Self-management education programmes by lay leaders for people with chronic conditions

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Authors' objectives
Background: Lay-led self-management programmes are becoming widespread in the attempt to promote self-care for people with chronic conditions. Objectives: To assess systematically the effectiveness of lay-led self-management programmes for people with chronic conditions.


Selection criteria: Randomised controlled trials (RCTs) comparing structured lay-led self-management education programmes for chronic conditions against no intervention or clinician-led programmes.

Data collection and analysis: Two authors independently assessed trial quality and extracted data. We contacted study authors for additional information. Results of RCTs were pooled using a random-effects model with standardised mean differences (SMDs) or weighted mean differences (WMDs) for continuous outcomes.

Main results:
We included seventeen trials involving 7442 participants. The interventions shared similar structures and components but studies showed heterogeneity in conditions studied, outcomes collected and effects. There were no studies of children and adolescents, only one study provided data on outcomes beyond six months, and only two studies reported clinical outcomes.

Primary outcomes:
Health status: There was a small, statistically-significant reduction in: pain (11 studies, SMD -0.10 (95% confidence interval (CI) -0.17 to -0.04)); disability (8 studies, SMD -0.15 (95% CI -0.25 to -0.05); and fatigue (7 studies, SMD -0.16 (95% CI -0.23 to -0.09); and small, statistically-significant improvement in depression (6 studies, SMD -0.16 95% CI -0.24 to -0.07). There was a small (but not statistically- or clinically-significant) improvement in psychological well-being (5 studies; SMD -0.12 (95% CI -0.33 to 0.09)); but no difference between groups for health-related quality of life (3 studies; WMD -0.03 (95% CI -0.09 to 0.02). Six studies showed a statistically-significant improvement in self-rated general health (WMD -0.20 (95% CI -0.31 to -0.10)).

Health behaviours: 7 studies showed a small, statistically-significant increase in self-reported aerobic exercise (SMD -0.20 (95% CI -0.27 to -0.12)) and a moderate increase in cognitive symptom management (4 studies, WMD -0.55 ( 95% CI -0.85 to -0.26)).

Healthcare use: There were no statistically-significant differences between groups in physician or general practitioner attendance (9 studies; SMD -0.03 (95% CI -0.09 to 0.04)). There were also no statistically-significant differences between groups for days/night spent in hospital (6 studies; WMD -0.32 (95% CI -0.71 to 0.07)).

Self-efficacy: (confidence to manage condition) showed a small statistically-significant improvement (10 studies): SMD -0.30, 95% CI -0.41 to -0.19.

No adverse events were reported in any of the studies.

Authors' conclusions:
Lay-led self-management education programmes may lead to small, short-term improvements in participants’ self-efficacy, self-rated health, cognitive symptom management, and frequency of aerobic exercise. There is currently no evidence to suggest that such programmes improve psychological health, symptoms or health-related quality of life, or that they significantly alter healthcare use. Future research on such interventions should explore longer term outcomes, their effect on clinical measures of disease and their potential role in children and adolescents.


Bibliographic details
Foster Gill, Taylor Stephanie JC, Eldridge Sandra, Ramsay Jean, Griffiths Chris J. Self-management education programmes by lay leaders for people with chronic conditions. Cochrane Database of Systematic Reviews: Reviews 2007; Issue 4

AccessionNumber
10000005108

Date abstract record published
13/07/2012
Record Status
This is an abstract for a Cochrane review