

Convergence of Population Health Management, Pharmacogenomics, and Patient-Centered Care

Part of the Advances in Healthcare Information Systems and Administration Book Series

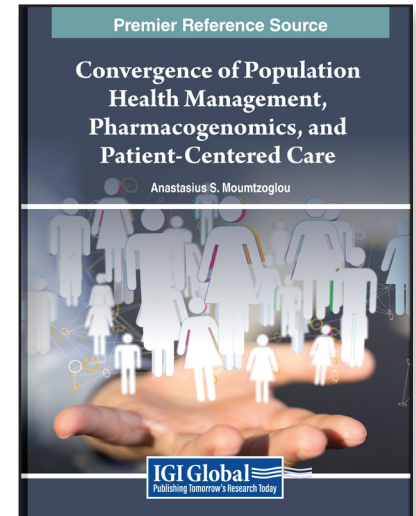
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Description:

The current healthcare framework, often characterized by standardized treatments and one-size-fits-all approaches, falls short in addressing the unique genetic compositions, lifestyles, and environmental factors that influence individual patient outcomes. This gap necessitates a radical reevaluation of healthcare practices, from reshaping infrastructure to redefining the roles of patients and doctors. The challenges are formidable, requiring critical reflection and bold initiatives to overcome obstacles and pave the way for a future where patient-centered care seamlessly integrates with population health management, leveraging data, technology, ethics, and collaboration for a global healthcare revolution. **Convergence of Population Health Management, Pharmacogenomics, and Patient-Centered Care** is a book that unveils a comprehensive exploration of solutions and pathways towards this transformative vision.

This comprehensive guide is tailored for academic scholars, healthcare professionals, and students navigating the landscape of personalized medicine, population health management, and the digitalization of healthcare. Authored by leading experts, the book aims to serve as a compendium of terms, definitions, and in-depth explanations of key concepts. Its objectives include supporting students in understanding healthcare domains, aiding healthcare professionals in meeting patient needs, assisting patients in deriving more benefits from their healthcare, and guiding e-health systems' designers and managers in grounding practices on the science of individuality.

Covering an array of subjects from mobile computing and artificial intelligence to the social determinants of health, the book offers insights into marker-assisted diagnosis, proactive preventative medicine, efficient healthcare models, and the integration of population health data. It explores ethical considerations in the age of 'Big Data,' modernizing regulatory frameworks, and the role of patients in shaping pharmaceutical advancements. With a focus on cutting-edge technologies like 3D printing drugs and precision medicine through pharmacogenomics, the book presents a holistic view of the interconnected future of healthcare.



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Topics Covered:

- Artificial Intelligence and Machine Learning in Healthcare
- Business Models and Infrastructure for Healthcare
- Cost Efficiency in Healthcare
- De-Identified Datasets in Healthcare
- Digitalization of Healthcare Services
- Digitizing Healthcare and Improving IT Systems
- Early Illness Detection with Liquid Biopsies
- Equity and Ethical Standards in Healthcare
- Healthcare Reform
- Increased Treatment Efficacy
- Information Technology Adoption in Healthcare
- Integrating Precision Medicine into the Healthcare System
- Interconnectivity and Standardization in Healthcare
- Interpretable and Explainable Healthcare
- Noninvasive Molecular Imaging
- Personalized Medicine
- Population Health Management
- Time Efficiency in Healthcare

Subject: Medicine & Healthcare

Classification: Edited Reference

Readership Level: Advanced-Academic Level
(Research Recommended)

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

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