

DIFFERENT CLASSES OF ANTIBIOTICS - AN OVERVIEW

Top: ● COMMONLY ACT AS BACTERIOSTATIC AGENTS, RESTRICTING GROWTH & REPRODUCTION | ● COMMONLY ACT AS BACTERICIDAL AGENTS, CAUSING BACTERIAL CELL DEATH

B-LACTAMS	AMINOGLYCOSIDES	CHLORAMPHENICOL	GLYCOPETIDES	ANSAMYCINS	STREPTODRAGINS
<p>STRUCTURE: 4-membered lactam ring containing 2 carbonyl groups</p> <p>MODE OF ACTION: Inhibit bacterial cell wall biosynthesis.</p> <p>EXAMPLES: Penicillins (such as penicillin and amoxicillin), Cephalosporins (such as cefotaxime).</p>	<p>STRUCTURE: 14-membered 2D antibiotics</p> <p>MODE OF ACTION: All inhibit messenger nucleic acids.</p> <p>EXAMPLES: Neomycin, streptomycin, kanamycin, amikacin, paromycin.</p>	<p>STRUCTURE: Lactam ring in low molecular weight.</p> <p>MODE OF ACTION: Inhibit bacterial cell wall biosynthesis.</p> <p>EXAMPLES: Chloramphenicol, paromycin.</p>	<p>STRUCTURE: Glycopeptides of last resort.</p> <p>MODE OF ACTION: Inhibit synthesis of proteins, preventing growth.</p> <p>EXAMPLES: Vancomycin, teicoplanin.</p>	<p>STRUCTURE: Diterpenoid lactam antibiotics, 20-carbon.</p> <p>MODE OF ACTION: Inhibit the synthesis of proteins by bacterial ribosomes.</p> <p>EXAMPLES: Erythromycin, clindamycin, aztreonam.</p>	<p>STRUCTURE: Two groups of antibiotics that act synergistically.</p> <p>MODE OF ACTION: Inhibit the synthesis of proteins by bacterial ribosomes.</p> <p>EXAMPLES: Prostaphorin, Streptogramin B.</p>



SULFONAMIDES	TETRACYCLINES	MACROLIDES	QUINOLONES	GLYCOPETIDES	STREPTODRAGINS
<p>STRUCTURE: First commercial antibiotic was sulfonamides.</p> <p>MODE OF ACTION: All inhibit the sulfonamide group.</p> <p>EXAMPLES: Sulfamethoxazole, sulfisoxazole, sulfacetamide.</p> <p>MODE OF ACTION: The sulfonamides bind prevent their growth and multiplication. Cause allergic reactions in some patients.</p>	<p>STRUCTURE: Becoming less popular due to development of resistance.</p> <p>MODE OF ACTION: All possess 4 adjacent quinolone rings.</p> <p>EXAMPLES: Tetracycline (doxycycline, demecycline), chlortetracycline.</p> <p>MODE OF ACTION: Inhibit synthesis of proteins by bacteria, preventing growth.</p>	<p>STRUCTURE: Second most prescribed antibiotics in the 1990s.</p> <p>MODE OF ACTION: All possess a 14, 15, or 16-membered macrocyclic ring.</p> <p>EXAMPLES: Erthromycin (aztreonam), clindamycin, vancomycin.</p> <p>MODE OF ACTION: Inhibit protein synthesis by bacteria, preventing growth to cell death.</p>	<p>STRUCTURE: Potent antibiotics commonly used as 'drugs of last resort'.</p> <p>MODE OF ACTION: All possess 2 carbonyl groups in their structure.</p> <p>EXAMPLES: Ciprofloxacin, levofloxacin, moxifloxacin.</p> <p>MODE OF ACTION: Inhibit synthesis of proteins by bacteria, preventing growth.</p>	<p>STRUCTURE: Resistance evolves rapidly.</p> <p>MODE OF ACTION: All possess fused aromatic rings with a carbonyl and a quinolone.</p> <p>EXAMPLES: Ciprofloxacin, levofloxacin, moxifloxacin.</p> <p>MODE OF ACTION: Inhibit synthesis of proteins by bacteria, preventing growth.</p>	<p>STRUCTURE: Resistance of resistance rates.</p> <p>MODE OF ACTION: All possess a lipid bound to a protein.</p> <p>EXAMPLES: Streptogramin B.</p> <p>MODE OF ACTION: Inhibit protein synthesis by bacteria.</p> <p>EXAMPLES: Chloramphenicol, streptomycin, kanamycin.</p> <p>MODE OF ACTION: Inhibit synthesis of proteins by bacteria, preventing growth.</p>

Microbiology Antibiotics Study Guide

**Patrick R. Murray, American Society for
Microbiology**

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Study Guide to Accompany Microbiology, Fourth Edition George A. Wistreich,1984 **Study Guide to Accompany Pelczar, Chan, and Krieg: Microbiology** Noel R. Krieg,Michael Joseph Pelczar,1986 **Principles of Modern Microbiology** Mark Wheelis,2008 Principles of Modern Microbiology presents an authoritative balanced introduction to microbiology for majors Ideal for the one semester course the text provides a manageable amount of detail omitting topics that were previously taught in prerequisite courses while still maintaining a level of intellectual rigor appropriate for students at this level A dynamic art program presents accurate molecular cellular images in an innovative 3 D like style while the author's clear student friendly writing style helps students grasp difficult concepts Great Experiments

boxes throughout the text describe real world experiments and allow students to gain a clear sense of the experimental process as it applies to microbiology Complete with a wealth of student and instructor resources Principles of Modern Microbiology is sure to engage and inspire majors who are looking to expand their knowledge of the many facets of microbiology **Oral and Maxillofacial Surgery** Lars Andersson,Karl-Erik Kahnberg,M. Anthony Pogrel,2012-01-10 Oral and Maxillofacial Surgery Oral and Maxillofacial Surgery Edited by Lars Andersson Karl Erik Kahnberg and M Anthony Pogrel Oral and Maxillofacial Surgery is a comprehensive reference for all trainees and specialists in oral and maxillofacial surgery oral surgery and surgical dentistry This landmark new resource draws together current research practice and developments in the field as expressed by world authorities The book s aim is to cover the full scope of oral and maxillofacial surgery incorporating recent technical and biological developments within the specialty It provides a uniquely international and contemporary approach reflecting the exciting developments of technique and instrumentation within this surgical field built on technical innovation and medical and dental research Oral and Maxillofacial Surgery coalesces impressively broad and deep coverage of this surgical specialty into a cohesive and readable resource identifying commonalities and shedding light on controversies through reasoned discussion and balanced presentation of the evidence The Editors are joined by over 50 international experts offering a truly global perspective on the full spectrum of issues in oral and maxillofacial surgery The book s coverage extends from basic principles such as patient evaluation dental anesthesia wound healing infection control and surgical instruments to coverage of the complex areas of dentoalveolar surgery oral pathologic lesions trauma implant surgery dentofacial deformities temporomandibular joint disorders and salivary gland disorders Where relevant the book provides separate coverage of topics where practice differs significantly from region to region such as general anesthesia Comprehensive reference covering full scope of oral and maxillofacial surgery Covers state of art clinical practice and the basic principles that underpin it Promotes an intellectually and internationally inclusive approach to oral and maxillofacial surgery Nearly 100 expert contributors brought together under the aegis of a renowned international editorial team Richly illustrated with medical artwork and clinical images ALSO OF INTEREST Clinical Periodontology and Implant Dentistry Fifth Edition Edited by Jan Lindhe Niklaus P Lang Thorkild Karring ISBN 9781405160995 Textbook and Color Atlas of Traumatic Injuries to the Teeth Fourth Edition Edited by Jens Andreasen Frances Andreasen Lars Andersson ISBN 9781405129541

Microbiology: An Introduction, Global Edition Gerard Tortora,Gerard J. Tortora,Berdell R. Funke,Christine L. Case,Derek Weber,Warner B. Bair,2024-10-11 For pre nursing allied health students and mixed majors courses Connect microbiology to future healthcare careers Tortora Case Bair Weber Funke s Microbiology An Introduction delivers an exceptionally clear presentation of complex topics a careful balance of concepts and applications and pedagogically superior art The trusted clinical focus and student friendly narrative help students understand why microbiology is relevant to their future healthcare careers The 14th Edition deepens the clinical focus and integrates SARS CoV 2 and COVID 19 coverage

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Basic and Practical Microbiology Ronald M. Atlas, 1986

Medical Technology Examination Review and Study Guide Anna P. Ciulla,Georganne K. Buescher,Joan H. Youse,1988 **Tintinalli's Emergency Medicine: A Comprehensive Study Guide, Seventh Edition** Judith Tintinalli,J. Stapczynski,O. John Ma,David Cline,Rita Cydulka,Garth Meckler,2010-11-12 The landmark emergency medicine text is now in full color 17 additional chapters available for download With 418 contributors representing over 120 medical centers around the world Tintinalli s Emergency Medicine is the most practical and clinically rigorous reference of its kind It covers everything from prehospital care disaster preparedness and basic resuscitative techniques to all the major diseases requiring emergency treatment such as pulmonary emergencies renal and GU disorders and hemophilia This authoritative in depth coverage makes this classic text indispensable not only in emergency departments but also for residents and practitioners when studying or preparing for any exam they may face While continuing to provide the most current information for acute conditions the seventh edition of Tintinalli s Emergency Medicine has been substantially revised and updated to cover all of the conditions for which patients seek emergency department care in a concise and easy to read manner NEW Features Full color design with more figures and tables than ever Reader friendly chapter presentation makes it easy to find important material Updated tables covering drugs and important clinical information Patient safety considerations and injury prevention are integrated into chapters as appropriate Total revision of the dermatology section enables diagnosis by lesion description and body area affected and provides current treatment Organ systems sections reorganized to reflect considerations for actual clinical practice New chapters New adult chapters include Natural Disasters Aneurysms of the Aorta and Major Arteries Hip and Knee Pain Aortic Dissection Acute Urinary Retention Subarachnoid Hemorrhage and Intracranial Bleeding Clotting Disorders Community acquired Pneumonia and Noninfectious Pulmonary Infiltrates Type I Diabetes Type II Diabetes Anemia Tests of Hemostasis Clotting Disorders Head Injury in Adults and Children the Transplant Patient Grief Death and Dying and Legal Issues in Emergency Medicine Twelve new pediatric chapters including The Diabetic Child Hematologic Oncologic Emergencies Ear and Mastoids Eye Problems in Infants and Children Neck Masses GI Bleeding Nose and Sinuses Urologic and Gynecologic Procedures in children Renal emergencies in children Behavioral and Psychiatric Disorders in children Pediatric Procedures Pediatric ECG Interpretation Greater coverage of procedures throughout for the most common conditions seen in the emergency department Available content for download includes an additional 17 chapters such as Hyperbaric Oxygen Therapy Principles of Imaging Prison Medicine Military Medicine The Violent Patient Forensics Wound Ballistics and Drug Interactions Free downloads also feature videos and animations for teaching and learning performance of important procedures especially Ultrasound Guided Procedures

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