MeSH terms and keywords used in the Query

A: (medical records systems, computerized or electronic medical record or ambulatory care information systems or drug therapy, computer-assisted or medical order entry systems or electronic physician order entry or electronic prescribing or computerized prescribing or electronic prescription or electronic order entry or computerized physician order entry or computerized prescriber order entry or computerized provider order entry or computerized order entry or decision support systems, clinical or reminder systems or CPOE or Hospital information systems or clinical information systems)

B: (alert* or remind* or prompt* or order check or override* or critic* or critiq* or (adverse drug events AND attitude) or medical error or drug-drug interaction* or drug drug interaction* or medication decision support or warnings or medication-related decision support or medication related decision support or tier* or DDI alerts or alert overrid* or drug safety alerts or medication safety or medication-related clinical decision support or medication related system or medication or alert system or medication related decision support) related decision support

Limits: January 1990 to December 2010, Abstracts only, human studies and English language publication

Articles retrieved from searching bibliographies of relevant articles: 15

Query from previous systematic review: 22 articles

A 280,221 articles

B 588 articles

A and B 192 articles
Medline: 47, Embase: 44
Embase+Medline: 101

Total relevant articles: 78

Total articles: 67
(After removal of duplicates)

Relevant articles: 41
Medline: 10
Embase: 8
Embase+Medline: 23

Gleaning articles pertaining to DDI alerts only

Finally Reviewed

44 articles

Common reasons for rejecting articles:
- On e-prescribing and use of CPOE in various other clinical settings
- Studies on use of CPOE in patient care management
- Treatment protocols / guidelines in relation to CDSS
- Disease management & Drug treatment comparisons
- Clinical drug trials & Pharmacokinetic /dynamic studies
- Cost effective analysis of treatment options