

Chapter 21 – The Immune System

1. Define pathogens:

2. Define innate immunity: **general protection mechanisms; nonspecific (Table 21.2)**

First line of defense: (barrier defenses)

- The first thing that the pathogen is up against
- Non-specific immunity
- Innate means that we are born with it.

All of the following have acidic qualities acid kill bacteria.

ALL NON-SPECIFIC

A. skin: contains keratin barrier, which blocks pathogens, and acidic sweat, which inhibits bacterial growth.

B. stomach: HCl and anti-microbial enzymes kill pathogens.
- Gastric juice

C. saliva: contains lysozyme (inhibits bacteria) and antibodies.

D. mucus:

Second line of defense: (cellular defenses)

E. phagocytes: found in every tissue; surround and engulf microbes.

F. natural killer cells: are defensive cells that can kill cancer and virus-infected cells before adaptive immunity is activated.

G. mast cells: granulocytes in the connective tissue.

H. interferons are small proteins secreted by virus-infected cells that tell other uninfected cells to produce proteins that prevent infection and alert NK cells.

I. complement: a family of 20 plasma proteins that circulate in the blood; these proteins activate each other in the presence of a pathogen and tag it to be destroyed or lyse the pathogen themselves; also amplifies the inflammation response.

J. fever: an increase in body temperature; induced by pyrogens secreted by WBCs and macrophages in response to infection signal hypothalamus to increase body temp, which speeds up repair of damaged tissues and increases metabolism.

3. Define inflammation: **MOST PREVALENT IMMUNITY RESPONSE TO TRAUMA OR INFECTION. IT IS NOT INNATE. THEREFORE, IT WILL INFLAME WHEN THERE ARE NO TROUBLING PATHOGENS. IT IS POORLY REGULATED.**

- Antihistamine reduces inflammation (Benadryl, Claritin, etc.).
 - o Only markets for allergies; inflammation to things that aren't pathogens.
- Does not stimulate pain receptors won't take away pain.

The Immune System Chapter 12 Packet

Sarah Myhill



The Immune System Chapter 12 Packet:

Activity Pack for Medical Terminology Systems Barbara A. Gylys, 2005 *Advanced Emergency Medical Technician Transition Manual* American Academy of Orthopaedic Surgeons (AAOS), AAOS, Rhonda Hunt, 2013-06-19 The ideal resource for states needing to transition practicing EMT Intermediates to the new AEMT level Advanced Emergency Medical Technician Transition Manual bridges the gap between the knowledge and skills based on the 1985 National Standard Curriculum and those in the 2009 National EMS Education Standards Advanced Emergency Medical Technician Transition Manual offers focused discussions on critical knowledge areas and new skills Each chapter opens with a summary of what EMTs should already know about the topic as well as a brief overview of the content that is new or addressed in greater depth in the National EMS Education Standards Case studies at the end of each chapter help students test their critical thinking skills and gauge comprehension This concise program can be used for continuing education or bridge courses to the National EMS Education Standards Listen to a Podcast with AEMT Transition Manual author Rhonda Beck to learn more about this training program Listen now http://d2jw81rkebrcvk.cloudfront.net/assets/multimedia/audio/Beck_AEMT.mp3

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Diagnosis and Treatment of Chronic Fatigue Syndrome and Myalgic Encephalitis Sarah Myhill, 2018 Original edition published in 2017 by Hammersmith Books London United Kingdom T p verso *Diagnosis and Treatment of Chronic Fatigue Syndrome and Myalgic Encephalitis, 2nd ed.* Sarah Myhill, 2018-04-25 Mitochondria are the powerhouses of our cells essential for the production and management of energy at the cell level Dr Sarah Myhill has spent years studying the relationship between mitochondrial malfunction and one of the most common problems that lead people to the doctor's office fatigue In *Diagnosis and Treatment of Chronic Fatigue Syndrome and Myalgic Encephalitis* Dr Myhill examines this essential role of our mitochondria in energy production and why it is key to understanding and overcoming Chronic Fatigue Syndrome CFS and the inflammation that often accompanies it Myalgic Encephalitis ME She explains the importance of healthy mitochondria how we can assess how well they are functioning what we can do to keep them healthy and how to restore them to health if problems arise Since publication of the first edition in 2014 new research and new clinical findings have shed further light on a condition that is debilitating to those who suffer from it but all in the head to many doctors The second edition of this groundbreaking book includes new insights and chapters on why CFS ME is the most poorly treated condition in Western medicine the role of the gut allergy and autoimmunity Lyme disease and other coinfections reprogramming the immune system reprogramming the brain and the roadmap to recovery

Exploring Health Psychology Spencer A. Rathus, Jeffrey S. Nevid, 2021-03-09 *Exploring Health Psychology* provides comprehensive yet student friendly coverage of both traditional topics in the field and important contemporary issues relating to reproductive sexual and psychological health Using an informal sometimes humorous narrative the authors engage students of all interest levels

abilities and learning styles by emphasizing the application of health and wellbeing psychology in their daily lives Balancing depth and accessibly each chapter describes the body systems relevant to a particular topic incorporates up to date information and research and contains relatable examples real world applications compelling discussion and review questions personal stories and vignettes a running glossary and more Broad in scope Exploring Health Psychology examines the interactions between biological psychological and sociocultural factors in psychological disorders and discusses their psychological and medical treatment Critical psychological health issues such as anxiety and depression the health of sexual and gender minorities and the psychological dangers and pitfalls of the digital age are addressed to meet the needs of today s students An array of active learning features based on the SQ4R pedagogy Survey Question Read Recite Reflect and Review enables students to take an active role in the learning process develop effective study habits strengthen critical and scientific thinking and comprehend retain and apply the material

Essential Oil Safety Robert Tisserand,Rodney Young,2013-12-02

The second edition of this book is virtually a new book It is the only comprehensive text on the safety of essential oils and the first review of essential oil drug interactions and provides detailed essential oil constituent data not found in any other text Much of the existing text has been re written and 80% of the text is completely new There are 400 comprehensive essential oil profiles and almost 4000 references There are new chapters on the respiratory system the cardiovascular system the urinary system the digestive system and the nervous system For each essential oil there is a full breakdown of constituents and a clear categorization of hazards and risks with recommended maximum doses and concentrations There are also 206 Constituent Profiles There is considerable discussion of carcinogens the human relevance of some of the animal data the validity of treating an essential oil as if it was a single chemical and the arbitrary nature of uncertainty factors There is a critique of current regulations The only comprehensive text on the safety of essential oils The first review of essential oil drug interactions Detailed essential oil constituent data not found in any other text Essential oil safety guidelines 400 essential oil profiles Five new chapters 305 new essential oil profiles including Cedarwood Clary sage Lavender Rose Sandalwood Tea tree 79 new constituent profiles Five new chapters the respiratory system the cardiovascular system the urinary system the digestive system the nervous system Significantly expanded text

Clinical Neuroscience Kelly Lambert,2004-11-26

Integrating neurobiological mechanisms of general health into the coverage of mental disorders this text also looks at other aspects of neuroscience and the ways in which it impacts on the mental condition

The Complete Idiot's Guide to Herbal Remedies Frankie Avalon Wolfe M.H., Ph.D.,1999-09-01 You re no idiot of course You ve heard it s possible to stave off a cold with echinacea and St John s wort is said to help lift you out of a funk But when it comes to knowing which of the hundreds of herbal remedies are effective you feel like you might as well go eat the daisies Don t graze in your garden just yet The Complete Idiot s Guide to Herbal Remedies is a comprehensive guide to the vast and varied herbs and natural agents that are purported to prevent everything from the sniffles to cancer

CliffsNotes AP Biology, 5th Edition Phillip E.

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Applied Pharmacology for the Dental Hygienist - E-Book Elena Bablenis Haveles,2015-03-06 Covering the most commonly used drugs in dentistry Applied Pharmacology for the Dental Hygienist 7th Edition provides an in depth understanding of the pharmacologic principles needed for safe and effective dental treatment and oral health care It discusses drug properties and mechanisms of action dosages intended effects interactions and adverse reactions both for the medications a patient may already be taking and for the drugs prescribed by the dentist New to this edition are topics such as drug related osteonecrosis of the jaw recommendations for antibiotic prophylaxis to reduce the risk of infection cholesterol and cardiovascular guidelines and new information on type 2 diabetes Written by dental hygiene educator Elena Haveles this trusted text prepares you for the expanding role of the dental hygienist Comprehensive coverage provides an in depth understanding of the most commonly used drugs how they work and how they affect patients oral health and dental treatment options A dental focus addresses the drug interactions of clinical interest in dentistry with explanations as to why certain drugs are used or contraindicated in a dental treatment plan A logical format organizes chapters into four parts 1 general pharmacologic principles 2 drugs used in dentistry 3 drugs that may alter dental treatment and 4 special situations Clinical Skills Assessment offers review questions at the end of each chapter helping you assess your knowledge of the material Dental Hygiene Considerations boxes show how principles of pharmacology apply specifically to dental hygienists Note boxes highlight important concepts indications contraindications memory tools warnings and more Key terms are bolded and in color within each chapter and defined in a handy glossary Summary tables and boxes serve as useful review and study tools with quick easy to read summaries of key concepts Learning objectives at the beginning of each chapter set goals for what you will accomplish and provide a useful study guide for examinations A bibliography in each chapter lists resource citations for additional research and study of dental related topics Quick reference appendixes include resources such as the top 200 drugs medical acronyms and information on herbal and dietary supplements A drug index provides easy look up of specific drugs and types of drugs NEW Updated coverage reflects the latest changes and advances relating to dental treatment such as adverse drug reactions antibiotic prophylaxis osteonecrosis of the jaw cardiovascular and

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Principles of Virology Jane Flint,Vincent R. Racaniello,Glenn F. Rall,Theodora Hatzioannou,Anna Marie Skalka,2020-08-07 Principles of Virology the leading virology textbook in use is an extremely valuable and highly informative presentation of virology at the interface of modern cell biology and immunology This text utilizes a uniquely rational approach by highlighting common principles and processes across all viruses Using a set of representative viruses to illustrate the breadth of viral complexity students are able to understand viral reproduction and pathogenesis and are equipped with the necessary tools for future encounters with new or understudied viruses This fifth edition was updated to keep pace with the ever changing field of virology In addition to the beloved full color illustrations video interviews with leading scientists movies and links to exciting blogposts on relevant topics this edition includes study questions and active learning puzzles in each chapter as well as short descriptions regarding the key messages of references of special interest Volume I Molecular Biology focuses on the molecular processes of viral reproduction from entry through release Volume II

Pathogenesis and Control addresses the interplay between viruses and their host organisms on both the micro and macroscale including chapters on public health the immune response vaccines and other antiviral strategies viral evolution and a brand new chapter on the therapeutic uses of viruses These two volumes can be used for separate courses or together in a single course Each includes a unique appendix glossary and links to internet resources Principles of Virology Fifth Edition is ideal for teaching the strategies by which all viruses reproduce spread within a host and are maintained within populations This edition carefully reflects the results of extensive vetting and feedback received from course instructors and students making this renowned textbook even more appropriate for undergraduate and graduate courses in virology microbiology and infectious diseases *Network Security First-Step* Thomas M. Thomas, Donald Stoddard, 2011-12-22

Network Security first step Second Edition Tom Thomas and Donald Stoddard Your first step into the world of network security No security experience required Includes clear and easily understood explanations Makes learning easy Your first step to network security begins here Learn how hacker attacks work from start to finish Choose the right security solution for each type of risk Create clear and enforceable security policies and keep them up to date Establish reliable processes for responding to security advisories Use encryption effectively and recognize its limitations Secure your network with firewalls routers and other devices Prevent attacks aimed at wireless networks No security experience required Computer networks are indispensable but they also are not secure With the proliferation of security threats many people and companies are looking for ways to increase the security of their networks and data Before you can effectively implement security technologies and techniques you need to make sense of this complex and quickly evolving world of hackers and malware as well as the tools to combat them *Network Security First Step* Second Edition explains the basics of network security in easy to grasp language that all of us can understand This book takes you on a guided tour of the core technologies that make up and control network security Whether you are looking to take your first step into a career in network security or simply are interested in gaining knowledge of the technology this book is for you **Disruptive Security Technologies with Mobile Code and Peer-to-Peer Networks** R.R. Brooks, 2004-11-29 The traditional fortress mentality of system security has proven ineffective to attacks by disruptive technologies This is due largely to their reactive nature Disruptive security technologies on the other hand are proactive in their approach to attacks They allow systems to adapt to incoming threats removing many of the vulnerabilities explo

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