

Table 1

CPOE System Implementation and Adoption Outcomes

Author(s) and Year	Study Design	Outcome
Devine et al. (2010)	Pretest-posttest study of CPOE implementation	70 percent reduction in medication errors
Mattison et al. (2010)	Pretest-posttest study of CPOE implementation	Significant decrease of inappropriate medication orders
Gabow and Mehler (2011)	Postimplementation study of CPOE	Out of 112 medical centers, Denver Health was rated first and had the lowest mortality ratio.
Cartmill et al. (2012)	Pretest-posttest study of CPOE implementation	Average time from ordering to administration decreased from 100 to 64 minutes.
Magid et al. (2012)	Posttest study of CPOE implementation	Decrease in duplicate orders by 84.8 percent
Jozefczyk et al. (2013)	Pretest-posttest study of CPOE implementation	Increase in orders with no opportunity for medication errors from 42 percent to 98 percent
Zimlichman et al. (2013)	Posttest study of CPOE with CDSSs	ADE costs that were avoided ranged from \$7 to \$16 million.

ADE, adverse drug event; CDSS, clinical decision support system; CPOE, computerized provider order entry.

Sources:

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