

Use of computerized physician order entry with clinical decision support to prevent dose errors in pediatric medication orders: a systematic review.

March 27, 2024

Ruutinen H, Holmström A-R, Kunnola E, et al. Use of computerized physician order entry with clinical decision support to prevent dose errors in pediatric medication orders: a systematic review. *Pediatr Drugs*. 2024;26(2):127-143. doi:10.1007/s40272-023-00614-6.

<https://psnet.ahrq.gov/issue/use-computerized-physician-order-entry-clinical-decision-support-prevent-dose-errors>

[Computerized provider order entry \(CPOE\)](#) and [clinical decision support \(CDS\)](#) are widely used tools to help improve safe prescribing practices. This systematic review of 17 studies examined the impact of CPOE systems with CDS in preventing [pediatric medication dosing errors](#). Included studies evaluated CDS tools providing dose range checks, dose calculators, and dosing frequency checks. The majority of studies reported improvements in dose error prevention with use of CPOE-CDS systems, with eight studies reporting significant reductions in [dosing errors](#).