

Table S1. List of included studies

1.	Allred DP, Kennedy M-C, Hughes C, Chen TF, Miller P. Interventions to optimise prescribing for older people in care homes. <i>Cochrane Database Syst Rev</i> [Internet]. 2016 Feb 12; Available from: http://doi.wiley.com/10.1002/14651858.CD009095.pub3
2.	Anderson LJ, Schnipper JL, Nuckols TK, Shane R, Sarkisian C, Le MM, et al. A systematic overview of systematic reviews evaluating interventions addressing polypharmacy. <i>Am J Heal Pharm</i> . 2019;76(21):1777–87.
3.	Anderson K, Stowasser D, Freeman C, Scott I. Prescriber barriers and enablers to minimising potentially inappropriate medications in adults: A systematic review and thematic synthesis. <i>BMJ Open</i> . 2014;4(12).
4.	de Barra M, Scott CL, Scott NW, Johnston M, de Bruin M, Nkansah N, et al. Pharmacist services for non-hospitalised patients. <i>Cochrane Database Syst Rev</i> [Internet]. 2018 Sep 4; Available from: http://doi.wiley.com/10.1002/14651858.CD013102
5.	Cameron ID, Dyer SM, Panagoda CE, Murray GR, Hill KD, Cumming RG, et al. Interventions for preventing falls in older people in care facilities and hospitals. <i>Cochrane Database Syst Rev</i> [Internet]. 2018 Sep 7; Available from: http://doi.wiley.com/10.1002/14651858.CD005465.pub4
6.	Christensen M, Lundh A. Medication review in hospitalised patients to reduce morbidity and mortality. <i>Cochrane Database Syst Rev</i> [Internet]. 2016 Feb 20; Available from: http://doi.wiley.com/10.1002/14651858.CD008986.pub3
7.	Eidam A, Roth A, Lacroix A, Goisser S, Seidling HM, Haefeli WE, et al. Methods to assess patient preferences in old age pharmacotherapy – A systematic review. <i>Patient Prefer Adherence</i> . 2020;14:467–97.
8.	Ellis G, Gardner M, Tsiachristas A, Langhorne P, Burke O, Harwood RH, et al. Comprehensive geriatric assessment for older adults admitted to hospital. <i>Cochrane Database Syst Rev</i> . 2017;2017(9).
9.	Geurts MME, Talsma J, Brouwers JRBJ, de Gier JJ. Medication review and reconciliation with cooperation between pharmacist and general practitioner and the benefit for the patient: a systematic review. <i>Br J Clin Pharmacol</i> . 2012 Jul;74(1):16–33.
10.	Gillaizeau F, Chan E, Trinquart L, Colombet I, Walton R, Rège-Walther M, et al. Computerized advice on drug dosage to improve prescribing practice. <i>Cochrane Database Syst Rev</i> [Internet]. 2013 Nov 12; Available from: http://doi.wiley.com/10.1002/14651858.CD002894.pub3
11.	Gillespie LD, Robertson MC, Gillespie WJ, Sherrington C, Gates S, Clemson LM, et al. Interventions for preventing falls in older people living in the community. <i>Cochrane Database Syst Rev</i> [Internet]. 2012 Sep 12; Available from: http://doi.wiley.com/10.1002/14651858.CD007146.pub3
12.	Guirguis-Blake J, Michael Y, Perdue L, Coppola E, Beil T, Thompson J. Interventions to Prevent Falls in Community-Dwelling Older Adults: A Systematic Review for the U.S. Preventive Services Task Force. <i>Evid Synth No 159</i> [Internet]. 2018;AHRQ Publi(159):Rockville, MD: Agency for HEalthcare Research and. Available from: https://www.ncbi.nlm.nih.gov/pubmed/30234932
13.	Hill-Taylor B, Sketris I, Hayden J, Byrne S, O'Sullivan D, Christie R. Application of the STOPP/START criteria: a systematic review of the prevalence of potentially inappropriate prescribing in older adults, and evidence of clinical, humanistic and economic impact. <i>J Clin Pharm Ther</i> [Internet]. 2013 Oct;38(5):360–72. Available from: http://doi.wiley.com/10.1111/jcpt.12059
14.	Holland R, Desborough J, Goodyer L, Hall S, Wright D, Loke YK. Does pharmacist-led medication review help to reduce hospital admissions and deaths in older people? A systematic review and meta-analysis. <i>Br J Clin Pharmacol</i> . 2008 Mar;65(3):303–16.
15.	Hopewell S, Adedire O, Copsey B, Boniface G, Sherrington C, Clemson L, et al. Multifactorial and multiple component interventions for preventing falls in older people living in the community (Review). <i>Cochrane Database Syst Rev</i> . 2018;(7):CD012221.

16.	Huiskes VJB, Burger DM, van den Ende CHM, van den Bemt BJB. Effectiveness of medication review: a systematic review and meta-analysis of randomized controlled trials. <i>BMC Fam Pract</i> [Internet]. 2017;18(5). Available from: http://link.springer.com/10.1023/A:1015570104121
17.	Iyer S, Naganathan V, McLachlan AJ, Le Couteur DG. Medication withdrawal trials in people aged 65 years and older: A systematic review. <i>Drugs and Aging</i> . 2008;25(12):1021–31.
18.	Johansson T, Abuzahra ME, Keller S, Mann E, Faller B, Sommerauer C, et al. Impact of strategies to reduce polypharmacy on clinically relevant endpoints: a systematic review and meta-analysis. <i>Br J Clin Pharmacol</i> [Internet]. 2016 Aug;82(2):532–48. Available from: http://doi.wiley.com/10.1111/bcp.12959
19.	Jokanovic N, Tan ECK, van den Bosch D, Kirkpatrick CM, Dooley MJ, Bell JS. Clinical medication review in Australia: A systematic review. <i>Res Soc Adm Pharm</i> . 2016;12(3):384–418.
20.	Katsimpris A, Linseisen J, Meisinger C, Volaklis K. The Association Between Polypharmacy and Physical Function in Older Adults: a Systematic Review. <i>J Gen Intern Med</i> [Internet]. 2019 Sep 25;34(9):1865–73. Available from: http://link.springer.com/10.1007/s11606-019-05106-3
21.	Kaur S, Mitchell G, Vitetta L, Roberts MS. Interventions that can Reduce Inappropriate Prescribing in the Elderly. <i>Drugs Aging</i> [Internet]. 2009 Dec;26(12):1013–28. Available from: http://link.springer.com/10.2165/11318890-000000000-00000
22.	Khalil H, Bell B, Chambers H, Sheikh A, Avery AJ. Professional, structural and organisational interventions in primary care for reducing medication errors. <i>Cochrane Database Syst Rev</i> [Internet]. 2017 Oct 4; Available from: http://doi.wiley.com/10.1002/14651858.CD003942.pub3
23.	Loganathan M, Singh S, Franklin BD, Bottle A, Majeed A. Interventions to optimise prescribing in care homes: systematic review. <i>Age Ageing</i> [Internet]. 2011 Mar 1;40(2):150–62. Available from: http://academic.oup.com/ageing/article/40/2/150/46685
24.	Mangin D, Stephen G, Bismah V, Risdon C. Making patient values visible in healthcare: a systematic review of tools to assess patient treatment priorities and preferences in the context of multimorbidity. <i>BMJ Open</i> . 2016 Jun 10;6(6):e010903.
25.	Masnoon N, Shakib S, Kalisch-Ellett L, Caughey GE. Tools for Assessment of the Appropriateness of Prescribing and Association with Patient-Related Outcomes: A Systematic Review. <i>Drugs Aging</i> . 2018 Jan 19;35(1):43–60.
26.	Meid AD, Quinzler R, Freigofas J, Saum K, Schöttker B, Holleczeck B, et al. Medication Underuse in Aging Outpatients with Cardiovascular Disease: Prevalence, Determinants, and Outcomes in a Prospective Cohort Study. Reddy H, editor. <i>PLoS One</i> . 2015 Aug 19;10(8):e0136339.
27.	Michiels-Corsten M, Gerlach N, Schleeff T, Junius-Walker U, Donner-Banzhoff N, Viniol A. Generic instruments for drug discontinuation in primary care: A systematic review. <i>Br J Clin Pharmacol</i> . 2020;86(7):1251–66.
28.	Moghadam ST, Velayati F, Sadoughi F, Ehsanzadeh S, Poursharif S. The effects of clinical decision support system for prescribing medication on patient outcomes and physician practice performance: A systematic review and meta-analysis. <i>BMC Med Informatics Decis Mak</i> [Internet]. 2020;00:1–42. Available from: https://doi.org/10.21203/rs.3.rs-18677/v2
29.	Monteiro L, Maricoto T, Solha I, Ribeiro-Vaz I, Martins C, Monteiro-Soares M. Reducing Potentially Inappropriate Prescriptions for Older Patients Using Computerized Decision Support Tools: Systematic Review. <i>J Med Internet Res</i> . 2019 Nov 14;21(11):e15385.
30.	Patton DE, Hughes CM, Cadogan CA, Ryan CA. Theory-Based Interventions to Improve Medication Adherence in Older Adults Prescribed Polypharmacy: A Systematic Review. <i>Drugs and Aging</i> . 2017;34(2):97–113.
31.	Page AT, Clifford RM, Potter K, Schwartz D, Etherton-Beer CD. The feasibility and effect of deprescribing in older adults on mortality and health: a systematic review and meta-analysis. <i>Br J Clin Pharmacol</i> . 2016;583–623.
32.	Pazan F, Kather J, Wehling M. A systematic review and novel classification of listing tools to improve medication in older people. <i>Eur J Clin Pharmacol</i> . 2019 May;75(5):619–25.

33.	Rankin A, Cadogan CA, Patterson SM, Kerse N, Cardwell CR, Bradley MC, et al. Interventions to improve the appropriate use of polypharmacy for older people. <i>Cochrane Database Syst Rev</i> . 2018 Sep 3;9.
34.	Redmond P, Grimes TC, McDonnell R, Boland F, Hughes C, Fahey T. Impact of medication reconciliation for improving transitions of care. <i>Cochrane Database Syst Rev</i> [Internet]. 2018 Aug 23; Available from: http://doi.wiley.com/10.1002/14651858.CD010791.pub2
35.	Reeve E, To J, Hendrix I, Shakib S, Roberts MS, Wiese MD. Patient barriers to and enablers of deprescribing: A systematic review. <i>Drugs and Aging</i> . 2013;30(10):793–807.
36.	Royal S, Smeaton L, Avery AJ, Hurwitz B, Sheikh A. Interventions in primary care to reduce medication related adverse events and hospital admissions: Systematic review and meta-analysis. <i>Qual Saf Heal Care</i> . 2006;15(1):23–31.
37.	Ryan R, Santesso N, Lowe D, Hill S, Grimshaw JM, Prictor M, et al. Interventions to improve safe and effective medicines use by consumers: an overview of systematic reviews. <i>Cochrane Database Syst Rev</i> [Internet]. 2014 Apr 29; Available from: http://doi.wiley.com/10.1002/14651858.CD007768.pub3
38.	Seppala LJ, Wermelink AMAT, de Vries M, Ploegmakers KJ, van de Glind EMM, Daams JG, et al. Fall-Risk-Increasing Drugs: A Systematic Review and Meta-Analysis: II. Psychotropics. <i>J Am Med Dir Assoc</i> . 2018;19(4):371.e11-371.e17.
39.	Seppala LJ, van de Glind EMM, Daams JG, Ploegmakers KJ, de Vries M, Wermelink AMAT, et al. Fall-Risk-Increasing Drugs: A Systematic Review and Meta-analysis: III. Others. <i>J Am Med Dir Assoc</i> . 2018;19(4):372.e1-372.e8.
40.	Sheehan OC, Leff B, Ritchie CS, Garrigues SK, Li L, Saliba D, et al. A systematic literature review of the assessment of treatment burden experienced by patients and their caregivers. <i>BMC Geriatr</i> . 2019;19(1):1–11.
41.	Smith SM, Wallace E, O'Dowd T, Fortin M. Interventions for improving outcomes in patients with multimorbidity in primary care and community settings. <i>Cochrane Database Syst Rev</i> [Internet]. 2016 Mar 15; Available from: http://doi.wiley.com/10.1002/14651858.CD006560.pub3
42.	Stevenson FA, Cox K, Britten N, Dundar Y. A systematic review of the research on communication between patients and health care professionals about medicines: the consequences for concordance. <i>Heal Expect</i> . 2004 Aug 20;7(3):235–45.
43.	Tecklenborg S, Byrne C, Cahir C, Brown L, Bennett K. Interventions to Reduce Adverse Drug Event-Related Outcomes in Older Adults: A Systematic Review and Meta-analysis. <i>Drugs Aging</i> [Internet]. 2020 Feb 10;37(2):91–8. Available from: http://link.springer.com/10.1007/s40266-019-00738-w
44.	Thomas R, Huntley AL, Mann M, Huws D, Elwyn G, Paranjothy S, et al. Pharmacist-led interventions to reduce unplanned admissions for older people: A systematic review and meta-analysis of randomised controlled trials. <i>Age Ageing</i> . 2014;43(2):174–87.
45.	Verloo H, Chiolero A, Kiszio B, Kampel T, Santschi V. Nurse interventions to improve medication adherence among discharged older adults: A systematic review. <i>Age Ageing</i> . 2017;46(5):747–54.
46.	Viswanathan M, Kahwati LC, Golin CE, Blalock SJ, Coker-Schwimmer E, Posey R, et al. Medication therapy management interventions in outpatient settings: A systematic review and meta-analysis. <i>JAMA Intern Med</i> . 2015;175(1):76–87.
47.	Weeks G, George J, Maclure K, Stewart D. Non-medical prescribing versus medical prescribing for acute and chronic disease management in primary and secondary care. <i>Cochrane Database Syst Rev</i> . 2016;2016(11).
48.	Welsh TJ, van der Wardt V, Ojo G, Gordon AL, Gladman JRF. Anticholinergic Drug Burden Tools/Scales and Adverse Outcomes in Different Clinical Settings: A Systematic Review of Reviews. <i>Drugs and Aging</i> [Internet]. 2018;35(6):523–38. Available from: https://doi.org/10.1007/s40266-018-0549-z