Abstract

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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 to prevent patient harm. Based on extensive literature review, this paper reviews and categorizes different information systems used to detect ADEs including traditional information systems, modeling; simulation, clinical decision support systems, trigger tools; alerting systems, data mining systems, rule-based expert systems, natural language, artificial neural network; fuzzy logic. This paper recommends new strategies to encourage more research; development of intelligence systems to detect ADEs.