**Table S1** Excluded Studies

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Author** | **Reason for Exclusion** | **Protocol** | **Ongoing trial** | **Not an intervention trial** | **Not a trial** | **Not an MED** | **MED with another intervention** | **No relevant outcome** | **Study already included/ assessed** | **Full text not found** |
| Adelaide Health Technology, A. | this is a summary paper on the use of sms messages to improve appointment attendance. It appears the referenced studies have already been screened | . | . | . | . | . | . | . | ✓ | . |
| Alhajji 20091 | Not a controlled study | . | . | . | ✓ | . | . | . | . | . |
| Andrade 2005 2 | Not an MED as defined in the protocol | . | . | . | . | ✓ | . | . | . | . |
| Annesi 1998 3 | Not a mobile technology intervention. | . | . | . | . | ✓ | . | . | . | . |
| Anon 2008 4 | Study has not finished yet | . | ✓ | . | . | . | . | . | . | . |
| Armstrong 2009 5 | This is a conference presentation of paper 192 (also conference abstract 26254) | . | . | . | . | . | . | . | ✓ | . |
| Armstrong 2008 5 | This is a conference abstract for study 192. | . | . | . | . | . | . | . | ✓ | . |
| Attof 2007 6 | It is a before and after study. Data were collected on patient care outcomes during a period of usual practice for 3 months in 2005 then .the nutritional PDA was introduced in 2006 and further patient outcome data collected. | . | . | . | ✓ | . | . | . | . | . |
| Aziz 2005 7 | The doctors had access to the PDA every alternate week. During weeks 1, 3 and 5, study participants adopted the conventional pager system for communication, and used PDAs during weeks 2, 4 and 6 - this is non-randomised and effectively a before and after study. | . | . | . | ✓ | . | . | . | . | . |
| Bacchus 1994 8. | Quick Medical Reference is a computer program (determined by reading: CMAJ 1999;161(6):725-8 Effectiveness of the Quick Medical Reference as a diagnostic tool) | . | . | . | . | ✓ | . | . | . | . |
| Baker 2002 9 | Not delivered using an MED | . | . | . | . | ✓ | . | . | . | . |
| Bakken 2006 10 | This paper describes a device. | . | . | ✓ | . | . | . | . | . | . |
| Baranowski 2003 11 | Not delivered on an MED | . | . | . | . | ✓ | . | . | . | . |
| Barry 1997 12 | Intervention is not mobile. | . | . | . | . | ✓ | . | . | . | . |
| Bartholomew 2000 13 | The intervention is not mobile. | . | . | . | . | ✓ | . | . | . | . |
| Bartley 2003 14 | This is a conference presentation of 5363 | . | . | . | . | . | . | . | ✓ | . |
| Bartley 2004 15 | This is not a controlled study so cannot be used to look at medication adherence. | . | . | . | ✓ | . | . | . | . | . |
| Basak 2008 16 | The video game was played on a PC (not mobile). | . | . | . | . | ✓ | . | . | . | . |
| Bauer 2003 17 | Pilot study, describing 2 patients in the intervention group only. | . | . | . | ✓ | . | . | . | . | . |
| Beale 2007 18 | The intervention is provided on a "mini-PC" - study is similar to 1616 - where the intervention was on a PC. | . | . | . | . | ✓ | . | . | . | . |
| Bernabe-Ortiz 2008 19 | research application only no health or health service outcome | . | . | ✓ | . | . | . | . | . | .. |
| Bird 2006 20 | uses an historical control group . | . | . | . | ✓ | . | . | . | . | . |
| Blanchet 2009 21 | This is a review article. | . | . | . | ✓ | . | . | . | . | . |
| Blive 200122 | Not an MED | . | . | . | . | ✓ | . | . | . | . |
| Bollschweiler 2008 23 | the intervention receives a Multimedia-Based Information Program (MM-IP) groups it does not appear to be delivered on a med. | . | . | . | . | ✓ | . | . | . | . |
| Bolten 1991 24 | Not delivered on an MED | . | . | . | . | ✓ | . | . | . | . |
| Bower 2000 25 | no control group | . | . | . | ✓ | . | . | . | . | . |
| Bramley 2005 26 | This is a subgroup analysis of the trial presented in paper 4594 | . | . | . | . | . | . | . | ✓ | . |
| Breitfeld 1999 27 | Pilot study with no controls. | . | . | . | ✓ | . | . | . | . | . |
| Brendryen 2008 28 | The intervention is a web-based programme with SMS & mobile interactive voice response used only to monitor lapses/relapse after the 6 week web-based behaviour change programme. | . | . | . | . | ✓ | . | . | . | . |
| Brendryen 200629 | The intervention is a web-based programme with SMS & mobile interactive voice response used only to monitor lapses/relapse after the 6 week web-based behaviour change programme. | . | . | . | . | ✓ | . | . | . | . |
| Brendryen 200830 | The intervention is a web-based programme with SMS & mobile interactive voice response used only to monitor lapses/relapse after the 6 week web-based behaviour change programme. | . | . | . | . | . | . | ✓ | . | . |
| Bridges.Org 200331 | Agreed to exclude because control and intervention groups are not concurrent | . | . | . | ✓ | . | . | . | . | . |
| Bridges.Org | Not a controlled study | . | . | . | ✓ | . | . | . | . | . |
| Broeren 2008 32 | The intervention is a computer (non-mobile) game | . | . | . | . | ✓ | . | . | . | . |
| Brown 199733 | The intervention is not mobile. | . | . | . | . | ✓ | . | . | . | . |
| Buitrago 2007 34 | Paper could not be retrieved | . | . | . | . | . | . | . | . | ✓ |
| Bullard 200435 | The mobile device is actually a laptop. | . | . | . | . | ✓ | . | . | . | . |
| Burayidi 200336 | Not delivered on an MED | . | . | . | . | ✓ | . | . | . | . |
| Burke 200937 | This is the protocol and baseline characteristics of the trial participants only. The trial is still ongoing | ✓ | . | . | . | . | . | . | . | . |
| Bushnell 200338 | Not an MED. | . | . | . | . | ✓ | . | . | . | . |
| Cadario 200739 | Not delivered on a MED. | . | . | . | . | ✓ | . | . | . | . |
| Cambpell 200940 | The intervention is not mobile. | . | . | . | . | ✓ | . | . | . | . |
| Caro 200141 | Study does not describe an MED. | . | . | . | . | ✓ | . | . | . | . |
| Chen 200542 | This describes the development of a smart phone and the ease of use. | . | . | ✓ | . | . | . | . | . | . |
| Chib 200843 | Computer games were played on a desktop computer. Confirmed by author through email correspondence. | . | . | . | . | ✓ | . | . | . | . |
| Chin 199544 | Not MED or controlled study | . | . | . | . | ✓ | . | . | . | . |
| Cole 200645 | Intervention and control MED completed concurrently | . | . | . | . | ✓ | . | . | . | . |
| Cole 200646 | The intervention is a PC based game | . | . | . | . | ✓ | . | . | . | . |
| Collier 200547 | Not a controlled study | . | . | . | ✓ | . | . | . | . | . |
| Collins | Research application only, no health or health service outcome. | . | . | ✓ | . | . | . | . | . | . |
| Coopmans 200548 | This is a PhD thesis. The results are also in a paper which we have extracted: 2075\_Coopmans. | . | . | . | . | . | . | . | ✓ | . |
| Crawford 200249 | Questionnaire validation study, no health outcomes | . | . | ✓ | . | . | . | . | . | . |
| Creveling 199850 | The intervention is not mobile (a computer game). | . | . | . | . | ✓ | . | . | . | . |
| Culley 201051 | This is a before and after study. | . | . | . | ✓ | . | . | . | . | . |
| Curl 199452 | This is a before and after study on a single ward | . | . | . | ✓ | . | . | . | . | . |
| Demiris 200753 | Not a controlled study | . | . | . | ✓ | . | . | . | . | . |
| Depompei 200854 | This is a before and after study, getting a reminder message was not random. | . | . | . | ✓ | . | . | . | . | . |
| Despont-Gros 200555 | not an med as defined per protocol | . | . | . | . | ✓ | . | . | . | . |
| Donnelly 200856 | There is no control group. | . | . | . | ✓ | . | . | . | . | . |
| Downer 200557 | Cohort study with historical control (not concurrent) | . | . | . | ✓ | . | . | . | . | . |
| Downer 200658 | It is a cohort study with historical control (not concurrent ) | . | . | . | ✓ | . | . | . | . | . |
| Drummond 199559 | research application only no health or health service outcome | . | . | ✓ | . | . | . | . | . | . |
| Dykes 200660 | Not a controlled study | . | . | . | ✓ | . | . | . | . | . |
| Elkin 200261 | Not a trial of the MED - PDA only used to collect data in both intervention and comparison groups | . | . | . | . | ✓ | . | . | . | . |
| Enders 200362 | The outcome is not a health outcome, there is no control group. | . | . | . | ✓ | . | . | . | , | . |
| Estellat 200863 | not a med as defined by the protocol. The DP system comprises four components: the Hewlett Packard™ (HP) digital pen 200; CRF with paper printed (on HP color LaserJet printers) with a special pattern, based on dots slightly displaced from an orthogonal grid, unique for each page and each CRF (Anoto™technology); the software HPWorkflow Connect 200; and the Vision Objects™ Intelligent Character Recognition (ICR) system | . | . | . | . | ✓ | . | . | . | . |
| Finlay 200664 | This study is testing the validity and reliability of a program but is not a trial | . | . | ✓ | . | . | . | . | . | . |
| Fjeldsoe 201065 | As per protocol: there are other treatment differences between the treatment and control groups besides the delivery of the MED. | . | . | . | . | . | ✓ | . | . | . |
| Fletcher 200366 | Not a health outcome | . | . | . | . | . | . | ✓ | . | . |
| Forster 199167 | research application only no health or health service outcome | . | . | ✓ | . | . | . | . | . | . |
| Freynhagen 200668 | Not a controlled study | . | . | . | ✓ | . | . | . | . | . |
| Galliher 200869 | research application only no health or health service outcome | . | . | ✓ | . | . | . | . | . | . |
| Gorini 200970 | This is a before and after study. | . | . | . | ✓ | . | . | . | . | . |
| Grad 200571 | The intervention group in addition to the pda with its info retreiver software also receives an additional course EBM that the control group does not receive | . | . | . | . | ✓ | . | . | . | . |
| Grassi 200772 | Duplicate study and results as paper 765 (which is included). | . | . | . | . | . | . | . | ✓ | . |
| Grechus 200073 | Computer game not delivered on an MED | . | . | . | . | ✓ | . | . | . | . |
| Haller 200974 | research application only no health or health service outcome | . | . | ✓ | . | . | . | . | . | . |
| Haynes 199875 | Not a controlled study | . | . | . | ✓ | . | . | . | . | . |
| Hee-Sung 200776 | The intervention involves use of internet with a phone or a wire connection. | . | . | . | . | ✓ | . | . | . | . |
| Heiberg 200777 | Questionnaire validation study, no proximal health outcomes | . | . | ✓ | . | . | . | . | . | . |
| Helwig 199878 | There is no control group. | . | . | . | ✓ | . | . | . | . | . |
| Hodgson 200579 | Not a controlled study | . | . | . | ✓ | . | . | . | . | . |
| Hufford 200280 | research application only no health or health service outcome | . | . | ✓ | . | . | . | . | . | . |
| Huss 200381 | The intervention is a computer game (the paper makes no mention that the game is mobile). | . | . | . | . | ✓ | . | . | . | . |
| Hyland 199382 | Intervention and control MED completed concurrently | . | . | . | . | . | . | . | . | . |
| Jamison 200283 | Questionnaire validation study, no proximal health outcomes | . | . | ✓ | . | . | . | . | . | . |
| Jamison 200184 | Questionnaire validation study, no proximal health outcomes | . | . | ✓ | . | . | . | . | . | . |
| Jaspan 200785 | research application only no health or health service outcome | . | . | ✓ | . | . | . | . | . | . |
| Johnson 199386 | Not delivered on MED | . | . | . | . | ✓ | . | . | . | . |
| Johnson 199587 | Not delivered on MED | . | . | . | . | ✓ | . | . | . | . |
| Johnston 200488 | There is no control group (all student had used the PDA). | . | . | . | ✓ | . | . | . | . | . |
| Joy 200389 | No control group. | . | . | . | ✓ | . | . | . | . | . |
| Juniper 200990 | Questionnaire validation study, no proximal health outcomes | . | . | ✓ | . | . | . | . | . | . |
| Junker 200891 | Questionnaire validation study, no proximal health outcomes | . | . | ✓ | . | . | . | . | . | . |
| Kato 200892 | The intervention is a PC game. | . | . | . | . | ✓ | . | . | . | . |
| Kempf 200593 | No control group. This is just a report of a survey conducted with primary care physicians using a PDA. | . | . | . | ✓ | . | . | . | . | . |
| Keshavjee 200394 | This paper describes the reasons for the failure of a trial with a PDA intervention. | . | . | ✓ | . | . | . | . | . | . |
| Kim 200795 | The intervention involved either a cellular phone or personal computer | . | . | . | . | ✓ | . | . | . | . |
| Kim 200796 | Internet access was possible by cellular phone or wired Internet | . | . | . | . | ✓ | . | . | . | . |
| Kim 200897 | The intervention was done by either a cellular phone or wire Internet (non-mobile). | . | . | . | . | ✓ | . | . | . | . |
| Kim 200598 | Intervention involved either a cellular phone or wire Internet (non-mobile). | . | . | . | . | ✓ | . | . | . | . |
| Kim 200899 | The intervention involved either a phone or wired internet (non-mobile). | . | . | . | . | ✓ | . | . | . | . |
| Koff 2006100 | The intervention is not mobile. | . | . | . | . | ✓ | . | . | . | . |
| Kozijavkin 2004101 | The intervention (computer game) is not mobile. | . | . | . | . | ✓ | . | . | . | . |
| Kramer 2000102 | Not a MED. Device too large for an 'ultra portable' computer - 290 x 226 x 25 millimetres and 1451 g in weight. | . | . | . | . | ✓ | . | . | . | . |
| Kreindlerv 2003103 | No health outcomes. | . | . | . | . | . | . | ✓ | . | . |
| Krogh 2008104 | neither device is an MED the smallest is the The Toshiba Portégé M200 which while a tablet pc I do not regard as ultra portable given that the screen alone is 12 inches and it weight around 4.6 lb. | . | . | . | . | ✓ | . | . | . | . |
| Kurth 2002105 | Uses an historic control group - not concurrent | . | . | . | ✓ | . | . | . | . | . |
| Kuruvilla 106 | Questionnaire validation study, no proximal health outcomes | . | . | ✓ | . | . | . | . | . | . |
| Kvien 2005107 | Questionnaire validation study, no proximal health outcomes | . | . | ✓ | . | . | . | . | . | . |
| Labkoff 1995108 | There was no control group (only studied the residents who had PDA's). | . | . | . | ✓ | . | . | . | . | . |
| Larkin 2001109 | Not a controlled study. | . | . | . | ✓ | . | . | . | . | . |
| Lauritsen 2004110 | research application only no health or health service outcome | . | . | ✓ | . | . | . | . | . | . |
| Ledger 2008111 | This is a study protocol. | . | . | . | ✓ | . | . | . | . | . |
| Lefever 2008112 | Questionnaire validation study, no proximal health outcomes | . | . | ✓ | . | . | . | . | . | . |
| Leijdekkers 2009113 | This describes a trial, preliminary data only. No control group information. | . | . | . | ✓ | . | . | . | . | . |
| Lester 2009114 | Trial protocol | ✓ | . | . | . | . | . | . | . | . |
| Maguire 2007115 | Conference presentation of 862 | . | . | . | . | . | . | . | ✓ | . |
| Main 2004116 | Not a controlled study | . | . | . | ✓ | . | . | . | . | . |
| Marceau 2007117 | Not a controlled study | . | . | . | ✓ | . | . | . | . | . |
| Matthew 2007118 | Questionnaire validation study, no proximal health outcomes | . | . | ✓ | . | . | . | . | . | . |
| McBride 1999119 | Questionnaire validation study, no proximal health outcomes | . | . | ✓ | . | . | . | . | . | . |
| McCann 2009120 | Qualitative study of patient experiences of using MED - main study results reported in 862 | . | . | ✓ | . | . | . | . | . | . |
| McClung 2009121 | Questionnaire validation study, no proximal health outcomes | . | . | ✓ | . | . | . | . | . | . |
| McCormack 2009122 | Exergaming is not carried out on a handheld video game console. Confirmed by author through email correspondence. | . | . | . | . | ✓ | . | . | . | . |
| McDoniel 2009123 | Not deilvered on MED. The handheld device referred to in the title is used to estimate calorie balance in patients prior to randomisation but is not being evaluated in the trial. | . | . | . | . | ✓ | . | . | . | . |
| Michalowski 2004124 | Descriptive paper. | . | . | ✓ | . | . | . | . | . | . |
| Mignogna 2007125 | This is a conference abstract for presentation of the protocol for the trial. | ✓ | . | . | . | . | . | . | . | . |
| Miskelly 2005126 | There is no control group. | . | . | . | ✓ | . | . | . | . | . |
| Morgan 2007127 | research application only no health or health service outcome | . | . | ✓ | . | . | . | . | . | . |
| Mosso 2008128 | Duplicate publication of 732 | . | . | . | . | . | . | . | ✓ | . |
| Murray 2003129 | Not a controlled study | . | . | . | ✓ | . | . | . | . | . |
| Neville 2002130 | Pilot study, no control group. | . | . | . | ✓ | . | . | . | . | . |
| Newell 2001131 | Not a controlled study | . | . | . | ✓ | . | . | . | . | . |
| Newman 1997132 | Exclude on the basis that the control gets an MED (1 component) + treatment, whereas the intervention gets MED (2 components) | . | . | . | ✓ | . | . | . | . | . |
| Nguyen 2008133 | The intervention participants could use either the PDA or a website (accessed on a non-mobile computer) to enter data. | . | . | . | . | ✓ | . | . | . | . |
| Nguyen 2006134 | Not a controlled study | . | . | . | ✓ | . | . | . | . | . |
| Nyholm 2004135 | case studies so no control group | . | . | . | ✓ | . | . | . | . | . |
| Palen 2008136 | No health outcomes measured. Control and intervention groups measured 1 year apart. | . | . | . | . | . | . | ✓ | . | . |
| Park 2009137 | The intervention includes a internet/computer usage component. | . | . | . | . | ✓ | . | . | . | . |
| Patnaik 2009138 | research application only no health or health service outcome | . | . | ✓ | . | . | . | . | . | . |
| Peng 2009139 | The paper does not specifically mention any MED in the description of the game deliver by computer | . | . | . | . | ✓ | . | . | . | . |
| Perkins 2006140 | The outcome is not a health outcome, there is no control group. | . | . | . | ✓ | . | . | . | . | . |
| Prestwich 2008141 | This is a conference presentation of the published paper 13973 | . | . | . | . | . | . | . | ✓ | . |
| Pulley 2002142 | Not delivered on MED | . | . | . | ✓ | . | . | . | . | . |
| Quinn 2009143 | This is a study protocol | ✓ | . | . | . | . | . | . | . | . |
| Raisch 2003144 | Not a controlled study | . | . | . | ✓ | . | . | . | . | . |
| Reynolds 2007145 | This is a descriptive paper/literature review. | . | . | ✓ | . | . | . | . | . | . |
| Rezaiyan 2007146 | The intervention (computer game) is not mobile. | . | . | . | . | ✓ | . | . | . | . |
| Richter 2008147 | Questionnaire validation study, no proximal health outcomes | . | . | ✓ | . | . | . | . | . | . |
| Ring 2008148 | Questionnaire validation study, no proximal health outcomes | . | . | ✓ | . | . | . | . | . | . |
| Rivellese 1991149 | Not an MED | . | . | . | . | ✓ | . | . | . | . |
| Rivera 2008150 | research application only no health or health service outcome | . | . | ✓ | . | . | . | . | . | . |
| Rosenberger 2009151 | This is a descriptive paper of an intervention trial. | . | . | . | ✓ | . | . | . | . | . |
| Rowan 2007152 | research application only no health or health service outcome | . | . | ✓ | . | . | . | . | . | . |
| Ruder 2007153 | Not a controlled study | . | . | . | ✓ | . | . | . | . | . |
| Ruland 2002154 | No proper control group: both inyervention and control have exposure to the same PDA program. | . | . | . | ✓ | . | . | . | . | . |
| Ruland 2003155 | Trial of a non-MED component that differs between the groups. The controls and interventions are not from the same time frame. | . | . | . | . | ✓ | . | . | . | . |
| Russoniello 2009156 | Not an MED | . | . | . | . | ✓ | . | . | . | . |
| Ryan 2009157. | This is a study protocol. | . | . | . | ✓ | . | . | . | . | . |
| Ryuzaki 2008158 | There is no control group. | . | . | . | ✓ | . | . | . | . | . |
| Saleh 2002159 | Questionnaire validation study, no proximal health outcomes | . | . | ✓ | . | . | . | . | . | . |
| Samore 2005160 | The intervention comprised decision support tools on paper and a handheld computer. It was not possible to separate these two. | . | . | . | . | ✓ | . | . | . | . |
| Sawa 2003161 | 1. It is a pilot study with 2 participants (the residents) 2. The completion of the examinations with and without PDA are done one directly after the other i.e. concurrently | . | . | . | ✓ | . | . | . | . | . |
| Schlickum 2009162 | Not an MED | . | . | . | . | ✓ | . | . | . | . |
| Seebregts 2009163 | Questionnaire validation study, no proximal health outcomes | . | . | ✓ | . | . | . | . | . | . |
| Sellors 2002164 | Not an MED | . | . | . | . | ✓ | . | . | . | . |
| Sevick 2008165 | The intervention was a PDA+behaviour change meetings. | . | . | . | . | . | ✓ | . | . | . |
| Shea 2004166 | Not and MED. Not a controlled study | . | . | . | . | ✓ | . | . | . | . |
| Shelby-James 2007167 | Intervention and control MED completed concurrently | . | . | . | ✓ | . | . | . | . | . |
| Silvey 2005168 | No health outcomes | . | . | . | . | . | . | ✓ | . | . |
| Snooks 2010169 | Protocol - added to ongoing studies list | ✓ | . | . | . | . | . | . | . | . |
| Stack Jr 2003170 | Not a controlled study | . | . | . | ✓ | . | . | . | . | . |
| Standen 2006171 | Abstract for a conference presentation. Does not explicitly mention any handheld video game console. | . | . | . | . | ✓ | . | . | . | . |
| Staresinic 2002172 | Not a controlled study of the MED. | . | . | . | ✓ | . | . | . | . | . |
| Sterling 2003173 | a portable pc is used not a MED as defined by protocol | . | . | . | . | ✓ | . | . | . | . |
| Stern 2007174 | Trial still ongoing |  |  |  |  |  |  |  |  |  |
| Stone 1998175 | research application only no health or health service outcome | . | . | ✓ | . | . | . | . | . | . |
| Strandbygaard | Study already included  . | . | . | . | . | . | . | . | ✓ | . |
| Stratton 1998176 | Questionnaire validation study, no proximal health outcomes | . | . | ✓ | . | . | . | . | . | . |
| Tegang 2009177 | No health outcomes measured. | . | . | . | . | . | . | ✓ | . | . |
| Trapl 2005178 | Not a controlled study | . | . | . | ✓ | . | . | . | . | . |
| Tseng 1998179 | Not a health outcome | . | . | . | . | . | . | ✓ | . | . |
| Turnin 2000180 | Intervention not delivered on an MED | . | . | . | . | ✓ | . | . | . | . |
| Turnin 1998181 | Abstract for a conference presentation. Does not mention an MED with the description of the computer game. | . | . | . | . | ✓ | . | . | . | . |
| Turnin 2001182 | Duplicate of 24182 | . | . | . | . | . | . | . | ✓ | . |
| Van Griensven 2006183 | research application only no health or health service outcome | . | . | ✓ | . | . | . | . | . | . |
| Vandenkerkhof 2003184 | Before and after pilot study (n=1) | . | . | . | ✓ | . | . | . | . | . |
| Vasterling 1993185 | The video game intervention is on a non-mobile PC (see page 70). | . | . | . | . | ✓ | . | . | . | . |
| Vidrine 2006186 | Already included | . | . | . | . | . | . | . | ✓ | . |
| Walters 2010187 | Protocol - added to ongoing study list | ✓ | . | . | . | . | . | . | . | . |
| Wang 2002188 | Questionnaire validation study, no proximal health outcomes | . | . | ✓ | . | . | . | . | . | . |
| Wetter 2006189 | Three trials mentioned in the abstract but no data provided, 1 was ongoing at the time of writing. |  |  |  |  |  |  |  |  |  |
| Woods 2006190 | Not a controlled trial of the MED. MED used to collect data for a trial from all treatment groups. | . | . | . | ✓ | . | . | . | . | . |
| Wright 2008191 | not an MED | . | . | . | . | ✓ | . | . | . | . |
| Wright 2001192 | No health outcomes | . | . | . | . | . | . | ✓ | . | . |
| Wright 2001193 | The experiment is participants using (a) a pocket computer with a physical keyboard or (b) a pocket computer with a touch screen keyboard. | . | . | . | . | ✓ | . | . | . | . |
| Yen 2005194 | it is not MED as defined per protocol. The intervention in this study was the useof a digital pen and paper system (io Digital Pen, Logitech, Inc). | . | . | . | . | ✓ | . | . | . | . |
| Yoon 2008195 | The intervention is wired internet or a cell-phone. | . | . | . | . | ✓ | . | . | . | . |
| Young 2001196 | Only reports participant perceptions regarding use , accuracy and speed , no objective primary outcomes. | . | . | . | . | . | . | ✓ | . | . |
| Zhao 2006197 | This is mainly a descriptive paper of a before and after study | . | . | ✓ | . | . | . | . | . | . |
| Zwarenstein 2007198 | Protocol paper | ✓ | . | . | ✓ | . | . | . | . | . |

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