TUBERCULOSIS

A COMPREHENSIVE CLINICAL REFERENCE

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H. Simon Schaaf, Alimuddin Zumla

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minimise the side effects Chapter 9 aims on improving in time diagnosis of extrapulmonary tuberculosis and particularly urogenital tuberculosis by making clear its features Chapter 10 deals with the comparative genomics bioinformatic analyses and genome wide screening approaches for the better understanding of these immunologically important proteins and summarizes that PEPPE domain from mycobacteria belongs to the family of serine hydrolase proteins and the phylogenetic analysis has shown that Mycobacterium tuberculosis is of recent decent Towards individualised treatment of tuberculosis Katarina Niward, 2019-04-24 Each year around 10 million of individuals develop active tuberculosis TB Worldwide TB is the leading cause of death from an infectious agent surpassing both malaria and HIV Current treatment regimens are long and therefore encompass a risk of nonadherence and development of acquired drug resistance reflected in the increase of multidrug resistant MDR and extensively drug resistant XDR TB Indeed this calls for prudent use of existing TB drugs and improvement of TB treatment strategies The aim of this thesis was to investigate the current drug susceptibility testing DST breakpoints for Mycobacterium tuberculosis M tuberculosis the pharmacokinetics and pharmacodynamics PK PD of TB treatment and to explore the role of therapeutic drug monitoring TDM for optimising TB treatment Drug resistance in M tuberculosis is expressed over a continuous scale and for some drugs it may be identified as low and high level resistance This has been poorly reflected in currently used binary susceptibility breakpoints for TB drugs Results from genome sequencing and phenotypic DST of ofloxacin and levofloxacin were compared in study I and current breakpoints were found to misclassify up to 25% of M tuberculosis isolates with resistance mutations in gyrA as susceptible to fluoroquinolones This finding may have implications for the classification of XDR TB treatment of MDR TB and the evaluation of fluoroguinolones in clinical studies Study II was a prospective cohort study of susceptible TB in Sweden where drug concentrations of first line TB drugs were measured along with the susceptibility level of the bacteria defined by the minimum inhibitory concentration MIC of M tuberculosis First line drug concentrations below the reference range 16 42% were common and most pronounced for rifampicin 13 31 42% An exploratory investigation of PK PD parameters displayed a wide distribution of ratios between drug exposures and MICs Rifampicin exhibited higher level of individual fluctuations over time during TB treatment compared with isoniazid In study III the plasma drug concentrations of rifampicin were compared to the tuberculosis drug activity assay TDA and results showed that rifampicin drug levels but not drug levels of the other first line drugs correlated with TDA Patients with rifampicin drug levels below 8 mg L had significantly lower median TDA This finding supports the use of TDA as a potential indicator for low rifampicin exposure in resource constrained settings without access to drug concentration analysis The study design in study II has been further developed in study IV which is a prospective cohort study of MDR TB in China where drug exposure will be explored in relation to individual bacterial MIC and measurements of treatment outcome In summary the work in this thesis emphasises the importance of reliable DST of M tuberculosis and the need to re evaluate the currently used breakpoints Therapeutic drug monitoring TDM based on drug concentrations and

MICs is a useful tool to avoid suboptimal drug exposure and to individualise TB treatments Such strategies may improve treatment regimens and avoid further development of resistance Tuberculosis of the Gastrointestinal system Vishal Sharma,2022-02-22 Tuberculosis is an important concern in numerous countries across the globe Training is usually focused on pulmonary tuberculosis and the nuances of diagnosis and management of extrapulmonary tuberculosis including abdominal tuberculosis are not usually emphasized This book details the varied presentations and mimics of tubercular involvement of the abdomen and the gastrointestinal system The book provides clear guidance to the clinicians to diagnosis and manage the varied forms of abdominal tuberculosis The chapters also touch on areas of controversy and confusion Chapters are focused on each of the sites intestinal peritoneal gastroduodenal hepatobiliary and pancreatic modalities for evaluation histology microbiology radiology endoscopic ultrasound nuclear medicine differential diagnosis and follow up including response to treatment Separate chapters have also been devoted to pediatric abdominal TB therapy related hepatitis and considerations in immunocompromised states such as HIV Therefore this book will help practice clinicians and serve as a one stop resource for graduate students in internal medicine and fellows training in gastroenterology

Textbook of Pulmonary and Critical Care Medicine Vols 1 and 2 SK Jindal, PS Shankar, Suhail Raoof, Dheeraj Gupta, 2011-03-20 Book includes the basic principles of Pulmonology as well as the recent advances in allied clinical sciences relevant to pulmonology Includes valuable inputs on tuberculosis other pulmonary infections environmental and occupational medicine sleep disorders and general systemic diseases affecting the respiratory system Although critical care is relevant for most of the medical and surgical specialties the pulmonologist have a more vested interest than other specialists Assisted respiration which forms the core of most critical care lies in the primary domain of pulmonologists Handbook of Child and Adolescent Tuberculosis Jeffrey R. Starke, Peter R. Donald, 2017-06 The Handbook of Child and Adolescent Tuberculosis is a state of the art clinical reference written and edited by the world's leading experts in childhood tuberculosis It offers clinicians in any geography or setting practical evidence based advice on all aspects of the disease including its natural history epidemiology presentation treatment and prevention all in a format that synthesizes literature with the clinical experience of the leading authorities in this challenging field Homo Patiens - Approaches to the Patient in the Ancient World Georgia Petridou, Chiara Thumiger, 2015-11-16 Homo Patiens Approaches to the Patient in the Ancient World is a book about the patients of the Graeco Roman world their role in the ancient medical encounters and their relationship to the health providers and medical practitioners of their time This volume makes a strong claim for the relevance of a patient centred approach to the history of ancient medicine Attention to the experience of patients deepens our understanding of ancient societies and their medical markets and enriches our knowledge of the history of ancient cultures It is a first step towards shaping a history of the ancient patient s view which will be of use not only to ancient historians students of medical humanities and historians of medicine but also to any reader interested in medical ethics Disease Control Priorities, Third

Edition (Volume 6) King K. Holmes, Stefano Bertozzi, Barry R. Bloom, Prabhat Jha, 2017-11-06 Infectious diseases are the leading cause of death globally particularly among children and young adults The spread of new pathogens and the threat of antimicrobial resistance pose particular challenges in combating these diseases Major Infectious Diseases identifies feasible cost effective packages of interventions and strategies across delivery platforms to prevent and treat HIV AIDS other sexually transmitted infections tuberculosis malaria adult febrile illness viral hepatitis and neglected tropical diseases The volume emphasizes the need to effectively address emerging antimicrobial resistance strengthen health systems and increase access to care The attainable goals are to reduce incidence develop innovative approaches and optimize existing tools in resource Clinical Tuberculosis Peter D. O. Davies, Stephen B Gordon, Geriant Davies, 2014-04-30 Completely constrained settings updated and revised Clinical Tuberculosis continues to provide the TB practitioner whether in public health laboratory science or clinical practice with a synoptic and definitive account of the latest methods of diagnosis treatment and control of this challenging and debilitating disease New in the Fifth Edition Gamma interferon based *Emerging Infectious Diseases* Infections of the Central Nervous System W. Michael Scheld, Richard J. Whitley, Christina M. Marra, 2014-04-21 Tap into the gold standard on central nervous system infections Infections of the Central Nervous System 4e is now fully revised and updated to accommodate the wealth of new CNS information discovered over the past decade More than 90 leading experts contribute chapters providing comprehensive up to date information With a broad scope and thorough detail the text addresses pathogenesis clinical manifestations diagnosis and therapy of various CNS infections and related conditions Features Every chapter has been extensively revised and updated nearly half with new author teams NEW chapter on acute encephalitis NEW clinical information on treatment of tuberculosis non tubercular mycobacterial infections brain abscess and Lyme disease NEW color design and color images Numerous diagrams figures tables illustrations and photographs demonstrate the content Evidence based references ICT Analysis and Applications Simon Fong, Nilanjan Dey, Amit Joshi, 2020-02-03 This book proposes new technologies and discusses future solutions for ICT design infrastructures as reflected in high quality papers presented at the 4th International Conference on ICT for Sustainable Development ICT4SD 2019 held in Goa India on 5 6 July 2019 The conference provided a valuable forum for cutting edge research discussions among pioneering researchers scientists industrial engineers and students from all around the world Bringing together experts from different countries the book explores a range of central issues from an international perspective

The Royal Marsden Manual of Clinical Nursing Procedures, Student Edition Sara Lister, Justine Hofland, Hayley Grafton, Catherine Wilson, 2021-03-22 The student edition of The Royal Marsden Manual of Clinical Nursing Procedures has been the definitive market leading textbook of clinical nursing skills for fifteen years This internationally best selling title sets the gold standard for nursing care providing the procedures rationale and guidance required by pre registration students to deliver clinically effective patient focused care with expertise and confidence With over two hundred detailed procedures

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