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Impact of commercial computerized provider order entry (CPOE) and clinical decision support systems (CDSSs) on medication errors, length of stay, and mortality in intensive care units: a systematic review and meta-analysis.

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Prgomet M, Li L, Niazkhani Z, et al. Impact of commercial computerized provider order entry (CPOE) and clinical decision support systems (CDSSs) on medication errors, length of stay, and mortality in intensive care units: a systematic review and meta-analysis. J Am Med Inform Assoc. 2017;24(2):413-422. doi:10.1093/jamia/ocw145.
https://psnet.ahrq.gov/issue/impact-commercial-computerized-provider-order-entry-cpoe-and-clinical-decision-support

While prior research has shown that computerized provider order entry and clinical decision support systems have the potential to improve patient safety, less is known about the impact of such systems in intensive care units. In this systematic review and meta-analysis, investigators found an 85% decrease in prescribing errors and a 12% reduction in ICU mortality rates in critical care units that converted from paper orders to commercially available computerized provider order entry systems.