

Determining Health Informatics Workforce Needs in Developing Economies

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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 perceptions (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 addressing 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

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Scott C. Dulebohn



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Determining Health Needs: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Determining Health Needs : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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