Abstract

Essam Kosba

Using Information Systems to Detect and Prevent Medications Errors and Adverse Drug Events: A Review Study

Nowadays, detection and prevention of adverse drug events (ADEs) is a vital problem in healthcare. Information systems have the potential to detect and minimize ADEs in a timely and cost-effective way, preventing patient harm. Based on extensive literature review, this paper reviews information systems, modeling and simulation, clinical decision support systems, trigger tools alerting systems, data mining systems, rule-based expert systems, natural language, artificial neural network and fuzzy logic. This paper recommends new strategies to encourage more research and development of intelligence systems to detect ADEs.