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Clinical decision support for drug related events: Moving towards better prevention

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Abstract

Clinical decision support (CDS) systems with automated alerts integrated into electronic medical records demonstrate efficacy for detecting medication errors and adverse drug events. Critically ill patients are at increased risk for medication errors, adverse drug events and serious negative outcomes related to these events. Capitalizing on CDS to detect medication errors and prevent adverse drug related events has the potential to improve patient outcomes. The key to an effective medication safety surveillance system incorporating CDS is advancing the signals for alerts by using trajectory analyses to predict clinical events, instead of waiting for these events to occur. Additionally, incorporating cutting-edge biomarkers into alert knowledge in an effort to identify the need to adjust medication therapy portending harm will advance the current state of CDS. Clinical decision support can be taken a step further to identify drug related physiological events, which are less commonly included in surveillance

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