Abstract

Revolution in information and communication technologies has transformed the information management structure in almost all the organizations. It has had a great impact on healthcare organizations by improving health services and management by integrating technology with the knowledge management infrastructure. The healthcare industry is a knowledge-based community and is connected to hospitals, physicians, patients, laboratories, pharmaceuticals, clinics, pharmacies, and customers for sharing knowledge. A knowledge-based healthcare industry can improve the quality of care and service given to its people and also reduces the administrative cost. The objective of this research is to present and describe the knowledge management capabilities, the technical infrastructure, and the decision support architecture for such a healthcare management system. It envisions a healthcare knowledge management
system (HKMS) that would help to integrate important components, disseminate knowledge to the respective users and to store historical data in a database. This will immensely help the managers and developers to identify their IT needs and to plan for and develop the technical infrastructure of the health care management system for their organizations.

References

Data and Knowledge Management in Designing Healthcare Information Systems

- Holopainen, A., Galbiati, F., and Takizawa, K. 2008. Health Gateway Mobile phone technology offers easy-to-use and cost-effective telemedicine services for rural and remote
areas, Journal of eHealth Technology and Application, 5(3), pp. 261-266

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