

Review

# Artificial Intelligence–Based Consumer Health Informatics Application: Scoping Review

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## Abstract

**Background:** There is no doubt that the recent surge in artificial intelligence (AI) research will change the trajectory of next-generation health care, making it more approachable and accessible to patients. Therefore, it is critical to research patient perceptions and outcomes because this trend will allow patients to be the primary consumers of health technology and decision makers for their own health.

**Objective:** This study aimed to review and analyze papers on AI-based consumer health informatics (CHI) for successful future patient-centered care.

**Methods:** We searched for all peer-reviewed papers in PubMed published in English before July 2022. Research on an AI-based CHI tool or system that reports patient outcomes or perceptions was identified for the scoping review.

**Results:** We identified 20 papers that met our inclusion criteria. The eligible studies were summarized and discussed with respect to the role of the AI-based CHI system, patient outcomes, and patient perceptions. The AI-based CHI systems identified included systems in mobile health (13/20, 65%), robotics (5/20, 25%), and telemedicine (2/20, 10%). All the systems aimed to provide patients with personalized health care. Patient outcomes and perceptions across various clinical disciplines were discussed, demonstrating the potential of an AI-based CHI system to benefit patients.

**Conclusions:** This scoping review showed the trend in AI-based CHI systems and their impact on patient outcomes as well as patients' perceptions of these systems. Future studies should also explore how clinicians and health care professionals perceive these consumer-based systems and integrate them into the overall workflow.

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## KEYWORDS

consumer informatics; artificial intelligence; mobile health; mHealth; patient outcomes; personalized health care; machine learning; digital health; mobile phone

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## Introduction

### Background

Health information technologies have been a fundamental part of health care delivery systems in the last decade, advancing the care significantly [1]. Traditionally, health information technologies are classified into 3 categories, namely clinical

technologies (eg, electronic health records and clinical decision support systems), collaborative technologies (eg, patient portals), and consumer technologies (eg, mobile health [mHealth] app) [2]. As health care shifts to more community and public settings to enable preventive and patient-centered care, patients have increasingly engaged with self-care management using various consumer health technologies [3,4]. The use of various consumer health informatics (CHI) tools has increased dramatically during

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**Rachel Sandford**



## **Health Informatics Review Report:**

**Health Informatics Review** ,2008      **Health Informatics Review** Great Britain. Department of Health,2008

*Statistical Methods in Healthcare* Frederick W. Faltin,Ron S. Kenett,Fabrizio Ruggeri,2012-07-24 Statistical Methods in Healthcare In recent years the number of innovative medicinal products and devices submitted and approved by regulatory bodies has declined dramatically The medical product development process is no longer able to keep pace with increasing technologies science and innovations and the goal is to develop new scientific and technical tools and to make product development processes more efficient and effective Statistical Methods in Healthcare focuses on the application of statistical methodologies to evaluate promising alternatives and to optimize the performance and demonstrate the effectiveness of those that warrant pursuit is critical to success Statistical methods used in planning delivering and monitoring health care as well as selected statistical aspects of the development and or production of pharmaceuticals and medical devices are also addressed With a focus on finding solutions to these challenges this book Provides a comprehensive in depth treatment of statistical methods in healthcare along with a reference source for practitioners and specialists in health care and drug development Offers a broad coverage of standards and established methods through leading edge techniques Uses an integrated case study based approach with focus on applications Looks at the use of analytical and monitoring schemes to evaluate therapeutic performance Features the application of modern quality management systems to clinical practice and to pharmaceutical development and production processes Addresses the use of modern statistical methods such as Adaptive Design Seamless Design Data Mining Bayesian networks and Bootstrapping that can be applied to support the challenging new vision Practitioners in healthcare related professions ranging from clinical trials to care delivery to medical device design as well as statistical researchers in the field will benefit from this book      **Clinical Informatics Study Guide** John T. Finnell,Brian E. Dixon,2022-04-22 This completely updated study guide textbook is written to support the formal training required to become certified in clinical informatics The content has been extensively overhauled to introduce and define key concepts using examples drawn from real world experiences in order to impress upon the reader the core content from the field of clinical informatics The book groups chapters based on the major foci of the core content health care delivery and policy clinical decision making information science and systems data management and analytics leadership and managing teams and professionalism The chapters do not need to be read or taught in order although the suggested order is consistent with how the editors have structured their curricula over the years Clinical Informatics Study Guide Text and Review serves as a reference for those seeking to study for a certifying examination independently or periodically reference while in practice This includes physicians studying for board examination in clinical informatics as well as the American Medical Informatics Association AMIA health informatics certification This new edition further refines its place as a roadmap for faculty who wish to go deeper in courses designed for physician fellows or graduate students in a variety of clinically

oriented informatics disciplines such as nursing dentistry pharmacy radiology health administration and public health

**Evaluating Health Promotion** Margaret Thorogood, Yolande Coombes, 2010-05-13 Health Promotion is a relatively new discipline and there is little in the way of practical help for students and practitioners in choosing and implementing appropriate evaluation methods As the demands for rigorous evaluation and evidence based decision making increase health promotion cannot ignore the need for accurate reliable and valid methods to carry out evaluation This book provides clear descriptions with plentiful practical examples of such methods and the problems that can arise from their implementation Both qualitative and quantitative methods that are commonly used are described and the problems and benefits that arise with their use are explained Experiences in the practical implementation of evaluation are explained with examples from a variety of different social economic and cultural contexts The third edition of this highly successful book has been fully revised and updated to reflect the ongoing developments in the field of health promotion It will appeal to students and practitioners in health promotion and public health including programme managers in both the government and the voluntary sector and donors and funding agencies who commission health promotion interventions and evaluations

**Impact of Consumer Health Informatics Applications** U. S. Department of Health and Human Services, Agency for Healthcare Research and Quality, 2013-05-17 Interest is emerging concerning the potential of technology and eHealth solutions that are tailored to consumers This emerging field has been referred to as consumer health informatics CHI It has been defined by Eysenbach as a branch of medical informatics that analyzes consumers needs for information studies and implements methods of making information accessible to consumers and models and integrates consumers preferences into medical information systems For the purpose of this review we define CHI applications as any electronic tool technology or system that is 1 primarily designed to interact with health information users or consumers and 2 interacts directly with the consumer who provides personal health information to the CHI system and receives personalized health information from the tool application or system and 3 is one in which the data information recommendations or other benefits provided to the consumer may be used with a healthcare professional but is not dependent on a healthcare professional As such for the purposes of this review we have excluded point of care devices e g glucometer remote monitoring devices prescribed clinical devices that are part of the provision of clinical care general information websites message boards and applications that are designed for use in a work environment This definition has the following advantages 1 It keeps the focus of the review on how CHI applications meet the needs of consumers rather than the needs of clinicians 2 It helps avoid a categorical disease oriented evaluation of every clinical technological development for every disease which is not necessarily focused on the needs of consumers 3 It helps to keep the focus of the review on studies that demonstrate impact value or efficacy from the perspective of consumers 4 It facilitates categorization of CHI applications in ways that may be more meaningful for patients Potential categories of CHI tools technologies applications include but may not be limited to a Applications and technologies

that facilitate knowing tracking understanding clinical parameters disease management b Applications and technologies that facilitate knowing tracking understanding observations of daily living ODL s c Applications and technologies that facilitate calendaring lifestyle management assistance d Applications and technologies that facilitate prevention and health promotion e Applications and technologies that facilitate self care and f Applications and technologies that facilitate assisted care and caregiving The objective of the report is to review the literature on the evidence of the impact of currently developed CHI applications on health and health care process outcomes to identify the gaps in the literature and to recommend future research endeavors to better assess these information technology IT applications The specific Key Questions were 1 What evidence exists that CHI applications impact a Health care process outcomes e g receiving appropriate treatment among users b Intermediate health outcomes e g self management health knowledge and health behaviors among users c Relationship centered outcomes e g shared decision making or clinician patient communication among users d Clinical outcomes including quality of life among users e Economic outcomes e g cost and access to care among users 2 What are the barriers that clinicians developers and consumers and their families or caregivers encounter that limit utilization or implementation of CHI applications 3 What knowledge or evidence exists to support estimates of cost benefit and net value with regard to CHI applications 4 What critical information regarding the impact of CHI applications is needed in order to give consumers their families clinicians and developers a clear understanding of the value proposition particular to them

*Nursing: Communication Skills in Practice* Lucy Webb,2011-02-24 Nursing students require a unique guide to communication and interpersonal skills to help them succeed on both placement and in academic work This text presents the theory and practice of communication for all care settings and professional needs during the pre registration course Vital and Health Statistics ,2006 **Encyclopedia of Public Health** Wilhelm Kirch,2008-06-13 The Encyclopedic Reference of Public Health presents the most important definitions principles and general perspectives of public health written by experts of the different fields The work includes more than 2 500 alphabetical entries Entries comprise review style articles detailed essays and short definitions Numerous figures and tables enhance understanding of this little understood topic Solidly structured and inclusive this two volume reference is an invaluable tool for clinical scientists and practitioners in academia health care and industry as well as students teachers and interested laypersons **Hospital Pharmacy** Martin Stephens,2011 Aimed at students as well as professionals this is a handbook devoted to the subject of pharmacy in the hospital setting **Government Reports Announcements & Index** ,1988 **Euroabstracts** ,1994 **The Importance of Health Informatics in Public Health during a Pandemic** Arie Hasman,Mowafa S. Househ,Emmanouil Zoulias,2020-07-15 The COVID 19 pandemic has increased the focus on health informatics and healthcare technology for policy makers and healthcare professionals worldwide This book contains the 110 papers from 160 submissions accepted for the 18th annual International Conference on Informatics Management and Technology in Healthcare ICIMTH 2020 held

virtually in Athens Greece from 3 5 July 2020 The conference attracts scientists working in the field of Biomedical and Health Informatics from all continents and this year it was held as a Virtual Conference by means of teleconferencing due to the COVID 19 pandemic and the consequent lockdown in many countries around the world The call for papers for the conference started in December 2019 when signs of the new virus infection were not yet evident so early submissions were on the usual topics as announced But papers submitted after mid March were mostly focused on the first results of the pandemic analysis with respect to informatics in different countries and with different perspectives of the spread of the virus and its influence on public health across the world This book therefore includes papers on the topic of the COVID 19 pandemic in relation to informatics reporting from hospitals and institutions from around the world including South Korea Europe and the USA The book encompasses the field of biomedical and health informatics in a very broad framework and the timely inclusion of papers on the current pandemic will make it of particular interest to all those involved in the provision of healthcare everywhere

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