

Determining Health Informatics Workforce Needs in Developing Economies

William Hersh, M.D.
Alvaro Margolis, M.D., M.S.
Fernán Quirós, M.D.
Paula Otero, M.D.

Summary

Despite unprecedented advances in science and technology for health in the developed world, the developing economies are increasingly left behind. One way to bring these advances to these economies is through the use of information and communication technology (ICT), also known as eHealth. The reach of ICT, both via Internet access and mobile phones, is increasing substantially¹. Additional solutions will involve advancing education for workers² and building science capacity.³ Indeed, a number of initiatives in many countries have been undertaken.⁴ Some successful programs have involved partnerships with academic centers in developed countries⁵.

Part of the solution to advancing ICT for health care in developing economies will be to provide ICT applications and education for their optimal use. There are many questions to answer, and a sub-question to them all is what lessons can be learned from ICT and eHealth in the developed world? Among these questions are:

- What are the profiles (i.e., training, competencies) for the workforce needed to lead eHealth projects?
- What are the valid methods for quantifying workforce needs in developing countries?
- How can we account for and be respectful of variations in local perspectives (culture, language, health care systems, existing resources, etc.) in developing countries?

In developed economies there is increasing evidence that ICT can improve the quality and safety of health care while reducing its cost^{6,7}. There is also growing evidence for the value that

a well-trained ICT workforce can offer.⁸ A growing number of educational programs are emerging to meet the need to train such individuals, from graduate education⁹ to shorter courses, such as the AMA 10x10 initiative.^{10,11}

Certainly, any approach to assessing the needs for ICT knowledge and workforce development must focus on the needs of different individuals in the health care system of these countries. This includes:

- Citizens/patients – basic health literacy, use of technology for improving health and interacting with health care and public health systems;
- Health care and public health professionals – use of ICT to improve care, interact with citizens/patients, and obtain education;
- Health ICT (informatics) professionals – development, implementation, and evaluation of ICT to improve health, health care, and public health;
- Health leaders and policymakers – optimal decision making for investment and usage of health ICT.

How do we determine the needs and solutions? The process must be data-driven, using existing research capabilities. As needs will likely differ among countries, cultures, and political and economic factors, the solutions may differ by country or region. There must be a meeting of the minds among those familiar with understanding of local health priorities as well as ICT capacity and of those who are familiar with ICT and what solutions have been found to be most effective in these settings. From this will emerge solutions for appropriate ICT implementation and education of stakeholders, including the ICT workforce.

Three areas related to determining health informatics workforce needs in developing economies are discussed: eHealth applications that are most prominent in developing economies and their barriers, including workforce; what is

Determining Health Needs

Andrea Cohen, Nigel Eastman



Determining Health Needs:

Methodological approaches for determining health manpower supply and requirements, 1976 Assessing Health Needs of People from Minority Ethnic Groups Salman Rawaf, Veena Bahl, 1998 Essentials of Health Promotion James Woodall, Ruth Cross, 2021-10-06 A complete one stop shop for any student of health promotion How to improve and protect public health is one of the biggest questions facing the 21st century and this book exists to help tackle it head on Setting out the What Why When Who Where and How of health promotion across 20 bite sized chapters It explores the full range of theories context and strategies that influence contemporary health promotion Key features Comprehensive coverage all facets of health promotion introduced and explained Combines the theoretical with the practical knowledge blended with the key skills and attributes needed for effective health promotion Extensive range of global case studies read about the enormous range of possibilities and creative ways health promotion can be achieved This is the ideal textbook for any undergraduate or pre registration student starting their health promotion or public health journey It provides a complete package of information that will lay the groundwork for your learning and future practice and will help you succeed with assignments essays and exams *Determining Health Needs* Robin E. Scott MacStravic, 1978 **Oxford Handbook of Public Health Practice** David Pencheon, 2006 This is a practical public health book written by public health practitioners for public health practitioners It introduces learning practitioners to the early phases of approaching a public health issue details why an issue is important and exactly how it can be analysed and addressed It deals not only with the technical issues but crucially with how those technical issues can be implemented in order to improve the health of the population directly or via one of many important causal pathways quality of health care design and delivery It is written by experienced internationally known practitioners of public health **Assessing Forensic Mental Health Need** Andrea Cohen, Nigel Eastman, 2000 Mentally disordered offenders MDOs have dominated the recent political agenda for mental health care emphasised by cases such as those of Christopher Clunis and Michael Stone Yet successive governments have constrained the development of all health and social services by the requirement that they must be demonstrated as capable of benefiting those to whom they are applied This book analyses the development of government policy for services for MDOs since the important Butler report in 1975 and provides a theoretical framework for adjudging research which purports to demonstrate a need and outcome Finally it emphasises the subjective and value laden nature of all needs assessments and their interpretation and poses the crucial questions of whose need it is that we address through MDO services those of the patient or of society This book will be valuable to clinicians and researchers working in mental health services policy makers service commissioners and managers Features An analysis of the history of the MDO policy in relation to needs assessment pre and post the important Reed Report A methodological framework for needs assessment of MDOs Critical appraisal of alternative definitions of needs and of related concepts Critical analysis of the application of needs assessment methods A review of

research relevant to needs assessment for MDOs Needs in relation to outcome An analysis of recent policy development related to MDO services *Health Promotion* Jackie Green, Keith Tones, 2010-02-15 Beginning with a critical appraisal of the concept itself the second edition of *Health Promotion Planning and Strategies* outlines models for defining health promotion and sets out the factors involved in planning health promotion programmes that work Locating the principles and strategies of health promotion within an emerging sphere of multidisciplinary health the authors show how these can be applied within a range of contexts and settings In an attempt to bridge the gap that persists between ideological perspectives and practical implementations they delve beyond the rhetoric of empowerment and show how it can be incorporated into practice Focusing particularly on the synergistic relationship between policy and education the book re appraises the notion of health education an idea which has become marginalised in recent years and shows the fundamental importance of education in creating individual choice and generating effective advocacy for social change The question of evidence is central to the text and the book examines methods of evaluation and the role it plays in creating more effective health promotion programmes The new edition offers coverage of values and ethics working with communities the settings approach and social marketing It also provides students with a glossary of key terms Internationally relevant and multidisciplinary this is an essential text for students of health studies health promotion public health interprofessional social care courses and all healthcare professionals

Foundations for Health Promotion - E-Book Jane Wills, 2022-03-31 This hugely popular textbook provides a broad based and user friendly introduction to health promotion and its use in practice Written by Professor Jane Wills the book takes the reader through health promotion theory strategy and methods settings and implementation It is clearly structured and accessibly written with a discursive style that will appeal to readers of all levels and sufficient theoretical depth for undergraduates and postgraduates alike *Foundations for Health Promotion* is suitable for students and practitioners of nursing medicine dentistry allied health and social work who will learn the essentials of health promotion as a discipline and reflect on its potential for their own work Packed with interactive exercises to consolidate learning Focus on application of knowledge to practice Self reflection on practice in each chapter to encourage deeper engagement Case studies and research examples provide evidence base for health promotion in different professions and areas of practice New chapters on health protection communicating health and healthy universities New chapter on evaluating research and evidence key components of workforce competencies Thoroughly revised and updated throughout to reflect recent changes in health promotion theories practice and policy Accompanying videos narrated by Professor Wills give an overview of key topics

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Determining Health Needs**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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