## Blijage 17. Evidencetabel UV 3

Uitgangsvraag: Hoe bereik je een overkoepelende en afgestemde behandeling voor patiënten met multimorbiditeit die bij meerdere specialisten in het ziekenhuis komen?

Referentie	Type studie	Kenmerken (studie/ patiënten)	Interventie (I)	Controle (C)	Uitkomst maten en follow-up duur	Elementen organisatorische interventie	Resultaten
Alkema, 2007 (NICE guideline)	RCT N=781	Inclusion criteria: Adults (aged 65 years or over) Community Exclusion criteria: Nursing home residents and those enrolled in similar studies were excluded. Sex: 35 % M / 65% F Age: Intervention group 82.98 (SD 7.12) Control group 83.66 (SD 7.36) Multimorbidity: number of participants with multimorbidity not reported USA	N= 377 The Care Advocate Program (CA program) bridged medical and social care delivery systems using telephone-based care management to coordinate health and long- term care services for chronically ill older adults. Participants received a call within 1 week of assessment and monthly follow-up calls during the 12 month intervention period to monitor progress.	N=404 Received usual care from the health plan, which included medical group case management services designed to triage and address members' health- related issues, and facilitate access to insured health plan services (for example, insured durable medical equipment).	Primary: Mortality Secondary: Health care utilization Follow-up: 24 months	Patient-oriented approach (holistic assessment); Case- or care management (care coordination)	Mortality at 24 months: RR 0.61 (0.44 to 0.83)
Beck, 1997 (NICE guideline)	RCT N=321	Inclusion criteria: Adults (aged 65 years or over) Community Exclusion criteria: None specified Sex: 31 % M / 69% F Age: Intervention group 72 (no SD reported) Control group 75 (no SD reported) Multimorbidity: number of	N= 160 Participants were invited to monthly group visits at the Cooperative Healthcare Clinic. Group visits involved a 30 minute talk by a member of the MDT on a relevant topic, breaks in which nurses took blood pressures and doctors circulated addressing individual concerns of participants and 30 minutes set aside at the end of the talk for	N=161 Standard care. Nil. Duration 12 months.	Mortality (12 months); Unscheduled care – urgent care visits per participant (12 months); Admission to care facility – proportion of participants hospitalised (12 months) (no primary and secondary outcome measures defined) Follow-up: 12 months	Improving interdisciplinary approach (multidisciplinary care)	Mortality at 12 months: RR 0.56 (0.19-1.63) Unscheduled care (urgent care visits per patient) at 12 months: The mean visits per patient in the intervention group was 0.06 lower (0.23 lower to 0.11 higher) Unscheduled care (emergency care visits per patient) at 12 months: The mean visits per patient in the intervention group

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		participants with multimorbidity not reported USA	participants to get one-to- one visits with the physician. Duration 12 months.				was 0.26 lower (0.54 lower to 0.02 higher) Unscheduled care (proportion of patients hospitalised) at 12 months: The mean visits per patient in the intervention group was 0.07 lower (0.14 lower to no difference)
Berglund, 2015 (NICE guideline)	RCT N= 161	Inclusion criteria:         Adults (aged 65 years or over)         Inpatients (prior to discharge)         Exclusion criteria:         Nursing home residents and those enrolled in similar studies were excluded.         Sex: 45 % M / 55% F         Age:         Mean ages not reported (24% aged 65-79 , 65% aged ≥ 80 for both intervention and control group)         Multimorbidity: number of participants with multimorbidity not reported         Sweden	N= 85 Nurse with geriatric expertise made assessment of health/social care need at ED, assessment transferred to ward if participant transferred to ward, also sent to municipal MDT (nurse, social worker, physiotherapist, OT), case manager coordinated planning for discharge, case manager contacted relatives to offer support and advice, care- planning meeting after discharge organized in participant's own home with MDT, within 1 week after care- planning meeting older person contacted by case manager and plan for follow-up made, after 6 months a new care-planning meeting could be held if needed.	N=76 Usual care - some discharge planning in hospital, no meeting or proactive contact after discharge. Duration 12 months.	Primary: Mortality (12 months) Secondary: Follow-up: 12 months	Improving interdisciplinary approach (multidisciplinary care); Patient-oriented approach (holistic assessment, individualized care plan); Case- or care management (care coordination)	Mortality (died during total study) at 12 months: RR 1.42 (0.65 to 3.10)
Bouman, 2008	RCT	Inclusion criteria: Adults (aged 70-84 years)	N= 160	N=170	Mortality (24 months); Length of hospital stay –	Patient-oriented approach (holistic assessment,	Mortality (died during total study) at 18 months:
(NICE guideline)	N=330	Community Exclusion criteria: Participants who self-rated health status as "moderate or good", receiving home nursing care, on waiting list	Program of eight home visits, with telephone follow-up over 18 month period, visited by trained home nurses, visits included multidimensional geriatric assessment	Usual care, participants could apply for all available care but no structured follow-up. Duration 18 months.	bed days per patient (24 months); Unscheduled care – hospital admissions (24 months); Admission to care facility – nursing home admissions (24 months)	individualized care plan)	Length of hospital stay (days per patient) at 18 months:

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		for care home admission Sex: 35 % M / 65% F Age: Mean 76 years (SD 3.7) Multimorbidity: number of participants with multimorbidity not reported Netherlands	with advice and referral to professional and community services. Differentiated from other CGA studies as each patient had formulaic pattern of follow-up as opposed to individualized treatment plan on back of CGA. Duration 18 months.		Follow-up: 24 months		The mean days per patient in the intervention group was 0.40 lower (4.3 lower to 3.5 higher) <u>Unscheduled care (hospital</u> admissions) at 18 months RR 0.97 (0.42 to 2.21)
Courtney, 2009 (NICE guideline)	RCT N=128	Inclusion criteria:         Adults (aged 65 years or over)         Inpatient         Exclusion criteria:         Factors that would         undermine patients' ability         to participate in the         intervention: patients         requiring home oxygen,         patients unable to walk         independently for 3 metres         (with/without walking         aids), patients with         neurological         or cognitive deficit or         disease.         Sex: 40 % M / 60% F         Age:         Mean 78.8 years (SD 6.9)         Multimorbidity: number of         participants with         multimorbidity not         reported	N= 64 Within 72 hours of admission a registered nurse and physiotherapist undertook a comprehensive patient assessment and developed a goal-directed, individualised care plan in consultation with the patient, health professionals, family and caregivers. Plan included: an individually tailored exercise program; nurse home visits; and telephone follow-up.	N=64 Standard care, discharge planning and rehabilitation advice normally provided.	Health-related quality of life – SF-12 (physical component) (6 months); Health-related quality of life – SF-12 (mental component) (6 months); Unscheduled care – emergency hospital readmissions (6 months); Unscheduled care – emergency GP visits (6 months). Follow-up: 6 months	Patient-oriented approach (holistic assessment, individualized care plan)	Unscheduled care (emergency hospital readmission) at 6 months; OR 0.14 (0.04 to 0.45) Unscheduled care (emergency GP visits) at 6 months RR 0.38 (0.24 to 0.61)
Eklund, 2013 (NICE guideline)	RCT N=781	Inclusion criteria: Adults (aged 80 or older or 65-79 with at least one chronic disease and dependent in at least one ADL)	N=89 Collaboration between a nurse with geriatric	N=76 Usual care including care planning following a routine assessment by	Functional outcomes – improvement in ADL (12 months); Functional outcomes – worsening in ADL (12 months).	Improving interdisciplinary approach (multidisciplinary care); Patient-oriented approach (holistic assessment, individualized care plan); Case- or care	Mortality RR 1.49 (0.91 to 2.45)

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		Community (identified when presenting at ED) Exclusion criteria: Acute severe illness, dementia, palliative care Sex: 45 % M / 55% F Age: Mean and range not reported Multimorbidity: number of participants with multimorbidity not reported Sweden	competence at the emergency department, the hospital wards and a multi-professional team in the community. Participants underwent geriatric assessment by nurse with geriatric competence, during admission followed by care co- ordination, care planning and home follow-up. Focus of intervention was on creating a continuum of care.	community team following discharge, rehabilitation if needed following assessment.	Follow-up: 12 months	management (care coordination)	Functional outcomes (any improvement in ADL) RR 1.64 (1.01 to 2.66) Functional outcomes (any worsening in ADL) RR 0.79 (0.55 to 1.14)
Ell, 2010 (NICE guideline)	RCT N=387	Inclusion criteria: Adults (aged 18 years or over) Community Exclusion criteria: Acute suicidal ideation, score of $\geq 8$ on the Alcohol Use Disorders Test alcohol assessment, recent lithium/antipsychotic medication use, inability to speak English or Spanish. Sex: 20 % M / 80% F Age: Intervention group 145 (75.1%) of participants aged $\geq$ 50 Control group 134 (69.1%) of participants aged $\geq$ 50 Multimorbidity: comorbid depression and diabetes USA	N= 193 Problem solving therapy and/or antidepressant medication based on a stepped-care algorithm; first-line treatment choice; telephone treatment response; adherence; and relapse prevention follow-up.	N=194 Standard clinic care plus patient receipt of depression educational pamphlets and a community resource list.	Health-related quality of life – SF12 mental component (12 and 18 months); Health-related quality of life – SF12 physical component (12 and 18 months). Follow-up: 18 months	Case- or care management (care coordination)	Health-related quality of life (SF12 mental) at 18 months (high scores = better outcome):         The mean health related quality of life (sf12 mental) at 18 months in the intervention groups was 1.61 higher (0.77 lower to 3.99 higher)         Health-related quality of life (SF12 physical) at 18 months (high scores = better outcome)         The mean health related quality of life (sf12 physical) at 18 months in the intervention groups was 1.28 lower (3.53 lower to 0.97 higher)         Functional Outcomes (scale of functional impairment) at 18 months

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Hogg, 2009	RCT	Inclusion criteria: Adults (aged 50 years or	N= 120	N=121	Health-related quality of life - SF36 mental component	Improving interdisciplinary approach (multidisciplinary	impairment. Scale from: 1 to 10. Low scores = better outcome The mean functional outcome (scale of functional impairment) at 18 months in the intervention groups was 0.1 higher (0.5 lower to 0.7 higher) Health-related quality of life (SF36 physical) at 15
(NICE guideline, Cochrane review)	N=241	over) Community Exclusion criteria: Substantial cognitive impairment, language or cultural barriers, life expectancy less than 6 months, and plans to move or to be away for more than 6 weeks during the study period. Sex: Intervention group 48 % M / 52% F Control group 37 % M / 63% F Age: Intervention group 69.6 (no SD reported) Control group 72.8 (no SD reported) Multimorbidity: number of participants with multimorbidity not reported; mean number of chronic conditions: intervention 2.7, control 2.3. Canada	Anticipatory and Preventative Team Care (APTCare) Intervention: home-based multidisciplinary team management with an initial assessment by a nurse practitioner and a medication review by a pharmacist and individualized patient care plan.	Patients received usual care from their family physicians.	<ul> <li>(15 months);</li> <li>Health-related quality of life</li> <li>SF36 physical component</li> <li>(15 months);</li> <li>Health-related quality of life</li> <li>total number of</li> <li>unhealthy days in last 30</li> <li>days (15 months);</li> <li>Mortality (15 months);</li> <li>Unscheduled care -</li> <li>average number of ED</li> <li>visits (15 months);</li> <li>Unscheduled care -</li> <li>average number of</li> <li>hospital admissions (15 months);</li> <li>Caregiver burden</li> <li>(15 months).</li> <li>Follow-up: 15 months</li> </ul>	care); Patient-oriented approach (medication review); Case- or care management (care coordination).	$\begin{array}{l} \hline \text{months} (\text{Scale from: 0} \\ \text{to 100. High scores =} \\ \hline \text{better} \\ \hline \text{outcome.} \\ \text{sf36 physical) at 15 months} \\ \text{in the} \\ \hline \text{intervention groups was 1.6} \\ \hline \text{higher} (0.85 lower to 4.05 \\ \hline \text{higher}) \\ \hline \text{Health-related quality of life} \\ \hline (\text{SF36} \\ \hline \text{mental) at 15 months Scale} \\ \hline \text{from: 0} \\ \hline \text{to 100. High scores =} \\ \hline \text{better} \\ \hline \text{outcome.} \\ \hline \text{The mean health related} \\ \hline \text{quality of life} \\ \hline (\text{sf36 mental) at 15 months} \\ \hline \text{in the vention groups was 1.1} \\ \hline \text{lower} (3.75 lower to 1.55 \\ \hline \text{higher}) \\ \hline \hline \text{Health-related quality of life} \\ \hline (\text{total} \\ \text{no days unhealthy in last 30} \\ \hline \text{days}) \\ \hline \text{at 15 months} \\ \hline \text{The mean change in the} \\ \hline \text{number of} \\ \hline \text{unhealthy days in the} \\ \hline \text{intervention} \\ \hline \text{group was 1.4 lower (4.54 lower to 1.74 higher)} \\ \hline \end{array}$

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							Mortality at 15 months OR 7.58 (0.78 to 73.54) Unscheduled care (average no of ED visits) at 15 months The mean change in unscheduled care (average no of ED visits) at 15 months in the intervention groups was 0.1 lower (0.37 lower to 0.17 higher) Unscheduled care (average no of hospital admissions) at 15 months The mean change in unscheduled care (average no of hospital admissions) at 15 months in the intervention groups was 0.06 lower (0.31 lower to 0.19 higher) Patient/carer treatment burden (caregiver burden) at 15 months Scale (unspecified) from: 0 to 88, high scores = poor outcome. The mean change in caregiver burden at 15 months in the intervention groups was 5 higher (1.41 to 8.6 higher)
Metzelthin, 2013	RCT	Inclusion criteria:	N= 193	N=153	Functional outcome –	Patient-oriented approach	<u>Functional outcome</u> (GARS – ADL subscale,
(NICE guideline)	N=346	Adults (aged 70 years or over) Community Exclusion criteria:	People received an in home multidimensional assessment by a practice nurse, GP and practice nurse	Usual care, no further details provided	(GARS ADL subscale, 24 months); Functional outcome (GARS IADL subscale, 24 months).	(holistic assessment, individualized care plan); Case- or care management (care coordination)	(GARS – ADL subscale, 11-44, higher is worse outcome) The mean functional outcome (GARS - ADL subscale, 11-44, higher is

Referentie	Type studie	Kenmerken (studie/ patiënten)	Interventie (I)	Controle (C)	Uitkomst maten en follow-up duur	Elementen organisatorische interventie	Resultaten
		Terminally ill, severe cognitive or psychological impairment, unable to communicate in Dutch Sex: 42 % M / 58% F Age: Intervention group 77.49 (SD 5.8) Control group 76.8 (SD 4.92) Multimorbidity: number of participants with multimorbidity not reported Netherlands	discussed the assessment and the need for other assessments, preliminary treatment plan formulated by GP and practice nurse with or without an MDT meeting, second home visit by practice nurse to formulate final treatment plan with person, practice nurse also acts as case manager to regularly review achievement of goals and need for additional support		Follow-up: 24 months		worse outcome) in the intervention groups was 0.77 higher (0.05 lower to 1.59 higher) <u>Functional outcome</u> (GARS - IADL subscale, 7-28, higher is worse outcome) Scale from: 7 to 28. The mean functional outcome (GARS - IADL subscale, 7-28, higher is worse outcome) in the intervention groups was 0.40 higher (0.54 lower to 1.34 higher)
Naylor, 2004	RCT	Inclusion criteria:	N= 118	N=121	Quality of life -	Case- or care management	Health-related quality of life
(NICE guideline)	N=239	Adults (aged 65 years or over) Patients identified as inpatients, hospitalized with heart failure, intervention planned discharge to community Exclusion criteria: Elders with end-stage renal disease were excluded because of their access to unique Medicare services. Sex: Intervention group 40 % M / 60% F Control group 44 % M / 56% F	Collaboration with patients' physicians, 3 advanced practice nurses implemented an intervention extending from index hospital admission through 3 months after the index hospital discharge.	Patients received care routine for the admitting hospital, including site-specific heart failure patient management and discharge planning critical paths and, if referred, standard home agency care consisting of comprehensive skilled home health services.	Minnesota Living with Heart Failure Questionnaire (total score) (12 months); Mortality (12 months); Functional outcome - Functional Status Score (12 months). Patient and carer satisfaction - patient satisfaction (6 weeks). Follow-up: 12 months	(care coordination)	(Minnesota Living with Heart Failure Questionnaire) at 12 months Scale from: 0 to 105. High scores = poor outcome. The mean quality of life (Minnesota living with heart failure questionnaire) at 12 months in the intervention groups was 0.2 higher (0.36 lower to 0.76 higher) Mortality at 12 months RR 0.87 (0.41 to 1.86)
		Age: Intervention group 76.4 (SD 6.9) Control group 75.6 (SD 6.5) Multimorbidity: number of participants with multimorbidity not					<u>Functional Outcomes</u> (functional status score) at 12 months: The Enforced Social Dependency Scale. Scale from: 12 to 72. High scores = poor outcome. The mean functional status (functional status score) at

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Sandberg, 2015 (NICE guideline)	RCT N=153	reported; mean number of conditions: intervention 6.4 (SD 2.5), control: 6.4 (SD 2.0). USA USA USA USA Inclusion criteria: Adults (aged 65 years or over) Community Exclusion criteria: Not able to communicate verbally, cognitive impairment, special accommodation Sex: Intervention 35 % M / 65% F Control 31.5 % M / 68.5% F Age: Intervention group 81.6 (SD 6.8) Multimorbidity: all patients had at least 2 "health complaints" Sweden	N= 80 Case management. Patients received traditional case management with assessment, coordination, home visits and telephone calls. Patients also received general information about the healthcare system and specific information about the healthcare system and specific information about the healthcare system and specific information about their needs. Case managers either had nursing or physiotherapy backgrounds. Monthly visits (over 12 months) took place in the patient's own homes. Each visit lasted ~1 hour and the contents of the visits depended on the individual's care plan. The first visit involved a CGA to inform a care plan to be used for subsequent visits. Duration 12 months.	N=73 Usual care. Duration 12 months.	Mortality (12 months); Length of hospital stay – total length of inpatient stays (12 months); Unscheduled care – hospital admissions per patient (12 months). Follow-up: 12 months	Patient-oriented approach (holistic assessment, individualized care plan); Case- or care management (care coordination)	12 months in the intervention groups was 0.2 higher (0.3 lower to 0.7 higher) Patient & Carer Satisfaction (patient satisfaction) at 6 weeks The Patient Satisfaction Score. Scale from: 44 to 100. High scores = better outcome. The mean patient & carer satisfaction (patient satisfaction) at 6wk in the intervention groups was 5.3 higher (2.28 to 8.32 higher) Mortality (died during total study) at 12 months RR 3.04 (0.87 to 10.62) Length of hospital stay (days per patient) at 12 months The mean days per patient in the intervention group was 0.55 higher (3.77 lower to 4.87 higher) Unscheduled care (hospital admissions per patient) at 12 months The mean admissions per patient in the intervention group was 0.01 lower (0.25 lower to 0.27 higher)
Slaets, 1997	RCT	Inclusion criteria:	N= 140	N=97	Mortality (unclear time	Improving interdisciplinary	Mortality at unclear time
					point);	approach (multidisciplinary	point

Referentie	Type studie	Kenmerken (studie/ patiënten)	Interventie (I)	Controle (C)	Uitkomst maten en follow-up duur	Elementen organisatorische interventie	Resultaten
(NICE guideline)	N=237	Adults (aged 75 years or over) Inpatient Exclusion criteria: Patients admitted for day treatment were excluded. Sex: 30 % M / 70% F Age: Mean 82.8 years (SD 5) Multimorbidity: number of participants with multimorbidity not reported Netherlands	Psychogeriatric intervention, consisting of multidisciplinary joint treatment by a psychogeriatric team (a geriatrician, a specialised geriatric liaison nurse, and a physiotherapist). Weekly multidisciplinary meeting were held, attended by the geriatric team, the nurses, social worker, dietician, and psychiatrist. The geriatrician was present at the weekly ward rounds with the attending physician and the 2 resident physicians. In addition, the geriatric team had their own ward rounds every week.	Usual care consisted of services provided by physicians and nurses in another general medical unit in the same hospital.	Functional outcomes - ADL (unclear time point); Functional outcome - mobility (unclear time point); Length of hospital stay (unclear time point); Admission to care facility (unclear time point); Follow-up: Unclear	care); Patient-oriented approach (holistic assessment, individualized care plan); Case- or care management (care coordination)	RR 2.49 (0.96 to 6.49) <u>Unscheduled care (hospital</u> <u>readmission)</u> RR 0.58 (0.36 to 0.93)
Sommers, 2000 (NICE guideline, Cochrane review)	RCT N= 734	Inclusion criteria: Adults (aged 65 years or over) living in the community, with difficulties living independently Community Exclusion criteria: Not terminally ill, not residing in a nursing home, not under therapy for metastatic disease, Alzheimer disease, or related dementias. Sex: 33 % M / 67% F Age: Intervention group 77 (SD 6.6) Control group 78 (SD 6.8) Multimorbidity: 2 or more chronic conditions	N= 383 Senior Care Connections (SCC) intervention required collaboration among a primary care physician, nurse with geriatrics training, and a clinical social-worker. Home visit assessment followed by team discussion and development of a risk reduction plan and treatment targets. Throughout the intervention, the team met with trainers to learn team building skills and strategies for coaching patients in chronic disease self- management. The SCC intervention focused on a set of defined activities for each intervention patient. The nurse or social	N=351 Received usual care from their primary care physician. Physicians did not re- review patients as they came in for office visits during enrolment period and no new patients were added.	Mortality (24 months); Unscheduled care – hospital admissions per year (24 months). Follow-up: 24 months	Improving interdisciplinary approach (multidisciplinary care)	Mortality at 24 months RR 0.87 (0.51 to 1.47) Unscheduled care (hospital admission) at 6 months OR 0.63 (0.41 to 0.96)

Referentie	Type studie	Kenmerken (studie/ patiënten)	Interventie (I)	Controle (C)	Uitkomst maten en follow-up duur	Elementen organisatorische interventie	Resultaten
Behm, 2014 (NICE guideline)	RCT N=459	USA Inclusion criteria: Adults (aged 80 years or over) Community Exclusion criteria: None stated Sex: Intervention 1 36% M / 64% F Intervention 2 34% M / 66% F Control 39% M / 61% F Age: Intervention 1 Mean 86 (range 80-94) Intervention 2 Mean 86 (range 80-94) Control group Mean 85 (range 80-94) Control group Mean 85 (range 80-94) Multimorbidity: number of participants with	visited the patient in the home. A risk reduction plan was discussed with the patient and his/her family to set target objectives and plan treatment by means of chronic disease self- management strategies. Nurse/social worker monitored the patient's health status between office visits through telephone calls, home visits or office/hospital visits at least once every 6 weeks. PCP/nurse/social worker met at least monthly to review patient's status and revise care plans. N= Intervention 1: 174 Intervention 1: Single home visit. Single home visit made by either a nurse, physiotherapist, social worker or occupational therapist. Participant given verbal and written information on what the urban district provides in terms of meeting places, activities, physical training for seniors, help and support available from professional organisations and volunteers. Visitor also identified falls risks and advice given on how to prevent falls. Visit lasted between 1.5 and 2 hours.	N=114 Usual care. Access to ordinary range of services in municipality (for example, meals on wheels, help with ADLs).	Quality of life - deterioration in selfrated health by SF-36 (24 months); Quality of life - deterioration in satisfaction with physical health (24 months); Quality of life - deterioration in satisfaction with psychological health (24 months) Follow-up: 24 months	Improving interdisciplinary approach (multidisciplinary care); self-management support	Intervention 1: Quality of life - single visit vs control - deterioration in self-rated health by SF-36 OR 0.64 (0.38 to 1.07) Quality of life - single visit vs control - deterioration in satisfaction with physical health OR 0.43 (0.22 to 0.84) Quality of life - single visit vs control - deterioration in satisfaction with psychological health OR 0.30 (0.16 to 0.56) Intervention 2: Quality of life - group meetings vs control - deterioration in self-rated health by SF-36 OR 0.95 (0.57 to 1.57)

Referentie	Type studie	Kenmerken (studie/ patiënten)	Interventic (I)	Controle (C)	Uitkomst maten en follow-up duur	Elementen organisatorische interventie	Resultaten
		multimorbidity not reported Sweden	Intervention 2: Senior meetings. Four weekly meetings, no more than six participants in each group, each lasting ~2hrs, focus on information about aging process and consequences and provision of tools/strategies for solving problems that can arise in the home environment. Follow-up home visit two to three weeks after group meetings completed. Group meetings were multi- professional and multi- dimensional, led either by occupational therapist, nurse, physiotherapist or social worker.				Quality of life - group meetings vs control - deterioration in satisfaction with physical health OR 0.28 (0.14 to 0.59) Quality of life - group vs control - deterioration in satisfaction with psychological health OR 0.40 (0.22 to 0.72)
Boult, 2008 (NICE guideline, Cochrane review) *Boyd 2010 *Boult 2011 *Boult 2013	RCT N=904	Inclusion criteria: Adults (aged 65 years or over) Community Exclusion criteria: Patients who were interviewed in their home for eligibility were considered ineligible if they did not have a telephone, did not speak English, were planning extended travel during the following 2.5 years, or failed a brief cognitive screen and did not have a proxy Sex: Intervention 45.8 % M / 54.2% F Control 44.6 % M / 55.4% F Age:	N= 485 'Guided Care' programme comprising 8 clinical services including home- based assessment, individual management plan, coaching for self-management with monthly monitoring and coordination of care provision. Delivered by trained guided care nurses.	N=419 Usual care	Mortality (32 months); Health-related quality of life – SF-12 (physical component) (32 months); Health-related quality of life – SF-12 (mental component) (32 months); Patient satisfaction – Patient assessment of chronic illness care (PACIC) and 'very satisfied' with regular healthcare (32 months); Unscheduled care – emergency department visits (6-8 months); Continuity of care - management continuity (Primary care assessment survey integration and communication subscales) (32 months); Continuity of care -	Patient-oriented approach (holistic assessment, individualized care plan); Case- or care management (care coordination); self- management support	Health-related quality of life (SF-36 physical component). Scale from: 0 to 100. High scores = better outcome.         The mean health related quality of life (sf-36 physical) in the intervention group was 1.31 lower (3.02 lower to 0.4 higher)         Health-related quality of life (SF-36 mental component).         Scale from: 0 to 100. High scores = better outcome.         The mean health related quality of life (sf-36 mental) in the intervention group was 1.05 higher (1.06 lower to 3.16 higher)         Mortality RR 0.88 (0.59 to 1.31)

Referentie	T'ype studie	Kenmerken (studie/ patiënten)	Interventie (J)	Controle (C)	Uitkomst maten en follow-up duur	Elementen organisatorische interventie	Resultaten
		Intervention group 77.2 (range 66-106) Control group 78.1 (range 66-96) Multimorbidity: number of participants with multimorbidity not reported, mean number of self-reported conditions (conditions not specified): intervention: 4.3 (range 0- 13); control: 4.3 (range 0- 12). USA			provider continuity (Access to doctor's appointment 'same day' when sick) (32 months). Follow-up: 32 months		Patient and carer satisfaction (patient satisfaction, Patient and assessment of Chronic Illness (PACIC)) Scale not reported. The mean patient satisfaction (pacic) in the intervention groups was 0.27 higher (0.08 to 0.46 higher) Patient and carer satisfaction (patient satisfaction, 'very satisfied' with regular healthcare) Scale not reported. OR 1.50 (0.77 to 2.90) Unscheduled care (emergency department visits) OR 1.04 (0.81 to 1.34)
							Continuity of care (integration subscale) Scale not reported. The mean continuity of care (integration subscale) in the intervention groups was 2.79 higher (0.97 lower to 6.55 higher) Continuity of care (communication subscale) Scale not reported. The mean continuity of care (communication subscale) in the intervention groups was 2.97 higher (0.68 lower to 6.62 higher)

Referentic	Type studie	Kemmerken (studie/ pariërten)	Interventie (J)	Controle (C)	Uirkomst maten en follow-up duur	Elementen organisatorische interventie	Resultaten
Chow, 2014 (NICE guideline)	RCT N= 312	Inclusion criteria: Adults (aged 65 years or over (however patients of age 60 were included according to the results) Inpatient (admitted with a medical diagnosis related to chronic respiratory, cardiac, type 2 diabetes and renal diseases, prior to discharge) Exclusion criteria: MMSE <20, discharged to institutional care, unable to communicate, terminally ill Sex: Intervention 1 47.1 % M / 52.9% F Intervention 2 45.8 % M / 54.2% F Control 50.0 % M / 50.0% F Age: Intervention 1 group median 75.5 (range 60-92) Intervention 2 group median 77.0 (range 60-89) Multimorbidity: all patients had at least two co- morbid diseases Hong Kong	N= Intervention 1: 96 Intervention 2: 108 Intervention 2: 108 Intervention 1: Case management with home visits. A nurse case manager (NCM) carried out a pre- hospital discharge assessment using the Omaha system (involves problem classification, interventions and problem rating). Patients received weekly visits for 4 weeks after discharge. Patients received weekly visits for 4 weeks after discharge. Patients were encouraged to make decisions and take action to monitor their condition. Interventions were tailor made for patients. NCM made a home visit in the first week, in the second week the NCM called the patients to monitor and support them, in the fourth week the NCM made a final telephone call to remind them about adhering to positive behaviours. Duration 4 weeks.	Image: Second system         N=108         Placebo phone calls         made twice in the 4 weeks,         5 minute         calls only about social         topics (for         example, weather, television         programmes, leisure         activities). Duration         4 weeks.	Health-related quality of life - SF-36 mental component (12 weeks); Health-related quality of life - SF-36 physical component (12 weeks) Follow-up: 12 weeks	Patient-oriented approach (holistic assessment); Case- or care management (care coordination); self- management support	Continuity of care (same day access to GP when sick) Scale not reported OR 1.20 (0.65 to 2.22)         Intervention 1: Health-related quality of life (SF-36 mental component) SF36. Scale from: 0 to 100. High scores = better outcome. The mean final SF-36 mental score in the intervention group was 1.9 higher (0.2 lower to 4.0 higher)         Health-related quality of life (SF-36 physical component) SF36. Scale from: 0 to 100. High scores = better outcome. The mean final SF-36 physical score in the intervention group was 3.1 higher (1.0 lower to 5.2 higher)         Intervention 2: Health-related quality of life (SF-36 mental component) SF36. Scale from: 0 to 100. High scores = better outcome. The mean final SF-36 mental score in the intervention group was 1.2 higher (1.5 lower to 3.9 higher)
			Intervention 2: Case management with phone follow-up. A nurse case manager (NCM) carried out a pre-hospital discharge assessment using				$\frac{\text{component}}{\text{SF36. Scale}}$ $\frac{\text{component}}{\text{Form: 0 to 100. High scores}}$ $\frac{\text{E}}{\text{better outcome.}}$ The mean final SF-36 physical score in the intervention group was 3.3

Referentie	Type studie	Kenmerken (studie/ patiënten)	Interventie (I)	Controle (C)	Uitkomst maten en follow-up duur	Elementen organisatorische interventie	Resultaten
			the Omaha system (involves problem classification, interventions and problem rating). Patients received weekly visits for 4 weeks after discharge. Patients were encouraged to make decisions and take action to monitor their condition. Interventions were tailor made for patients. The NCM made a first telephone call based on the patient's needs identified at assessment, nursing students called the patient in the second and third week post-discharge. Patients were referred to the goals and interventions developed by the NCM during the assessment. In the fourth week the NCM made a final phone call. Duration 4 weeks.				higher (1.2 lower to 5.4 higher) Intervention 1 (intervention) compared to intervention 2 (control): <u>Health-related quality of life</u> ( <u>SF-36 mental component</u> ) <u>at 12 weeks. Scale from: 0</u> to 100. <u>High scores =</u> <u>better outcome</u> . The mean final SF-36 mental score in the intervention group was 0.7 higher (1.9 lower to 3.3 higher) <u>Health-related quality of life</u> ( <u>SF-36 physical</u> <u>component</u> ) at 12 weeks. <u>Scale from: 0 to 100. High</u> <u>scores =</u> <u>better outcome</u> . The mean final SF-36 physical score in the intervention group was 0.2 lower (2.4 lower to 2.0 higher)
Coburn, 2012 (NICE guideline)	RCT N=1736	Inclusion criteria: Adults (aged 65 years or over) Community Exclusion criteria: Dementia; end stage renal disease; schizophrenia; active cancer (except skin) in prior 5 years; life expectancy less than 6 months; current or imminent residence in long term care facility. Assessment of risk classified as low or very low according to a 'disease- specific risk assessment developed by HQP'.	N= 871 HQP programme. Individualised plan developed by nurse case manager, based on: the patient's self-identified primary concerns and unmet needs; findings from their initial and on-going assessments; and the patient's motivational stage of change. The interventions typically incorporated into care plan include: education, symptom monitoring, medication	N= 863 Usual care.	Mortality (mean followup 4.2 years) Follow-up: mean 4.2 years	Patient-oriented approach (holistic assessment, individualized care plan); Case- or care management (care coordination); self- management support	Mortality at 4.2 years HR 0.73 (0.55 to 0.97)

Referentie	Type studie	Kenmerken (studie/ patiënten)	Interventie (I)	Controle (C)	Uitkomst maten en follow-up duur	Elementen organisatorische interventie	Resultaten
Gitlin 2006 (NICE guideline, Cochrane review) *Gitlin 2009 *Gitlin 2006	RCT N=319	Sex: 39 % M / 61% F Age: Mean 74.8 years (SD 6.5) Multimorbidity: number of participants with multimorbidity not reported; mean number of chronic conditions 3.8 (SD 1.9). USA Inclusion criteria: Adults (aged 70 years or over) Community Exclusion criteria: Adults (aged 70 years or over) Community Exclusion criteria: Acute suicidal ideation, score of $\geq$ 8 on the Alcohol Use Disorders Test alcohol assessment, recent lithium /antipsychotic medication use, inability to speak English or Spanish. Sex: Intervention 17.5 % M / 82.5% F Control 18.9 % M / 81.1 % F Age: Intervention 79.5 years (SD 6.1) Control 78.5 (SD 5.7) Multimorbidity: number of participants with multimorbidity not	reconciliation, counselling for adherence, help identifying, arranging and monitoring community and social service referrals. Group interventions directly provided by nurse case managers included: structured lifestyle and behaviour change programs for weight loss, weight loss maintenance, exercise classes and a balance and mobility programme for fall prevention. N= 160 Multicomponent home intervention (the ABLE programme) delivered by occupational therapist (5 contacts, 4x face-to-face for 90 minutes and 1x 20 minute slephone contact) and physical therapist (90 minutes), aimed at reducing functional difficulties; over 6 months, follow-up and 3 telephone contacts and final home visit.	N=159 patients assigned to no- treatment control group did not receive any intervention contact.	Mortality (2, 3, 4 years from study); Functional outcomes – ADL (mean difference across 6 items) (6 months); Functional outcomes – IADL (mean difference across 6 items) (6 months); Functional outcomes – mobility (mean difference across 6 items) (6 months). Follow-up: 4 years	Patient-oriented approach (individualized care plan); self-management support	Survival - 2 years         HR 0.39 (0.18 to 0.86)         Survival - 3 years         HR 0.74 (0.45 to 1.23)         Survival - 4 years         HR 0.76 (0.49 to 1.2)         Function - ADL Scale         from: 1 to 5. High scores =         poor outcome.         The mean function (         activities of daily living) in         the intervention groups was         0.1 lower (0.21 lower to         0.02 higher)         Function - IADL Scale         from: 1 to 5. High scores =         poor outcome.         The mean function         (instrumental activities of daily living) in the         intervention groups was         0.12 lower

Referentie	T'ype studie	Kenmerken (studie/ patiënten)	Interventie (I)	Controle (C)	Uitkomst maten en follow-up duur	Elementen organisatorische interventie	Resultaten
Katon, 2010 (NICE guideline)	RCT N=214	reported; mean number of conditions: intervention 7.1, control 6.7. USA Inclusion criteria: Patients with poorly controlled diabetes, coronary heart disease, or both and coexisting depression Community Exclusion criteria: Terminal illness, residence in a long-term care facility, severe hearing loss, planned bariatric surgery within 3 months, pregnancy or breast feeding, on-going psychiatric care, bipolar disorder or schizophrenia, use of antipsychotic or mood-stabiliser medication, and observed mental confusion suggesting dementia. Sex: Intervention 52 % M / 48% F 44 % M / 56% F Age: Intervention Mean 57.4 years (SD 10.5) Control Mean 56.3 years (SD 12.1) Multimorbidity: patients with comorbid physical and mental health	N= 106 TEAMcare intervention integrating a treat-to-target programme with structured visits with nurses, individualised care plans and treatment targets, support for self-care combined with pharmacotherapy, provision of self-care materials for patients, weekly meetings to discuss case progression between nurses, primary care physicians, physiatrist and psychologist, electronic registry used to track risk factors and depression scores.	N=108 Received "enhanced usual care", that is, after randomisation were advised to consult with their primary care physician to receive care for depression and for diabetes, coronary heart disease, or both.	Health-related quality of life - Quality of life score, over the previous month (12 months); Health-related quality of life - Global Quality of Life rating (12 months); Mortality (12 months); Functional outcome – Sheehan Social Role Disability scale (12 months); Functional outcome – WHODAS-2 activities of daily living (12 months); Patient and carer satisfaction - satisfaction - satisfaction with care of diabetes, heart disease, or both (12 months); Unscheduled care - proportion hospitalised (had at least 1) (12 months). Follow-up: 12 months	Patient-oriented approach (individualized care plan, medication review); self- management support	(0.26 lower to 0.03 higher) Function (Mobility) Scale from: 1 to 5. High scores = poor outcome. The mean function - mobility in the intervention groups was 0.14 lower (0.29 lower to 0.01 higher) Health-related quality of life (Global quality of life rating) Scale from: 0 to 10. High scores = poor outcome. The mean health related quality of life rating) at 12 months in the intervention groups was 0.8 higher (3.11 lower to 4.71 higher) Mortality OR 0.52 (0.05 to 5.05) Functional outcomes (Sheehan social role disability scale) at 12 months Sheehan social role disability scale) at 12 months in the intervention groups was 0.7 lower (1.55 lower to 0.15 higher) Functional outcomes (WHODAS-2 activities of daily living) at 12 months
		problems (that is, diagnoses of diabetes, coronary heart disease, or					<u>WHODAS-2 activities of</u> <u>daily living.</u>

Referentie	Type studie	Kenmerken (studie/ patiënten)	Interventie (I)	Controle (C)	Uitkomst maten en follow-up duur	Elementen organisatorische interventie	Resultaten
Legrain, 2011 (NICE guideline)	RCT N=665	both and coexisting depression). USA USA Inclusion criteria: Adults (aged 70 years or over) Patients identified as inpatients but intervention spans discharge Exclusion criteria: Expected length of stay less than 5 days; poor chance of survival at 3 months (according to clinical judgement of the senior geriatrician in charge); receiving palliative care; previous participation in OMAGE study; inclusion in another therapeutic trial, not French speaking, impossible to follow up (for example, lived in foreign country), absence of any health insurance (required by French law on clinical trials).	N= 317 Intervention led by geriatricians, targeted 3 risk factors for preventable readmissions and consisted of 3 components (comprehensive chronic medication review, education on self- management of disease, and detailed transition-of-care communication with outpatient health professionals).	N=348 Standard care from the acute geriatric unit; care includes a rehabilitation component in addition to acute care.	Mortality (6 months); Unscheduled care - unplanned admission to acute medical care or surgical unit (6 months); Unscheduled care - readmission to acute geriatric unit (6 months); Follow-up: 6 months	Patient-oriented approach ( medication review); self- management support	Scale from: 0 to 4. High scores = better outcome. The mean functional outcome (whodas-2 activities of daily living) at 12 months in the intervention groups was 0 higher (3.07 lower to 3.07 higher) Patient & carer satisfaction (as assessed by the number of patients satisfied with care for diabetes, heart disease or both) RR 1.22 (1.04 to 1.43) Unscheduled care (proportion hospitalised at least once) RR 1.20 (0.73 to 1.95) Mortality RR 0.86 (0.62 to 1.19) Unscheduled care (emergency department visit) RR 0.95 (0.52 to 1.72) Unscheduled care (emergency hospital readmission) RR 0.85 (0.69 to 1.05)

Referentie	Type studie	Kenmerken (studie/ patiënten)	Interventie (I)	Controle (C)	Uitkomst maten en follow-up duur	Elementen organisatorische interventie	Resultaten
Barley, 2014 (Cochrane review)	RCT (pilot) N=81	Sex: Intervention 30.3 % M / 69.7% F Control 37.4 % M / 62.6% F Age: Intervention group 85.8 (SD 6.0) Control group 86.4 (SD 6.3) Multimorbidity: number of participants with multimorbidity not reported; mean number of chronic conditions, mean 3.29 (SD 1.64). France Inclusion criteria: Participants with coronary heart disease (with current chest pain) and depression (identified using two stage screening process to confirm diagnosis) Primary care Exclusion criteria: Temporary registrants, actively suicidal, suffering from psychotic depression, non-English speaking or currently hospitalised were excluded. Sex: Intervention group 66 % M / 34% F Control group 63 % M / 37% F Age: Intervention group 64.2 (SD 13.0) Control group 64.9 (SD 8.5)	N= 41 UPBEAT intervention: Nurse case manager who undertook biopsychosocial assessment and developed patient-held personalised care; 3 problems prioritised with behaviour change approach aiming to increase self-efficacy. Initial face-to- face meeting then weekly telephone calls during intervention period. Weekly team meetings for nurse case manager, GP and psychiatrist	N=40 Received usual care.	Primary: Depression (HADS-D and PHQ scores) Chest pain (Rose Angina questionnaire) Secondary: Illness Perceptions (BIPQ); HRQol (SF12); HADS-A; PSYCHLOPS; Well-being scores (WEMBWBS); Functional status (Specific Activity Schedule); Moriskey Adherence scale; Social Problems Questionnaire Cost effectiveness Follow-up: 6 month intervention with 6 month follow-up	Improving interdisciplinary approach (multidisciplinary care); Patient-oriented approach (holistic assessment, individualized care plan); Case- or care management (care coordination)	$\frac{\text{Depression (PHQ)}}{\text{Int 12.6 (SD 7.1) Con 12}}$ (SD 6. 9) Absol diff 0.6, Rel % diff 8% ns SES = 0.09 $\frac{\text{Depression (HADS)}}{\text{Int 9.5 (SD 4.6) Con 8.8}}$ (SD 4. 8) Absol diff 0.7, Rel % diff 8% ns SES = 0.15 $\frac{\text{Anxiety (HADS)}}{\text{Int 9.9 (SD 7.1) Con 9.5}}$ (SD 5. 4) Absol diff 0.4, Rel % diff 4% ns SES = 0.08 $\frac{\text{Health-related Quality of}}{\text{Life (Physical subscale)}}$ Int 32.4 (SD10.7) Con 33.3 (SD 9.2) Absol diff 0.7, Rel % diff 2%

Referentie	Type studie	Kenmerken (studie/ patiënten)	Interventie (J)	Controle (C)	Uitkomst maten en follow-up duur	Elementen organisatorische interventie	Resultaten
		Multimorbidity: Coronary heart disease (with current chest pain) and comorbid depression UK					ns SES = 0.07 Health-related Quality of Life (Mental subscale) Int 34.5 (SD11.6)Con 33.6 (SD 12.5) Absol diff 0.9, Rel % diff 3% ns SES = 0.08 Health-related Quality of Life (WEMWBS) Int 40.6 (SD 11.2) Con 39.6 (SD 12.3) Absol diff 1, Rel % diff 2.5% ns SES = 0.08 Illness perceptions (BIPO) Int 40 (SD 14.8) Con 43 (SD 31. 1) Absol diff 3, Rel % diff 7% ns SES = 0.22 Patient-reported needs (PSYCHLOPS) Int 13.6 (SD 5.1) Con 13.4 (SD 5.4) Absol diff 0.2, Rel % diff 1.5% ns SES = 0.04 Other outcomes not reported in Cochrane review.
Coventry, 2015 (Cochrane review)	Cluster RCT N=387	Inclusion criteria: Participants with depression and diabetes and/or ischaemic heart disease Primary care	N= 191 COINCIDE collaborative care model Stepped care protocols with:	N=196 Received usual care with referral to mental health services but no access to COINCIDE psychologists).	Primary: Depression (SCL- D13 scores) Secondary: Depression (PHQ9 scores) Anxiety (GAD scores) Social support (ENRICHID inventory)	Improving interdisciplinary approach (multidisciplinary care); Patient-oriented approach (individualized care plan; medication review); self-management support	SCL-D13 depression score Int 1.76 (SD 0.9) Con 2.02 (SD 0.9) Absol diff 2.6, Rel % diff 13% * SES = 0.28

Referentie	Type studie	Kenmerken (studie/ patiënten)	Interventie (I)	Controle (C)	Uitkomst maten en follow-up duur	Elementen organisatorische interventie	Resultaten
		Exclusion criteria: Nursing home residents and those enrolled in similar studies were excluded. Sex: Intervention group 59 % M / 41% F Control group 65 % M / 35% F Age: Intervention group 57.9 (SD 12.0) Control group 59.2 (SD 11.4) Multimorbidity: Participants with depression and diabetes and/or ischaemic heart disease, mean chronic conditions 6.2 UK	<ul> <li>Brief psychotherapy - up to 8 sessions</li> <li>Standardised treatment manual and workbook with problem statement and personalised goals</li> <li>At visit 2 and visit 8 had 10-minute joint consultation between participant, psychologist and practice nurse to link depression and chronic condition care with targets</li> <li>Drug review with GP if needed</li> <li>Training half-day workshop for clinicians with video and simulated patients</li> <li>One hour weekly supervision for - Practice nurses from psychologist and monthly case meetings</li> <li>Telephone support from trial psychiatrist</li> </ul>		HRQol (WHO-QOL BREF, diabetes QOL) Seattle angina questionnaire Sheehan disability index Heath education (HEiQ) Illness beliefs (multimorbidity illness perceptions scale) Treatment satisfaction (CSQ) Process of care (PACIC scores) Follow-up: Intervention duration 3 months, follow-up at 4 months (1 month post intervention completion) NB. 22% of intervention participants never engaged with programme, mean 4.4 sessions attended		$\begin{array}{l} \underline{PHQ9} \ \underline{depression \ score} \\ Int 11.3 \ (SD \ 6.5) \ Con \ 13.1 \\ (SD \ 6.5) \ Absol \ diff \ 1.8, \ Rel \ \% \\ diff \ 14\% \ * \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\$

Referentie	Type studie	Kenmerken (studie/ patiënten)	Interventie (I)	Controle (C)	Urikomst maten en follow-up duur	Elementen organisatorische interventie	Resultaten
							PACIC score Int 2.37 (SD 1.1) Con 1.98 (SD 1.0) Absol diff 0.39, Rel % diff 20% ns SES = 0.39
Krska, 2001 (Cochrane review)	RCT N=332	Inclusion criteria: Adults (aged 65 years or over) with at least 2 chronic conditions and taking at least 4 prescribed medications regularly Primary care Exclusion criteria: Dementia and being considered by the GP to be unable to cope with the study Sex: Intervention group 43.5 % M / 56.5% F Control group 34.4 % M / 64.6% F Age: Intervention group 74.8 (SD 6.2) Control group 75.2 (SD 6.6) Multimorbidity: At least 2 chronic conditions and taking at least 4 prescribed medications regularly UK	N= 168 Pharmaceutical care plan drawn up by a pharmacist based on medical records and participant interviews, and then implemented by the practice team	N=164 Received review of drug therapy by pharmacist but no pharmaceutical care plan implemented	Primary and secondary (no distinction specified): Pharmaceutical care issues (PCI scale) HRQoL (SF36 scores) Health service utilisation including GP and practice nurse contacts, OPD attendance, use of social services and hospital admissions Economic: direct monthly costs of prescribed medications per participant Follow-up: Study duration and follow- up 4 months	Patient-oriented approach (medication review); Case- or care management (care coordination)	% Pharmaceutical care         issues resolved         from baseline         Int 950/1206 Con         542/1380         Absol diff 0.4, Rel % diff         102%         *         Mean cost of medicines         Int: 38.83 Con: 42.61         Absol diff 3.78 Rel %diff         9%         GBP in 2000         ns         SES = 0.13

2013 (Cochrane review) * Martin	RCT N=66	Inclusion criteria: Patients with	N= 30	N=36	Primary:	Patient-oriented approach	PHQ9 depression score		
(Cochrane review) * Martin	N=66						Lat (7 (SD 4 () Con 12 ( (SD 5		
(Cochrane review) * Martin	1N-00		Comitimo	Received usual care	Depression (BDI and PHQ9 scores)	(individualized care plan); self-	Int 6.7 (SD 4.6) Con 12.6 (SD 5.		
review) * Martin		depression and headache (migraine	Cognitive behavioural therapy	and GPs asked not	Medication	management support	3) Absol diff 5.9, Rel % diff 47%		
* Martin		(66%); and tension-	programme for both	to refer to	consumption		SES = 1.18		
		type headache	depression and	psychology but	consumption		515 - 1.16		
		(33%))	headache	could use other	Secondary:		BDI -Depression score		
2015		(3370))	Twelve 50-minute	mental health	Anxiety (BDA		Int 13.1 (SD 8.6) Con 28.7 (SD 9.5)		
2015		Primary care	weekly sessions	services	scores)		Absol diff 15.6, Rel % diff 54%		
		I lillary care	incorporating pain-	501 1100 5	HRQoL (AQOL)		*		
		Exclusion criteria:	and lifestyle-		Indor (ndor)		SES = 1.73		
		Individuals with	management training		Follow-up:		010 110		
		substantial medical	Training for		Intervention 12		BAI Anxiety score		
		or psychiatric	community		weeks with		Int 10.5 (SD 10.8) Con 16.4 (SD		
		comorbidities,	psychologists		immediate follow-		9.3)		
		except major	Treatment manual		up. Additional		Absol diff 5.9, Rel % diff 36%		
		depressive disorder	(44 pages)		follow-up at 4		*		
		and anxiety disorders	Client handbook and		months for		SES = 0.1		
		(however duo to	relaxation CD		intervention				
		time constraints			group only so data		HRQol (AQOL)		
		limited completion			not used		Int 26.3 (SD4.76) Con 28.4 (SD		
		of diagnostic					4.97) Absol diff 2.1, Rel % diff 7 %		
		assessment).					*		
		Moreover,					SES = 0.4		
		interfering with							
		giving informed					Mean daily medication use		
		consent or					Int 2.4 (SD 3.2) Con 3.0 (SD 2.		
		benefiting from					8) Absol diff 0.6, Rel % diff 20%		
		treatment (e.g., poor					ns		
		English, intellectual					SES = 0.2		
		disability							
		C							
		Sex:							
		Intervention group							
		36.4 % M / 63.6% F							
		Control group							
		33.3 % M / 66.7% F							
		1.00							
		Age: Intervention group							
		40.83 (SD 14.32)							
		Control group							
		40.19 (SD 12.89)							
		10.17 (017 12.07)							
		Multimorbidity:							
		Participants with							
		depression and							
		headache							
		Australia							
Morgan,	Cluster RCT	Inclusion criteria:	N= 206	N= 194	Primary:	Patient-oriented approach	PHQ9 depression score	Smith 2016:	
2013		Adults (18 years and			Depression (PHQ9	(individualized care plan, medication	Int 7.1 (SD 0.8) Con 9.0 (SD 0.	Unclear risk of bias	
	N=400	over) with	TrueBlue	Received usual care	scores)	review); self-management support	9) Absol diff 1.9, Rel % diff 21%	(random sequence	
(Cochrane		depression and	collaborative care	and offered	/	// O	*	allocation; allocation	
review)		diabetes and/or	model	intervention after 6	Secondary:		SES = 2.24	concealment;	
ŕ		ischaemic heart		months	HRQoL: SF36			blinding)	
		disease	- Practice nurse case		scores		Exercise (30 minutes/day for 5	0/	
			manager				days/ week)		
									2

·									
		Primary care	- Reviews: 3 monthly		participant		Int 97/162 Con 22/75		
			45-minute reviews		behaviours:		Absol diff 0.31, Rel % diff 106%		
		Exclusion criteria:	with practice nurse		exercise (30		*		
		Patients in	covering lifestyle risk		min/day on 5				
		residential care or	factors, review of		days/week,		% Referred to mental health		
		under 18 years of	results and support		attending exercise		Int 58/162 Con 10/111		
		age were excluded.	for self-management		programme,		Absol diff 0.27, Rel % diff 300%		
		-8	and goal setting;		attending mental		*		
		Sex:	followed by 15-		health programme				
		Intervention group	minute review with		Provider		%Referred to exercise programme		
		54.8 % M / 48.2% F	GP who stepped up		behaviour: referrals		Int 58/162 Con 24/114		
		Control group	treatment if needed		to mental health		Absol diff 0.15, Rel % diff 71%		
		55.2 % M / 44.8% F	- Individual care		and to exercise		*		
		55.2 /0 IVI / 44.8/0 I	plans, copy held by		programme				
		1 ~~~			programme				
		Age:	participant		E 11				
		Intervention group	- Educational		Follow-up:				
		68.2 (SD 11.7)	resources and fact		Intervention				
		Control group	sheets		duration 6 months				
		67.6 (SD 11.2)	- Practice nurse		with immediate				
			training, 2-day		follow-up and				
		Multimorbidity:	workshop		additional follow-				
		Patients with			up at 12 months				
		depression and			for intervention				
		diabetes and/or			group only (12				
		ischaemic heart			month data not				
		disease			included)				
		Australia							
Wakefield	RCT	Inclusion criteria:	N= 377	N=404	Primary: HbA1c	Case- or care management (care	Adherence (Edward's scale)	Smith 2016:	
2012		Adults with diabetes			and blood pressure	coordination)	Int 3.4 (SD 0.5) Con 3.3 (SD 0.	Unclear risk of bias	
	N=302	and hypertension	Intervention 1: home	Received usual care			5) Absol diff 0.1, Rel % diff 3%	(random sequence	
(Cochrane			telehealth with nurse	in primary care	Secondary:		ns	generation;	
review)		Community	case manager using	clinic with access to	Medication		SES = 0.2	allocation	
			high intensity	PCP,	adherence			concealment;	
		Exclusion criteria:	treatment algorithms	endocrinologist,			Medication Taking Adherence	blinding; protection	
		None specified	_	diabetes education	Knowledge scores		Score	against	
			Intervention 2: home	and nurse manager	Ŭ		Int 100 (SD 1.4) Con 98.9 (SD	contamination)	
		Sex: 98 % M / 2 %	telehealth with nurse	(different to study	Participant		6.0) Absol diff 1.1, Rel % diff 1%	,	
		F	case manager using	nurse case	perception of the		ns		
			low intensity	manager)	intervention		SES = 0.28		
		Age:	treatment algorithms	0 /					
		68 (SD 10)	0 -		Follow-up:				
		Ň Ź	Comparison: usual		Intervention				
		Multimorbidity:	care in primary care		duration 6 months,				
		Patients with	clinic with access to		follow-up 6				
		diabetes and	PCP,		months post				
		hypertension	endocrinologist,		intervention				
		/r · · · · · · · · ·	diabetes education		completion				
		USA	and nurse manager		compression				
			(different to study						
			nurse case manager)						
Bogner,	RCT (pilot)	Inclusion criteria:	N= 32	N=32	Primary and	Patient-oriented approach	CES depression score		
2008		Adults (aged 50-80			secondary (no	(individualized care plan); Case- or	Int 9.9 (SD 10.7) Con 19.3 (SD		
	N=64	years) with	Participants were	Received usual	distinction	care management (care	15.2) Absol diff 9.4, Rel % diff 49%		
		years) with					10.2) 110001 cm1 9.1, 100 /0 cm1 49/0		
(Cochrane	11-04	depression and	assigned an	care	specified).	coordination): self-management	*		
(Cochrane	11-04	depression and hypertension	assigned an	care.	specified): Depression (CES-	coordination); self-management	* SES = 0.75		
(Cochrane review)	11-04	depression and hypertension	assigned an integrated care manager, who in 3x	care.	specified): Depression (CES- D)	coordination); self-management support	* SES = 0.75		

		Primary care	30 minute in-person				≥80% adherence to antidepressant	
		i minary care	sessions and 2x 15-		Blood pressure		<u>= 80% adherence to antidepressant</u> medication (MEMS caps)	
		Exclusion criteria:	minute telephone		Dioou pressure		Int 23/32 Con 10/32	
		Cognitive	monitoring contacts:		Adherence to		Absol diff 0.41, Rel % diff 132%	
							Absol diff 0.41, Kel % diff 152%	
		impairment, unable	- collaborated with		antidepressant and		*	
		to communicate in	physicians to help		antihypertensive			
		English, resident in	participating patients		medications		$\geq$ 80% adherence to antihypertensive	
		care facility and	recognize		(electronic-		medication (MEMS caps)	
		unable to use	depression in the		monitoring data		Int 25/32 Con 10/32	
		microelectronic	context of		from MEMS caps)		Absol diff 0.47, Rel % diff 152%	
		monitoring device	hypertension		1 /		*	
		0	- offered the					
		Sex:	patients guideline-		Follow-up:			
		Intervention group	based treatment		6 weeks			
		25.0 % M / 75.0% F	recommendation		0 weeks			
			- monitored the					
		Control group						
		21.9 % M / 78.1% F	patients' treatment					
			adherence and					
		Ι.	clinical status					
		Age:	- provided					
		Intervention group	appropriate follow-					
		59.7 (SD 7.3)	up					
		Control group	- provided education					
		57.5 (SD 6.3)	about depression					
		l ` ´	and hypertension					
		Multimorbidity:	through in-person					
		patients with	sessions and					
		depression and	telephone					
		hypertension	conversations					
		hypertension						
		LIC A	- offered					
		USA	encouragement and					
			relief from stigma					
			- helped to identify					
			target symptoms for					
			both conditions					
			- explained the					
			rationale for					
			antidepressant					
			and antihypertensive					
			medication usage					
			<ul> <li>assessed for</li> </ul>					
			side-effects and					
			assisted in their					
			management					
			- monitored and					
			responded to life-					
			threatening					
			symptoms					
Salisbury,	RCT	Inclusion criteria:	N = 797	N= 749	Primary: health-	Improving interdisciplinary approach	HRQoL	 
2018		General practices			related quality of	(multidisciplinary care); Patient-	Adjusted difference in means (95%	
	N= 1.546	with:	Each 3D review	Received usual care	life, measured using	oriented approach (holistic	CI); p-value	
(original)		- at least two	consists of two		the EQ-5D-5L	assessment, individualized care plan,	0.00 (-0.02  to  0.02); p=0.93	
(8)		physicians	appointments (with a		instrument	medication review); Case- or care	, , , , , , , , , , , , , , , , , , ,	
		- at least 4500	nurse and then a		mortunient	management (care coordination);	Illness burden	
			nurse and then a named responsible		Secondamy		Bayliss measure of how much illness	
		registered patients			Secondary:	self-management support		
	1	- EMIS electronic	physician, both		Illness burden:		affects the individual's life	
		medical system			<ul> <li>Bayliss measure of how much</li> </ul>		Adjusted difference in means (95% CI); p-value	

	Patients with:	existing members of	illness affects the	-0.64 (-1.54  to  0.27); p=0.17
	- At least three of	practice staff) and a	individual's life	
	the 17 major chronic	records-based	- Hospital Anxiety	Mean HADS anxiety score
	conditions from	medication review by	and Depression	Adjusted difference in means (95%
	those included in the	a pharmacist.	score	CI); p-value
	UK Quality and	a phainaeise.	score	-0.24 (-0.57 to 0.08); p=0.15
	Outcomes	The appointment	Treatment burden:	-0 24 (-0 57 to 0 00), p=0 15
				M HADE 1
	Framework (QOF)	letter asks the patient	- Multimorbidity	Mean HADS depression score
	pay-for-performance	to think about the	Treatment Burden	Adjusted difference in means (95%
	programme	health problems that	Score	CI); p-value
	- Age 18 years or	bother them most.	- Morisky	-0.01 (-0.33 to 0.30); p=0.94
	over	The nurse focuses	Medication	
		on identifying the	Adherence eight-	Treatment burden
	Primary care	health problems	item score	Mean Multimorbidity Treatment
	,	most important to	- Number of	Burden Score
	Exclusion criteria:	the patient; asking	different drugs	Adjusted difference in means (95%)
	- Life expectancy <	about pain, function,	unterent drugs	CI); p-value
			Definet control 1	
	12 months	and quality of life;	Patient-centered	-0.46 (-1.78 to 0.86); p=0.49
	- Serious suicidal risk	screening for	care	
	- Known to be	depression and	- Patient	Mean Morisky Medication
	leaving the practice	dementia; and then	Assessment of Care	Adherence eight-item score
	within 12 months	addressing the	for Chronic	Adjusted difference in means (95%
	- Unable to complete	disease-specific care	Conditions	CI); p-value
	questionnaires in	the patient requires.	(PACIC) measure	0.06 (-0.05  to  0.17); p=0.27
	English	1 1	- the Consultation	
	- Taking part in	Findings are printed	and Relational	Median number of different drugs
	another health-care	as a patient held	Empathy (CARE)	Adjusted Incidence Rate Ratio (95%
	research project	agenda to inform the	measure of	CI); p-value
			relational	
	- lacked the capacity	subsequent		1.02 (0.97 to 1.06); p=0.46
	to give consent	consultation with	empathy	
	- if GP deemed them	the doctor. The	- single questions	Patient-centered care
	unsuitable to be	pharmacist uses the	(adapted from the	Mean PACIC score
	invited for other	patient's electronic	NHS Long Term	Adjusted difference in means (95%
	reasons	medical records to	Conditions 6	CI); p-value
		review medication,	questionnaire and	0.29 (0.16 to 0.41); p<0.0001
	Sex:	and makes	the NHS General	
	Intervention group	recommendations	Practice Patient	Mean CARE doctor score
	49 % M / 51% F	about simplifying	Survey	Adjusted difference in means (95%
	Control group	and optimising	our of	CI); p-value
	50 % M / 50% F	1 0	Kow care processes	1.20 (0.28  to  2.13); p=0.0109
	JU 70 INI / JU70 P	treatment. The	Key care processes	1 20 (0 20 to 2.13), p=0.0109
		physician considers	- continuity of care	M CADE
	Age:	the nurse and	using the	Mean CARE nurse score
	Intervention group	pharmacist reviews,	Continuity of Care	Adjusted difference in means (95%
	71.0 (SD 11.6)	discusses treatment	index	CI); p-value
	Control group	adherence, and	- Visit Entropy	1.11 (0.03 to 2.19); p=0.044
	70.7 (SD 11.4)	agrees on a	measure	
	. ,	collaborative health	- numbers of	Patients reporting they almost always
	Multimorbidity:	plan with the patient.	consultations	discuss the problems most
	At least three	1 I	in both primary	important to them in managing their
	chronic conditions	The patient is given	and secondary care	own health
	from defined list	a printed copy of the	- a summary of	Adjusted OR (95% CI); p-value
	nom denned list			
		plan, which	disease-specific	1.85 (1.44 to 2.38); p<0.0001
	UK	specifies how the	measures (including	
		patient and clinicians	measures of disease	Patients reporting that support and
		will address the	management and	care is almost always joined-up
		agreed goals over the	disease	Adjusted OR (95% CI); p-value
		next 6 months	control) by	1.48 (1.18  to  1.85); p=0.0006
		through routine	measuring the	

Image: Section of Sectio	 r				
Image: Construction of the second density of the		consultations.	proportion of UK	Patients reporting being very satisfied	
Image: Control of the second secon			Quality and	with care	
Image: Control of the second secon			Outcomes	Adjusted OR (95% CD: n-value	
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applebbe"       applebbe"       Balance specing logic accuration of individual of contraction of contraction of individual of contraction of indindividual of contraction of indindindividual of contra				1.37 (1.19 to 2.08); p=0.0014	
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Main Value       Main Value <td></td> <td></td> <td><ul> <li>cost-effectiveness</li> </ul></td> <td>0.08 (0.02  to  0.13); p=0.0045</td> <td></td>			<ul> <li>cost-effectiveness</li> </ul>	0.08 (0.02  to  0.13); p=0.0045	
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be reported       -876(-1870 to 055); p=007         Mean number of QCB (discuss magement)       Adjusted difference (0%; CD;         y value       -041(-345 to 387); p=0-82         Main number of ACC (discuss magement)       Adjusted difference (0%; CD;         y value       -041(-345 to 387); p=0-82         Main number of indications of       high-sci parcetting         Adjusted difference (0%; CD);       pviate         y value       -040(-86 to 1-25); p=0-68         Main number of indications of       high-sci parcetting         Adjusted difference (0%; CD);       pviate         y value       -131(-02 to 1-25); p=0-68         Main number of indications of       high-sci parcetting         Adjusted difference (0%; CD);       pviate         y value       -131(-02 to 1-25); p=0-68         Main number of indications of       high-sci parcetting         Adjusted difference (0%; CD);       pviate         y value       -131(-12 to 1-15); p=0-6001         Main number of indications       high-sci parcetting         Adjusted difference (0%; CD);       pviate         p value       -131(-12 to 1-15); p=0-6001         Main number of indicating       -131(-12 to 1-15); p=0-71         Main number of indicating       -140(-08 to 1-30); p=0-71 <t< td=""><td></td><td></td><td>outcomes but were</td><td></td><td></td></t<>			outcomes but were		
spaniely will a paniely will a paniely will a paniely will a process assessment.       Mean number of QDT indicators met (agits of disease management) Adjused difference (0% CD; p value unther of indicators of high rads presentations of high rads presented rads presented rads p			be reported		
a parallel qualitative process assessment.       Mean number of LQO: Indicators mar (quality cold): Gives management) Adjusted difference (95% CD); p value 041 (=305 to 3.47); p=0-932         Mean number of number of number of loop in the standard difference (95% CD); p value 144 (#97 to 142); p=0-68         Mean number of number of number of number of number of number of loop in the standard difference (95% CD); p value 137 (1-17 to 164); p=0-0001         Mean number of hospital admissions Adjusted difference (95% CD); p value 137 (1-17 to 164); p=0-0001         Mean number of hospital admissions Adjusted difference (95% CD); p value 137 (1-17 to 164); p=0-0001				( · · · · · · · // r · · · · // r	
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Adjusted difference (95% CI);       p value         0.41 (-3.05 to 3.87); p=0.82       Median number of indicators of high-risk presching:         Adjusted difference (95% CI);       p value         1.04 (0.87 to 1.25); p=0.68       Median number of primary care         Multiple difference (95% CI);       p value         1.04 (0.87 to 1.25); p=0.068       Median number of primary care         Multiple difference (95% CI);       p value         1.03 (1.02 to 1.25); p=0.0209       Median number of nume         Median number of primary care       physician consultations         Adjusted difference (95% CI);       p value         1.13 (1.02 to 1.25); p=0.0209       Median number of nume         Consultations       Adjusted difference (95% CI);         p value       1.33 (1.02 to 1.25); p=0.0209         Median number of number of nume       consultations         Adjusted difference (95% CI);       p value         p value       1.37 (1.17 to 1.61); p=0.0001         Median number of nume					
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Median number of indicators of high-risk prescribing         Adjusted difference (95% CD);         p value         1 · 04 (0.97 to 1-25); p=0-68         Median number of primary care         physician consultations         Adjusted difference (95% CD);         p value         1 · 13 (1.02 to 1-25); p=0-0209         Median number of numse         Consultations         Adjusted difference (95% CD);         p value         1 · 13 (1.02 to 1-25); p=0-0209         Median number of numse         Consultations         Adjusted difference (95% CD);         p value         1 · 13 (1.02 to 1-25); p=0-0209         Median number of numse         Consultations         Adjusted difference (95% CD);         p value         1 · 37 (1 · 17 to 1-61); p=0-0001         Median number of hospital         administions         Adjusted difference (95% CD);         p value         1 · 04 (0-84 to 1:30); p=0.71					
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Adjusted difference (95% C1);       p. value         1-04 (0+87 to 1-25); p=0-68       Mcdian number of primary care         Mysician constraintions       Adjusted difference (95% C1);         p. value       1-13 (1-02 to 1-25); p=0-0209         Median number of nurse       Consultations         Adjusted difference (95% C1);       p. value         p. value       1-13 (1-02 to 1-25); p=0-0209         Median number of nurse       Consultations         Adjusted difference (95% C1);       p. value         p. value       1-37 (1-17 to 1-61); p=0-0001         Median number of hospital       admissions         Adjusted difference (95% C1);       p. value         p. value       1-04 (0+84 to 1-50); p=0-711         Median number of hospital       admissions         Adjusted difference (95% C1);       p. value         p. value       1-04 (0+84 to 1-50); p=0-711				Median number of indicators of	
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1:37 (1:17 to 1:61); p=0:0001         Median number of hospital         admissions         Adjusted difference (95% CI);         p value         1:04 (0:84 to 1:30); p=0:71         Median number of hospital         outpatient attendances         Adjusted difference (95% CI);         p value         1:04 (0:84 to 1:30); p=0:71				p value	
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Median number of hospital outpatient attendances Adjusted difference (95% CI); p value					
outpatient attendances Adjusted difference (95% CI); p value				1.04 (0.64  to  1.50); p=0.71	
outpatient attendances Adjusted difference (95% CI); p value					
outpatient attendances Adjusted difference (95% CI); p value				Median number of hospital	
Adjusted difference (95% CI); p value					
p value					
1·02 (0·92 to 1·14): p=0·72					
102 (0.92 (0.11)); p. 0.72	1			1.02 (0.92 to 1.14); p=0.72	

\*randomisatie: De randomisatie moet volledig onvoorspelbaar zijn, bijvoorbeeld computergestuurd of door middel van een extern trialbureau. Ontoereikende vormen van randomisatie zijn alterneren (om en om toewijzen) en toewijzing op grond van dossiernummer of geboortedatum.

\* toewijzing verborgen (allocation concealment): refereert aan het geheimhouden of blinderen van de toewijzing van patiënten aan de verschillende onderzoeksgroepen in een RCT. Dit betekent dat degene die de groepen indeelt bijvoorbeeld door het uitdelen van de omslagen) niet op de hoogte is van de inhoud van de omslag en dat de codering niet te achterhalen is.

\* blindering: Blindering van de patiënt en de behandelaarr betekent dat beiden niet weten welke behandeling de patiënt krijgt. Blinderen is echter niet altijd mogelijk, denk bijvoorbeeld aan een operatie versus medicamenteuze therapie. De effectbeoordelaar is degene die de resultaten van de studie beoordeelt. Met blindering van de effectbeoordelaar(s) wordt voorkomen dat de effecten van de interventie- en controlebehandeling verschillend worden beoordeeld (informatiebias). Heeft de studie harde uitkomstmaten (zoals sterfte), dan is een geblindeerde uitkomstmeting niet nodig.

\* intention-to-treat: Elke patiënt moet geanalyseerd worden in de groep waarin hij gerandomiseerd was, wat er ook verder met de patiënt gebeurt (bijvoorbeeld beëindigen studiemedicatie). Dit heet een analyse volgens het 'intention to treat' principe. Alleen op deze manier wordt de validiteit van de randomisatie niet aangetast.