

SPECIAL ISSUE ARTICLE

Travelers' tropical skin diseases: Challenges and interventions

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Abstract

Tropical regions receive a significant part of the traveling population. It is very important that health professionals are familiar with the main tropical skin diseases and able to advise patients appropriately. This article reviews the main tropical diseases of travelers, with an emphasis on diagnosis, management, and prevention. Among others, cutaneous larva migrans, myiasis, tungiasis, Chagas disease, Dengue fever, African trypanosomiasis, filariasis, and leishmaniasis are discussed. Increasing awareness among travelers and health care professionals can help reduce morbidity and mortality. Continued research on new drugs and vaccines is needed to reduce the risks of tropical diseases.

KEYWORDS

cutaneous larva migrans, diseases of travelers, leishmaniasis, myiasis, tropical diseases

1 | INTRODUCTION

In 2015, it is estimated that 1.2 billion people traveled around the world, and the number of international tourist arrivals is expected to increase by 3.3% a year by 2030 (United Nations World Tourism Organization, 2015). Along with the increasing number of travelers, a significant growth of travel-related illnesses including dermatologic problems is observed (Korzeniewski, Juzczak, & Jerzemowski, 2015). In tropical regions, travelers are exposed to a much larger number of insects (vectors of arthropod-borne diseases) than in temperate climate areas as well as contaminated soil and water (Korzeniewski et al., 2015). Trips to exotic destinations and tropical regions expose the travelers to risks of contracting new illness; therefore, preventive measures are required to reduce these risks.

A research study that was conducted by Freedman et al. included 17,353 travelers and concluded that skin disorders are the third most recurrent health problem that international travelers face when traveling to developing countries, only rating behind fever and acute diarrhea (Freedman, Chen, & Kozarsky, 2016). Skin diseases may affect up to 8% of travelers (Patel & Sethi, 2009). Preventive measures can be provided through travel protocols. People who plan to travel to other countries are advised to ask their health care providers for information about preventive interventions that can be obtained by following protocols such as those reported in Freedman's review. Dermatologists and general practitioners should be prepared to prevent,

diagnose and treat tropical dermatological diseases in travelers, and this review aims to assist in this task. Resources and relevant sites on tropical diseases are listed on Table 1.

2 | VIRAL EXANTHEMS

In a study by Hochstedt et al. (2008), Chikungunya (35%) and Dengue (26%) were the major of etiologies of febrile exanthem.

2.1 | Dengue fever

Dengue fever is caused by a flavivirus that has five serotypes. It is transmitted by the *Aedes* mosquito, particularly *A. aegypti*, an insect with an incubation period that varies from 4 to 10 days. It is an emergency disease and according to World Health Organization (WHO), over half of the world's population is at risk of contracting the virus that infects approximately 100 million people per year (Jelinek, 2000; Ugon, 2005; Schwartz, Mendelson, & Sidi, 1996; Tsai, 2002).

2.2 | Diagnosis

The diagnosis is made through the clinical and laboratory features, which must include fever and two of the following: severe headache, retro-ocular pain, gastrointestinal distress, myalgia, arthralgia, prostration, skin rash, and leukopenia. Over 50% of patients develop facial erythema, a macular, rubella-like exanthem, and petechiae. Dengue fever presents with one or more of the following manifestations: severe abdominal pain, persistent vomiting, fluid

Abbreviations: CLM, cutaneous larva migrans; FDA, Food and Drug Administration; WHO, World Health Organization; YFV, yellow fever

Tropical Diseases In Travelers Tropical Diseases In Travelers

Dr. Jane N. Zuckerman



Tropical Diseases In Travelers Tropical Diseases In Travelers:

Tropical Diseases in Travelers Eli Schwartz, 2009-11-24 Covering all the major tropical diseases that present a health risk to travelers this book is an invaluable resource for all practitioners who encounter the post travel patient. With emphasis on clinical signs, diagnosis and treatment, it is the first book to summarize the knowledge of post travel presentations in the otherwise non-immune and non-endemic population and will aid clinicians to evaluate travelers' symptoms. The book is divided into three parts. The first is an overview of key aspects of travel medicine; the second contains a detailed discussion of multiple viral, bacterial and parasitic infections; the third part provides a syndromic approach to patients with common travel complaints such as diarrhea, fever and respiratory infections. It also includes useful appendices with lists of anti-parasitic drugs and available diagnostic tests.

Travel and Tropical Medicine Frank J. Bia, David R. Hill, Frank Bia, 2005 This issue provides in-depth coverage of a wide range of topics in Travel Medicine that are not readily available in standard textbooks. The contributing authors are recognized experts in their fields of infectious diseases, clinical tropical medicine and travel medicine. Topics covered include new vaccines against yellow fever and Japanese encephalitis; the current prevention of malaria and treatment of common syndromes such as travelers' diarrhea and cutaneous infections acquired abroad, including cutaneous leishmaniasis. Other chapters address the pre-travel screening of high-risk travelers, problems associated with airline travel for adults and children, the common issues confronting physicians who work with travelers returning to home abroad to visit friends and relatives, sexual tourism and the interactions between HIV infection and tropical diseases. Authors also address the use of surveillance data obtained in travelers' medical issues associated with extreme travel conditions, the treatment of severe malaria and the vectors associated with common vector-borne diseases.

Travel Medicine, An Issue of Infectious Disease Clinics Alimuddin Zumla, Ronald H. Behrens, Ziad Memish, 2012-09-28 It is extremely important that physicians be aware of the wide spectrum of tropical infectious and parasitic diseases their patients may have been exposed to while traveling abroad. This volume of the ID Clinics is edited by 3 internationally renowned infectious disease physicians and provides an authoritative and comprehensive treatise on Travel Medicine.

Principles and Practice of Travel Medicine Dr. Jane N. Zuckerman, 2002-01-03 Disease knows no frontiers and almost any place in the world can be reached within 24-36 hours, less time than the incubation period of most infectious diseases. As one of today's healthcare professionals, you are expected to prevent, identify and treat all infectious diseases irrespective of geographical and climatic limitations. To do this, you must be well-versed in the development of new and improved vaccines and the rapid advances in the development of the latest drugs and treatments. Principles and Practice of Travel Medicine provides up-to-the-minute information on the prevention and treatment of travel-related illness as well as the effects travel can have on people. Written in a distinctive style, Zuckerman offers you not only the latest information but also an interesting, thought-provoking read. Your essential one-stop resource for travel medicine includes Epidemiology and surveillance of infectious diseases, Malaria and other parasitic

diseases Aviation medicine and psychology Altitude medicine Illness in returning travellers Vaccine preventable diseases Children and travel

The Travel and Tropical Medicine Manual E-Book Christopher A. Sanford, Elaine C. Jong, Paul S. Pottinger, 2016-08-07 Prevent evaluate and manage diseases that can be acquired in tropical environments and foreign countries with The Travel and Tropical Medicine Manual This pragmatic resource equips medical providers with the knowledge they need to offer effective aid covering key topics in pre and post travel medicine caring for immigrants and refugees and working in low resource settings It s also the perfect source for travelers seeking quick easy access to the latest travel medicine information Dynamic images illustrate key concepts for an enhanced visual understanding Evidence based treatment recommendations enable you to manage diseases confidently Expert Consult eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures images and references from the book on a variety of devices Evidence based appendix available at Expert Consult helps to validate treatments Highlights new evidence and content surrounding mental health and traveling Covers emerging hot topics such as Ebola virus disease viral hemorrhagic fevers the role of point of care testing in travel medicine and antibiotic resistant bacteria in returning travelers and students traveling abroad Includes an enhanced drug appendix in the back of the book

The Travel and Tropical Medicine Manual E-Book Christopher A. Sanford, Elaine C. Jong, 2008-08-05 Prevent evaluate and manage diseases that can be acquired in tropical environments and foreign countries with The Travel and Tropical Medicine Manual This pragmatic pocket sized resource equips medical providers with the knowledge they need to offer effective aid covering key topics in pre and post travel medicine caring for immigrants and refugees and working in low resource settings It s also the perfect source for travelers seeking quick easy access to the latest travel medicine information Dynamic images illustrate key concepts for an enhanced visual understanding Evidence based treatment recommendations enable you to manage diseases confidently Pocket sized format provides access to need to know information quickly and easily Highlights new evidence and content surrounding mental health and traveling Covers emerging hot topics such as Ebola virus disease viral hemorrhagic fevers the role of point of care testing in travel medicine and antibiotic resistant bacteria in returning travelers and students traveling abroad Includes an enhanced drug appendix in the back of the book

Manual of Travel Medicine Joseph Torresi, Sarah McGuinness, Karin Leder, Daniel O'Brien, Tilman Ruff, Mike Starr, Katherine Gibney, 2019-10-18 The fourth edition of this well received book provides an authoritative and up to date resource to support good practice in travel medicine a field that has evolved substantially in recent years Concretely there has been intensified monitoring of health problems among travelers as well as extensive research efforts which have led to the development of evidence based approaches to the field The book includes expert recommendations regarding e g immunizations malaria prophylaxis travelers diarrhea altitude sickness emerging infections and non infectious health issues encountered by travelers It provides a practical approach to the pre travel consultation and management of most issues that arise in medical care for travelers In addition it provides expert

advice for high risk travelers e g those with immunosuppression the elderly pregnant women and young children The text offers a user friendly practical handbook for healthcare practitioners during their clinical consultations as well as nurses and pharmacists *Travel Medicine* Annelies Wilder-Smith,2007 Every year a billion people cross international frontiers bringing with them an increase in health risks for travellers and host populations alike This book examines the evolution of travel medicine whilst questioning the development of the travel and health network *Travel Medicine E-Book* Jay S. Keystone,Phyllis E. Kozarsky,Bradley A. Connor,Hans D. Nothdurft,Marc Mendelson,Karin Leder,2018-11-22 Includes new chapters to assist your care of specific populations such as those engaging in ecotourism or military travel as well as the VIP traveler A new chapter on pre travel considerations for non vaccine preventable travel infections has also been added Provides new information on new influenza and shingles vaccines microbiome and drug resistance Zika and the pregnant or breastfeeding traveler the Viagra effect and increase in STIs refugees and immigrants and much more Covers new methods of prevention of dengue virus Zika virus chikungunya virus Middle Eastern respiratory syndrome sleeping sickness and avian flu New illustrations and numerous new tables and boxes provide visual guidance and make reference quick and easy Helps you prepare for the travel medicine examination with convenient cross references to the ISTM body of knowledge in specific chapters and or passages in the book Keeps you updated on remote destinations and the unique perils they present The Travel & Tropical Medicine Manual Elaine C. Jong,Russell McMullen,1995 Revised and improved 2nd Edition with more information on malaria traveler s diarrhea immunizations the HIV infected traveler the medical aspects of mountaineering Lyme disease and other tick transmitted diseases and travel acquired illnesses associated with fever Travel during pregnancy is updated and material on exercise and sports in the pregnant woman is included **Tropical Diseases Bulletin** ,1913

Principles and Practice of Travel Medicine Jane N. Zuckerman,2012-12-07 Principles and Practice of Travel Medicine Principles and Practice of Travel Medicine This second edition of Principles and Practice of Travel Medicine has been extensively updated to provide a comprehensive description of travel medicine and is an invaluable reference resource to support the clinical practice of travel medicine This new edition covers the many recent advances in the field including the development of new and combined vaccines malaria prophylaxis emerging new infections new hazards resulting from travel to long haul destinations health tourism and population movements The chapter on vaccine preventable diseases includes new developments in licensed vaccines as well as continent based recommendations for their administration There are chapters on the travel health management of high risk travellers including the diabetic traveller the immunocompromised those with cardiovascular renal neurological gastrointestinal malignant and other disorders psychological and psychiatric illnesses pregnant women children and the elderly With increasing numbers of ever more adventurous travellers there is discussion of travel medicine within extreme environments whilst the chapter on space tourism may well be considered the future in travel medicine Principles and Practice of Travel Medicine is an invaluable resource for health care professionals

providing advice and clinical care to the traveller Titles of related interest Atlas of Human Infectious Diseases Heiman F L Wertheim Peter Horby John P Woodall 9781405184403 2012 Infectious Diseases A Geographic Guide Eskild Petersen Lin H Chen Patricia Schlagenhauf 9780470655290 2011 Tropical Diseases in Travelers Eli Schwartz 9781405184410 2009 For more information on all our resources in Infectious Diseases please visit www.wiley.com/go/infectiousdiseases **McQs in Travel and Tropical Medicine** Dom Colbert,2009 This third edition is expanded revised and largely re written However the aim remains the same and it is hoped that anyone involved in Travel or Tropical Medicine will find the contents interesting stimulating and helpful As before it is divided into easy to read sections with clear answers that sometimes encapsulate whole diseases The four part question format is retained in order to aid those intending to take Certificate or other exams in Travel Medicine The correct answer to each question is that which is generally accepted as the best one Nonetheless the reader may quibble with some answers and the author is always happy to accept sound advice and change accordingly Travel Medicine has a broad canvas It cuts across the boundaries of Infectious Diseases Internal Medicine Tropical Medicine Geographical Medicine Aviation and Refugee Medicine Because of this the few Textbooks we have Travel Medicine are large and difficult to digest This little book attempts to set down in concise form the essential elements of Travel Medicine in a way that is easy to read yet challenging These pages certainly invite the reader to share in excitement and wonder of this fascinating subject Tropical Infectious Diseases Richard L. Guerrant,2006 The reference JAMA called an outstanding contribution and must reading is back in a fully revised New Edition This 2 volume set presents cutting edge discussions of scientific principles pathogenesis pathophysiology diagnosis treatment and prevention for the full range of tropical infectious diseases A new bonus CD ROM a clinical focused organization standardized life cycle diagrams and 850 illustrations make vital guidance easy to find and apply **Travel and Exploration** Samuel Carter Gilmour,Eustace Alfred Reynolds-Ball,1909 **Travel & Exploration** ,1909 An illustrated monthly of travel exploration sport and adventure Travel and Adventure in Many Lands Cecil Gosling,1926 **Newspaper Press Directory** ,1929 Advertisers guide containing full particulars of every newspaper magazine review and periodical published in the United Kingdom and the British isles the newspaper map of the United Kingdom the continental American Indian and colonial papers and a directory of the class papers and periodicals **The Standard Dictionary of Facts;, History, Language, Literature, Biography, Geography, Travel, Art, Government, Politics, Industry, Invention, Commerce, Science, Education, Natural History, Statistics and Miscellany** Henry Woldmar Ruoff,1922 **A System of medicine, by many writers v. 2 pt. 2, 1905/11** Sir Thomas Clifford Allbutt,1907

The Enigmatic Realm of **Tropical Diseases In Travelers Tropical Diseases In Travelers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Tropical Diseases In Travelers Tropical Diseases In Travelers** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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