

# Quinolone Antimicrobial Agents

SECOND EDITION



EDITORS

David C. Hooper  
John S. Wolfson

# Quinolone Antimicrobial Agents

**A. Dalhoff**



## **Quinolone Antimicrobial Agents:**

**Quinolone Antimicrobial Agents** John S. Wolfson, David C. Hooper, 1989      **Quinolone Antimicrobial Agents** David C. Hooper, John S. Wolfson, 1993 Quinolones remain the most important class of antimicrobial agents discovered in recent years over 1000 have been synthesized and evaluated Since the publication of the original edition considerable strides have been made in the research on structure activity relationships mechanism of action resistance pharmacodynamics and drug interactions This edition consolidates and substantially updates our current state of knowledge of quinolones with thirteen new chapters having been added      Quinolone Antimicrobial Agents David C. Hooper, Ethan Runbinstein, 2003

**Quinolone Antibacterials** Jochen Kuhlmann, A. Dalhoff, H.-J. Zeiler, 2012-12-06 It has been over 30 years since the first clinically important member of the quinolone class nalidixic acid was introduced into medical practice The modification produced in the quinolone nucleus by introducing a fluorine at the 6 position led to the discovery of the newer fluoroquinolones with enhanced antibacterial activities as compared to nalidixic acid By now a great deal of preclinical and clinical experience has been obtained with these agents The intense interest in this class of antibacterial agents by chemists micro biologists toxicologists pharmacologists clinical pharmacologists and clini cians in various disciplines encouraged us to summarize the information on the history chemistry mode of action and in vitro properties kinetics and efficacy in animals mechanisms of resistance toxicity clinical pharmacology clinical experience and future prospects in one volume of the Handbook of Experimental Pharmacology As this series deals predominantly with experimental characteristics of drugs our volume is dedicated specifically to quinolones and emphasizes principally their preclinical and clinical phar macological characteristics despite the existence of several summaries on quinolones The chemistry of the quinolones is described in detail The chapter on the mode of action of quinolones reports the conclusive evidence that gyrase is the intracellular target of the quinolones however another enzyme topoisomerase IV may also be a target for quinolones and the exact mechanisms by which quinolones act bactericidally are far from being understood      The Antimicrobial Drugs Eric M. Scholar Associate Professor of Pharmacology University of Nebraska College of Medicine, William B. Pratt Professor of Pharmacology University of Michigan Medical School, 2000-05-22 The is the third edition of a text that surveys the drugs used to treat bacterial fungal prarsitic and viral infections This book contains comprehensive presentations of the mechanisms for both the antimicrobial actions and for the adverse clinical effects of these drugs Complete discussions of the pharmacology are highlighted by numerous charts and tables summarizing each drug s pharmacokinetic properties and microbial susceptibility With 3500 reference citations The Anitmicrobial Drugs provides a complete entry into the literature making it an invaluable resource for infectious disease specialists clinical pharmacists clinical microbiologists medical students pharmacy students and graduate students in pharmacology and microbiology      **The 4-Quinolones: Anti Bacterial Agents in Vitro** Geoff C. Crumplin, 2012-12-06 The 4 quinolone antibacterial agents have been under development and in use for over 25 years but

despite an enormous body of research work there are still many basic questions that remain unanswered For example we do not know how these agents kill susceptible cells or even how the drugs interact with the target molecules However we do know that the 4 quinolones display many properties which are not shared with any other group of antibacterial agents This book raises the unanswered questions and assesses the potential significance to future chemotherapy of their unique features The book also raises matters which are significant for physicians as well as for the pharmaceutical industry and the assessment of these agents by legislative bodies concerned with drug safety

The Quinolones Vincent T. Andriole, 1998 A review of quinolone antibacterial agents and new developments The book provides coverage of the history chemistry pharmacology efficacy and safety aspects of quinolones in treating specific infections including STDs respiratory and gastrointestinal infections and bacterial meningitis

Pharmacokinetics of Selected Antibacterial Agents A. Dalhoff, 1998-07 During the early years of antibiotic research there was little interest in the pharmacokinetic properties of antibacterial agents However the past decades have seen a tremendous progress in pharmacokinetic analysis which has made it necessary to reevaluate the pharmacokinetics of some of these agents This volume is a comprehensive update on the pharmacokinetics of the major antibacterial drug classes such as penicillins cephalosporins monobactams quinolones trimethoprim or tetroxoprim sulfonamide combinations and aminoglycosides It provides data on the absorption distribution metabolism and elimination of these agents and describes the recalculated pharmacokinetic parameters Special attention is given to the effect of renal function and dialysis One chapter summarizes dose recommendations in patients with different degrees of renal impairment Due to their wide spectrum of activities against a large variety of gram positive and gram negative bacteria many of the agents described are suitable for treating infections of the respiratory and the urinary tract sexually transmitted diseases skin as well as gastrointestinal infections Providing a useful basis for selecting the most suitable compound for the treatment of an individual infection this book will be appreciated by those working in the fields of infectious diseases antibacterial therapy pharmaceuticals and pharmacokinetics

*Bacterial Resistance to Antimicrobials* Richard G. Wax, Kim Lewis, Abigail A. Salyers, Harry Taber, 2007-12-05 The enormous genetic flexibility of bacteria jeopardizes the usefulness of currently available antibiotics and requires new approaches to antibiotic discovery and development Antimicrobial resistance can be acquired in a short time frame both by genetic mutation and by direct transfer of resistance genes across genus and species boundaries Under

**The New Generation of Quinolones** Siporin, 1990-08-28 Surveys the newest members of a family of antimicrobial drugs increasingly being used to treat infections of the urinary tract lungs skin bones and diarrheal diseases The drugs have been developed only since the 1960s and still pose many questions about resistance and toxic and developmental side effects

*The Quinolones* Vincent T. Andriole, 2013-10-22 The Quinolones covers reviews on the history chemistry and mechanism of action in vitro properties pharmacokinetics clinical overview toxicity adverse effects and drug interactions and future prospects of the 4 quinolones The book discusses the microbiology of quinolones particularly with consideration of

the development of resistance pharmacology toxicology and clinical uses Chemists microbiologists pharmacologists and clinicians will find the book useful Logan Turner's Diseases of the Nose, Throat and Ear, 10Ed Arthur Turner, 1987-12-30

I am unaware of any textbook which provides such comprehensive coverage of the field and doubt that this work will be surpassed in the foreseeable future if ever From the foreword by Robert C Moellering Jr M D Shields Warren Mallinckrodt Professor of Medical Research Harvard Medical School USA Kucers The Use of Antibiotics is the leading major reference work in this vast and rapidly developing field More than doubled in length compared to the fifth edition the sixth edition comprises 3000 pages over 2 volumes in order to cover all new and existing therapies and emerging drugs not yet fully licensed Concentrating on the treatment of infectious diseases the content is divided into 4 sections antibiotics anti fungal drugs anti parasitic drugs and anti viral drugs and is highly structured for ease of reference Within each section each chapter is structured to cover susceptibility formulations and dosing adult and paediatric pharmacokinetics and pharmacodynamics toxicity and drug distribution detailed discussion regarding clinical uses a feature unique to this title Compiled by an expanded team of internationally renowned and respected editors with a vast number of contributors spanning Europe Africa Asia Australia South America the US and Canada the sixth edition adopts a truly global approach It will remain invaluable for anyone using antimicrobial agents in their clinical practice and provides in a systematic and concise manner all the information required when treating infections requiring antimicrobial therapy Kucers The Use of Antibiotics is available free to purchasers of the books as an electronic version on line or on your desktop It provides access to the entire 2 volume print material It is fully searchable so you can find the relevant information you need quickly Live references are linked to PubMed referring you to the latest journal material Customise the contents you can highlight sections and make notes Comments can be shared with colleagues tutors for discussion teaching and learning The text can also be reflowed for ease of reading Text and illustrations copied will be automatically referenced to Kucers The Use of Antibiotics

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Seventh Edition adopts a truly global approach It remains invaluable for anyone using antimicrobial agents in their clinical practice and provides in a systematic and concise manner all the information required when prescribing an antimicrobial to treat infection

**Antibacterial Chemotherapeutic Agents** S.L. Dax,2012-12-06 Over the past 50 years a wide variety of antibacterial substances have been discovered and synthesised and their use in treating bacterial infection has been spectacularly successful Today there are several general classes of antibacterial drugs each having a well established set of uses and together they form the mainstay of modern antibacterial chemotherapy In search for new and improved agents the pharmaceutical researcher needs to be well informed on many topics including existing agents their modes of action and pharmacology and possible synthetic approaches In this new book the author has brought together a wide range of information on the principal classes of antibacterial agents and he covers for each group their history mode of action key structural features synthesis and bacterial resistance The result is a compact and concise overview of these very important classes of antibacterial agents

Cumulated Index Medicus ,1986 **Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases E-Book** John E. Bennett,Raphael Dolin,Martin J. Blaser,2019-08-08 For four decades physicians and other healthcare providers have trusted Mandell Douglas and Bennett s Principles and Practice of Infectious Diseases to provide expert guidance on the diagnosis and treatment of these complex disorders The 9th Edition continues the tradition of excellence with newly expanded chapters increased global coverage and regular updates to keep you at the forefront of this vitally important field Meticulously updated by Drs John E Bennett Raphael Dolin and Martin J Blaser this comprehensive two volume masterwork puts the latest information on challenging infectious diseases at your fingertips Provides more in depth coverage of epidemiology etiology pathology microbiology immunology and treatment of infectious agents than any other infectious disease resource Features an increased focus on antibiotic stewardship new antivirals for influenza cytomegalovirus hepatitis C hepatitis B and immunizations and new recommendations for vaccination against infection with pneumococci papillomaviruses hepatitis A and pertussis Covers newly recognized enteroviruses causing paralysis E A71 E D68 emerging viral infections such as Ebola Zika Marburg SARS and MERS and important updates on prevention and treatment of C difficile infection including new tests that diagnose or falsely over diagnose infectious diseases Offers fully revised content on bacterial pathogenesis antibiotic use and toxicity the human microbiome and its effects on health and disease immunological mechanisms and immunodeficiency and probiotics and alternative approaches to treatment of infectious diseases Discusses up to date topics such as use of the new PCR panels for diagnosis of meningitis diarrhea and pneumonia current management of infected orthopedic implant infections newly recognized infections transmitted by black legged ticks in the USA Borrelia miyamotoi and Powassan virus infectious complications of new drugs for cancer new drugs for resistant bacteria and mycobacteria new guidelines for diagnosis and therapy of HIV infections and new vaccines against herpes zoster influenza meningococci PPID continues its tradition of including leading experts from a truly global community

including authors from Australia Canada and countries in Europe Asia and South America Includes regular updates online for the life of the edition Features more than 1 500 high quality full color photographs with hundreds new to this edition Enhanced eBook version included with purchase which allows you to access all of the text figures and references from the book on a variety of devices      Kucers' The Use of Antibiotics Sixth Edition M Lindsay Grayson, Suzanne M Crowe, James S McCarthy, John Mills, Johan W Mouton, S Ragnar Norrby, David L Paterson, Michael A Pfaller, 2010-10-29 I am unaware of any textbook which provides such comprehensive coverage of the field and doubt that this work will be surpassed in the foreseeable future if ever From the foreword by Robert C Moellering Jr M D Shields Warren Mallinckrodt Professor of Medical Research Harvard Medical School USA Kucers The Use of Antibiotics is the leading major reference work in this vast and rapidly developing field More than doubled in length compared to the fifth edition the sixth edition comprises 3000 pages over 2 volumes in order to cover all new and existing therapies and emerging drugs not yet fully licensed Concentrating on the treatment of infectious diseases the content is divided into 4 sections antibiotics anti fungal drugs anti parasitic drugs and anti viral drugs and is highly structured for ease of reference Within each section each chapter is structured to cover susceptibility formulations and dosing adult and paediatric pharmacokinetics and pharmacodynamics toxicity and drug distribution detailed discussion regarding clinical uses a feature unique to this title Compiled by an expanded team of internationally renowned and respected editors with a vast number of contributors spanning Europe Africa Asia Australia South America the US and Canada the sixth edition adopts a truly global approach It will remain invaluable for anyone using antimicrobial agents in their clinical practice and provides in a systematic and concise manner all the information required when treating infections requiring antimicrobial therapy Kucers The Use of Antibiotics is available free to purchasers of the books as an electronic version on line or on your desktop It provides access to the entire 2 volume print material It is fully searchable so you can find the relevant information you need quickly Live references are linked to PubMed referring you to the latest journal material Customise the contents you can highlight sections and make notes Comments can be shared with colleagues tutors for discussion teaching and learning The text can also be reflowed for ease of reading Text and illustrations copied will be automatically referenced to Kucers The Use of Antibiotics      Fifty Years of Antimicrobials Society for General Microbiology. Symposium, 1995-05-04 A look back over the development of antibiotics since Fleming's day and a look forward to future challenges      **Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases** John E. Bennett, MD, MACP, Raphael Dolin, MD, Martin J. Blaser, MD, 2014-08-28 After thirty five years Mandell Douglas and Bennett's Principles and Practice of Infectious Diseases 8th Edition is still the reference of choice for comprehensive global guidance on diagnosing and treating the most challenging infectious diseases Drs John E Bennett and Raphael Dolin along with new editorial team member Dr Martin Blaser have meticulously updated this latest edition to save you time and to ensure you have the latest clinical and scientific knowledge at your fingertips With new chapters expanded and updated coverage

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**Fluoroquinolone Antibiotics** Allan R. Ronald, Donald Low, 2012-12-06 The quinolones are making a significant contribution to patient care and have added a new dimension to antibacterial therapy During the last decade they became important agents for treating hospital acquired infections This volume covers their mechanisms of action resistance mechanisms and epidemiology pharmacokinetics safety and clinical applications Their effectiveness for respiratory urinary sexually transmitted skin soft tissue bone and joint infections infections of the eyes ears nose and throat and less common infections such as mycobacterial Brucella and others are reviewed Also described is their use in pediatric oncology and immunocompromised patients The quinolone story continues to be intriguing with exciting future implications This monograph is an important comprehensive review and update for researchers and clinicians in pharmacology clinical medicine molecular and cell biology epidemiology and the pharmaceutical industry



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web we utilize the equation that relate amount remaining initial mass and number of half lives  $n = \frac{t}{T} \times \log_2 \frac{N_0}{N}$  125 g 5 what is the half life of an isotope that is 80% remained after 16 days solution remaining 80/100 therefore  $n = \frac{t}{T} \times \log_2 \frac{N_0}{N}$  now using the half life equation in example 1 we have

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web section learning objectives by the end of this section you will be able to do the following explain radioactive half life and its role in radiometric dating calculate radioactive half life and solve problems associated with radiometric dating section key terms half life and the rate of radioactive decay unstable nuclei decay

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