

*Macedo, M., & Isaías, P. (2013). Standards related to interoperability in EHR & HS. In Interoperability in Healthcare Information Systems: Standards, Management and Technology. IGI Global.*

### **Abstract**

The standardization of clinical data represents a major step in the development of information and organizational knowledge of health services. The evolution of information systems from a model of different database owners to a different open software based model is a major challenge. For this reason it is essential to adopt models of metadata based on archetypes to improve the development of information systems and simultaneously integrate all applications. The adoption of clinical terminology that can translate existing knowledge and enhance its growth is a necessary goal. Accessibility, ubiquity, completeness, consistency and durability of the clinical data are essential objectives for efficiency and effectiveness gains in organizations. This chapter presents the concepts and technologies needed to implement a model of EHR (Electronic Health Record) based on a standard, open architecture. It also presents some concepts of decision support systems and business processes that can be integrated with the EHR.