

# PDQ Travelers Malaria



International Journal of Tropical Medicine and Public Health

Volume 6, Issue 1, 2015  
Crosshouse books

Original Research Paper  
DOI: 10.5455/211930/ijtmph.  
ISSN No. 2049-1984

## UNDERSTANDING THE OCCUPATIONAL TRAVELLER PROFILE TOWARD MALARIA PREVENTION ENABLES DIRECTED HEALTH PROMOTION AND PREVENTIVE PRACTICES

Ana Gloria Fonseca<sup>1</sup>, Susana Carvalho<sup>2</sup>, Sara Simões Dias<sup>1</sup>, Joao Luis Baptista<sup>2</sup>, Jorge Torgal<sup>1</sup>

<sup>1</sup>Department of Public Health, Faculdade Ciências Médicas (Nova Medical School), Universidade Nova de Lisboa (Nova Lisbon University), Campo Mártires da Pátria, 130, 1169-016 Lisboa, Portugal; <sup>2</sup>Department of Medical Sciences, Faculdade de Ciências da Saúde (Faculty of Health Sciences), Universidade da Beira Interior (Beira Interior University), Av. Infante D. Henrique, 6200-506 Covilhã, Portugal

Email: ana.fonseca@nms.unl.pt

Received: Date Dec 27, 2015 Revised and Accepted: Date Feb 23, 2016

### ABSTRACT

**Aim/background:** Increased migration and expatriation to malaria endemic countries have been appointed as contributing factor to the increasing imported malaria hospitalizations recently observed in Portugal. This study sought to profile this traveller and understand the knowledge, attitude and practice (KAP) toward malaria prevention as a necessary first step to improve and suit risk reduction strategies. **Methods:** A cross-sectional questionnaire-based study was conducted at the Lisbon International Airport aiming to characterize the Portuguese occupational traveller to Angola. Travel and travellers' characteristics associated to not seeking travel health advice and KAP toward malaria were specifically studied. **Results:** Occupational travellers represented 92.6% (n = 374/404) of the Portuguese travellers to Angola that participated in the survey. The profile found was that of an occupational traveller experienced in developing destinations to urban settings for long periods. The knowledge regarding malaria risk and prevention was good, but the same was not observed for preventive practices. Those with a chronic health conditions and those living in Angola or both in Portugal and Angola tend not to seek pre-travel medical advice and to be at higher malaria risk, considering their KAP toward malaria. **Conclusions:** Increasing watchfulness concerning occupational travellers and expatriates need to be in the public health agenda and suited interventions are needed.

**Keywords:** Angola, knowledge, attitude, practice, malaria, occupational traveller.

### INTRODUCTION

Between 2009 and 2012, annual imported malaria hospitalization episodes increased 60% in Portugal.<sup>1,2</sup> Increased corporate traveller migration and expatriation was appointed as a contributing reason. Outside Europe, top destination countries of Portuguese emigration are in Sub-Saharan Africa: Angola and Mozambique.<sup>3,4</sup>

Travellers to these destinations may be exposed to endemic infectious diseases and be a vehicle of disease importation. Sub-Saharan Africa is a region where illnesses were frequently acquired, according to GeoSentinel surveillance network, malaria being a cardinal travel-related disease.<sup>5,6</sup>

The risk of acquiring an infectious travel related disease depends on the travel characteristics and the traveller's risk profile, determined by personal characteristics and knowledge, attitude and practice (KAP) toward disease prevention.<sup>7,8</sup>

The European Travel Health Advisory Board (ETHAB) developed a questionnaire applied in cross-sectional airport surveys to ascertain travel health KAP when travelling to developing countries and important educational needs were identified.<sup>9,10</sup>

The present study adapted this methodology to characterize the Portuguese occupational traveller to Angola and travel health KAP toward malaria.

### METHODS

A self-administered, anonymous questionnaire, based on the standardized questionnaire on KAP on malaria (Q-Mal) developed by the ETHAB, was distributed to Portuguese travellers to Angola at the departure gates of International Lisbon Airport (Portugal) in July<sup>2015</sup>. Selection criteria were Portuguese aged 18-year-old or older, travel to Angola and able to fully understand the language of the questionnaire and complete it, agree to participate in the study. A total of 404 Portuguese travellers to Angola participated in the survey; mean age was 43 ± 9.4 years old and 66.8% were male (n = 270).

The Q-Mal was translated, adapted into Portuguese and then tested for ease of comprehension with a limited number of travellers. While focusing on malaria, it also included personal and socio-demographic characteristics and information regarding travel preparation. Determination of KAP toward malaria was adapted from previous studies.<sup>9,10</sup>

Knowledge was determined by the score consisting of (1) malaria risk perception compared to the actual risk as defined on malaria World Health Organization map, Angola being a high-risk destination; (2) identification of fever as disease symptom; (3) number of disease symptoms correctly identified, besides fever, from a list of 8 symptoms provided.<sup>11</sup> For each subject, correct risk perception was expressed as 0 or 1 (official risk rating = 1); correct identification of fever as disease symptom was expressed as 0 or 1 (correct answer = 1); a total

PDQ Travelers' Malaria [Patricia Schlagenhauf-Lawlor, Maia Funk-Baumann] on balimedkarangasem.com \*FREE\* shipping on qualifying offers. This handy reference guide.Buy PDQ Travelers' Malaria (PDQ Series) Pap/Cdr by Patricia Schlagenhauf ( ISBN: ) from Amazon's Book Store. Everyday low prices and free .For most of the years of recorded time no-one knew where malaria came from or how to cure it. There was an assumption that the disease owed its. The second half of the manual is a colour atlas of known endemic countries showing risk areas and malaria-free zones. Designed as a pre-travel reference text.balimedkarangasem.com - Buy PDQ Travelers' Malaria book online at best prices in India on balimedkarangasem.com Read PDQ Travelers' Malaria book reviews & author details and more.malaria risk map, Turkmenistan malaria risk map, U Uganda malaria risk map, Urban malaria, 10 Uzbekistan malaria risk map.Request PDF on ResearchGate On Jan 31, , Marc Shaw and others published PDQ Travelers' Malaria.PDQ Travelers' Malaria by Patricia Schlagenhauf-Lawlor; Maia Funk-Baumann and a great selection of similar Used, New and Collectible Books available now.Buy a cheap copy of PDQ Travelers' Malaria (Pdq) book by Patricia Schlagenhauf-Lawlor. This handy reference guide answers essential questions about.Download Download PDQ Travelers Malaria (PDQ Series) eBooks Textbooks PDF Free Download Here balimedkarangasem.com?book=X none.Title: PDQ Travelers' Malaria. Author: Schlagenhauf-Lawlor, Patricia, Ph.D./ Funk- Baumann, Maia, M.D. ISBN: X. eBay!.Available in: Paperback. Designed as a pre-travel reference guide, the manual will prove useful for travel agents, members of the World.See all books authored by Patricia Schlagenhauf-Lawlor, including Travelers Malaria, and PDQ Travelers Malaria (Pdq), and more on balimedkarangasem.comPdq Travelers' Malaria (Pb). ISBN: Author: Patricia A. Libby. Publisher Name: Pmph. \$ \$ Description TOC Author Information.Patricia Schlagenhauf-Lawlor is the author of Travelers' Malaria ( avg rating, 1 rating, 0 reviews, published ), PDQ Travellers' Malaria ( avg.

[\[PDF\] The German Theatre. Translated by Benjamin Thompson Volume 5](#)

[\[PDF\] Crochet Minion Pattern](#)

[\[PDF\] A Life Redeemed](#)

[\[PDF\] EL ZOHAR O LIBRO DEL ESPLENDOR \(Biblia de la Cabala\) \(Spanish Edition\)](#)

[\[PDF\] Dictionary of Automotive Engineering: English/German - German/English](#)

[\[PDF\] Fiction Science: The Dinosaurs of Jurassic Park and Jurassic World](#)

[\[PDF\] What Christmas is as We Grow Older](#)