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Contents

Roles of Health Literacy in Relation to Social Determinants of Health and Recommendations for Informatics-Based Interventions: Systematic Review

Abstract

Immunization registries are effective electronic tools for assessing vaccination coverage, but are only as good as the information reported to them. This review summarizes studies through August 2010 on vaccination coverage in registries and identifies key characteristics of successful registries. Based on the current state of registries, paper-based charts combined with electronic registry reporting provide the most cohesive picture of coverage. To ultimately supplant paper charts, registries must exhibit increased coverage and participation.

(*Online J Public Health Inform* 2011;3(1):e3385) doi:[10.5210/ojphi.v3i1.3385](https://doi.org/10.5210/ojphi.v3i1.3385)

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Roles of Health Literacy in Relation to Social Determinants of Health and Recommendations for Informatics-Based Interventions: Systematic Review

Abstract

Objectives: Develop a website, the OLC, which supports those people who work on promoting a healthy weight and tackling obesity. Research shows that original networks where sharing of information and peer interaction take place create solutions to current public health challenges. **Methods:** Considerations that are relevant when building a new information service as well as the technical set up and information needs of users were taken into account prior to building the OLC and during continuous development and maintenance. **Results:** The OLC provides global news, resources and tools and link out to other networks, websites and organisations providing similar useful information. The OLC also uses social networking tools to highlight new and important information. **Discussion:** Networks contribute to a stronger community that can respond to emerging challenges in public health. The OLC improves connections of people and services from different backgrounds and organisations. Some challenges exist in the technical set up and also because of other aspects, e.g. public health information and differing information needs. **Conclusion:** Public health work programmes should include networking opportunities where public policy can be disseminated. The provision of necessary tools and resources can lead to better decision-making, save time and money and lead to improved public health outcomes.

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Roles of Health Literacy in Relation to Social Determinants of Health and Recommendations for Informatics-Based Interventions: Systematic Review

Abstract

A campylobacteriosis outbreak investigation provides relevant examples of how two web-based technologies were used in an outbreak setting and potential reasons for their usefulness. A web forum aided in outbreak detection and provided contextual insights for hypothesis generation and questionnaire development. An online questionnaire achieved a high response rate and enabled rapid preliminary data analysis that allowed for a targeted environmental investigation. The usefulness of these tools may in part be attributed to the existence of an internet savvy, close-knit community. Given the right population, public health officials should consider web-based technologies, including web fora and online questionnaires as valuable tools in public health investigations.

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Abstract

Lack of automated and integrated data collection and management, and poor linkage of clinical, epidemiological and laboratory data during an outbreak can inhibit effective and timely outbreak investigation and response. This paper describes an innovative web-based technology, referred to as Web Data, developed for the rapid set-up and provision of interactive and adaptive data management during outbreak situations. We also describe the benefits and limitations of the Web Data technology identified through a questionnaire that was developed to evaluate the use of Web Data implementation and application during the 2009 H1N1 pandemic by Winnipeg Regional Health Authority and Provincial Laboratory for Public Health of Alberta. Some of the main benefits include: improved and secure data access, increased efficiency and reduced error, enhanced electronic collection and transfer of data, rapid creation and modification of the database, conversion of specimen-level to case-level data, and user-defined data extraction and query capabilities. Areas requiring improvement include: better understanding of privacy policies, increased capability for data sharing and linkages between jurisdictions to alleviate data entry duplication.

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Roles of Health Literacy in Relation to Social Determinants of Health and Recommendations for Informatics-Based Interventions: Systematic Review

Abstract

Objective: To understand the online health information-seeking behaviors of people with diabetes, determine whether they utilize online social media, and to see if they would be willing to use these sites to discuss health information. **Design and sample:** 57 participants were recruited from the South-Eastern US between June and October 2009 and asked to take an online survey. Participants were asked demographic data, information about their diabetes, and Internet and online social networking use. **Results:** The majority of participants utilize popular online social networking sites and many would be willing to discuss health information online. **Conclusions:** Popular online social networks and online social media have the potential to serve as important platforms for nursing and public health interventions. In particular, these venues may serve as appropriate tools to reach minority populations and people in rural areas. Further research is needed to understand how we can use these Internet sites to reach people directly where they are and for delivering diabetes education and support.

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