

# Contents

## Part I Why Pervasive Healthcare and KM?

<b>1 Introduction</b> .....	3
Indrit Troshani and Nilmini Wickramasinghe	
<b>2 Pervasive Computing and Healthcare</b> .....	7
Nilmini Wickramasinghe	
<b>3 Implicit and Explicit Knowledge Assets in Healthcare</b> .....	15
Nilmini Wickramasinghe	
<b>4 Regulating Pervasive e-Health Services</b> .....	27
Indrit Troshani and Nilmini Wickramasinghe	
<b>5 e-Health Complexity and Actor–Network Theory</b> .....	43
Indrit Troshani	
<b>6 e-Health Trends</b> .....	57
Indrit Troshani and Nilmini Wickramasinghe	

## Part II KM and Pervasive Health

<b>7 Making Sense of Pervasive Healthcare: The Role of Knowledge Management</b> .....	69
Rajeev K. Bali	
<b>8 Managing Knowledge in Crisis Scenarios: The Use of Pervasive Technologies</b> .....	73
Rajeev K. Bali, Vikraman Baskaran, Aapo Immonen, Alan C. Richards, Ian M. Marshall and Raouf NG Naguib	
<b>9 The Analysis and Design of a Pervasive Health Record: Perspectives From Malaysia</b> .....	81
Mohd Khanapi Abd Ghani, Rajeev K. Bali, Raouf NG Naguib and Ian M. Marshall	

**10 Quality Analysis of Sensors Data for Personal Health Records on Mobile Devices** . . . . . 103  
 John Puentes, Julien Montagier, Laurent Lecornu and Jaakko Lähteenmäki

**11 Smartphone Application Design and Knowledge Management for People with Dementia** . . . . . 135  
 Nicola Armstrong, Christopher Nugent, George Moore and Dewar D. Finlay

**Part III The INET Solution and Diabetes Self-Care**

**12 Critical Perspectives on a Possible Solution** . . . . . 157  
 Steve Goldberg and Nilmini Wickramasinghe

**13 A Pervasive Technology Solution for Supporting Diabetes Self-Care** . . . . . 161  
 Nilmini Wickramasinghe, Indrit Troshani and Steve Goldberg

**14 Achieving m-health Excellence** . . . . . 173  
 Nilmini Wickramasinghe and Steve Goldberg

**15 Using Wireless to Monitor Chronic Disease Patients in Urban Poor Regions** . . . . . 195  
 Nilmini Wickramasinghe and Steve Goldberg

**16 An Examination of the Business and IT Aspects of Wireless-Enabled Healthcare Solutions** . . . . . 209  
 Suresh Chalasani, Steve Goldberg and Nilmini Wickramasinghe

**17 Applying the IPM Framework to Improve Remote Performance Management in the Contexts of Chronic Disease Care** . . . . . 221  
 Fatemeh Hoda Moghimi, Steve Goldberg and Nilmini Wickramasinghe

**Part IV Various Global Initiatives**

**18 The Possibilities Are Only Limited by Our Imaginations** . . . . . 243  
 Nilmini Wickramasinghe

**19 Online Health Information for Chronic Disease: Diabetes** . . . . . 245  
 Naffisah Mohd Hassan, Khin Than Win and Peter Hyland

**20 Development of an Internet-Based Chronic Disease Self-Management System** . . . . . 271  
 Ali Sunyaev and Dmitry Chorny

**21 Enablers of Implementing Knowledge Management Systems for Better Organisational Outcomes: An Indian Study** ..... 285  
Raj Gururajan and Heng-Sheng Tsai

**22 Expectations, Usability, and Job Satisfaction as Determinants for the Perceived Benefits for the Use of Wireless Technology in Healthcare** ..... 305  
Abdul Hafeez-Baig and Raj Gururajan

**23 Web 2.0 Panacea or Placebo for Superior Healthcare Delivery?** ..... 317  
Nilmini Wickramasinghe, Bill Davey and Arthur Tatnall

**24 E-Health Readiness Assessment Methodology (EHRAM)** ..... 331  
JunHua Li and Pradeep Ray

**25 Identifying the Taiwanese Electronic Health Record Systems Evaluation Framework and Instrument by Implementing the Modified Delphi Method** ..... 351  
Yung-Yu Su, Khin Than Win and Tieh-Chi Chung

**Epilogue** ..... 373

**Index** ..... 375



<http://www.springer.com/978-1-4614-4513-5>

Pervasive Health Knowledge Management

(Eds.)R. Bali; I. Troshani; S. Goldberg; N. Wickramasinghe

2013, XXV, 377 p. 69 illus., Hardcover

ISBN: 978-1-4614-4513-5