

Appendix 2. Studies excluded before quality assessment

Studies where full text was not found

Author/year	Title of systematic review
Garcia-Perez, Serrano-Aguilar et al. 2011	Cost-effectiveness of interventions to enhance medication Adherence in Psychiatric Patients: A Systematic Review
McCullough, Ryan et al. 2014	Interventions for enhancing adherence to treatment in adults with chronic respiratory disease: A systematic review
Molosankwe, Byford et al. 2013	Systematic review of existing evidence on the costs and cost-effectiveness of interventions to enhance uptake and adherence to antiretroviral therapy
Oliveira, Jose et al. 2013	Therapeutic adherence in older people with chronic illness: Systematic review
Oliveira, Neves et al. 2014	What is the effect of an intervention in nursing to improve medication adherence in older people? A systematic review
Omran, Guirguis et al. 2012	Systematic review of pharmacist interventions to improve adherence to oral antidiabetic medications in people with type 2 diabetes
Pickering, Nelson, 2017	The impact of a pharmacy operations model on improving medication adherence
Sam, Guerin et al. 2016	A systematic review on the role and impact of the clinical transplant pharmacist
Smith, Pinto, 2010	A systematic review to identify specific pharmacists' interventions and outcomes associated with drug therapy
Tan, Cheen et al. 2016	Clinical and economic outcomes of pharmacist-provided home-based medication review in the elderly: A systematic review and meta-analysis
Zuluaga, Salas et al. 2010	Interventions to improve compliance with lipid lowering medications: A systematic review of the literature

Excluded studies not that did not meet the inclusion criteria

Adler, Martin et al. 2017	Mobile phone text messaging to improve medication adherence in secondary prevention of cardiovascular disease	Only 1 study reported on outcome of interest (mortality)
Aguiar, De Carvalho Brito et al. 2016	Investigating sources of heterogeneity in randomized controlled trials of the effects of pharmacist interventions on glycemic control in type 2 diabetic patients: A systematic review and meta-analysis	÷ outcome of interest Study samples too small Multifaceted interventions
Al-Ganmi, Hussein et al. 2016	Cardiovascular medication adherence among patients with cardiac disease: a systematic review	÷ outcome of interest as result of adherence intervention
Antoine, Pieper et al. 2014	Improving the adherence of type 2 diabetes mellitus patients with pharmacy care: A systematic review of randomized controlled trials	÷ outcome of interest
Basaraba, George-Phillips et al. 2013	Pharmacists as care providers for stroke patients: A systematic review	÷ outcome of interest ÷ medication adherence interventions ÷ study design
Boswell, Cook et al. 2012	Associating medication adherence with improved outcomes: A systematic literature review	÷ interventions/ interventionists
Breitscheidel, Stamenitis et al. 2010	Economic impact of compliance to treatment with antidiabetes medication in type 2 diabetes mellitus: a review paper	÷ systematic review
Bryant, McDonald et al 2013	Improving medication adherence in chronic obstructive pulmonary disease: A systematic review	÷ outcome of interest
Campbell, Haberer, 2015	Cell Phone-Based and Adherence Device Technologies for HIV Care and Treatment in Resource-Limited Settings: Recent Advances	÷ systematic review
Chaiyachati, Ogbuaji et al. 2014	Interventions to improve adherence to antiretroviral therapy: A rapid systematic review	÷ outcome of interest
Chapman, Bogle, 2014	Adherence to medication and self-management in stroke patients	÷ outcome of interest
Cheema, Sutcliffe et al. 2014	The impact of interventions by pharmacists in community pharmacies on control of hypertension: a systematic review and meta-analysis of randomized controlled trials	÷ outcome of interest
Chiatti, Bustacchini et al. 2012	The economic burden of inappropriate drug prescribing, lack of adherence and compliance, adverse drug events in older people a systematic review	÷ outcome of interest
Clarkesmith, Pattison et al. 2017	Educational and behavioural interventions for anticoagulant therapy in patients with atrial fibrillation	÷ outcome of interest
Colombo, Aguiar et al. 2017	The effects of pharmacist interventions on adult outpatients with cancer: A systematic review	÷ study design
Conn, Ruppert et al. 2015	Interventions to Improve Medication Adherence in Hypertensive Patients: Systematic Review and Meta-analysis	÷ outcome of interest

Conn, Ruppap et al. 2016	Patient-Centered Outcomes of Medication Adherence Interventions: Systematic Review and Meta-Analysis	÷ study characteristics
Conn, Ruppap 2017	Medication adherence outcomes of 771 intervention trials: Systematic review and meta-analysis	÷ outcome of interest
Corrao, Scotti et al. 2011	Cost-effectiveness of enhancing adherence to therapy with statins in the setting of primary cardiovascular prevention. Evidence from an empirical approach based on administrative databases	÷ systematic review
Crepaz, Baack et al. 2015	Effects of integrated interventions on transmission risk and care continuum outcomes in persons living with HIV: meta-analysis, 1996-2014	÷ outcome of interest
Crowe, Porter et al. 2012	Effectiveness of interventions to improve medication adherence in bipolar disorder	÷ outcome of interest
Cutrona, Choudhry et al. 2010	Modes of delivery for interventions to improve cardiovascular medication adherence	÷ systematic review
Davies, Gagliardino et al. 2013	Real-world factors affecting adherence to insulin therapy in patients with Type 1 or Type 2 diabetes mellitus: a systematic review	÷ outcome of interest
Davis, Packard et al. 2014	The pharmacist role in predicting and improving medication adherence in heart failure patients	÷ systematic review
Deichmann, Morledge et al. 2016	A metaanalysis of interventions to improve adherence to lipid-lowering medication	÷ outcome of interest
De Simoni, Hardeman et al. 2013	Trials to improve blood pressure through adherence to antihypertensives in stroke/TIA: systematic review and meta-analysis	÷ outcome of interest
Faruque, Wiebe et al. 2017	Effect of telemedicine on glycated hemoglobin in diabetes: A systematic review and meta-analysis of randomized trials	÷ medication adherence interventions
Fautrel, Balsa et al. 2017	Influence of route of administration/drug formulation and other factors on adherence to treatment in rheumatoid arthritis (pain related) and dyslipidemia (non-pain related)	÷ study design
Frogel, Stewart et al. 2010	A systematic review of compliance with palivizumab administration for RSV immunoprophylaxis	÷ study design
Fuangchan, Dhippayom et al. 2014	Intervention to promote patients' adherence to antimalarial medication: A systematic review	Short treatment cure
Fulton, Kroll et al. 2017	Interventions to enhance medication adherence in older heart failure patients, a systematic review	÷ outcome of interest
Gandapur, Kianoush et al. 2016	The role of mHealth for improving medication adherence in patients with cardiovascular disease: A systematic review	÷ outcome of interest
Ganguli, Clewell et al. 2016	The impact of patient support programs on adherence, clinical, humanistic, and economic patient outcomes: A targeted systematic review	÷ study characteristics (unclear if outcomes were results of MA-intervention alone)
Gater, Heron et al. 2012	Adherence to oral tyrosine kinase inhibitor therapies in chronic myeloid leukemia	÷ outcome of interest
Gentry, van-Velthoven et al. 2013	Telephone delivered interventions for reducing morbidity and mortality in people with HIV infection	÷ outcomes (unclear if outcomes were results of MA-intervention alone). Low quality of evidence (GRADE)
Geurts, Talsma et al. 2012	Medication review and reconciliation with cooperation between pharmacist and general practitioner and the benefit for the patient: A systematic review	÷ MA interventions
Golubev, Fedoseyeva et al. 2011	Compliance measurement-guided medication management programs in hypertension: A systematic review	÷ outcome of interest
Gorenoi, Schonermark et al. 2008	Interventions for enhancing medication compliance/adherence with benefits in treatment outcomes	Full text only in German
Hill, Kavookjian, 2012	Motivational interviewing as a behavioral intervention to increase haart adherence in patients who are HIV+: A systematic review of the literature	÷ outcome of interest
Hurtado-de-Mendoza, Cabling et al. 2016	Behavioral Interventions to Enhance Adherence to Hormone Therapy in Breast Cancer Survivors: A Systematic Literature Review	÷ outcome of interest
Kavookjian, Wittayanukorn, 2014	Interventions for adherence with oral chemotherapy in hematological malignancies: A systematic review	÷ outcome of interest
Kraft, Hillmann et al. 2016	Telemedical strategies for the improvement of secondary prevention in patients with cerebrovascular events - A systematic review	÷ study design ÷ outcome of interest
Lawrence, Pringle, et al. 2015	Multimodal secondary prevention behavioral interventions for TIA and stroke: A systematic review and meta-analysis	Multimodal interventions ÷ study characteristics
Lin, Clark et al. 2017	Breast cancer oral anti-cancer medication adherence: a systematic review of psychosocial motivators and barriers	÷ outcome of interest
Low, Williams et al. 2015	Interventions to improve medication adherence in adult kidney transplant recipients: a systematic review	Only 1 study reported on outcome of interest

		(hospitalization)
Ma, Tso et al. 2016	Barriers and facilitators of interventions for improving antiretroviral therapy adherence: a systematic review of global qualitative evidence	÷ outcome of interest
MacDonald, Chapman et al. 2016	Improving medication adherence in bipolar disorder: A systematic review and meta-analysis of 30 years of intervention trials	÷ outcome of interest
Machado, Bajcar et al. 2007	Sensitivity of patient outcomes to pharmacist interventions. Part II: Systematic review and meta-analysis in hypertension management	÷ study characteristics
Machado, Nassor et al. 2008	Sensitivity of patient outcomes to pharmacist interventions. Part III: Systematic review and meta-analysis in hyperlipidemia management	÷ outcome of interest
Mamudu, Paul et al. 2014	The effects of coronary artery calcium screening on behavioral modification, risk perception, and medication adherence among asymptomatic adults: a systematic review	÷ study types ÷ outcome of interest
Mansoor, Krass et al. 2013	Multiprofessional interventions to improve patient adherence to cardiovascular medications	÷ systematic review
Marcum, Hanlon et al. 2017	Improving Medication Adherence and Health Outcomes in Older Adults: An Evidence-Based Review of Randomized Controlled Trials	÷ systematic review
Marcus, Buisker et al. 2014	Helping our patients take HIV pre-exposure prophylaxis (PrEP): A systematic review of adherence interventions	÷ outcome of interest
Mathes, Pieper, et al. 2013	Adherence-enhancing interventions for highly active antiretroviral therapy in HIV-infected patients - a systematic review	÷ outcome of interest
Mathes, Pieper et al. 2013	Cost-effectiveness of adherence interventions for highly active antiretroviral therapy: A systematic review	÷ study characteristics
Matthes, Albus et al. 2014	Improving adherence with medication: a selective literature review based on the example of hypertension treatment	÷ systematic review
Michaelis, Tang et al. 2017	Psychological treatments for people with epilepsy	The RCT that met the inclusion criteria were also found in Al-Aqeel 2017
M'Imunya, Kredo et al. 2012	Patient education and counselling for promoting adherence to treatment for tuberculosis	÷ interventionists. Study on children
Morgado, Morgado et al. 2011	Pharmacist interventions to enhance blood pressure control and adherence to antihypertensive therapy: Review and meta-analysis	÷ systematic review ÷ outcome of interest
Murphy, Bartholomew et al. 2012	Adherence to adjuvant hormonal therapy among breast cancer survivors in clinical practice: A systematic review	÷ study design
Nguyen, Sobieraj 2017	The impact of appointment-based medication synchronization on medication taking behaviour and health outcomes: A systematic review	÷ study design. ÷ outcome of interest
Njie, Finnie et al. 2015	Reducing Medication Costs to Prevent Cardiovascular Disease: A Community Guide Systematic Review	÷ MA interventions
Park, Howie-Esquivel et al. 2014	A quantitative systematic review of the efficacy of mobile phone interventions to improve medication adherence	Study samples too small ÷ wrong interventionist ÷ outcome of interest
Patel, Kessler et al. 2017	Economic evaluation of mobile phone text message interventions to improve adherence to HIV therapy in Kenya	÷ systematic review
Paterson, Kinnear et al. 2017	A systematic review of electronic multi-compartment medication devices with reminder systems for improving adherence to self-administered medications	÷ outcome of interest
Patterson, Cadogan et al. 2014	Interventions to improve the appropriate use of polypharmacy for older people	Only 1 study reported on outcome of interest (HRQoL)
Patton, Hughes et al. 2017	Theory-Based Interventions to Improve Medication Adherence in Older Adults Prescribed Polypharmacy: A Systematic Review	÷ outcome of interest
Perraudin, Bugnon et al. 2016	Expanding professional pharmacy services in European community setting: Is it cost-effective? A systematic review for health policy considerations	÷ study characteristics
Plumpton, Brown et al. 2015	Economic evaluation of a behavior-modifying intervention to enhance antiepileptic drug adherence	÷ systematic review
Rash, Campbell et al. 2016	A systematic review of interventions to improve adherence to statin medication: What do we know about what works?	÷ outcome of interest
Rouget, Aubry et al. 2007	Efficacy of psychoeducational approaches on bipolar disorders: A review of the literature	÷ outcome of interest
Ryan, Santesso, et al. 2014	Interventions to improve safe and effective medicines use by consumers: an overview of systematic reviews	÷ systematic review (overview of systematic reviews) ÷ outcome of interest

Saez-Benito, Fernandez-Llimos et al. 2013	Evidence of the clinical effectiveness of cognitive pharmaceutical services for aged patients	÷ systematic review (systematic review of systematic reviews) 1 systematic review eligible but was given AMSTAR score 4 by the authors.
Sajatovic, DiBiasi et al. 2017	Attitudes toward antipsychotic treatment among patients with bipolar disorders and their clinicians: a systematic review	÷ outcome of interest
Sarabi, Sadoughi et al. 2016	The Effectiveness of Mobile Phone Text Messaging in Improving Medication Adherence for Patients with Chronic Diseases: A Systematic Review	÷ outcome of interest
Schoenthaler, Cuffee 2013	A systematic review of interventions to improve adherence to diabetes medications within the patient-practitioner interaction	÷ outcome of interest
Shuler, 2014	Approaches to improve adherence to pharmacotherapy in patients with schizophrenia	÷ study design ÷ study characteristics
Simoens, Spinewine et al. 2011	Review of the cost-effectiveness of interventions to improve seamless care focusing on medication	÷ systematic review
Smith, Wallace et al. 2016	Interventions for improving outcomes in patients with multimorbidity in primary care and community setting	1 study eligible, but excluded due to low quality of the evidence (GRADE)
Suwannakeeree, Pichansathian 2015	Strategies to promote adherence to treatment by pulmonary tuberculosis patients: A systematic review	÷ interventionists
Van Dalem, Krass et al. 2012	Interventions promoting adherence to cardiovascular medicines	÷ systematic review
Viana, Gomes et al. 2016	Interventions to improve patients' compliance with therapies aimed at lowering glycated hemoglobin (HbA1c) in type 1 diabetes: Systematic review and meta-analyses of randomized controlled clinical trials of psychological, telecare, and educational interventions	÷ outcome of interest
Viswanathan, Golin et al. 2012	Interventions to improve adherence to self-administered medications for chronic diseases in the United States: A systematic review	÷ outcome of interest
Wessol, Russell et al. 2017	A Systematic Review of Randomized Controlled Trials of Medication Adherence Interventions in Adult Stroke Survivors	÷ outcome of interest
Zomahoun, Guenette et al. 2017	Effectiveness of motivational interviewing interventions on medication adherence in adults with chronic diseases: a systematic review and meta-analysis	÷ outcome of interest
Zou, Li et al. 2013	Self-management education interventions for persons with schizophrenia: a meta-analysis	Interventions too multifaceted/too small
Zullig, Ramos et al. 2017	Improving Medication Adherence in Coronary Heart Disease	÷ systematic review