

Table S12

Included non-randomized controlled trials (non-R,CTs); characteristics and outcomes (n = 8)

	Study Design	Setting	Intervention	Comparison	Process outcomes	Change in process outcomes in intended direction	Patient outcomes	Change in patient outcome	Harms or risk of harms <i>à priori</i> specified-? AE reported Risks to patient safety reported
		Hospital out-patient clinic Doctor's office Hospital out-patient clinic and doctor's office Emergency room	CDSS = computerised clinical decision support system; EHR: electronic health record; E-Rx; electronic prescribing eGPP = electronically generated paper prescription			W: significantly worsened B: significantly better NS: no significant differences Change in process outcomes consistent with (↑) or non-consistent with (↓) intent of intervention		W: significantly worsened B: significantly better NS: no significant differences	
1	Abramson 2011 controlled before and after	Doctor's office	CDSS in EHR with e-Rx capability	no CDSS in EHR	Rate of prescribing error	NS			<i>à priori</i> specified-main outcome AE reported-no Risks to patient safety reported-no

2	Gandhi 2005 prospective cohort	Hospital out-patient clinic and doctor's office	Computer-generation of paper prescriptions	handwritten prescribing	medication prescribing errors potential adverse drug events	NS NS			<i>á priori</i> specified-yes, main outcome AE reported-no Risks to patient safety reported: -yes, as main outcomes
3	Kirk 2005 prospective cohort	Hospital out-patient clinic	CDSS in EHR User initiated Dose calculation for pediatric patients: paracetamol and promethasine	no CDSS	Rates of prescribing errors	↑B			<i>á priori</i> specified-main outcome AE reported-no Risks to patient safety reported-yes, all errors in CDSS intervention group were due to MD override
4	Malone 2012 before and after	Doctor's office	CDSS in palm pilot User initiated To reduce likelihood of prescribing at least 1 potential drug-drug interaction	no CDSS	probability of prescribing drug-drug interaction	NS			<i>á priori</i> specified-no AE reported-no Risks to patient safety reported-no
5	Moniz 2011 before and after	Hospital out-patient clinic	e-Prescribing Prescriptions transmitted to pharmacy electronically (e-prescribing)	paper prescriptions	Prescribing error rates	↑ Error rate for e-prescriptions declined significantly while non-eRx errors did not change.			<i>á priori</i> specified-no AE reported-no Risks to

									patient safety reported- no
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