

APPENDIX

PubMed search syntax

((("randomized controlled trials as topic"[MeSH Terms] OR randomised controlled trial OR RCT)) AND ((((((comprehensive health care[MeSH Terms]) OR collaborative care[Title/Abstract]) OR multidisciplinary care[Title/Abstract]) OR team care.[Title/Abstract]) OR integrated care[Title/Abstract]) OR complex care[Title/Abstract])) AND ((((((("blood glucose"[MeSH Terms] OR "diabetes complications"[MeSH Terms]) OR "hemoglobin a, glycosylated"[MeSH Terms]) OR hemoglobin A1c[Title/Abstract]) OR "Hemoglobin A, Glycosylated"[Mesh]) OR HbA1c[Title/Abstract]) OR glucose blood level[Title/Abstract]) OR diabetes[Title/Abstract] OR diabetic[Title/Abstract])) AND ((((((psychological distress[Title/Abstract]) OR hypervigilance[Title/Abstract]) OR nervousness[Title/Abstract]) OR anxieties[Title/Abstract]) OR anxious[Title/Abstract]) OR anxiety[MeSH Terms]) OR ("depressive disorder"[MeSH Terms] OR "depression"[MeSH Terms]))

Scopus search syntax

(TITLE-ABS-KEY(depression OR depressi* OR anxiety OR "psychological distress" OR hypervigilance OR nervousness OR anxieties OR melancholi* OR dysthymi*) AND TITLE-ABS-KEY("blood glucose" OR "hb a1c" OR "hemoglobin a glycosylated" OR glycaemic OR diabet*) AND TITLE-ABS-KEY("collaborative care" OR "multidisciplinary care" OR "transmural care" OR "complex care" OR "seamless care" OR "team care") AND TITLE-ABS-KEY(randomi?ed controlled trial OR rct))

Quality item checklist for randomised controlled trials reviewed (each worth 1 numerical point)

Study identification	Description of eligibility criteria adequate? (each worth 0.5 points): (1) inclusion criteria; (2) exclusion criteria	Randomization adequate? (each worth 0.5 points): (1) evidence suggesting "random" allocation; (2) evidence suggesting method used to generate random allocation sequence	Allocation concealment adequate?	Between-group prognostic indicators balanced? (each worth 0.5 points): (1) Depression score; (2) HbA1c level	Between-group drop-outs balanced?	Intention to treat analysis included?	Total quality score (out of 6)
Bogner et al, 2010	0.5	0.5	0.0	1.0	1.0	1.0	4.0
Bogner et al, 2012	1.0	1.0	0.0	1.0	1.0	1.0	5.0
Ell et al, 2010	1.0	1.0	1.0	0.5	1.0	1.0	5.5
Katon et al, 2004	1.0	1.0	0.0	1.0	1.0	0.5	4.5
Katon et al, 2010	1.0	1.0	0.0	1.0	1.0	1.0	5.0
Morgan et al, 2013	1.0	0.5	0.0	1.0	1.0	0.0	3.5
Williams et al, 2004	1.0	1.0	1.0	1.0	0.0	0.0	4.0

EXCLUDED CITATIONS (REASONS)

1. Ciechanowski PS, Russo JE, Katon WJ, *et al.* The association of patient relationship style and outcomes in collaborative care treatment for depression in patients with diabetes. *Medical care.* 2006;44(3):283-91.

(Redundant citation; duplicate publication)

2. Ell K, Aranda MP, Xie B, Lee PJ, Chou CP. Collaborative depression treatment in older and younger adults with physical illness: pooled comparative analysis of three randomized clinical trials. *American Journal of Geriatric Psychiatry.* 2010;18(6):520-30.

(Inadequate study design; meta-analysis of RCTs)

3. Fisher L, Polonsky W, Parkin CG, *et al.* The impact of blood glucose monitoring on depression and distress in insulin-naïve patients with type 2 diabetes. *Current Medical Research and Opinion.* 2011;27(SUPPL. 3):39-46.

(Inadequate collaborative care model; structured self-monitoring of blood glucose alone)

4. Lamers F, Jonkers CC, Bosma H, Knottnerus JA, van Eijk JT. Treating depression in diabetes patients: does a nurse-administered minimal psychological intervention affect diabetes-specific quality of life and glycaemic control? A randomized controlled trial. *J Adv Nurs.* 2011;67(4):788-99.

(Inadequate collaborative care model; psychological therapy alone)

5. Lin EH, Korff M, Ciechanowski P, *et al.* Treatment adjustment and medication adherence for complex patients with diabetes, heart disease, and depression: a randomized controlled trial. *Annals of family medicine;* 2012:6-14.

(Redundant citation; duplicate publication)

6. Naji S. Integrated care for diabetes: Clinical, psychosocial, and economic evaluation. *British Medical Journal.* 1994;308(6938):1208-12.

(Inadequate collaborative care model; not specifically for depression)

7. Solberg LI, Crain AL, Sperl-Hillen JM, *et al.* Care quality and implementation of the Chronic Care Model: a quantitative study. *Annals of Family Medicine*. 2006;4(4):310-6.

(Inadequate study design; not an RCT)

8. Stiefel F, Zdrojewski C, Bel Hadj F, *et al.* Effects of a multifaceted psychiatric intervention targeted for the complex medically ill: a randomized controlled trial. *Psychotherapy & Psychosomatics*. 2008;77(4):247-56.

(Incomplete data for extraction, contacted author 4 Sep 2013)

9. Tapp H, Phillips SE, Waxman D, *et al.* Multidisciplinary team approach to improved chronic care management for diabetic patients in an urban safety net ambulatory care clinic. *Journal of the American Board of Family Medicine*. 2012;25(2):245-6.

(Inadequate study design; feasibility and study design)

10. Taveira TH, Dooley AG, Cohen LB, Khatana SA, Wu WC. Pharmacist-led group medical appointments for the management of type 2 diabetes with comorbid depression in older adults. *Ann Pharmacother*. 2011;45(11):1346-55.

(Inadequate collaborative care; lacked evidence of co-ordination of care)

11. Trief PM, Morin PC, Izquierdo R, *et al.* Depression and glycemic control in elderly ethnically diverse patients with diabetes: the IDEATel project. *Diabetes Care*. 2006;29(4):830-5.

(Incomplete data for extraction, contacted author 5 Sep 2013)

Funnel plot assessing symmetry of 7 RCTs on effectiveness of collaborative care for depression outcome

Funnel plot assessing symmetry of 7 RCTs on effectiveness of collaborative care for improving HbA1c outcome