Supplement 1. Search strategy

A. Search Strategy (Interface - EBSCOhost Research Databases):

OR/1-22: (MM "Heart Failure+"), "heart failure", (MM "Cardiac Output, Decreased"), (MM "Ventricular Dysfunction+"), heart N5 fail*, cardi* N4 dysfunction*, heart N5 dysfunction*, "congestive heart failure", "cardiac fail*", "systolic heart failure", "cardiac incompetence", "cardiac decompensation", "cardiac insufficiency", "chronic heart failure", "cardial insufficiency", "myocardial failure", "myocardial insufficiency", "heart N3 fail*", "diastolic dysfunction*", "Systolic dysfunction*", "heart N3 dysfunction*", "cardiac dysfunction*".

OR/24-46: (MH "Behavioral Changes"), (MH "Life Style Changes"), (MM "Self Care+"), "Self-management", "Intervention", (MM "Early Intervention+"), (MM "Patient Care+"), (MM, "Rehabilitation+"), (MM "Home Rehabilitation+"), (MM "Rehabilitation, Cardiac+"), (MM "Rehabilitation, Community-Based"), (MH "Physical Education, Adapted"), (MH "Behavioral Objectives"), (MH "Psychosocial Adjustment: Life Change (Iowa NOC), (MH "Change Management"), (MH "Behavior Management (Iowa NIC)"), (MH "Health Behavior"), (MH "Phychotherapy+"), "Behavio\$ral intervention", "Behavio\$change technique*", "Behavio\$r change", "Counselling", "Psychotherapy".

OR/48-62: (MH "Physical Activity"), (MH "Sports+"), (MH "Activities of Daily Living+"), (MH "Exercise+"), (MH "Leisure Activities+"), (MH "Physical Fitness+"), (MH "Movement"), (MH "Acrobic Exercise+"), (MH "Swimming"), (MH "Rehabilitation, Cardiac"), (MH "Resistance training"), (MH "Sports Specific Training"), (MH "Group Exercise"), Physical N5 activ*, Exercis*.

OR/64-66: (MH "Randomized Controlled Trials"), "Randomi\$ed controlled trial", "Clinical trial".

23 AND 47 AND 63 23 AND 47 AND 63 AND 67

B. Search Strategy (Interface - OVID):

- 1. exp heart failure/
- 2. heart failure.mp.
- 3. heart decompensation.mp.
- 4. heart insufficiency.mp.
- 5. cardiac failure.mp.
- 6. cardiac incompetence.mp.
- 7. cardiac decompensation.mp.
- 8. cardiac insufficiency.mp.
- 9. exp heart output/
- 10. cardiac output.mp.
- 11. exp diastolic dysfunction/
- 12. exp congestive heart failure/
- 13. diastolic dysfunction.mp.
- 14. exp systolic dysfunction/
- 15. exp heart left ventricle failure/
- 16. heart left ventricle failure.mp.
- 17. cardial insufficiency.mp.
- 18. chronic heart failure.mp.
- 19. chronic heart insufficiency.mp.
- 20. decompensation, heart.mp.
- 21. myocardial failure.mp.
- 22. myocardial insufficiency.mp.
- 23. (heart adj3 fail*).tw.
- 24. (heart adj3 dysfunction*).tw.
- 25. left ventricular dysfunction.tw.
- 26. (cardiac adj3 dysfunction*).tw.
- 27. (cardiac adj3 fail).tw.
- 28. ventricular dysfunction.mp.
- 29. chronic cardiac failure.mp.
- 30. congestive cardiac failure.mp.
- 31. 1 or 2 or 3 or 4 or 5 or 6 or $\vec{7}$ or 8 or 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30

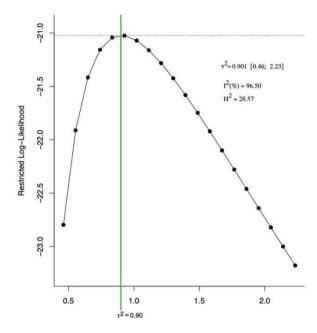
- 32. exp physical activity/
- 33. physical exercise.mp.
- 34. physical activity.mp.
- 35. exercise.mp.
- 36. exp aerobic exercise/
- 37. aerobic exercise.mp.
- 38. exp resistance training/
- 39. resistance training.mp.
- 40. exercise training.mp.
- 41. exp daily life activity/
- 42. exp walking/
- 43. exp motor activity/
- 44. daily physical activity.mp.
- 45. exp motor activity/
- 46. exp leisure/
- 47. leisure activities.mp.
- 48. exp heart rehabilitation/
- 49. cardiac rehabilitation.mp.
- 50. exercise program.mp.
- 51. exercise programme.mp.
- 52. exp fitness/
- 53. exp swimming/
- 54. exp sport/
- 55. exp endurance training/
- 56. (physic* adj3 activ*).tw.
- 57. physical activity.tw.
- 58. exercis*.tw.
- 59. walk*.tw.
- 60. (daily adj5 physic adj5 activ*).tw.
- 61. 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or
- 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59 or 60
- 62. 31 and 61
- 63. exp intervention study/
- 64. intervention.mp.
- 65. exp health promotion/
- 66. exp behavior change/
- 67. behavioral intervention.mp.
- 68. behaviour change.mp.
- 69. exp behavior change/
- 70. psychological intervention.mp.
- 71. exp patient education/
- 72. exp counseling/
- 73. exp patient counseling/
- 74. behav* change.tw.
- 75. (change adj3 behavio\$r).tw.
- 76. intervention.tw.
- 77. health promotion.tw.
- 78. behavio\$r change technique*.tw.
- 79. behavio\$r change strateg*.tw.
- 80. BCT.tw.
- 81. randomized controlled trial.tw.
- 82. randomized controlled trial/
- 83. clinical trial/
- 84. controlled study/
- 85. RCT.mp.
- 86. 81 or 82 or 83 or 84 or 85
- 87. cardiac rehabilitation.tw.
- 88. 63 or 64 or 65 or 66 or 67 or 68 or 69 or 70 or 71 or 72 or 73 or 74 or 75 or 76 or 77 or 78 or 79 or
- 80 or 87
- 89. 31 and 61 and 86 and 88

Supplement 2. Risk of bias: individual studies

Supplemental material



Supplement 3. The dispersion of the underlying main effect



The dispersion (tau) of the underlying main effect.

Supplement 4. Intervention characteristics (expanded Table 2)

Author, year		Intervention description	Behaviour Change Techniques	Intervention intensity	Facilitator	mode of delivery	Theory (TCS)
Ajiboye et al., 2015	Main intervention	Aerobic and resistance training and education	BP/R; GT	36 session; 60-minute sessions; three a week (36 sessions)	nr	face-to-face	none
	Comparator treatment	usual care and education	PI				
Bernocchi et al., 2018	Main intervention	integrated telerehabilitation home-based programme (Telereab- HBP) with personalised exercise maintenance programme	IHC; CS: IHPB; AOE; BP/R; GT; SMB; MbBOwF; FB;	nr	Nurse tutor; physiotherapist tutor	telemonitoring of vital signs. Mini- ergometer, pedometer and diary.	none
	Comparator treatment	usual care	IHC				
van den Berg- Emons et al., 2004	Main intervention	aerobic exercise training	AP; BP/R; GS(B);	24 sessions, 60-minute sessions twice a week (12 weeks)	not reported	hospital-based training in groups	none
	Comparator treatment	usual care without particular advice for exercise	none	not reported	not reported	not reported	none

Author, year		Intervention description	Behaviour Change Techniques	Intervention intensity	Facilitator	mode of delivery	Theory (TCS)
Boyne et al., 2014	Main intervention	Individually tailored e-health intervention 'Health Buddy.'	IHC; SMB; SMOB	364 sessions: daily 10-minute session (52 weeks)	HF nurse and a nurse assistant	Telemonitorin g device 'Health Buddy.'	none
	Comparator treatment	education	IHC	not reported	not reported	Home-based, individual	none
Brodie et al., 2005	Main intervention	Motivational Interviewing	GT; IHC; PS; SC; SMB; SS(E); SS(U);	Eight sessions: Weekly 60- minute sessions (8 weeks)	A researcher without clinical qualification	home-based Face-to-face sessions	MI (TCS = 2)
	Main intervention	Motivational interviewing + education	GT; PS; SC; SMB; SS(E); SS(U)	Eight sessions: Weekly 60- minute sessions (8 weeks)	HF specialist nurse; researcher without clinical qualification	home-based Face-to-face sessions + Usual care package	MI (TCS = 2)
	Comparator treatment	education	IHC	not reported	HF specialist nurse	Usual care package	none
Collins et al., 2004	Main intervention	Aerobic exercise training	AOE; AP; BP/R; GS(B); GT; IHPB; RP/C	120 sessions five days a week 50 minutes (24 weeks)	Exercise physiologist or nurse	Supervised group-based	none

Author, year		Intervention description	Behaviour Change Techniques	Intervention intensity	Facilitator	mode of delivery	Theory (TCS)
	Comparator treatment	usual care	none	not reported	not reported	not reported	none
Corvera- Tindel et al., 2004	Main intervention	A home walking exercise programme	BP/R; GS(B); GT; MBbOwF; MOBwF; SMB	60 sessions: 60 minutes 5 days a week (12 weeks)	nurse	Home-based, Supervised	none
	Comparator treatment	usual care	MBbOwF	not reported	not reported	not reported	none
Cowie et al., 2011	Main intervention	hospital-based aerobic exercise training	Intervention 1: AP; BP/R; DB; GS(B); GT; IHC; IHPB; RBG; SMB; SMOB;	16 sessions: 60 minutes sessions, Twice a week eight weeks	Exercise instructor	Face-to-face, hospital-based	none
	Main intervention	home-based exercise training	Intervention 2: AP; BP/R; DB; GS(B); GT; GTB: IHC; IHPB: SMOB;	16 sessions: 30 minutes sessions, Twice a week eight weeks	physiotherapist	home-based, individual (DVD)	none
	Comparator treatment	usual care	none	not reported	not reported	not reported	none

Author, year		Intervention description	Behaviour Change Techniques	Intervention intensity	Facilitator	mode of delivery	Theory (TCS)
Dalal et al., 2018 (REACH-HF)	Main intervention	the Rehabilitation Enablement in Chronic Heart Failure (REACH- HF) self-care and rehabilitation intervention	BP/R; RNE; RPE; IHC; SS(E); SS(P); SS(U); GT; GS; PS; RBG; SMB	at least three face-to- face sessions; via phone - unspecified; 12 weeks	Two trained cardiac nurses	nr	SDT, CSM, CT (TCS = 5)
	Comparator treatment	usual care	IHC				
Freedland et al., 2018	main intervention	Integrative Cognitive Behaviour Therapy + Enhanced (with education) usual care	IHC; GS(B); AP; CS; IHPB; PS; MBOwF; MOBwF; ST; PC;	25 sessions; 60-minute sessions; once a week; 4 education sessions via phone (30 minutes)	Clinical phycology trainee (graduate student)	nr	CBT (TCS = 6)
	Comparator treatment	Enhanced (with education) usual care	IHC	Four education sessions via phone (30 minutes)	Nurse	nr	none
O'Connor et al., 2009 (HF- ACTION)	Main intervention	Aerobic exercise training + Exercise adherence facilitation intervention	AOE; AP; BP/R; CS; GS(B); GT; GTB; IHC; IHPB; PC; SMB; SMOB; SS(E); MBbOwF; SS(P); SS(U)	72 sessions, three sessions per week (24 weeks)	Physiotherapist	Facility-based group-based exercise training	TTM, SCT (TCS = 7)
	Comparator treatment	usual care	CS; GS(B); IHC; MBbOwF; SS(U);	not reported	not reported	not reported	none

Author, year		Intervention description	Behaviour Change Techniques	Intervention intensity	Facilitator	mode of delivery	Theory (TCS)
Jolly et al., 2009	Main intervention	Aerobic and resistance exercise training	AP; BC; BP/R; DB; GS(B); GT; IHC; IHPB SMB; SS(U)	Three supervised exercise sessions; 3 home visits; 3 telephone sessions; 120 self-applied sessions (5 times a week) 20-30 minutes (24 weeks)	PA instructor	Home-based, face-to-face	none
	Comparator treatment	HF specialist nurse care	IHC	not reported	HF specialist nurse	not reported	none
Meng et al., 2016	Main intervention	self-management patient education program + inpatient cardiac rehabilitation	IHC; GS(B); AP; PS; RBG; SMB; FPS; IHPB; BF	Five sessions; 60-75 minutes; 2 sessions a week (approx), three- week session;	Physician; nurse; psychologist; physiotherapist	face-to-face	nr
	Comparator treatment	education	IHC	One session; 60 minutes	physician	face-to-face	
Pozehl et al., 2018 (HEART Camp)	Main intervention	multicomponent intervention Heart Failure Exercise and Resistance Training (Heart Camp)	IHTB; BP/R; BF; IEC; iHC; MOBwF; SS(U); GS(B); RBG; PS; VPaC; FB; BF; SMB	Six group-based educational sessions (adoption: 6 and months), self- administered (maintenance at 13-18 months) one session a week (18 months)	coach trainer	nr	SCT (TCS = 5)

Author, year		Intervention description	Behaviour Change Techniques	Intervention intensity	Facilitator	mode of delivery	Theory (TCS)
	Comparator treatment	Enhanced (nine exercise sessions for three months)	IHPB; BP/R	nr	nr	face-to-face	none
Smeulders et al., 2009	Main intervention	Chronic disease management programme	AP; BC; BE; BP/R; D; DB; FB; IHC; ISRM; PS; R; RNE; SS(U); ST	Six sessions 150 minutes once a week (6 weeks)	Lay leader (HF patient); HF specialist nurse	Hospital-based group-based exercise training and classes	SLT (TCS = 8)
	Comparator treatment	usual care	none	not reported	HF specialist nurse	not reported	none
Tomita et al., 2008	Main intervention	Multidisciplinary Internet-based programme on management of HF	FB; IHC; IHPB; SMB	Forty-two sessions, 3.5 sessions a month for about 10 minutes. 1-year e-health intervention	Self-applied (Website)	Home-based, internet-based (website)	TTM, SST (TCS = 2)
	Comparator treatment	Usual care	none	not reported	not reported	not reported	
Willenheimer et al ., 2001	Main intervention	Aerobic exercise training	AP; BP/R; DB; GS(B); GT; IHPB	41 session: 2 sessions a week (15 minutes) for seven weeks: and then three sessions a week (45 minutes) for nine weeks	physiotherapist	Hospital- based, Group- based exercise training	none

Author, year		Intervention description	Behaviour Change Techniques	Intervention intensity	Facilitator	mode of delivery	Theory (TCS)
	Comparator treatment	usual care + discouragement to exercise	PI	16 weeks	nr	not reported	none
Witham et al., 2005	Main intervention Comparator treatment	Seated aerobic exercise training followed by seated resistance exercise training usual care	BP/R; GS(B); GT; GTB; IHC; MOBwF; SMB; SS(U)	17-20 sessions 20- minute session Twice a week (12 weeks)	Physiotherapist	Group-based, hospital-based exercise training (supervised and home settings) Followed by home self- monitoring, self- monitoring and goal setting, not reported	none
Yeh et al., 2011	Main intervention	Exercise training (Tai Chi Mind-Body movement)	AP; BC; BP/R; DB; GS(B); IHPB; SMB	twice a week (group sessions); three times a week home sessions) one hour (group sessions); 35 minutes (home sessions) (12 weeks)	Exercise instructor	Hospital- based, Group- based exercise training	none

Author, year		Intervention description	Behaviour Change Techniques	Intervention intensity	Facilitator	mode of delivery	Theory (TCS)
	Comparator treatment	usual care	none	Not reported	Video recording	Followed by home-based exercise training and monitoring	none
Young et al. 2015; 2016	Main intervention	Patient Activation Intervention on self-management in HF (Patient AcTivated Care at Home: PATCH)	IHC; DB; IHPB; SMOB; ;GS(B); IAwCB; SC; VC; MBbOwF; NSI	12 sessions (45 minutes); one in a hospital and then twice a week for the first two weeks, once a week for weeks 3–6, and every other week for weeks 7–12 (12 weeks)	Advanced practice nurse	one session face-to-face; telephone	none
	Comparator treatment	Usual care	IHC	50-minute one session	nurse	face-to-face	none

Note: TCS – Theory Coding Scheme; nr – not reported; MI – Motivational Interviewing, SDT – Self-determination theory; CSM – CT — Control Theory; CBT — Cognitive Behavioural Therapy; TTM – Transtheoretical Model of Change; SCT — Social Cognitive Theory; SLT – Social Learning theory; SST; AOE – 12.5. Adding objects to the environment; AP – 1.4. Action planning; BC – 12.6. Body changes; BE – 4.4. Behavioural experiments: BP/R – 8.1. Behavioural practice/rehearsal; BF - Biofeedback; CS – 9.2. Credible source; D – 12.4. Distraction; DB – 6.1. Demonstration of the behaviour; FB – 2.2. Feedback on behaviour; FPS - 15.3. Focus on past success; GS(B) – 1.1. Goal setting (behaviour); GT – 8.7. Graded tasks; GTB – 8.6. Generalisation of target behaviour; IEC - 5.6. Information about emotional consequences; IHC – 5.1 Information about health consequences; IHPB – 4.1. Instruction on how to perform the behaviour; IAwCB – 13.5. Identity associated with changed behaviour; ISRM – 13.1. Identification of self as a role model; MBbOwF - 2.5. Monitoring of behaviour by others without feedback; MOBwF – 2.5. Monitoring of outcomes of behaviour without feedback; NSI – non-specific incentive; PC – 7.1. Prompts/cues; PS – 1.2. Problem-solving; R – 4.3. Reattribution; RBG – 1.5. Review behaviour goal(s); RNE – 11.2. Reduce negative emotions; RP/C – 7.3. Reduce prompts/cues; RPE - 12.1. Restructuring the physical environment; SC – 6.2. Social comparison; SMB – 2.3. Self-monitoring of behaviour; SMOB – 2.4. Self-monitoring of outcome(s) of behaviour; SS(E) – 3.3. Social support (emotional); SS(P) – 3.2. Social support (practical); SS(U) – 3.1. Social support (unspecified); ST – 15.4. Self-talk; VPaC - 15.1. Verbal persuasion about capability; VC - 16.3. Vicarious consequences

Supplement 5. Intervention and participant characteristics, as well as method of assessment that did not significantly contribute to intervention efficacy

Variable	SMD/b	CI, 95% (lower)	CI, 95% (upper)
Theory use:			
Theory use score (overall, TCS)	0.13	-0.01	0.27
Theory mentioned	0.46	-0.23	1.15
Behaviour Change Techniques:*			
Self-monitoring of behavior	0.49	-0.04	1.03
Information about health			
consequences	0.50	-0.05	1.06
Social support (emotional)	0.92	-0.08	1.92
Instruction on how to perform a			
behavior	0.51	-0.11	1.13
Social support (unspecified)	0.53	-0.19	1.25
Demonstration of the behavior	0.37	-0.39	1.12
Feedback on behavior	0.31	-0.77	1.38
Problem solving	0.05	-0.92	1.02
Monitoring outcome(s) of behavior by			
others without feedback	0.32	-0.92	1.56
Behavioral contract	0.30	-0.93	1.53
Biofeedback	0.50	-1.01	2.01
Review behavior goal(s)	0.18	-1.08	1.43
Reduce negative emotions	0.07	-1.17	1.30
Information about emotional			
consequences	0.04	-1.47	1.56
Vicarious consequences	0.23	-1.47	2.39
Self-talk	0.04	-1.48	1.55
Social comparison	0.02	-1.55	1.60
Behavioral experiments	0.21	-1.93	2.34
Distraction	0.21	-1.93	2.34
Identification of self as role model	0.21	-1.93	2.34
Reattribution	0.21	-1.93	2.34
Identity associated with changed			
behaviour	0.23	-1.93	2.39
Non-specific incentive	0.23	-1.93	2.39
Restructuring the physical environment	0.13	-2.01	2.27
Reduce prompts/cues	0.04	-2.22	2.31
Social support (practical)	1.42	-2.22	2.46
Discrepancy between current behavior			
and goal	-0.14	-2.28	2.01

TITLE: Efficacy of interventions to increase physical activity for people with heart failure: a meta-analysis

Intervention intensity:			
Number of sessions	0.00	-0.01	0.01
Duration, single session (mins)	0.00	0.00	0.01
Intervention contact time (mins)	0.00	0.00	0.00
intervention duration (weeks)	-0.01	-0.04	0.02
Individually delivered	0.30	-0.47	1.06
Setting:			
Home-setting	0.16	-0.66	0.99
Facilitator:			
Telehealth	0.73	-0.79	2.25
Nurse	0.34	-0.38	1.05
HF nurse	0.09	-1.18	1.36
Researcher	0.29	-1.25	1.82
Self-applied	0.21	-1.35	1.76
Lay leader	0.21	-1.93	2.34
Advanced practice nurse	0.23	-1.93	2.39
Cardiac nurse	0.13	-2.01	2.27
Website	0.00	-2.25	2.25
Graduate student therapist (trained)	-0.14	-2.28	2.01
Participant characteristics:			
Age	0.01	0.00	0.01
Males included in the sample, (%)	0.01	0.00	0.02
LVEF, (%)	0.01	0.00	0.02
Physical activity assessment:			
Self-reports	0.68	-0.06	1.41
Accelerometer	0.31	0.07	0.56
Difference in efficacy between trials			
using accelerometers vs self-reports	-0.32	-1.15	0.51

^{*(}BCTTV1 taxonomy: Michie et al., 2013)

Supplement 6. Sensitivity analysis: results

Trials with the education comparator (Boyne et al. 2014; Meng et al. 2016; Freedland et al. 2015; Brodie and Inoue 2005) (Ajiboye et al. 2015) Exercise: SMD = 0.34, 95%Cl [0.18; 0.51]; Remote communication and treatment: SMD = 0.42, 95%Cl [0.24; 0.60]; No change in the significance of the Exercise and behaviour change: effects associated with individual intervention or participant characteristics SMD = 0.42, 95%Cl [0.24; 0.60]; No change in the significance of the Exercise and behaviour change: effects associated with individual intervention or participant characteristics SMD = 0.21, 95%Cl [0.004; 0.41]; intervention or participant characteristics Disease Management: SMD = 0.21, 95%Cl [-0.03; 0.45];
Trials with the education comparator (Boyne et al. 2014; Meng et al. 2016; SMD = 0.42, 95%Cl [0.24; 0.60]; No change in the significance of the Exercise and behaviour change: effects associated with individual SMD = 0.21, 95%Cl [0.20; O.40] *** SMD = 0.42, 95%Cl [0.24; 0.60]; No change in the significance of the effects associated with individual sintervention or participant characteristics of the service and behaviour change: effects associated with individual sintervention or participant characteristics of the effects associated with individual sintervention or participant characteristics of the effects associated with individual sintervention or participant characteristics of the effects associated with individual sintervention or participant characteristics of the effects associated with individual sintervention or participant characteristics of the effects associated with individual sintervention or participant characteristics of the effects associated with individual sintervention or participant characteristics of the effects associated with individual sintervention or participant characteristics of the effects associated with individual sintervention or participant characteristics of the effects associated with individual sintervention or participant characteristics of the effects associated with individual sintervention or participant characteristics of the effects associated with individual sintervention or participant characteristics of the effects associated with individual sintervention or participant characteristics of the effects associated with individual sintervention or participant characteristics of the effects associated with individual sintervention or participant characteristics of the effects associated with individual sintervention or participant characteristics of the effects associated with individual sintervention or participant characteristics of the effects associated with individual sintervention or participant characteristics of the effects associated with individual sinterventi
Self-Management: SMD = 0.23, 95%CI [-0.17; 0.62].

EXCLUDED TRIALS	Overall effect	General Approach	Efficacious intervention
			characteristics
HF-ACTION trial (O'Connor et al. 2009)	SMD = 0.37, 95% CI: [0.10; 0.63]*	Exercise: SMD = 0.56, 95%CI [0.18; 0.94]; Remote communication and treatment: SMD =0.41, 95%CI [-0.29; 1.11]; MI: SMD = 0.03, 95%CI [-0.89; 0.94]; Exercise and behaviour change: SMD = 0.21, 95%CI [-0.59; 1.01]; CBT: SMD = 0.21, 95%CI [-0.91; 1.33]; Disease Management: SMD =0.23, 95%CI [-0.95; 1.41].	Behavioural Practice and Rehearsal * Graded task * Group-based * Centre-based *

			Social Support (emotional) *
			Social Support (practical) **
			TCS score *
			Monitoring of behaviour by others w/o
			feedback*
	SMD =	Exercise: SMD =0.36, 95%CI [-0.2; 0.91];	Credible source***
	0.4578	Remote communication and treatment:	Adding objects to the environment ***
High Risk of Bias trials	95%CI	SMD = 0.56, 95%CI [-0.57; 1.7];	Self-monitoring of outcome(s) of
(Ajiboye et al. 2015;	[0.0903	MI: SMD = 0.03, 95%CI [-1.16; 1.21];	behaviour*
Tomita et al. 2008)	0.8252 *	Exercise and behaviour change:	Self-monitoring of behaviour *
		SMD = 1.27, 95%CI [0.47; 2.07]***;	Information about health
		CBT: SMD = 0.21, 95%CI [-1.38; 1.8];	consequences *
		Disease Management: SMD =0.23, 95%CI [-1.39	Information on how to perform
		1.85].	behaviour *
			Graded tasks *
			Action Planning *
			Goal setting (behaviour) *
			Behavioural Practice and Rehearsal**

EXCLUDED TRIALS	Overall effect	General Approach	Efficacious intervention
			characteristics
HF-ACTION trial (O'Connor et al. 2009) and High Risk of Bias trials	SMD = 0.2670 95%CI [0.1549 0.3790 ***	Exercise: SMD=0.35, 95% CI [0.15; 0.54]*; Remote communication and treatment: SMD=0.47, 95%CI [0.24;0.70]*; MI: SMD=0.03, 95%CI [-0.46;0.52]; Exercise and behaviour change: SMD= 0.21; 95%CI:[-0.07; 0.49]; CBT SMD= 0.21, 95%CI:[-0.15; 0.57] Disease Management SMD= 0.23, 95%CI:[-0.25; 0.71].	Nurse *** Telehealth** Biological Feedback* Credible source * Self-monitoring of outcomes of behaviour* Self-monitoring of behaviour ** Demonstration of the behaviour ** Information about health consequences ** Graded tasks ** Action Planning ** Goal setting (behaviour)*** Behavioural Practice and Rehearsal***

Supplement 7. Publication bias: funnel plot

