

Online Appendix 1. Search strategies

PubMed

1. Diabetes mellitus, type 2 [mh] (107.519)
2. Type 2 diabetes (144.357)
3. Non insulin dependent diabetes mellitus (130.265)
4. T2DM (13.073)
5. NIDDM (120.308)
6. 1 OR 2 OR 3 OR 4 OR 5 (156.187)
7. Pharmaceutical services [mh] (60.125)
8. Pharmaceutical care (86.729)
9. Clinical pharmacy (71.937)
10. Pharmacist* (30.378)
11. 7 OR 8 OR 9 OR 10 (162.905)
12. Hospitals [mh] (244.813)
13. Ambulatory care facilities [mh] (50.290)
14. Hospital (3928.009)
15. Clinic (507.887)
16. Health center* (56.394)
17. Health care unit (101.406)
18. 12 OR 13 OR 14 OR 15 OR 16 OR 17 (4323.583)
19. Randomized controlled trial [pt] (442.186)
20. Random* AND Control* (797.497)
21. 19 OR 20 (797.591)
22. 6 AND 11 AND 18 AND 21 (192)

Cochrane Central Register of Controlled Trials

1. MeSH descriptor: [Diabetes mellitus, type 2] (11.642)
2. Type 2 diabetes (28.042)
3. Non insulin dependent diabetes mellitus (11.526)
4. T2DM (2.879)
5. NIDDM (1.115)
6. 1 OR 2 OR 3 OR 4 OR 5 (29.633)
7. MeSH descriptor: [Pharmaceutical services] (1.681)
8. Pharmaceutical care (4.623)
9. Clinical pharmacy (10.537)
10. Pharmacist* (4.086)
11. 7 OR 8 OR 9 OR 10 (16.494)
12. MeSH descriptor: [Hospitals] (3.733)
13. MeSH descriptor: [Ambulatory care facilities] (1.905)
14. Hospital (2256.632)
15. Clinic* (774.472)
16. Health center* (39.386)
17. Health care unit* (43.379)
18. 12 OR 13 OR 14 OR 15 OR 16 OR 17 (815.227)
19. 6 AND 11 AND 18 *in Trials* (434)

Risk of bias assessment

Authors Year	Random sequence generation	Allocation concealmen t	Blinding of outcome assessment	Incomplete outcome data	Selective reporting	Other sources of bias
Adams et al. 2015	✓	✓	?	✗	?	✓
Adepu and Ari 2010	?	?	?	?	?	✗
Adibe et al. 2013	✓	?	✗	✗	?	✓
Aguiar et al. 2016	✓	?	?	✓	?	?
Al Mazroui et al. 2009	?	?	?	✗	?	✗
Butt et al. 2016	✓	?	?	?	?	✓
Cani et al. 2015	?	?	?	✗	?	?
Chan et al. 2012	✓	✓	?	✓	✗	?
Chen et al. 2016	✓	?	?	✓	✗	✓
Choe et al. 2005	✓	?	?	✓	?	?
Chung et al. 2014	?	?	?	✗	?	?
Cohen et al. 2011	?	?	?	✗	✗	✗
Farsaei et al. 2011	?	?	?	?	?	✓
George et al. 2017	?	?	?	✗	?	✓
Ghosh et al. 2010	?	?	?	?	?	✓
Grant et al. 2003	?	?	?	✗	?	✓
Jaber et al. 1996	?	?	?	✗	✗	✓
Jacobs et al. 2012	✓	?	?	✗	?	✗
Jarab et al. 2012	✓	?	?	✓	?	✓
Korcegez et al. 2017	?	?	?	✗	?	?
Lim et al. 2016	?	?	?	✗	?	?
Mahwi and Obied 2013	?	?	?	✓	?	✗
Maidana et al. 2016	?	?	?	✗	?	✓
Mourão et al. 2013	✓	?	?	✗	✓	✗
Nascimento et al. 2016	?	?	?	?	?	✗
Odegard et al. 2005	?	?	?	✓	✗	?
Plaster et al. 2012	✓	?	?	✗	✗	✓
Ramanath and Santhosh 2011	?	?	?	✗	✗	?

Authors Year	Random sequence generation	Allocation concealmen t	Blinding of outcome assessment	Incomplete outcome data	Selective reporting	Other sources of bias
Scott et al. 2006	✓	?	?	✗	✗	✗
Shao et al. 2017	?	?	?	✗	?	✓
Siaw et al. 2017	?	?	?	✓	✗	✓
Simpson et al. 2011	✓	✓	✓	✓	✗	?
Sriram et al. 2011	✓	?	?	?	✗	✓
Suppapitiporn et al. 2005	?	?	?	✓	?	✓
Wishah et al. 2014	✓	?	?	✓	✗	✗

✓ Low risk of bias; ✗ High risk of bias; ? Unclear risk of bias.