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| **Supplement 3: Systematic review study summaries** |
| **Author/year** | **Behaviour change target** | **Healthcare provider** | **EPOC category** | **Direction of Effect** |
| Auleley et al., 1997 | reduce radiography requests  | physicians | Educational Meetings Reminders  | + |
| Baumann et al., 2008 | improve first attempt at urine collection  | nurses | Educational Meetings | + |
| Becerra-Camargo et al., 2015 | reduce prescribing errors  | Pharmacists | Reminders | + |
| Bullard et al., 2004 |  use of electronic clinical decision supports  | Physicians | Clinical Practice Guidelines Reminders | + |
| Campbell et al., 2001 |  Improve response to battered women (attitude, knowledge and identification)  | All ED staff (physician, nurse, social worker, and administrator) | Interprofessional Education |  +/0 |
| De Luca et al., 2009 | referral to stroke unit | All staff in the EDs and EMS stations  | Clinical Practice Guidelines Educational Meeting | + |
| Derksen et al., 2007 | accuracy of diagnosis | Nurses | Educational Meetings | + |
| DeVos-Kerkhof et al., 2015 | improve diagnosis, compliance with model's recommendations | physicians and nurses | Educational materials Reminders | + |
| Dexheimer et al., 2013 | Decrease time to disposition decision | physicians, nurses, and respiratory therapists | Clinical Practice Guidelines Reminders Local consensus Local opinion leaders Interprofessional Education | 0 |
| Dexheimer et al., 2014 | Decrease time to disposition decision | Physicians, nurses, and respiratory therapists | Reminders Local consensus Clinical Practice Guideline Local opinion leaders Education materials  | 0 |
| Dunn et al., 2013 | motivational interviewing skills | front-line trauma center MSW and RN practitioners | Educational Meetings Tailored Interventions | + |
| Fitzgerald et al., 2011 | compliance with guideline | Staff on Trauma teams | Reminders | + |
| Geurts et al., 2016 | compliance with guideline | Nurses | Clinical Practice Guidelines Reminders | + |
| Goyal et al., 2016 | improved testing rates | Physicians | Reminders | + |
| Guenther et al., 2009 | improved documentation of possible child abuse | All ED staff | Educational Meetings Reminders | 0 |
| Holmes et al., 2015 | use of triage protocols | Nurses | Reminders | 0 |
| Kinsman et al., 2012 | appropriate referrals/use of pathways | nurses and physicians | Audit and Feedback Clinical Practice Guidelines Educational Outreach Reminders | 0 |
| Kozer et al., 2005 | reduce medication errors | ED staff and trainees | Reminders Educational Meetings  | + |
| Linn et al., 1980 | improved burn knowledge, compliance with information | physicians | Educational Meetings Audit and Feedback  | + |
| Marill et al., 1999 | Decrease physician evaluation and treatment time,  | Emergencyphysicians (faculty and residents a) | Reminders | 0 |
| Metlay et al., 2007 | antibiotic prescribing behaviour | physicians and nurses | Educational Meetings Educational Materials | + |
| Meurer et al., 2011 | thrombosis knowledge | physicians | Educational Meetings Educational Materials | + |
| Raja et al., 2015 | compliance with guideline | physicians | Audit and Feedback | + |
| Rathlev et al., 2016 | prescribing behaviours | physicians | Reminders | + |
| Smeekens et al., 2011 | ability to identify and address chlid abuse | nurses | Educational Materials | + |
| Stiell et al., 2009 | Rate of cervical spine imaging | physicians | Reminders Educational Materials Educational Meetings Local Consensus  | + |
| Stiell et al., 2010 | Rates of CT imaging | physicians | Reminders Educational Materials Educational Meetings Local consensus  | 0 |
| Stiell et al., 1997 | Referral for knee radiography | physicians | Reminders Educational Materials Educational Meetings  | + |
| Taylor et al., 2015 | Adequate analgesia prescribing  | ED staff | Reminders Educational Materials Educational Meetings Audit and Feedback | + |
| Terrell et al., 2009 | reduce inappropriate prescribing behaviours | Physicians | Reminders | + |
| Terrell et al., 2010 | reduce overprescribing behaviours | ED medicine faculty and residentphysicians | Reminders | + |
| Walensky et al., 2011 | offer of rapid HIV testing  | ED staff  | Educational MaterialsEducational Meetings  | 0 |
| Yealy et al., 2005 | compliance with pneumonia guideline recommended site of care and processes of care | ED staff | Clinical Practice Guidelines Educational materials Educational meetings Reminders Audit and Feedback | + |