, it is reactivated by exposure to sun, wind or fever, causing recurring cold sores. • Though infection is not considered serious, it can be in those with a compromised immune system, or if infection spreads to eye, causing a corneal ulcer. • Usually no treatment is necessary; aspirin, anesthetic mouthwash or creams may relieve pain.

Hiatal Hernia

- A hiatal hernia is a protrusion of part of the stomach through diaphragm's opening into thoracic cavity. • It can result from obesity, trauma, old age, intra-abdominal pressure or congenital defect. • It permits acid reflux (regurgitation of acid into esophagus), which causes heartburn. • Associated and dietary changes limit symptoms. • Other measures include smoking cessation, weight loss, and avoiding strenuous activities and large, heavy meals.

Abdominal Hernia

- An abdominal hernia is an abnormal protrusion of a loop of bowel out of abdominal cavity. • The types refer to their location: inguinal (through inguinal canal), femoral (through femoral canal), umbilical (through abdominal wall near navel), and incisional (through incision site following an abdominal operation). • Causes are similar to those of hiatal hernia. • If they cause minor discomfort and can be easily pushed back, supportive garments are used. • If more serious, or strangulated (constricted to prevent flow of intestinal contents), they are repaired surgically.

Intestinal Obstruction (Paralytic Ileus)

- Blockage of small or large intestine is total if not treated. • Mechanical blockage can be caused by foreign bodies, fecal impaction, volvulus (twisting of bowel), tumors, adhesions, intussusception (bowel telescopes into itself), obstruction (swell). • Non-mechanical (paralytic ileus) is a usually temporary paralysis of the small bowel, preventing peristalsis (rhythmic muscular contractions that move food). • Symptoms include nausea, vomiting, abdominal pain & bloating, and no passage of stool or gas. • Mechanical obstruction is treated by surgical removal and/or correction of cause. • In some cases, blood supply to bowel is cut off, and tissue death can occur. • A patient with a non-mechanical obstruction is fed intravenously until peristalsis returns, and a stomach tube is inserted to relieve pressure and vomiting.

Pathophysiology Digestive System Disorders Study Guide

**Shaweta Sharma, Aftab Alam, Akhil
Sharma**



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Pathophysiology for the Health Professions E- Book Karin C. VanMeter, Robert J. Hubert, 2022-01-01 NEW The Bigger Picture bulleted summaries identify other body systems that might be affected by a particular disease or disorder covered in a body system chapter NEW coverage of COVID 19 is added as well as new information on other conditions and diseases NEW diagnostic methods and treatments are covered describing how these are impacted by digitalization information technology and artificial intelligence NEW Updated statistics on diseases and their related pathophysiology are included NEW photographs and illustrations are added

Gould's Pathophysiology for the Health Professions Karin C. VanMeter, PhD, 2013-12-18 A concise easy to understand introduction to the fundamentals Gould's Pathophysiology for the Health Professions 5th Edition helps you learn essential concepts of major diseases disorders and disease processes Continuing in its well known tradition of readability and vivid full color illustrations the text is updated with the latest research and trends in human disease Disorders are described by body system with coverage of the interactions between systems and special features help you apply the material to real life situations No matter which healthcare field you may enter Gould's Pathophysiology prepares you for the conditions encountered in clinical practice Gould's Pathophysiology for the Health Professions can easily be incorporated into a course as a prescribed book to students in the health care professions The authors of this book are commended for their contribution to the literature on pathophysiology and its application to the health professions Reviewed by Dr Benita Olivier University of the Witwatersrand Date Oct 14 Concise and readable approach includes the information you need without being overwhelming even if you have a limited scientific background Unique Think About questions alert you to important points and help with self evaluation test preparation and

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Study Guide for Introduction to Medical-Surgical Nursing Adrienne Dill Linton, PhD, RN, FAAN, Nancy K. Maebius, PhD, RN, 2015-02-03 Reader friendly and easy to use the Study Guide for Introduction to Medical Surgical Nursing 6th Edition is designed to help you master content and evaluate your progress through practical useful exercises and activities including a wealth of multiple choice and alternate format questions This edition places an increased emphasis on higher level application questions including exercises to encourage practice in setting priorities to prepare you to transfer your knowledge of medical surgical concepts to patient care in the clinical setting Learning activities include matching key term and vocabulary review completion listing labeling illustrations ranking ordering and application questions for textbook nursing care plans Approximately 2 000 review questions include revised as well as new standard multiple choice and alternate format questions NCLEX review question answer rationales discuss both correct and incorrect responses to help you explore the logic of your choices Prioritization activities provide practice in prioritizing deciding what to do first and assignment giving specific tasks to health care providers who may be supervised by LPNs including nurse aids and nurse assistants NEW Completely revised content matches the most up to date nursing diagnoses

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divided into units as per the weightage of marks in each unit It is illustrated very well with simple reproducible diagrams and flow charts To learn faster for examinations memory aides have also been given The book will help BSc Nursing 2nd year semesters III and IV students prepare for their examinations SALIENT FEATURES Content presented in well classified sections Compliant with the revised INC curriculum All question types asked in university exams addressed Long Essays Short Essays and Short Notes Clearly describes how to attempt a question in the exam Suitable number of tables and flow charts provided according to the need of the question SALIENT FEATURES Content presented in well classified sections Compliant with the revised INC curriculum All question types asked in university exams addressed Long Essays Short Essays and Short Notes Clearly describes how to attempt a question in the exam Suitable number of tables and flow charts provided according to the need of the question

Understanding Pathophysiology - ANZ adaptation Judy Craft, Christopher Gordon, Sue E. Huether, Kathryn L. McCance, Valentina L. Brashers, 2018-09-19 NEW chapter on diabetes to highlight the prevalence of the disease in Australia and New Zealand Expanded obesity chapter to reflect the chronic health complications and comorbidities New concept maps designed to stand out and pull together key chapter concepts and processes Updated Focus on Learning Case Studies and Chapter Review Questions Now includes an eBook with all print purchases

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

Medical-Surgical Nursing Susan C. deWit, Holly Stromberg, Carol Dallred, 2016-02-05 Providing a solid foundation in medical surgical nursing

Susan deWit's Medical Surgical Nursing Concepts and Practice 3rd Edition ensures you have the information you need to pass the NCLEX PN Examination and succeed in practice. Part of the popular LPN LVN Threads series, this uniquely understandable, concise text builds on the fundamentals of nursing, covering roles, settings, and health care trends; all body systems and their disorders; emergency and disaster management; and mental health nursing. With updated content, chapter objectives, and review questions, this new edition relates national LPN LVN standards to practice with its integration of QSEN competencies, hypertension, diabetes, and hypoglycemia. Concept Maps in the disorders chapters help you visualize difficult material and illustrate how a disorder's multiple symptoms, treatments, and side effects relate to each other. Get Ready for the NCLEX Examination section includes Key Points that summarize chapter objectives, additional resources for further study, review questions for the NCLEX Examination, and critical thinking questions. Nursing Care Plans with critical thinking questions provide a clinical scenario and demonstrate application of the nursing process with updated NANDA-I nursing diagnoses to individual patient problems. Anatomy and physiology content in each body system overview chapter provides basic information for understanding the body system and its disorders and appears along with Focused Assessment boxes highlighting the key tasks of data collection for each body system. Assignment Considerations, discussed in Chapter 1 and highlighted in feature boxes, address situations in which the RN delegates tasks to the LPN LVN or the LPN LVN assigns tasks to nurse assistants per the individual state nurse practice act. Gerontologic nursing is presented throughout in the context of specific disorders with Elder Care Points boxes that address the unique medical/surgical care issues that affect older adults. Safety Alert boxes call out specific dangers to patients and teach you to identify and implement safe clinical care. Evidence-based Practice icons highlight current references to research in nursing and medical practice. Patient Teaching boxes provide step-by-step instructions and guidelines for post-hospital care and prepare you to educate patients on their health condition and recovery. Health Promotion boxes address wellness and disease prevention strategies that you can provide in patient teaching. NEW Content updated with the most current health care standards, including QSEN competencies, hypertension, diabetes, and hypoglycemia, to relate national standards to LPN LVN practice. UPDATED Revised chapter objectives and content reflect higher-level critical thinking, communication, patient safety, and priority setting. UPDATED Get Ready for the NCLEX review questions updated per the 2014 NCLEX PN test plan.

Ace the USMLE Step 1 Exam Delarosa Sims, Sayo Pearson, *Ace the USMLE Step 1 Exam 1500 Essential Practice Questions and Answers with Detailed Explanations*. The USMLE Step 1 exam is one of the most challenging milestones in a medical student's journey. It's not just about passing; it's about mastering the foundational knowledge that will support your medical career and open doors to the residency program of your dreams. *Ace the USMLE Step 1 Exam 1500 Essential Practice Questions and Answers with Detailed Explanations* is the ultimate resource designed to help you achieve that goal. Comprehensive Coverage: This book offers a carefully curated collection of 1500 high-yield questions that cover the full spectrum of topics tested on the USMLE Step 1.

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Brunner & Suddarth's Textbook of Medical-surgical Nursing Suzanne C. O'Connell Smeltzer, Brenda G. Bare, Janice L. Hinkle, Kerry H. Cheever, 2010 Preparing students for successful NCLEX results and strong futures as nurses in today's world Now in its 12th edition Brunner and Suddarth's Textbook of Medical Surgical Nursing is designed to assist nurses in preparing for their roles and responsibilities in the medical surgical setting and for success on the NCLEX In the latest edition the resource suite is complete with a robust set of premium and included ancillaries such as simulation support adaptive testing and a variety of digital resources helping prepare today's students for success This leading textbook focuses on physiological pathophysiological and psychosocial concepts as they relate to nursing care Brunner is known for its strong Nursing Process focus and its readability This edition retains these strengths and incorporates enhanced visual appeal and better portability for students Online Tutoring powered by Smarthinking Free online tutoring powered by Smarthinking gives students access to expert nursing and allied health science educators whose mission like yours is to achieve success Students can access live tutoring support critiques of written work and other valuable tools

Gastrointestinal Physiology Eugene Trowers, Marc Tischler, 2014-07-19 This volume provides a practical hands on guide to gastrointestinal physiology The book emphasizes an appreciation of basic physiological concepts and their application to novel clinical situations It exposes the physician in training to fundamental principles that are useful in treating patients and lays the groundwork for more advanced study in the future The authors present relevant cases which incorporate newer adult learning strategies in medical education These cases provide a forum in which the student can apply acquired knowledge skills and attitudes Connections are made to reader's life whether in the classroom on the wards or out and about town Designed for medical students who are studying gastrointestinal physiology for the first time Gastrointestinal Physiology A Clinical Approach provides a superb review for upper level medical students and house officers Nursing and allied health professions students will also find this text to be a useful guide GI fellows and attending physicians in need of a concise review of fundamental GI physiology principles will also benefit from reading this book

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

Manual for Pharmacy Technicians Bonnie S.

Bachenheimer,2010-09-10 The trusted training resource for pharmacy technicians at all levels The role of pharmacy technicians is rapidly expanding and demand for well trained technicians has never been higher Technicians are assuming more responsibilities and are taking on greater leadership roles Quality training material is increasingly important for new technicians entering the field and current technicians looking to advance Look no further than the new 4th edition of the best selling Manual for Pharmacy Technicians to master the practical skills and gain the foundational knowledge all technicians need to be successful NEW chapters cover the latest essentials Specialty Pharmacy Practice Communication and Teamwork Billing and Reimbursement Durable and Nondurable Medical Equipment Devices and Supplies NEW features include Full color design photos and illustrations enhance learning Rx for Success boxes share tips to help techs excel on the job Technology Topics highlight the latest in automation technical areas Safety First features provide critical advice for enhancing safety reducing errors Bolded key terms defined in chapter level glossaries Streamlined contents divide book into 4 simple parts introduction to pharmacy practice foundation knowledge and skills practice basics and business applications Expanded self assessment questions and calculations content Alone or with the new edition of the Pharmacy Technician Certification Review and Practice Exam the Manual for Pharmacy Technicians 4th Edition offers pharmacy technicians the most relevant authoritative easy to use guide in the field Want more exercises and practice Look for the NEW Workbook for the Manual for Pharmacy Technicians

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