# Handbook of Research on Healthcare Administration and Management

## Table of Contents

### Section I: Data and Decision Making

**Chapter 1:** Data Accuracy Considerations with mHealth  
*Sako, Z., Karpathiou, V., Adibi, S., & Wickramasinghe, N.*

**Chapter 2:** GIS, Spatial analysis and Modeling: The case of Breast Cancer Incidence in the US  
*Rouzbehani, K., Sajjadi, G., & Hatami, M. R.*

**Chapter 3:** Data-Driven Approaches for Developing Clinical Practice Guidelines  
*Zhang, Y., & Padman, R.*

**Chapter 4:** Opportunities and Challenges of Big Data in Healthcare  
*Mukhtar, W. F., & Abuelyaman, E. S.*

**Chapter 5:** Leveraging Key Aspects of Collaborative Techniques to Assist Clinical Decisions  
*Moghimi, H., Schaffer, J., & Wickramasinghe, N.*

**Chapter 6:** Data Mining Approach for Predicting the Likelihood of Infertility in Nigerian Women  

### Section II: Healthcare Process Aspects

**Chapter 7:** Operations Project and Management in Trauma Centers: The case of brazilian units  
*Spiegel, T., & Assad, D. B. N*

**Chapter 8:** Lean Thinking in Global Health Care: Theory and Applications  
*Kasemsap, K.*

**Chapter 9:** The first step in attainment way toward excellence quality & productivity in organization (Case study on Hasheminejad Hospital)  
*Abdolshah, M., Karimi, A., Ghasemi, A., Khorasanian, M., & Mirhashemi, S. M.*

### Section III: Information Communication Technology Issues

**Chapter 10:** The Importance of Telemedicine in Global Health Care
Kasemsap, K.

Chapter 11: What e-Mental Health can offer to Saudi Arabia Using an Example of Australian E-Mental Health

Abuzinadah, Y., Binhadyan, B., & Wickramasinghe, N.

Chapter 12: Smart Medication Management, Current Technologies and Future Directions

Rokni, S. A., Ghasemzadeh, H., & Hezarjaribi, N.

Chapter 13: Chaotic Function based ECG Encryption System

Singh, B., Singh, M., & Sharma, D.

Chapter 14: Mastering Electronic Health Record in Global Health Care

Kasemsap, K.

Chapter 15: The Development of a Secure Hospital Messaging and Communication Platform

Moghimi, H., & Wickramasinghe, N.

Chapter 16: Emerging Technologies & ICT Solutions in Healthcare

Bansal, D.

Chapter 17: Analyzing the Role of Health Information Technology in Global Health Care

Kasemsap, K.

Chapter 18: Health Information System

TYAGI, A. & Singh, P.

Chapter 19: Smart Technology for Non Invasive Biomedical sensors to measure physiological parameters

Rajasekaran, K., Xavier, A. M., & Jegan, R.

Section IV: Patient-Provider Interface

Chapter 20: Investigating Acceptance of Nursing Information Systems through UTAUT Lens


Chapter 21: Social Forces that Influence Health IT Use Behaviour of the Elderly

Bozan, K., Davey, B., & Parker, K. R.
Chapter 22: Active and Healthy Aging: Satisfaction with Health Services of Elder Patients in Turkey
Özmete, E.

Chapter 23: Effecting Superior Pain Management Strategies by Combining Technology with Tradition
Dr. Foo, C. K.

Chapter 24: The Potential of Crowdsourcing in the Health Care Industry
Ghosh, K., & Sen, K. C.

Chapter 25: Trends of Social Media Applications in Healthcare: A Managerial Perspective
Aboelmaged, M. G., Thomas, S. S., & Elsheikh, S.

Chapter 26: Preventing Occupational Stress in Railway Engine Pilots: Issues at a Glance
Kumar, D., & Kharwar, P. S.

Chapter 27: Hospital Social Media Strategies - Patient or Organization Centric
Payton, F. C., & Pinto, N.

Section V: Policy Implications

Chapter 28: A factor analytical study of Safety and Health issues in select small and medium manufacturing concerns
Joshi, M., & Bajaj, R.

Chapter 29: Promoting Health Literacy in Global Health Care
Kasemsap, K.

Chapter 30: The Fundamentals of Health Literacy
Kasemsap, K.

Chapter 31: The Applicability of Currently Available Adults ADHD Treatment Tools
Binhadyan, B., & Wickramasinghe, N.

Chapter 32: Health Policy Implementation: Moving Beyond Its Barriers in United States
Rouzbehani, K.

Chapter 33: Patient Privacy and Security in E-health
**Gürel, G.**

**Chapter 34: Accountable Care and Evidence-Based Decision Making**

Wickramasinghe, N., & Goldberg, S.

**Section VI: Theoretical Considerations**

**Chapter 35: Readiness as a novel construct of Readiness Acceptance Model (RAM) for the Wireless Handheld Technology**

Hafeez-Baig, A.

**Chapter 36: A Taxonomy for mHealth**

Edirisinghe, R., Stranieri, A., & Wickramasinghe, N.

**Chapter 37: A guideline to use activity theory for collaborative healthcare information systems design**

Durst, C., Wickramasinghe, N., & Riechert, J.

**Chapter 38: Mathematical Programming and Heuristics for Patient Scheduling in Hospitals - A Survey**

Gartner, D., & Padman, R.

**Chapter 39: Building an Ontological Framework for Healthcare: The case of the health cluster**

Toh, K., Heffernan, M. E., Karpathiou, V., Ramaprasad, A., & Wickramasinghe, N.

**Chapter 40: Adoption of Mobile Devices in the Australian Healthcare: A Conceptual Framework Approach**

Sood, V. R., Gururajan, R., Hafeez-Baig, A. & Wickramasinghe, N.