Supplementary Material F

Reference	Aims, participants and search method	Inclusion and exclusion criteria	Exposure, comparison and outcome measures	Results	Conclusions, quality issues
Year and author:	Aims:	Inclusion:	Exposure:	Results:	Author's conclusions:
Foster 2007 Country: UK Study type: Systematic review Evidence level: I	To assess systematically the effectiveness of lay-led self management programmes for people with chronic conditions Participants: Included participants with arthritis, diabetes, hypertension and chronic pain as well as some other respiratory conditions and other chronic conditions. All participants were adults. Search period: 1986 to 2006 Search method: CENTRAL MEDLINE EMBASE AMED CINAHL DARE National research register	RCTs comparing structure lay-led self management interventions with no programme or clinician led programmes Exclusion: Interventions directed at healthy populations, or high risk of a disease, participants undergoing cancer therapy. Education delivered as literature alone.	Lay led self management interventions. Interventions included structured programmes delivering education on self management, lay led or peer led. Included group and individual, face to face, internet, post, telephone. Also included education for carers/relatives. Comparison: No intervention or led by clinician Outcome measures: Health status Health behaviour Health care use Self efficacy Knowledge Social roles/activities attendance Communication with physician Cost Effects on family/carer Adverse outcomes Follow-up time:	 17 trials of 7442 participants. 10 studies were conducted in North America. 70% of participants were female, mean age ranged from 44 to 79 years and in eleven studies reporting ethnicity 90% of participants were White. Duration of education ranged from <10 years to >13 years. Eight studies used media campaigns to recruit participants. 5 studies used the Arthritis Self Management Programme, 7 studies used the Chronic Disease Self Management programme of the Expert Patient Programme and the remainder used other disease specific interventions. The theoretical basis was primarily self efficacy in 14 studies. The remainder being the Theory of Reasoned Action, Social Support and one trial did not report the theoretical framework. 	Overall there were no differences in whether the interventions were led by lay people or health professionals. Overall lay led interventions resulted in short term improvements in self rated health, cognitive symptom management, self efficacy and frequency of aerobic exercise. No evidence to support improvement in quality of life or health care use. Reviewer's conclusions: Some indirectness in the population may compromise generalisability. Limited follow time. Only one trial reported past 6 months. The overall quality of the included trials was 'unclear' Follow-up rates ranged from 65 – 90%. Source of funding: None Additional comments:
			Only one that reported beyond o	Depression, anxiety and	

Reference	Aims, participants and search method	Inclusion and exclusion criteria	Exposure, comparison and outcome measures	Results	Conclusions, quality issues
	NHSEED		months	psychological well-being	
	PsycINFO				
	Science Citation Index			6/17 reported on depression. A	
	Reference lists, contacting authors and experts. No language restrictions.			effect (SMD -0.16, 95%CI -0.24 to -0.07; P=0.00036) and similarly with anxiety as reported in 3/17 (SMD -0.14, 95%CI -0.25 to -0.04; P=0.0057).	
				HRQoL 3/17 reported. No differences between groups identified (WMD -0.03, 95%CI - 0.09 – 0.02; NS)	
				Self rated general health – reported in 6/17 trials suggested that intervention participants were in better health at follow- up with a statistically significant improvement (WMD -0.20, 95%CI -0.31 to -0.10; P=0.00018) however heterogeneity was 68.2% I ² .	
				Health distress- reported in 4/17 studies. Greater improvement in the intervention group (SMD - 0.25, 95%CI -0.34 to -0.15; P<0.00001).	
				Clinical measures – 2/17 trials reported this for A1c. No differences between groups identified.	

Reference	Aims, participants and search method	Inclusion and exclusion criteria	Exposure, comparison and outcome measures	Results	Conclusions, quality issues
				Exercise – 7/17 reported on self reported changes in frequency of aerobic exercise. A small but statistically significant increase was found in the intervention groups (SMD -0.20, 95%CI - 0.27 to -0.12; P<0.00001). Health care utilisation –No differences between groups in 9/17 studies reporting the outcome for visits to physician or GP. No difference between groups for nights spent in hospital (6/17 studies). Self efficacy was significantly improved in the intervention group (P<0.00001) in n10/17 trials but main focus was on ability to monaco poin	
Internal validity:	+				
Study results – precision:	+				
Applicability (external validity):	?				
Overall score:	+				

Reference	Aims, participants and search method	Inclusion and exclusion criteria	Exposure, comparison and outcome measures	Results	Conclusions, quality issues
Year and author: Shaw, 2006 Country: Australia Study type:	Aims: Examine the effectiveness of chronic disease self management for people with asthma, diabetes and coronary	Inclusion: Type of study not specified but included adults, published after 1994, With a control group, in English language, meeting	Exposure: Intervention had to contain a minimum of two of the following: Problem solving Behavioural support Managing emotions	Results: 4 generic (non-disease specific) programmes from 5 papers were identified. Peer leaders delivered the courses and participants were	Author's conclusions: Generic programmes are effective for people with a range of chronic conditions for improving self efficacy, symptom experience, QoL, increasing physical activity and reducing hospitalisations and
Systematic review Evidence level:	heart disease. Participants: Adults > 18 years with diabetes, asthma, coronary heart disease and then generic intervention Search period: 1994 - 2006 Search method: Limited to English language AustHealth Medline, PsycINFO, CINAHL, EMBASE, CENTRAL, Cochrane library, Expert centres, reference lists Search string provided	pre-determined quality criteria Exclusion: Not relevant to question Not a primary study Univariate analysis only Insufficient data reported to asses quality Quality was weak in four or more pre-determined criteria Absence of specified outcomes	Self monitoring/treatment action plans Comparison: Control group Outcome measures: Quality of life Self efficacy Health service use Physical activity Clinical measures Cost effectiveness Follow-up time:	recruited via media, health professionals, community and medical centres. Interventions lasted 6-7 weeks for 2-2.5 hours and were group sessions. 3 studies targeted non-english speaking groups to evaluate cultural adaptations. All participants had chronic disease and most had multiple chronic co-morbidities. The most common conditions were arthritis, diabetes, lung and heart disease. The studies recruited more women 65-70% than men and mean age was 57-66 years, education level depended on migrant background and insurance cover. Physical activity – Scores were significantly higher in all four self management programmes compared with controls	Reviewer's conclusions: Selection bias means that intervention group may be more biased. Attrition ranged from 17-20% Source of funding: Additional comments:

Reference	Aims, participants and search method	Inclusion and exclusion criteria	Exposure, comparison and outcome measures	Results	Conclusions, quality issues
				Quality of Life – Measures of QoL including health distress and somatic symptoms and self rated health had significantly better outcomes in the intervention compared with the control groups.	
				Self efficacy - Self efficacy scores were significantly higher for the intervention in 3 of the studies that examined this and improvements were still sustained after 1-2 years.	
				Health service utilisation – 3 out of 4 studies demonstrated a benefit for health service use compared with controls, in particular for fewer hospital stays and nights in hospital. There were no differences in visits to physicians and emergency departments.	
Internal validity:	+				
Study results – precision:	Na				

Reference	Aims, participants and search method	Inclusion and exclusion criteria	Exposure, comparison and outcome measures	Results	Conclusions, quality issues
Applicability (external validity):	?				
Overall score:	?				

Reference	Aims	Participants	Exposure, comparison, outcome measures and follow up	Results	Conclusions, quality issues
Year and author: Eakin 2007 Country: USA Study type: RCT Evidence level: II	Aims: Evaluate the Resources for Health trial in those with multiple chronic conditions	Study setting: Community health centre in Denver. Participant characteristics: Identified through clinic records Mean age 49.5, 78.5% female, 75.6% Hispanic/Latino, 15.1% high school graduates 61% had 3 or more chronic conditions Inclusion: Diagnosis of more than one chronic condition (i.e. hypertension, chronic pain, hypercholesterolaemia, depression, type II diabetes, osteoporosis, hepatitis, obesity, chronic lung disease, heart disease, previous stroke, multiple sclerosis), aged over 30 years, having a telephone and not planning to move out of the area in the study's time frame Exclusion:	Exposure: n=101 Resources for health Two face to face visits (60-90 mins) 3 months apart, three follow-up phone calls (2 and 6 weeks after initial visit and one 2 weeks after last visit) and three tailored newsletters related to the participants goals. Content: physical activity and dietary recommendations and goal setting and a personalized action plan. Comparison: n=99 Usual care, mailed a local area community resource guide and three newsletters unrelated to the health topic Outcome measures: Behavioral Risk Factor Surveillance Survey Physical Activity items Kristal Fat and Fiber Behavior Questionnaire Chronic Illness Resource Survey Follow-up time: 6 months	Results: Statistically significant differences between groups for dietary behaviour (P=0.01) in favour of improved dietary behaviour in the intervention group at 6 weeks and 6 months. This effect however disappeared when the data was adjusted for the Chronic Illness Resource Scale which indicated that this mediated dietary behaviour. This is the level of support received from multiple sources including family, friends and health professionals There were no significant differences between groups for physical activity, either for minutes walked per week or meeting national physical activity guidelines.	Author's conclusions: Authors claim this was an effective intervention Reviewer's conclusions: 200/605 potential participants were randomised Attrition data was >20% 77% received at least 3 of 5 interventions. Low literacy group The benefits observed in dietary change was mediated by social and health professional support and there was no effect on physical activity. Source of funding: Robert Wood Johnson Foundation Additional comments: Behavioural-ecological using the 5 A's approach Led by bilingual health educator Individualised intervention

Reference	Aims	Participants	Exposure, comparison, o measures and follow	utcome up	Results	Conclusions, quality issues
		-				
Bias	Judgement			Support for judgement		
Random sequence generation	Low risk			Computer randomised		
Allocation concealment	Low risk			Sequent	tial sealed envelopes but unclear if	opaque
Blinding	High risk			No blinding		
Incomplete outcome data	High risk			Flow diagram without reasons, states ITT but not clear. Not clear if differed from non-participants		out not clear. Not clear if differed from
Selective reporting	Low risk			A priori	outcomes reported	

Reference	Aims	Participants	Exposure, comparison, outcome measures and follow up	Results	Conclusions, quality issues
Reference Year and author: Elzen, 2007 Country: Netherlands Study type: RCT Evidence level: II	Aims Aims: Evaluate the Chronic Disease Self Management Programme (CDSMP) in older people in the Netherlands	Participants Study setting: Patients attending an Internal Medicine outpatient clinic in Groningen Participant characteristics: Recruited through media announcements and magazine advertising and through an outpatient clinic. Mean age 68.35 years, 63.2% female; Diabetes 32.1%; Lung disease 27.9%; Arthritis 33.8% Heart disease 5.9% Inclusion: ≥59 years, having angina, heart failure, COPD or asthma, arthritis, or diabetes, able to communicate in Dutch, available to attend a 6 week course Exclusion: Life expectancy less than	Exposure, comparison, outcome measures and follow up Exposure: n=68 CDSMP - 6 weekly sessions 2.5 hrs duration. Content: Action planning, problem solving, exercise, symptom management, diet, fatigue management, medication, managing emotions, communication. A copy of the book 'Living a Healthy Life with Chronic Conditions" Comparison: n=68 Usual care + patient book Outcome measures: General Self Efficacy Scale Exercise Cognitive symptom-management RAND-36 (health status) Follow-up time: Six months after the end of the course	Results Results: Adjusted results indicated no differences between intervention and usual care for self efficacy at the end of treatment of 6 months follow-up. There were no significant differences between groups for the exercise outcome. No difference in mental component summary scale for health status between groups	Conclusions, quality issues Author's conclusions: No differences in self efficacy, self management behaviour or health status in older participants. Reviewer's conclusions: 94/361 approached actually participated. Non-participants were more restricted in activity, lived further away from intervention location and more likely to have a partner. An additional 50 participants were then recruited. Low attrition. Attendance at intervention was high. Source of funding: Netherlands Organization for Health Research and Development Additional comments: Chronic Disease Self Management Programme (Stanford Model) Group intervention (size 10-13) Led by two leaders (psychologist)
		one year, already attending a disease			

Reference	Aims	Participants	Exposure, comparison, c measures and follow	outcome up	Results	Conclusions, quality issues	
		specific self management programme, participating in another study, or permanent residents of residential nursing homes.					
Bias	Judgement	Judgement			Support for judgement		
Random sequence generation	Low risk	Low risk			Randomised by blocks		
Allocation concealment	Unclear risk			No deta	ils		
Blinding	High risk			No blinding			
Incomplete outcome data	High risk			Not clear if ITT, recruited one group and then additional		then additional	
Selective reporting	Low risk			A priori	outcomes reported		

Reference	Aims	Participants	Exposure, comparison, outcome measures and follow up	Results	Conclusions, quality issues
Year and author:	Aims:	Study setting:	Exposure: n=238	Results:	Author's conclusions:
Griffiths 2005 Country: UK	To determine the effectiveness of a culturally adapted lay- led self management programme for	Tower Hamlets , London. UK from 10 GP practices Participant characteristics:	Expert Patient Programme Content: Acute and chronic conditions compared, cognitive symptom management, better breathing,	The intervention group had significantly improved self efficacy (effect size 0.67; 95%CI 0.08 – 1.25; P =0.025) and self management behaviours (effect	Bangladeshi patients attending a self management programme benefited from the intervention although there was no decrease in the use of health care resources.

Reference	Aims	Participants	Exposure, comparison, outcome measures and follow up	Results	Conclusions, quality issues
Study type: RCT Evidence level: II	Bangladeshi adults with chronic disease	Diabetes 68.5% Asthma 16.5% Cardiovascular disease 5.5% 82% had more than one condition Mean age 48.45 years (9.7 SD) 57% female Mean age in years when education completed 12.3 (6.9SD) Inclusion: Bangladeshi, > 20 years, with diabetes, arthritis, respiratory or cardiovascular disease, Exclusion: -	action plans, dealing with emotions (fear, anger, frustration), fatigue management, monitoring exercise, healthy eating, communication skills, problem solving, medication use, depression management, self- talk, treatment decisions, guided imagery, working with your health care professional. Programme translated into local Bangladeshi language and supported by videocassette instead of information booklet Programme lasted for 6 weekly 3 hour sessions Comparison: n=238 Wait list control Outcome measures: Self efficacy using Chronic Disease Self Efficacy Scale Self management behaviour Communication with physician Hospital Anxiety and Depression Scale Pain Fatigue Breathlessness EuroQol EQ5D	size 0.53; 95%CI 0.01 – 1.06, P = 0.047) compared with the wait list control group. There were no differences between groups for communication with physician, depression, anxiety, health status (EQ5D) or health care use as measured by visits to the GP/practice nurse in previous 3 months	Reviewer's conclusions: Included indirect population who were invited , only 34% of those invited were randomised. Compliance for the intervention was not good. 51% attended half or more of the sessions and 21% attended no sessions. Low levels of education Source of funding: NHS Primary Care Studies Programme Additional comments: Expert Patient Programme (lorig) Adaptation of CDSMP (Stanford model) based on social cognitive theory Run in GP practices and community centres Led by pairs of trained lay tutors who themselves had chronic diseases

Reference	Aims	Participants	Exposure, comparison, or measures and follow	utcome up	Results	Conclusions, quality issues
			Follow-up time: 4 months			
Bias	Judgement			Support for judgement		
Random sequence generation	Low risk			Computer minimisation programme for randomisation and stratified by condition		
Allocation concealment	Low risk			Central	researcher	
Blinding	Low risk			Outcome assessors were blinded to allocation		
Incomplete outcome data	Low risk		Flow chart of attrition, minimal losses over time <20%, ITT		time <20%, ITT	
Selective reporting	Low risk			A priori o	outcomes reported	

Reference	Aims	Participants	Exposure, comparison, outcome measures and follow up	Results	Conclusions, quality issues
Year and author: Jerant 2009 Jerant 2008 Jerant 2008b Franks 2009 Country: USA Study type: RCT	Aims: Evaluate a home based self management programme	Study setting: Home of participant Participant characteristics: Average age 60.3 years, 77% were female, 79% were non-Hispanic white and were generally well educated. 55.6% arthritis 46.6% depression	Exposure: n= 138 (home) and 139 (telephone) Homing in on Health (HIOH)- one on one intervention delivered by telephone. Programme delivered by trained peers who were not clinicians but who had experience of chronic conditions. Delivered on a one to one basis either in patients home or by telephone. Topics included exercising safely,	Results: Self efficacy was significantly higher in the home based group compared with telephone ($P =$ 0.01) and usual care groups ($P=0.001$) at 6 weeks. This persisted at 6 months but there was no difference at 1 year. Quality of life and health status. No significant differences between groups for physical and mental summary scores in SF 36.	Author's conclusions: Peer led chronic illness self management programmes had a small to moderate short term effect on health outcomes. Telephone intervention did not appear to be effective compared to the at home intervention. Raises issues around cost effectiveness of such programmes Reviewer's conclusions: Contains indirect populations, some lack of precision although power

Reference	Aims	Participants	Exposure, comparison, ou measures and follow	itcome up	Results	Conclusions, quality issues
Evidence level: 		41.3% diabetes 10.3% COPD 11.3% congestive heart disease Inclusion: 40 + years with one or more of: arthritis, asthma, COPD, congestive heart failure, depression, diabetes. Able to speak and read English, living in a private home with access to telephone, adequate hearing and vision, at least 1 activity impairment (Health assessment Questionnaire)and / or a score of 4 or more on the CES-D depression scale Exclusion: See above	coping with difficult emotions cognitive symptom manager techniques Comparison: n= 138 Usual An initial home visit by study and the same follow-up telep questionnaires but otherwise received usual care from phy Outcome measures: Self efficacy Quality of life (SF 36; EQ-5D Visual Analog Scale- EQ VA Functional ability (HAQ) Depressive symptoms (CES Medication adherence Hospitalisations Health expenditure Medical Outcomes Study 5 ir general health subscale (GH Follow-up time: 12 months	s, using nent Care nurse ohone ysician. (; S) -D)	There were significant differences in the EuroQol VAS scores in favour of the home group compared to the usual care group at all time points and at 1 year compared with the telephone group. There were however no differences between groups for the Euro Qol 5D or the medical outcomes study general health subscale score Depressive symptoms No differences between groups for depressive symptoms (CES- D). For those with scores >9 (moderate or greater symptoms) the in home programme had significant improvements compared with usual care in improving the physical composite score of the SF36 at 6 months (P=0.03) and 1 year (P = 0.04). Medication adherence. No differences between groups for medications blo differences between groups	calculation conducted. Some issues around self selection of participants. Patients characteristics are skewed to white, well educated females. Effectiveness of some outcomes did not persist over time (self efficacy) Source of funding: AHRQ grant Additional comments: Modification of the Chronic Disease Self Management programme (Stanford Model) One –on –one intervention by trained lay person
Bias	Judgement			Support	for judgement	
Random sequence generation	Low risk			Block ra	ndomisation	

Reference	Aims	Participants	Exposure, comparison, or measures and follow	utcome up	Results	Conclusions, quality issues
Allocation concealment	Low risk			Opaque envelopes used		
Blinding	High risk			No evidence of patients investigators or assessors being blinded		
Incomplete outcome data	High risk			Flow chart of losses although reasons not provided		
Selective reporting	Low risk			A priori	outcomes reported	

Reference	Aims	Participants	Exposure, comparison, outcome measures and follow up	Results	Conclusions, quality issues
Year and author: Kennedy 2007 Reeves, 2008 (secondary analysis) Country: UK Study type: RCT Evidence level: II	Aims: Clinical and cost effectiveness of the Expert Patient Programme in the UK	Study setting: Community settings in England involving 28 strategic health authorities Participant characteristics: 629 patients with various chronic conditions Mean age 55.4 years 69. 8% women, 94.9% white 11.7% endocrine 6.4% respiratory 7% circulatory Inclusion: Self determined long term chronic illness Exclusion: -	Exposure: n=313 Expert Patients Programme Six 2.5 hr group (n=8-12) weekly sessions that included sessions on relaxation, diet, exercise, fatigue, breaking the 'symptom cycle', managing pain and medication and communication. Goal setting and action plans were key components worked on by patients and leader. Comparison: n=316 Waiting list control who could access the programme after 6 months Outcome measures: Changes in self efficacy Health care utilisation EuroQol EuroQol-5D Follow-up time: 6 months and 12 months for intervention group only	Results: Those receiving immediate course access reported greater self-efficacy (P<0.000) and	Author's conclusions: Lay led self management programmes appear to be effective in improving self efficacy and energy in patients with chronic disease. May be a useful adjunct to current services. No differences in health care utilisation Reviewer's conclusions: Indirect population, self selected, attrition relatively low compared to other studies at < 20%. Patients on the wait list may have responded differently due to the fact that it was a wait list. Some benefits in self efficacy and psychological wellbeing, increased exercise and relaxation at 6 months. No attempt to establish if effect lasted longer. No effect on health service utilisation Source of funding: Depart of Health , UK Additional comments: Expert Patients Programme (Lorig) – anglisised version of the CDSMP (Stanford model) Based on Social Learning Theory Taught by two trained lay trainers or volunteer tutors Theoretical framework for outcome measurement included self care

Reference	Aims	Participants	Exposure, comparison, out measures and follow u	tcome .p	Results	Conclusions, quality issues
					related quality of life after participating in the Expert Patient Programme.	behaviour training, exercise programmes, cognitive symptom management, relaxation, self efficacy enhancement training, skills mastery and modelling
Bias	Judgement		S	Support	for judgement	
Random sequence generation	Low risk		C	Comput	er generated minimisation process	5
Allocation concealment	Low risk		L	Used a	member of staff not related to the	project
Blinding	High risk		Ν	No blind	ling	
Incomplete outcome data	High risk		3 3 1	313 ran 316 ran reasons	domised to intervention and 248 (7 domised to control and 273 (86.4% provided	79.2%) completed 6 month follow up; %) completed 6 month follow up . No
Selective reporting	Low risk		A	A priori	outcomes reported	

	•	measures and follow up	Results	Conclusions, quality issues
Aims:	Study setting:	Exposure: n=457	Results:	Author's conclusions:
To determine the	Participants homes	Internet CDSMP	Health distress, fatigue, pain	At 1 year the intervention group had
efficacy of the internet based CDSMP	Participant characteristics: Self selected via internet sites, media	Interactive web-based, english language programme, bulletin board, book ' Living a Healthy Life with Chronic Disease' Content: individualised exercise	and shortness of breath had statistically significant improvement in the intervention group compared to controls at one year follow-up (P<0.05).	sustained improvement in health distress, fatigue, pain and shortness of breath, and stretching and strengthening. There were no differences in health care utilisation
	announcements and	programmes, cognitive symptom	Stretching and strengthening	Reviewer's conclusions:
	Of 1952 who left their details 958 returned their baseline questionnaire and were randomised Mean age 57.5 years, 71.4% female, 15.6 years of education. Diabetes 62.8% Hypertension 46.1%	programmes, cognitive symptom management, methods for managing negative emotions, medications, physician patient communication, healthy eating, fatigue management, action planning, feedback, problem solving. N=25 per workshop. 6 weeks, participants asked to log on 2-3 times per week for 1-2 hours	Stretching and strengthening exercise was significantly different at follow-up in favour of the intervention (P=0.024). No difference between groups for aerobic exercise. Trend in favour of intervention for self efficacy but did not reach statistical significance (P=0.061)	85% of controls and 78% of intervention completed 1 year follow up, participants were self selected and needed to be computer literate. Drop outs differed from completers in that they were more likely to be men and less likely to be non-Hispanic White and treatment drop outs were more likely to be educated to a bigher level
	Lung disease 45.7% Heart disease 47.7% Arthritis 24.9% Inclusion: At least 18 years old, clinical diagnosis of heart disease, chronic lung disease or type II diabetes, other chronic diseases, access to computer with internet and e-mail, agree to protocol, able to complete online	to read content, post action plan on bulleting board, check in with buddy via e-mail and participate in self tests and activities Comparison: n=501 Usual care Outcome measures: Pain/discomfort Shortness of breath Fatigue Illness Intrusiveness Scale Health Distress Scale	No significant differences between groups for health service utilisation (physician visits, emergency visits or days in hospital).	Sustained improvement in some aspects of health care status at one year follow-up Source of funding: Archstone Foundation, The Robert Wood Johnson Foundation Additional comments: Chronic Disease Self Management Programme (Stanford Model)
	Aims: To determine the efficacy of the internet based CDSMP	Aims: To determine the efficacy of the internet based CDSMPStudy setting: Participant characteristics: Self selected via internet sites, media announcements and newspapers. Of 1952 who left their details 958 returned their baseline questionnaire and were randomised Mean age 57.5 years, 71.4% female, 15.6 years of education. Diabetes 62.8% Hypertension 46.1% Lung disease 45.7% Heart disease 47.7% Arthritis 24.9%Inclusion: At least 18 years old, clinical diagnosis of heart disease or type II diabetes, other chronic diseases, access to computer with internet and e-mail, agree to protocol, able to complete online questionnaire	Aims: To determine the efficacy of the internet based CDSMPStudy setting: Participant shomesExposure: n=457Participant characteristics: Self selected via internet sites, media announcements and newspapers. Of 1952 who left their details 958 returned their baseline questionnaire and were randomised Mean age 57.5 years, 71.4% female, 15.6 years of education. Diabetes 62.8% Hypertension 46.1% Lung disease 45.7% Heart disease 47.7% Arthritis 24.9%Exposure: n=457 Internet CDSMPInternet CDSMPInteractive web-based, english language programme, bulletin board, book ' Living a Healthy Life with Chronic Disease' Content: individualised exercise programmes, cognitive symptom managing negative emotions, medications, physician patient communication, healthy eating, fatigue management, action planning, feedback, problem solving.N=25 per workshop. 6 weeks, participants asked to log on 2-3 times per week for 1-2 hours to read content, post action plan on bulleting board, check in with buddy via e-mail and participate in self tests and activitiesInclusion: At least 18 years old, clinical diagnosis of heart disease or type II diabetes, other chronic diseases, access to computer with internet and e-mail, agree to protocol, able to complete online questionnaireComparison: n=501 Usual careUsual care Usual careSortess of breath Fatigue liness Intrusiveness Scale Health Distress Scale	Aims: Study setting: To determine the efficacy of the internet based CDSMP Participant characteristics: Exposure: n=457 Results: Participant characteristics: Self selected via internet sites, media anouncements and newspapers. Internet CDSMP Health distress, fatigue, pain and shortness of breath had statistically significant timprovement in the intervention group compared to controls at managing negative emotions, medications, physician patient baseline questionnaire and were randomised Content: individualised exercise to come vasion for self filesco patient baseline questionnaire and were frandomised Stretching and strengthening exercise was significantly different at follow-up (P<0.05).

Reference	Aims	Participants	Exposure, comparison, o measures and follow	utcome up	Results	Conclusions, quality issues
		Exclusion: Treatment of cancer in previous year, previous participation in small group-CDSMP	Self Rated Global Health Stretching and strengthenir exercise Aerobic exercise Use of cognitive symptom management techniques Techniques to improve communication with health providers Self reported health care ut Follow-up time: 6 months and one year	ig care ilisation		Individualised and group internet programme Led by two trained peer moderators
Bias	Judgement		I	Support	t for judgement	
Random sequence generation	Unclear risk			Randon	nised but no other details	
Allocation concealment	Unclear risk			No deta	ils	
Blinding	High risk			No blind	ding	
Incomplete outcome data	High risk			Reason Analysis	s not given for attrition which v s not by ITT	vas greater than 20% at 1 year follow-up.
Selective reporting	Low risk			A priori	outcomes reported	

Reference	Aims	Participants	Exposure, comparison, outcome measures and follow up	Results	Conclusions, quality issues
Year and author: Swerissen 2006 Country: Australia Study type: RCT Evidence level: II	Aims: Investigate the effectiveness of the CDSMP delivered to people of culturally diverse linguistic backgrounds in Victoria , Australia	Study setting: Community settings, such as senior citizens clubs, churches and community centres. Self selected via public service announcements, posters and brochures left in GP waiting rooms, other notices in media and through presentations	Exposure; comparison, outcome measures and follow up Exposure: n=320 CDSMP (Stanford model)10-15 participants, mixed ages, gender and conditions. Six weekly sessions of 2.5 hrs Content: symptom management, problem solving, dealing with emotions of chronic illness, exercise and relaxation, use of medication, healthy eating, communication skills.	Results: The intervention group had significantly higher energy levels (P<0.000) and exercised more frequently (P<0.005), used significantly more cognitive management techniques (P<0.000), reported higher levels of self efficacy (P<0.000) and reported higher levels of self reported health (P<0.000)	Author's conclusions: People from culturally diverse linguistic backgrounds achieved better outcomes than controls although no differences in use of health services. Reviewer's conclusions: Wide recruitment method but still self selected, over-represented by women. High attrition rate reported by authors
	Participant characteristics:Vietnamese, Chinese, Italian and GreekMean age 65.9 years,76% women, mean of 6.7 years education	Also received an audiocassette and programme booklets Comparison: n=154 Wait list controls who received the programme six months after the intervention group	The control group reported significantly higher levels of health distress (P=0.043) There were no differences between groups on the disability scale, social role/activity limitation, illness intrusiveness, depression and shortness of breath.	Seems to be short term personal benefit to the psychological well- being and empowerment of the patient. No effect on health service utilisation. Source of funding: National Health and Medical Research Council	
		Hypertension 43.4% Diabetes 27.9% Asthma 8.9% Inclusion: Confirmed chronic disease or affected by chronic pain; > 18 years old, from one of the ethnicities listed above, live within a listed municipality of Victoria. Exclusion:	Outcome measures: Health status, self efficacy, health behaviours Follow-up time: 6 months	There were no significant differences in health service utilitisation for visits to general practitioner, specialist medical practitioners, allied health professionals, mental health practitioners, hospital emergency rooms There were some individual language differences which are not reported here.	Additional comments: Sessions led by two trained peer leaders Chronic Disease Self Management Programme (CDSMP) – Stanford Model Based on social learning theory

Reference	Aims	Participants	Exposure, comparison, o measures and follow	utcome up	Results	Conclusions, quality issues
		<18 years old, psychological disorder of advanced neurological disorder				
Bias	Judgement			Support for judgement		
Random sequence generation	Unclear risk			Randon	nly allocated - no details	
Allocation concealment	Unclear risk			No deta	ils	
Blinding	High risk			No blinding		
Incomplete outcome data	Unclear risk			Of 728 participants registered on trial 254 withdrew, reasons are provided in the text		
Selective reporting	Low risk			A priori	outcomes reported	

Reference	Aims	Participants	Exposure, comparison, outcome measures and follow up	Results	Conclusions, quality issues
Year and author:	Aims:	Study setting:	Exposure: n=191	Results:	Author's conclusions:
Van Sluijs 2005	To evaluate the effectiveness of a	Participants recruited from 20 volunteering GP	Physician based Assessment and Counseling for Exercise (PACE).	A statistically significant effect was observed in improved self	PACE had a positive effect on self efficacy outcomes
Country:	PACE intervention	practices. GPs identified	10 minute consultation and advised	efficacy subscales in favour of	Reviewer's conclusions:
Study type:	practitioners on potential determinants	were then randomly selected by the	to increase physical activity + two additional visits with health care provider and two booster telephone	intervention and six months but this was not sustained at one	Of 2377 invited participants 771 were randomised, attrition was less than

Reference	Aims	Participants	Exposure, comparison, outo measures and follow up	tcome Ip	Results	Conclusions, quality issues
RCT – cluster randomised Evidence level: II	of physical activity	researchers Participant characteristics: Hypertension/hypercholest raemia or non-insulin dependant diabetes Mean age 55.5 years, 49.2% female and 36.3% had a low level of education Inclusion: Hypertension/hypercholest raemia or non-insulin dependant diabetes, aged 18 – 70 years, physically able to be at least moderately active, not being in the maintenance stage for regular physical activity Exclusion: -	calls with physical activity counselor. Participant fills out questionnaire based on stages change prior to meeting with G At the consultation the GP rev the protocol and emphasises as specific issues and feedback. Booster telephone call after 2 weeks designed to encourage positive behaviour change. Se GP visit at 4 weeks and secon booster call at 8 weeks after th Comparison: n=205 Usual care Outcome measures: Self efficacy Benefits and barriers to physic activity Social support Processes of Change Questionnaire Follow-up time: 12 week intervention	cal	year follow up.	20% at one year follow –up . However the drop outs differed from those completing in that they were younger, more likely to be inactive and had a higher BMI than I year responders Source of funding: Netherlands Heart Foundation, Health Research and Development Council of the Netherlands, Ministry of Health Welfare and Support Additional comments: Based on Social Cognitive Theory (self efficacy) and Transtheoretical Model
Bias	Judgement		S	Support	for judgement	
Random sequence generation	Low risk		С	Compute	er generated blocks of 4	
Allocation concealment	Unclear risk		N	No detail	ls	

Reference	Aims	Participants	Exposure, comparison, outc measures and follow up	come p	Results	Conclusions, quality issues
Blinding	Low risk			Participants in the intervention group were blinded to additional randomisation for time		
Incomplete outcome data	High risk			High completion rate, reasons not given for withdrawal although states ITT analysis also states that differences in the number of subjects is due to incomplete data sets.		
Selective reporting	Low risk			A priori outcomes reported		