Table of Contents

Foreword
Preface
Acknowledgment

Chapter 1
Learning to Accept Uncertainty as a Quality of Care Dimension
Vahé A. Kazandjian, Aralez Health LLC, USA & The Johns Hopkins University, USA

Chapter 2
Avoiding Adverse Consequences of E-Health
Shane O’Hanlon, University of Limerick, Ireland

Chapter 3
Essential Steps for Successful Implementation of the EHR to Achieve Sustainable, Safe, Quality Care
Bonnie Wesorick, Elsevier CPM Resource Center, USA

Chapter 4
Improving Patient Safety with Telemedicine: Exploring Organizational Factors
I. H. Monrad Aas, Research Unit, Division of Mental Health and Addiction, Vestfold Hospital Trust, Norway

Chapter 5
Decision Support Systems in the Process of Improving Patient Safety
Jan Kalina, Institute of Computer Science of the Academy of Sciences of the Czech Republic, Czech Republic
Jana Zvárová, Institute of Computer Science of the Academy of Sciences of the Czech Republic, Czech Republic

xxi
Chapter 6
E-Health Decision Support Systems for the Diagnosis of Dementia Diseases ........................................ 84
Isabella Castiglioni, Institute of Molecular Bioimaging and Physiology, National Research Council, Italy
Maria Carla Gilardi, Institute of Molecular Bioimaging and Physiology, National Research Council, Italy
Francesca Gallivanone, Institute of Molecular Bioimaging and Physiology, National Research Council, Italy

Chapter 7
Dimitrios Al. Alexandrou, UBITECH Research, Greece & National Technical University of Athens, Greece
Konstantinos V. Pardalis, UBITECH Research, Greece

Chapter 8
Use of Barcodes to Improve Safety in Healthcare .................................................................................. 124
Hing-Yu So, Prince of Wales Hospital, Hong Kong

Chapter 9
RFID Technologies in the Health Sector ............................................................................................... 140
Alessia D’Andrea, Institute of Research on Population and Social Policies, National Research Council Rome, Italy
Fernando Ferri, Institute of Research on Population and Social Policies, National Research Council Rome, Italy
Patrizia Grifoni, Institute of Research on Population and Social Policies, National Research Council Rome, Italy

Chapter 10
Grid Technology for Archive Solutions in Health Care Organizations .................................................. 148
Pietro Previtali, University of Pavia, Italy

Chapter 11
The Use of Medical Simulation to Improve Patient Safety ..................................................................... 155
Stuart Marshall, Monash University, Australia
Jennifer Hogan, Monash University, Australia

Chapter 12
PINATA: Taking E-Health a Step Forward ............................................................................................... 173
Alexiei Dingli, University of Malta, Malta
Charlie Abela, University of Malta, Malta
Ilenia D’Ambrogio, University of Malta, Malta
Chapter 13
HPV Detection: Current Status and Future Goals for Personalized Prevention

Aris Spathis, University General Hospital “ATTIKON”, Greece
Stavros Archondakis, 401 Army General Hospital, Greece
Petros Karakitsos, University General Hospital “ATTIKON”, Greece

Chapter 14
Assessment and Confidence Estimates of Newborn Brain Maturity from Sleep EEG

V. Schetinin, University of Bedfordshire, UK
L. Jakaite, University of Bedfordshire, UK

Chapter 15
Systems Modeling of Proliferation Mechanisms in Childhood Acute Lymphoblastic Leukemia

George I. Lambrou, University of Athens, Greece
Apostolos Zaravinos, University of Athens, Greece
Maria Adamaki, University of Athens, Greece
Spiros Vlahopoulos, University of Athens, Greece

Chapter 16
An Ontology-Driven Approach to Clinical Evidence Modelling Implementing Clinical Prediction Rules

Derek Corrigan, Royal College of Surgeons in Ireland, Ireland
Lucy Hederman, Trinity College Dublin, Ireland
Haseeb Khan, Trinity College Dublin, Ireland
Adel Taweel, Kings College London, UK
Olga Kostopoulou, Kings College London, UK
Brendan Delaney, Kings College London, UK

Chapter 17
Risk Perception as a Patient Safety Dimension

Anastasius Moumtzoglou, P. & A. Kyriakou Children’s Hospital, Greece

Compilation of References

About the Contributors

Index