

## Using automated methods to detect safety problems with health information technology: a scoping review.

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[Health information technology](#) (HIT), such as electronic health records (EHRs) or [computerized provider order entry](#) (CPOE) systems, are [important approaches](#) to improving safety. This scoping review of 45 articles found that machine learning and statistical modeling are the most commonly used [automated](#), HIT-based methods for early detection of safety threats. Machine learning was often used to detect errors occurring in laboratory test results, prescriptions, and patient records. Statistical modeling was used to detect issues with clinical decision support systems.