



GLOBAL HEALTH 2014

The Third International Conference on Global Health Challenges

August 24 - 28, 2014

Rome, Italy

GLOBAL HEALTH 2014 Editors

Hassan Khachfe, Lebanese International University, Lebanon

Matthieu-P. Schapranow, Hasso Plattner Institute, Germany

Vesselin Gueorguiev, TU Sofia, Bulgaria

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2014) by International Academy, Research, and Industry Association (IARIA)
Please refer to the Copyright Information page.

Printed by Curran Associates, Inc. (2014)

International Academy, Research, and Industry Association (IARIA)
412 Derby Way
Wilmington, DE 19810

Phone: (408) 893-6407
Fax: (408) 527-6351

petre@iaria.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

GLOBAL HEALTH 1: PRACTICE

Usage of E-Health Services in Health Institutions and Opinions of Patients	1
<i>Merve Deniz Pak, Andac Anildi, Meric Yavuz Colak</i>	
Studies on the Use of Electrolyzed Water as a Disinfectant at Home Care	5
<i>Koichi Uimimoto, Aki Kamada, Masahiro Miyata, Syunji Nagata, Junichiro Yanagida</i>	
Timeline-based Clinical Case Manager	8
<i>Cristian Taslitchi, Florica Moldoveanu, Alin Moldoveanu, Alexandru Egner</i>	
The Implementation of Teledentistry for Pediatric Patients	14
<i>Rodrigo Mariño, David Manton, Parul Marwaha, Kerrod Hallet, Ken Clark, Matthew Hopcraft, Michael McCullough, Ann Borda</i>	
Introducing a Patient-Centered e-Health Record Over the Cloud	20
<i>Konstantinos Koumaditis, Marinos Themistocleous, George Vassilacopoulos, Andriana Prentza, Flora Malamateniou, Dimosthenis Kyriazis, George Pittas</i>	

GLOBAL HEALTH 2: TECHNOLOGY 1

Sono-Contrast Spectroscopy for Cancer Virtual Biopsy in LMIC Settings	25
<i>Yan Yu Lydia Liao</i>	
New Approach to Information Extraction from X-ray Plates	31
<i>Ivan Evg. Ivanov, Vesselin Gueorguiev, Desislava Georgieva</i>	
A Future Strategy Towards Smoking Cessation: Persuasive Multimedia Application (PMA) in Strengthening Motivation towards Smoking Prevention and Cessation	37
<i>Wan Ahmad Jaafar Wan Yahaya, Rosli Che Din, Munira Hashim</i>	
An Objective Program for the Evaluation of Medical Equipment for Updates and Maintenance	42
<i>Hassan Khachfe, Mona Aridi, Bassam Hussein, Mohamad Hajj-Hassan</i>	

GLOBAL HEALTH 3: TECHNOLOGY II

Modelling and Simulation of Mechanical Behaviour of an Ultra-Long Porous Silicon Neural Microelectrode	50
<i>Hassan Khachfe, Rayan Fayad, Soumaya Berro, Bakri AbdulHay, Houssein Hajj-Hassan, Mohamad Hajj-Hassan</i>	
Standards for Medical Information Interchange	55
<i>Dimitar Tcharaktchiev, Ivan Evgeniev Ivanov, Vesselin Gueorguiev</i>	
An Optimized Research Process for Real-time Drug Response Analysis	60
<i>Matthieu-P. Schapranow, Konrad Klinghammer, Cindy Fähnrich, Hasso Plattner</i>	
Probing the Inflammatory Pathways Associated With Increased Levels of Oxidized LDL Through the Structural Analysis of B17	67
<i>Hassan Khachfe, Soumaya Berro, Bassam Hussein, Mohamad Hajj-Hassan, Bassam Hamam, Wiam Ramadan</i>	

GLOBAL HEALTH 4: ALTERNATIVE

A Health VC for Chronic Disease Management in a Global Context	71
<i>Christo El Morr, Shadi Saleh, Walid Ammar, Nabil Natafqi, Karen Kazandjian</i>	
The Development of Action Model that Integrate Tuberculosis Case Detection and Completeness of Treatment through Women Empowerment at District Level in Indonesia	76
<i>Indang Trihandini, Poppy Yuniar, Sutiawan Sutiawan</i>	
Constituting a Model for Obesity Control: Possible Experience From the WHO Framework Convention on Tobacco Control	81
<i>Xiangcheng Wang, Tao Sun</i>	
Effect of Chlorpyrifos Exposure during Development on Skeletal and Smooth Muscles in Juvenile and Adult Rats	89
<i>Hassan Khachfe, Walaa Darwiche, Stéphane Delanaud, Veronique Bach, Jerome Gay-Quéheillard, Wiam Ramadan, Wissam Joumaa</i>	
Author Index	