Table of Contents

Preface ................................................................................................................................. xiv

Chapter 1
Doing and Understanding: Use of Case Studies for Health Informatics Education and Training ............................................................................................................. 1
Cynthia LeRouge, Saint Louis University, USA
Herman Tolentino, Centers of Disease Control & Prevention, USA
Sherrilynne Fuller, University of Washington, USA
Allison Tuma, Saint Louis University, USA

Chapter 2
Individual, Organizational, and Technological Barriers to EHR Implementation ....................................................................................................................... 35
Matthew J. Wills, Indiana University East, USA

Chapter 3
One System of Care, One Electronic Chart ....................................................................... 55
Jennifer Gholson, Regional Health, USA
Heidi Tennyson, Regional Health, USA

Chapter 4
Big Information Technology Bet of a Small Community Hospital .................................. 70
Sergey P. Motorny, Dakota State University, USA

Chapter 5
Physician Interaction with EHR: The Importance of Stakeholder Identification and Change Management ................................................................................................. 95
Cherie Noteboom, Dakota State University, USA
Chapter 6
Primary Care Patient Management and Health Information Technology .......... 113
  Nina Multak, Drexel University, USA

Chapter 7
Good IT Requires Good Communication .................................................. 122
  Charles H Andrus, Saint Louis University, USA
  Mark Gaynor, Saint Louis University, USA

Chapter 8
Telehealth Implementation: The Voice of Experience .............................. 126
  Mary DeVany, University of Minnesota, USA
  Karla Knobloch-Ludwig, Infectious Disease Specialists, USA
  Marilyn Penticoff, University of Minnesota, USA
  Aris Assimacopoulos, Infectious Disease Specialists, USA
  Stuart Speedie, University of Minnesota, USA

Chapter 9
Avera Medical Group Pierre’s Implementation of an eConsult Program:
Bringing Specialty Practices to Patients in Rural South Dakota .................... 140
  Ann Pommer, Avera Medical Group Pierre, USA

Chapter 10
Florida Health Information Exchange: A Journey to Improving Care through
the Exchange of Patient Health Information.......................................... 152
  Alice Noblin, University of Central Florida, USA
  Kelly McLendon, Health Information Xperts, USA
  Steven Shim, Harris IT Services, USA

Chapter 11
Health Information Technology Collaboration in Community Health Centers:
The Community Partners HealthNet, Inc............................................... 171
  Elizabeth J. Forrestal, East Carolina University, USA
  Leigh W. Cellucci, East Carolina University, USA
  Xiaoming Zeng, East Carolina University, USA
  Michael H. Kennedy, East Carolina University, USA
  Doug Smith, The Community Partners HealthNet, Inc., USA
Chapter 12
CoRDS Registry: An HIT Case Study Concerning Setup and Maintenance of a Disease Registry ................................................................. 197
  Seth Trudeau, Sanford Health, USA

Chapter 13
Healthcare Systems using Clinical Data: Addressing Data Interoperability Challenges........................................................................................................ 208
  Biswadip Ghosh, Metropolitan State University of Denver, USA

Chapter 14
User and Data Classification for a Secure and Practical Approach for Patient-Doctor Profiling Using an RFID Framework in Hospital .............. 224
  Masoud Mohammadian, University of Canberra, Australia
  Ric Jentzsch, University of Canberra, Australia

Chapter 15
Application of Handheld Computing and Mobile Phones in Diabetes Self-Care ........................................................................................................... 254
  Abdullah Wahbeh, Dakota State University, USA

Chapter 16
Mobile Device Application in Healthcare ......................................................................................................................... 276
  Sandeep Lakkaraju, Dakota State University, USA
  Santhosh Lakkaraju, Dakota State University, USA

Chapter 17
Clinical Decision Support System for Diabetes Prevention: An Illustrative Case............................................................................................................. 308
  Sarin Shrestha, Dakota State University, USA

Compilation of References ................................................................................................................................................. 330

About the Contributors ............................................................................................................................................... 358

Index ........................................................................................................................................................................ 368