Abstract

Conversion from paper-based medical records to electronic Health Records provides significant benefits to healthcare. However, there are some challenges perceived by healthcare providers when implementing Electronic Health Records. This paper aims to present some guidelines to overcome barriers associated with implementing Electronic Health Records in developing countries. This paper also presents an overview of Electronic Health Records Barriers discussed in several studies and review some studies performed in developing countries to explore the implementation barriers of the Electronic Health Records.

References

2. Organization, W.H., Electronic health records: manual for developing countries. 2006:
Manila: WHO Regional Office for the Western Pacific.


4. Scott, J., Perceived Barriers to the Use of Electronic Health Records for Infectious Disease Surveillance in Canada. 2015, Université d'Ottawa/University of Ottawa.


21. Kim, M.S., et al. Usability Challenges and Barriers in EHR Training of Primary Care
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34. Ayatollahi, H., N. Mirani, and H. Haghani, Electronic health records: what are the most important barriers? Perspectives in health information management, 2014. 11(Fall).


36. Mahalli, A.E., Adoption and Barriers to Adoption of Electronic Health Records by Nurses in Three Governmental Hospitals in Eastern Province, Saudi Arabia. Perspectives in health information management, 2015. 12(Fall).


40. Sikhondze, N.C. and L. Erasmus, Electronic medical records: a developing and
developed country analysis. 2016.
41. Msiska, K.E.M., A. Kumitawa, and B.J.M.M.J. Kumwenda, Factors affecting the
247-253.
42. Shams Amiri, N., Emerge and deploying electronic health records in developing
countries. 2012.
43. Alkraiji, A., T. Jackson, and I.J.C.-W.I.S. Murray, Health data standards and adoption
p. 1131-1134.
45. Stadelmann, J., Assessing readiness for e-health in Egypt: a case study of Cairo
University hospitals. 2012.
47. Arrowood, D., et al., Integrity of the healthcare record. Best practices for EHR
84(8): p. 58.
reliability and validity of quality measures: a review of the literature. Medical Care Research and
50. Darko-Yawson, S. and G. Ellingsen, Assessing and Improving EHRs Data Quality
52. Bayley, K.B., et al., Challenges in using electronic health record data for CER:
S80-S86.
53. [Capurro, D., et al., Availability of Structured and Unstructured Clinical Data for
Comparative Effectiveness Research and Quality Improvement: A Multi-Site Assessment.
eGEMs (Generating Evidence & Methods to improve patient outcomes). 2014; 2: 1. 2014,
Article.
54. Dullabh, P.M., et al., How patients can improve the accuracy of their medical records.
eGEMs, 2014. 2(3).
55.

**Index Terms**

Computer Science | Information Sciences

**Keywords**
Electronic Health Records, EHR Barriers, Developing Countries.