<u>Version 2</u>

P

"Coronary Artery Disease"[Mesh:NoExp] OR

"Coronary Disease"[Mesh:NoExp] OR
coronary artery disease*[tiab] OR
coronary heart disease*[tiab] OR
coronary arterioscleros*[tiab] OR
coronary atheroscleros*[tiab] OR

"Myocardial Ischemia"[Mesh:NoExp] OR
ischemic heart*[tiab] OR
ischaemic heart*[tiab] OR
heart ischem*[tiab] OR
heart ischaem*[tiab] OR
myocardial ischem*[tiab] OR
myocardial ischaem*[tiab] OR
ischemic myocard*[tiab] OR
ischaemic myocard*[tiab] OR

"Acute Coronary Syndrome"[Mesh:NoExp] OR
acute coronary syndrome*[tiab] OR
coronary acute syndrome*[tiab] OR
"acute occlusive coronary"[tiab] OR
acute occlusive arter*[tiab] OR
coronary thromb*[tiab] OR
coronary disease*[tiab] OR
coronary event*[tiab] OR
coronary accident*[tiab] OR
coronary failure*[tiab] OR

"Angina, Unstable"[Mesh:NoExp] OR
unstable angina*[tiab] OR
preinfarction angina*[tiab] OR
"angina at rest"[tiab] OR
myocardial preinfarction syndrome*[tiab] OR

"Angina Pectoris"[Mesh:NoExp] OR
stenocardia*[tiab] OR
"angor pectoris"[tiab] OR
"angina pectoris"[tiab] OR

"Myocardial Infarction"[Mesh:NoExp] OR
"Inferior Wall Myocardial Infarction"[Mesh:NoExp] OR
"Anterior Wall Myocardial Infarction"[Mesh:NoExp] OR
myocardial infarct*[tiab] OR
heart attack*[tiab] OR
ST elevat*[tiab] OR
non-ST-elevat*[tiab] OR
stemi*[tiab] OR
nstemi*[tiab] OR
nonstemi*[tiab] OR
non stemi*[tiab] OR

"Myocardial Stunning"[Mesh:NoExp] OR

"Myocardial Hibernation"[tiab] OR
"Stunned Myocardium"[tiab] OR
"stunning myocardium"[tiab] OR
myocardium stunn*[tiab] OR
myocardial stunn*[tiab] OR

"Heart Failure"[Mesh:NoExp] OR
heart fail*[tiab] OR
cardiac fail*[tiab] OR
failing heart*[tiab] OR
myocardial fail*[tiab] OR
failing myocard*[tiab] OR
failure myocard*[tiab] OR
"Heart Decompensation"[tiab] OR
decompensate heart fail*[tiab] OR
decompensated heart fail*[tiab] OR
Right Sided Heart Fail*[tiab] OR
Congestive Heart Fail*[tiab] OR
Left Sided Heart Fail*[tiab] OR

"Heart Failure, Diastolic"[Mesh:NoExp] OR
Systolic Heart Fail*[tiab] OR

"Heart Failure, Systolic"[Mesh:NoExp] OR
"impaired myocardial function"[tiab] OR
"reduced myocardial function"[tiab] OR
"myocardial insufficiency"[tiab] OR
Diastolic Heart Fail*[tiab] OR

"Myocardial Revascularization"[Mesh:NoExp] OR
Revascularization*[tiab] OR
Internal Mammary Artery Implantation*[tiab] OR

"Coronary Artery Bypass"[Mesh:NoExp] OR
Coronary Artery Bypass*[tiab] OR
coronary bypass*[tiab] OR
Aortocoronary Bypass*[tiab] OR
cabg*[tiab] OR
cardiac bypass*[tiab] OR
acute occlusive dissection*[tiab] OR

"Coronary Artery Dissection, Spontaneous" [Supplementary Concept] OR
Coronary Artery Dissection*[tiab] OR

"Percutaneous Coronary Intervention"[Mesh:NoExp] OR
coronary intervention*[tiab] OR

"Internal Mammary-Coronary Artery Anastomosis"[Mesh:NoExp] OR
"Coronary Internal Mammary"[tiab] OR
Internal Mammary Coronary Artery Anastomos*[tiab] OR

"Angioplasty, Balloon, Coronary"[Mesh:NoExp] OR
Coronary Balloon*[tiab] OR
Coronary Angioplast*[tiab] OR
coronary stent*[tiab] OR

"Vascular Grafting"[Mesh:NoExp] OR
vessel graft*[tiab] OR
vascular graft*[tiab] OR

"Heart-Assist Devices"[Mesh:NoExp] OR
Ventricular Assist Device*[tiab] OR
Ventricular Assisted*[tiab] OR
Heart Assist Pump*[tiab] OR
Vascular Assist Device*[tiab] OR
Artificial Ventricle*[tiab] OR
Ventricle Assist Device*[tiab] OR
Artificial Heart Ventricle*[tiab] OR

"Defibrillators, Implantable"[Mesh:NoExp] OR
implanted cardioverter defibrillat*[tiab] OR
implantable cardioverter defibrillat*[tiab] OR
implantable defibrillat*[tiab]

I

"Social Support"[Mesh:NoExp] OR
social network*[tiab] OR
psychosocial support*[tiab] OR
psychosocial intervention*[tiab] OR
social support*[tiab] OR

"Psychotherapy"[Mesh:NoExp] OR
psychotherap*[tiab] OR
psychologic treatment*[tiab] OR
psychologic intervention*[tiab] OR
psychologic therap*[tiab] OR
psychological treatment*[tiab] OR
psychological intervention*[tiab] OR
psychological therap*[tiab] OR

"Stress, psychological"[Mesh:NoExp] OR
"stress management"[tiab] OR
"distress management"[tiab] OR

"Relaxation Therapy"[Mesh:NoExp] OR
relaxation Technique*[tiab] OR
relaxation Technic*[tiab] OR
relaxation therap*[tiab] OR
progressive muscle relaxation*[tiab] OR

"Cognitive Therapy"[Mesh:NoExp] OR
Cognitive Therap*[tiab] OR
Cognition Therap*[tiab] OR

"Autogenic Training"[Mesh:NoExp] OR
Autogenic Training*[tiab] OR

"Meditation"[Mesh:NoExp] OR
meditation*[tiab] OR

"Negotiating"[Mesh:NoExp] OR
Mediation*[tiab] OR

Mediating[tiab] OR

"Adaptation, Psychological"[Mesh:NoExp] OR
Psychological Adjustment*[tiab] OR
Psychological Adaptation*[tiab] OR
Psychologic Adaptation*[tiab] OR
coping*[tiab] OR

"Life Change Events"[Mesh:NoExp] OR
life style chang*[tiab] OR
lifestyle chang*[tiab] OR
Life Change Event*[tiab] OR
Event History Analys*[tiab] OR

"Muscle Relaxation"[Mesh:NoExp] OR
Muscle Relaxation*[tiab] OR

"Motivation"[Mesh:NoExp] OR
disincentive*[tiab] OR
incentive*[tiab] OR
motivational interview*[tiab] OR

"Counseling"[Mesh:NoExp] OR
counseling*[tiab] OR

"Behavior Therapy"[Mesh:NoExp] OR
Conditioning Therap*[tiab] OR
Behavior Modification*[tiab] OR
Behavior Therap*[tiab] OR
Behavioral Therap*[tiab] OR
Behaviour Modification*[tiab] OR
Behaviour Therap*[tiab] OR
Behavioural Therap*[tiab] OR
"conversational therapy"[tiab] OR
"conversation therapy"[tiab] OR
Behavioral intervention*[tiab] OR
Behavioural intervention*[tiab] OR

"Psychopharmacology"[Mesh:NoExp] OR
Psychopharmacolog*[tiab] OR

"Patient Compliance"[Mesh:NoExp] OR
Patient Cooperation*[tiab] OR
Non Compliance*[tiab] OR
Noncompliance*[tiab] OR
Compliance*[tiab] OR
Compliant*[tiab] OR
Non Compliant*[tiab] OR

"Mind-Body Therapies"[Mesh:NoExp] OR
Mind Body Therap*[tiab] OR
Mind Body Medicine*[tiab] OR

"Mental Healing"[Mesh:NoExp] OR
mental heal*[tiab] OR

"Laughter Therapy"[Mesh:NoExp] OR
"Laughter Therapy"[tiab] OR

"Hypnosis"[Mesh:NoExp] OR
Hypnos*[tiab] OR
Mesmerism*[tiab] OR

"Biofeedback, Psychology"[Mesh:NoExp] OR
"Psychological Feedback"[tiab] OR
Biofeedback*[tiab] OR
Myofeedback*[tiab] OR
False Physiological Feedback*[tiab] OR
Bogus Physiological Feedback*[tiab] OR

"Self Care"[Mesh:NoExp] OR
self care*[tiab] OR
self manage*[tiab]

C

"Physical Fitness"[Mesh:NoExp] OR
"Physical Fitness"[tiab] OR

"Sports"[Mesh:NoExp] OR
sport*[tiab] OR
athletic*[tiab] OR

"Resistance Training"[Mesh:NoExp] OR
resistance training*[tiab] OR
strength training*[tiab] OR

"Walking"[Mesh:NoExp] OR
walking[tiab] OR

"Running"[Mesh:NoExp] OR
running*[tiab] OR

"Jogging"[Mesh:NoExp] OR
jogging[tiab] OR

"Swimming"[Mesh:NoExp] OR
swimming[tiab] OR

"Gymnastics"[Mesh:NoExp] OR
gymnastic*[tiab] OR
calisthenic*[tiab] OR

"Bicycling"[Mesh:NoExp] OR
"bicycle training"[tiab] OR

"Physical Endurance"[Mesh:NoExp] OR
"endurance training"[tiab] OR
Physical Enduranc*[tiab] OR

"Physical Fitness"[Mesh:NoExp] OR
physical activit*[tiab] OR
physical exercise*[tiab] OR

"exercise based"[tiab] OR

"Tai Ji"[Mesh:NoExp] OR
"Tai Chi"[tiab] OR
"Tai Ji Quan"[tiab] OR
Taiji[tiab] OR
Taijiquan[tiab] OR
"T'ai Chi"[tiab] OR

"Exercise Movement Techniques"[Mesh:NoExp] OR
Exercise Movement*[tiab] OR
Pilates[tiab] OR

"Exercise Therapy"[Mesh:NoExp] OR
exercise therap*[tiab] OR
exercise training*[tiab] OR
"dynamic training"[tiab] OR
dynamic exercise*[tiab] OR
"strength training"[tiab] OR

"Secondary Prevention"[Mesh:NoExp] OR
Secondary Prevention*[tiab] OR
Relapse Prevention*[tiab] OR

"Rehabilitation"[Mesh:NoExp] OR
rehabilitation*[tiab] OR

"Diabetes Mellitus/prevention and control"[Mesh:NoExp] OR

"Hypercholesterolemia/prevention and control"[Mesh:NoExp] OR

"Physical Therapy Modalities"[Mesh:NoExp] OR
physical therap*[tiab] OR
physiotherap*[tiab] OR

"Occupational Therapy"[Mesh:NoExp] OR
Occupational Therap*[tiab] OR

trauma intervention*[tiab] OR
trauma therap*[tiab] OR

"Yoga"[Mesh:NoExp] OR
yoga[tiab] OR

"Breathing Exercises"[Mesh:NoExp] OR
"Respiratory Muscle Training"[tiab] OR
breathing exercise*[tiab] OR

"Dance Therapy"[Mesh:NoExp] OR
dance*[tiab] OR

"Tobacco Use Cessation"[Mesh:NoExp] OR
"Smoking Cessation"[Mesh:NoExp] OR
tobacco*[tiab] OR
smok*[tiab] OR

"Diet Therapy"[Mesh:NoExp] OR

diet therap*[tiab] OR eating habit*[tiab] OR
"Diet, Mediterranean"[Mesh:NoExp] OR mediterranean*[tiab] OR
"Diet, Fat-Restricted"[Mesh:NoExp] OR "Fat Restricted"[tiab] OR "Low Fat"[tiab] OR "Fat Free"[tiab] OR
"Diet, Protein-Restricted"[Mesh:NoExp] OR "Protein Restricted"[tiab] OR "Low Protein"[tiab] OR "Protein Free"[tiab] OR
"Diet, Vegetarian"[Mesh:NoExp] OR Vegetarian*[tiab] OR Vegan*[tiab] OR
"Fatty Acids, Omega-3"[Mesh:NoExp] OR "Omega 3"[tiab] OR PUFA[tiab] OR "Fatty Acids"[tiab] OR
"Weight Reduction Programs"[Mesh:NoExp] OR "weight loss"[tiab] OR "body weight"[tiab] OR
"health education"[Mesh:NoExp] OR health education*[tiab] OR health coaching*[tiab] OR
"Patient Education as Topic"[Mesh:NoExp] OR patient education*[tiab] OR education of patient*[tiab]

e-table 1: Search strategy.

Study	Reason for Exclusion
Data on depression	
Andersson et al. 2010	values reported at baseline only
Blumenthal et al. 2016	Follow up for the assessment of depression to short (3 months)
Black et al. 1998	results given as change scores from baseline to f/u only
Rugulies et al. 1996	mean values (final and change scores) given only, but no standard deviations
Peersen et al. 2017	no data were provided; Only mentioned that no differences were found
Data on anxiety	
Blumenthal et al. 2016	Follow up for the assessment of anxiety to short (3 months)
Vahedian-Azimi et al. 2016	high risk of bias: Extreme changes in anxiety: the subscale "state anxiety" remains constant for the intervention, while in the control group an extreme impairment is observed after baseline
Data on QoL	
Andersson et al. 2010	only baseline values reported
Peersen et al. 2017	extreme wide range of the follow-up assessment (2 to 26 months)

e-Table 2: Reasons for study data excluded from the meta-analyses, separately for outcome.

Study	Endpoint			Measurement		Follow-up	Subgroup
	Hospitalisation	Cardio-vascular events	Reported separately	Patients with at least one event	No of total events		
Blumenthal et al. 2016	x	x	x	x		5 years	DM
Plüss et al. 2011	o	x	x	x	o	5 years	DM
Andersson et al. 2010	x				x	5 years	DM
Neves et al. 2009	x			x		2 years	DM
van Dixhoorn et al. 1999	x	x		x	x	5 years	DM
Sebregts et al. 2005		x		x		9 months	psyLCDM
Black et al. 1998	x			x	x	1 year	psyLCDM
Vahedian-Azimi et al. 2016		x		x		2 years	psyLCDM

Abbreviations: DM = distress management; psyLCDM: psychologically supported lifestyle change and distress management

e-Table 3: Summary of measurements on morbidity.

Note: Plüss et al. 2011 measured "hospitalization" as the number of total events (labeled "o") and CV-events as patients with at least one event (labeled "x"). Andersson et al. 2010 measured "hospitalization" as "emergency visits".

e-Tab 4: Risk of bias summary.

Study	Random sequence generation (selection bias)	Allocation concealment (selection bias)	Blinding of participants and personnel (performance bias)	Blinding of outcome assessment (detection bias)	Incomplete outcome data (attrition bias)	Selective reporting (reporting bias)	Other bias	Groups balanced at baseline	Intention-to-treat analysis conducted	Groups received same treatment (apart from the intervention)
Andersson 2010	?	+	−	−	?	?	?	+	?	−
Barth 2006	+	+	−	−	−	+	−	+	−	?
Beckie 2011	+	+	−	+	+	?	?	+	−	?
Black 1998	−	−	−	?	?	?	−	+	+	?
Blumenthal 2016	?	?	−	+	+	?	?	+	+	?
Brügemann 2007	+	?	−	?	−	?	−	+	−	?
Chair 2013	+	+	−	+	−	?	?	−	−	?
Focht 2004	?	?	−	?	−	?	?	−	−	?
Karlsson 2007	+	+	−	?	+	?	?	+	?	?
Meng et al. 2016	+	+	−	?	+	?	?	+	?	?
Neves 2009	?	?	−	?	+	?	−	+	?	?
O'Rourke 1999	−	−	−	−	−	−	−	−	−	−
Peersen et al. 2017	−	−	−	−	−	−	−	−	−	−
Pfaeffli Dale et al. 2015	+	+	−	?	+	+	?	+	+	+
Plüss 2011	+	+	−	+	+	?	?	+	?	?
Raghuram 2014	+	?	−	−	−	?	−	+	?	?
Rugulies 1996	−	−	−	−	−	−	−	−	−	−
Scholz 2006	−	−	−	?	?	?	−	+	?	?
Sebgrets 2005	+	+	−	−	−	?	?	−	+	?
Vahedian-Azimi et al. 2016	+	+	−	+	?	?	−	+	+	+
van Dixhoorn 1999	?	?	−	?	+	?	?	+	?	?