Appendix 2: Table of Included Trials [posted as supplied by author]

Provenance	of Included Trials [posted as supple Participants	Intervention	Outcomes	Authors Assessment of Risk of Bias
Ward				
Applegate 1990 Location: Memphis, USA (1500-bed rehabilitation hospital) Admission within 72 hours	N=155, Mean age: 78.8, 24% male Inclusion criteria: over 65, at risk for nursing home placement and/or functional impairment Some patients under 65 were considered if they met the criteria Exclusion criteria: unstable medical conditions; short-term monitoring required; survival less than 6 months; serious chronic mental impairment; nursing home placement inevitable	Team members: specialist nurse, ward nurses, social workers, physiotherapists, occupational therapists, dieticians, speech and language pathologists, audiologists, psychologists Team organisation: comprehensive assessment, multidisciplinary meetings at least weekly, regular use of standard assessment tools	Outcomes: Mortality, ADL, days spent in nursing homes, mood, and cognition at 6 months and 1 year Trial conclusions: improved function and reduced nursing home admission	Random sequence generation: Low Risk Allocation Concealment: Unclear Risk Blinding: Unclear Risk Incomplete outcome data: Low Risk Selective Reporting: Unclear Risk Other Bias: Low Risk Baseline outcome measurements similar: Low Risk Baseline characteristics similar: Low Risk Study protected against contamination: Unclear Risk
Asplund 2000 Location: Umea, Sweden (University Hospital) Admission direct from Emergency Department	N=413, Mean age: 81, 40% male (approx) Inclusion criteria: all patients over 70 admitted acutely Exclusion criteria: patients requiring specialist unit (ICU, CCU, Stroke)	Team members: senior geriatrician, ward nurses, social workers, physiotherapists, occupational therapists, dieticians Team organisation: comprehensive assessment, weekly multidisciplinary meetings and regular goal setting	Outcomes: Global outcome (death, institutionalisation, dependence or psychological outcomes), death, institutionalisation, Barthel Index, cognitive function, psychological outcomes Trial conclusions: reduced institutionalisation	Random sequence generation: Unclear Risk Allocation Concealment: Low Risk Blinding: High Risk Incomplete outcome data: High Risk Selective Reporting: Unclear Risk Other Bias: Low Risk Baseline outcome measurements similar: Low Risk Baseline characteristics similar: Low Risk Study protected against contamination: Low Risk
Cohen 2002 Location: USA (VA multicentre study) Stepdown ward RCT with 2 x 2 factorial design, inpatient geriatric ward versus usual care and outpatient geriatric follow up versus usual care	N=1388, Mean age: 74, 98% male Inclusion criteria: age at least 65, hospitalised on a medical ward, expected length of stay > 2 days, frailty (presence of stroke, history of falls, inability to perform ADLs, prolonged bed rests, incontinence) Exclusion criteria: admissions from nursing home, terminal illness	Team members: senior geriatrician, specialist nurse, social workers, physiotherapists, occupational therapists, dieticians, pharmacists Team organisation: comprehensive assessment, at least weekly MDT meeting	Outcomes: Death, perceived health status, basic and extended ADL, costs Trial conclusions: no overall effects on survival. Improved physical function with inpatient care, improved cognitive function with outpatient care	Random sequence generation: Low Risk Allocation Concealment: Low Risk Blinding: Low Risk Incomplete outcome data: Low Risk Selective Reporting: Unclear Risk Other Bias: Low Risk Baseline outcome measurements similar: Low Risk Baseline characteristics similar: Low Risk Study protected against contamination: Low Risk
Collard 1985 Location: Boston, USA (2 community hospitals) Direct admission to ward from Emergency Department	N=695, Mean age: 78, 40% male (approx) Inclusion criteria: over 65, under the care of a participating physician, either medical or surgical admissions Exclusion criteria: none given	Team members: ward nurses, social workers, senior physician, physiotherapist, occupational therapist Team organisation: at least weekly multidisciplinary meetings, specialised ward environment,	Outcomes: death, length of stay, complications, institutionalisation, dependence, self-rated health Trial Conclusions: Specialist care is cost effective	Random sequence generation: Unclear Risk Allocation Concealment: Allocation Concealment Blinding: High Risk Incomplete outcome data: High Risk Selective Reporting: Unclear Risk Other Bias: Unclear Risk

RCT (1:2 allocation, treatment:control)		comprehensive assessment, protocolised care, standardised assessment tools		Baseline outcome measurements similar: Unclear Risk Baseline characteristics similar: Unclear Risk Study protected against contamination: Low
Counsell 2000 Location: Akron City, Ohio, USA (Community Teaching Hospital) Direct admission from the Emergency Department	N=1531, Mean age: 80, 40% male (approx) Inclusion criteria: community-dwelling persons aged 70 or older admitted to medical or family practice service Exclusion criteria: transferred from other hospital, nursing home, required speciality unit admission, elective admissions, LOS < 2 days	Team members: senior geriatrician, specialist nurse, ward nurses, social workers, physiotherapists Team organisation: comprehensive assessment, at least weekly multidisciplinary meetings, standardised assessment tools, specialised ward environment, protocolised care	Outcomes: death, activities of daily living, institutionalisation, dependence Trial conclusions: improved combined outcomes of functional decline or nursing home admission in intervention group	Risk Random sequence generation: Low Risk Allocation Concealment: Low Risk Blinding: High Risk Incomplete outcome data: Low Risk Selective Reporting: Unclear Risk Other Bias: Low Risk Baseline outcome measurements similar: Low Risk Baseline characteristics similar: Low Risk Study protected against contamination: Unclear Risk
Fretwell 1990 Location: Providence, Rhode Island, USA (Teaching Hospital) Direct admission from the Emergency Department	N=436, Mean age: 83, 28% male Inclusion criteria: >75, physician given consent, did not require CCU or ICU Exclusion criteria: none given	Team members: specialist nurses, ward nurses, senior geriatrician, pharmacist, physiotherapist, dietician, social worker Team organisation: at least weekly multidisciplinary meetings, goalsetting, standardised assessment tools	Outcomes: death, cognition, dependence, mood, costs, institutionalization Trial conclusions: no significant difference observed between the groups	Random sequence generation: Unclear Risk Allocation Concealment: Unclear Risk Blinding: High Risk Incomplete outcome data: Low Risk Selective Reporting: Unclear Risk Other Bias: Low Risk Baseline outcome measurements similar: Low Risk Baseline characteristics similar: Low Risk Study protected against contamination: Low Risk
Harris 1991 Location: Adelaide, Australia Direct admission from the Emergency Department	N=267, Mean age: 78, 40% male (approx) Inclusion criteria: over 70 years of age, non-elective, not readmitted, non-nursing home dwellers, resident in Southern Health Region Exclusion criteria: none given	Team members: senior geriatrician, social workers, occupational therapists, physiotherapists, ward nurses Team organisation: not specified	Outcomes: death, institutionalisation, dependency, cognitive status, length of stay Trial conclusions: no evidence of benefit from admission to a Geriatric Assessment Unit for unselected adults over 70 years.	Random sequence generation: Unclear Risk Allocation Concealment: High Risk Blinding: High Risk Incomplete outcome data: Unclear Risk Selective Reporting: Unclear risk Other Bias: High Risk Baseline outcome measurements similar: Low Risk Baseline characteristics similar: Low Risk Study protected against contamination: Low Risk
Kay 1992 Location: Toronto, Canada (Community Hospital) Stepdown ward	N=59, Mean age: 81, 45% male Inclusion criteria: over 70, medically stable, possible acute confusion, functional impairment, multiple geriatric problems	Team members: specialist nurses, social workers, occupational therapists, physiotherapists, pharmacists, dietitian Team organisation: comprehensive	Outcomes: Institutionalisation, activities of daily living, cognitive function Trial conclusions: inadequate evidence of benefit from a	Random sequence generation: Unclear Risk Allocation Concealment: Unclear Risk Blinding: High Risk Incomplete outcome data: Unclear Risk Selective Reporting: Unclear Risk

	Exclusion criteria: medically unstable, chronic cognitive impairment, independent	assessment, at least weekly MDT, standardised assessment tools	Geriatric Assessment Unit	Other Bias: Low Risk Baseline outcome measurements similar: Low Risk Baseline characteristics similar: Low Risk Study protected against contamination: Unclear Risk
Landefeld 1995 Location: Cleveland, Ohio, USA (Teaching Hospital) Direct admission from the Emergency Department	N=651, Mean age: 80, 35% male (approx) Inclusion criteria: 70 or older admitted for general medical care Exclusion criteria: patients admitted to a speciality unit - ICU, cardiology, telemetry, oncology	Team members: trainee geriatrician, ward nurses, social worker, physiotherapists, occupational therapists, dieticians Team organisation: at least weekly MDT, use of standardised assessment tools, protocolised care, specialised ward environment	Outcomes: death, institutional care, cognition, dependence Trial conclusions: fewer patients discharged to a nursing home, Improved functional outcomes at discharge	Random sequence generation: Low Risk Allocation Concealment: Low Risk Blinding: Unclear Risk Incomplete outcome data: Low Risk Selective Reporting: Unclear Risk Other Bias: Low Risk Baseline outcome measurements similar: Low Risk Baseline characteristics similar: Low Risk Study protected against contamination: Low Risk
Nikolaus 1999 Location: Heidelberg, Germany (University Hospital) Admission within 48 hours Trial methodology: RCT with 2 intervention arms - geriatric assessment ESD (Home Intervention Team) or geriatric assessment	N=545, Mean age: 81, Male to female ratio: unclear Inclusion criteria: elderly patients with multiple chronic conditions or functional deterioration or who were at risk of nursing home placement Exclusion criteria: terminal illness, severe dementia, patients who lived >15 km away	Team members: senior geriatrician, specialist nurses, physiotherapists, occupational therapists, social workers. (The home intervention team consisted of 3 nurses, a physiotherapist, an occupational therapist, a social worker and secretarial support) Team organisation: comprehensive assessment, standardised assessment tools, outpatient follow up (HIT team)	Outcomes: Institutionalisation, readmission, costs, length of stay, perceived health status, dependence Trial conclusions: Comprehensive Geriatric Assessment in association with early supported discharge improves functional outcomes and may reduce length of stay	Random sequence generation:Low Risk Allocation Concealment: Low Risk Blinding: Low Risk Incomplete outcome data: Low Risk Selective Reporting: Unclear Risk Other Bias: Low Risk Baseline outcome measurements similar: Unclear Risk Baseline characteristics similar: Unclear Risk Study protected against contamination: Low Risk
alone versus usual care Powell 1990 Location: Manitoba, Canada Direct admission from the Emergency Department	N=203, Mean age: uncertain, Male to female ratio: uncertain Inclusion criteria: acute medical admissions over 74 years Exclusion criteria: requiring psychiatric or surgical care	Team members: unknown Team organisation: unknown	Outcomes: death, institutionalisation, cognitive function, depression, dependence Trial conclusions: non-significant differences in favour of the treatment group	Random sequence generation: Unclear Risk Allocation Concealment: Unclear Risk Blinding: Unclear Risk Incomplete outcome data: Unclear Risk Selective Reporting: Unclear Risk Other Bias: Unclear Risk Baseline outcome measurements similar: Unclear Risk Baseline characteristics similar: Unclear Risk Study protected against contamination: Unclear Risk
Rubenstein 1984	N=123, Mean age: 78, 96% male	Team members: senior geriatrician,	Outcomes: death,	Random sequence generation: Unclear Risl

trainee geriatrician, specialist nurses, Location: Los **Inclusion criteria:** patients over 65 institutionalisation, costs, Allocation Concealment: Unclear Risk Angeles, Ca, USA still in hospital one week after ward nurses, social workers, Blinding: High Risk cognitive status, morale (VA hospital) admission with persistent medical, physiotherapists, occupational **Trial conclusions:** reduced Incomplete outcome data: Low Risk Stepdown ward functional or psychosocial problem therapists, dietician, audiologists, Selective Reporting: Unclear Risk mortality, reduced dentists and psychologists Exclusion criteria: severe dementia institutionalisation, improved Other Bias: Low Risk **Team organisation:** at least weekly functional status and morale or disabling disease resistant to further Baseline outcome measurements similar: medical management; those with no MDT meetings, standardised Low Risk social supports; those functioning well assessment tools, outpatient follow Baseline characteristics similar: Low Risk who would definitely return to Study protected against contamination: Low community, independent or severely Risk ill and dependent patients excluded N=254, Mean age: 82, 35% male Saltvedt 2002 Team members: senior geriatrician, Outcomes: mortality, ADL, Random sequence generation: Low Risk trainee geriatrician, specialist nurse, function. Institutionalisation. Allocation Concealment: Low Risk Location: Trondheim. (approx) Norway (Community **Inclusion criteria:** frail patients: acute social workers, physiotherapists, cognition, prescribing Trial Blinding: Unclear Risk impairment of ADL, imbalance, occupational therapists, dentists conclusions: a reduction in short-Incomplete outcome data: Low Risk Hospital) dizziness, impaired mobility, chronic **Team organisation:** at least weekly Selective Reporting: Unclear Risk Admission within 72 term mortality, no difference in disability, weight loss, falls, MDTs, protocolised care, early Other Bias: Low Risk hours long-term mortality confusion, depression, malnutrition, mobilisation Baseline outcome measurements similar: vision or hearing impairment, mild or Low Risk moderate dementia, urinary Baseline characteristics similar: Low Risk incontinence, social or family Study protected against contamination: Low problems, polypharmacy Risk Exclusion criteria: nursing home patients, fully independent, cancer with metastasis, severe dementia Shamian 1984 N=36, Mean age: uncertain, 40% male **Team members:** senior geriatrician, Outcomes: death, medication use. Random sequence generation: Low Risk Location: Montreal, **Inclusion criteria:** over 65s, senior geriatric nurse, experienced activities of daily living Allocation Concealment: Unclear Risk Canada (University medically stable, awaiting transfer geriatric nurses, social workers, Trial conclusions: geriatric wards Blinding: High Risk Exclusion criteria: acutely unwell, on Teaching Hospital) physiotherapists and occupational can result in reduced drug Incomplete outcome data: High Risk Stepdown ward prescribing, and aid transfers Selective Reporting: Unclear Risk priority list for transfer to geriatric therapists only by referral care or a long-term care institution Team organisation: use of Other Bias: Unclear Risk RCT evaluating temporary relocation standardised assessment tools Baseline outcome measurements similar: to a geriatric ward Low Risk Baseline characteristics similar: Low Risk Study protected against contamination: Unclear Risk **White 1994** N=40, Mean age: 76.5, 37% male **Team members:** senior geriatrician, Outcomes: death, nursing home Random sequence generation: Low Risk **Inclusion criteria:** age 65 or over, Location: Nashville. geriatric nurse specialist, social admission, functional status, 30-Allocation Concealment: Unclear Risk medically stable, "potential for making worker, dietician, pharmacist, day readmissions and costs Tennessee, USA Blinding: High Risk (University Hospital) improvement in physical, functional or physiotherapist, occupational Trial conclusions: CGA is cost-Incomplete outcome data: Low Risk psychological function", complicated Stepdown ward therapist, speech and language effective and improves patient Selective Reporting: Unclear Risk discharge or awaiting placement. therapist outcomes without increasing Other Bias: Unclear Risk Terminal patients accepted. **Team organisation:** admission to a length of stay Baseline outcome measurements similar: Exclusion criteria: not explicitly 6-bedded stepdown ward. Weekly

Unclear Risk

Toom	stated.	multidisciplinary meetings, full comprehensive assessment, therapy and discharge planning. Review of medications and appropriate limits on investigations. Control group were reviewed by senior nurse and geriatrician and recommendations were made to usual care team.		Baseline characteristics similar: Unclear Risk Study protected against contamination: Unclear Risk
Team Hogan 1987 Location: Halifax, Canada (Community Hospital) Stepdown team (within a week of hospitalisation)	N=113, Mean age: 82, 30% male (approx) Inclusion criteria: all patients over 75 admitted to Dept of Medicine on an emergency basis, with confusional state, impaired mobility, falls, urinary incontinence, polypharmacy, living in a nursing home or admission within previous 3 months Exclusion criteria: ICU, stroke, permission refused by patient or attending physician	Team members: senior geriatrician, specialist nurse, physiotherapists Team organisation: comprehensive assessment, at least weekly MDT	Outcomes: death, institutionalisation, cognitive status, readmissions, length of stay, costs Trial conclusions: improved cognitive status, reduced polypharmacy and reduced short-term mortality demonstrated	Random sequence generation: Low Risk Allocation Concealment: High Risk Blinding: Unclear Risk Incomplete outcome data: Low Risk Selective Reporting: Unclear Risk Other Bias: Unclear Risk Baseline outcome measurements similar: Low Risk Baseline characteristics similar: Low Risk Study protected against contamination: Unclear Risk
Kircher 2007 Location: Tubingen, Germany Stepdown team RCT with a second control group for external comparison	N=435, Mean age: 78, 33% males (approx) Inclusion criteria: over 65, with evidence of functional impairment, potential breakdown of the home situation Exclusion criteria: nursing home patients, independent patients with no functional impairment, a terminal condition, severe dementia, not able to speak German, living further than 60 miles from the hospital	Team members: senior geriatrician, social worker, specialist nurse plus other associated health professionals as required Team organisation: comprehensive assessment and treatment recommendations, at least weekly multidisciplinary meetings, discharge planning, follow up telephone calls	Outcomes: death, institutionalisation, activities of daily living, cognition, mood, number of drugs Trial conclusions: care by CGA teams did not improve rehospitalisation or nursing home admissions	Random sequence generation: Unclear Risk Allocation Concealment: Unclear Risk Blinding: Low Risk Incomplete outcome data: High Risk Selective Reporting: Unclear Risk Other Bias: Low Risk Baseline outcome measurements similar: Low Risk Baseline characteristics similar: Low Risk Study protected against contamination: Unclear Risk
McVey 1989 Location: Durham, NC, USA (VA Centre) Acute team (within 48 hours)	N=178, Mean age: 81, 96% male Inclusion criteria: patients 75 or older Exclusion criteria: admitted to ICU, had previously received geriatric care, expected length of stay less than 48 hours	Team members: senior geriatrician, trainee geriatrician, specialist nurse, social worker Team organisation: comprehensive assessment and recommendations made, at least weekly multidisciplinary meetings, standardised assessment tools	Outcomes: activities of daily living/dependence, institutionalisation, death Trial conclusions: no significant effect on functional decline	Random sequence generation: Low Risk Allocation Concealment: Unclear Risk Blinding: Low Risk Incomplete outcome data: Unclear Risk Selective Reporting: Unclear Risk Other Bias: Low Risk Baseline outcome measurements similar: Low Risk Baseline characteristics similar: Low Risk Study protected against contamination: Unclear Risk

Naughton 1994 Location: Chicago, Il, USA (Urban Teaching Hospital) Direct entry from the Emergency Department	N=111, Mean age: 80, 40% male (approx) Inclusion criteria: 70 years admitted from ED to medicine service and did not regularly receive care from attending internist on staff at study hospital at time of admission. Exclusion criteria: admission to ICU or transferred to a surgical service	Team members: senior geriatrician, social worker, specialist nurse, physiotherapist Team organisation: geriatrician and social worker comprise core GEM team with nurse specialist and physiotherapist as required. Carried out systematic evaluation of patient's medical, mental, functional and psychosocial status and needs. Team conference 2 to 3 times weekly.	Outcomes: death, institutionalisation, costs, length of stay Trial conclusions: reduced hospital costs	Random sequence generation: Low Risk Allocation Concealment: Low Risk Blinding: High Risk Incomplete outcome data: High Risk Selective Reporting: Unclear Risk Other Bias: Low Risk Baseline outcome measurements similar: Low Risk Baseline characteristics similar: Low Risk Study protected against contamination: Unclear Risk
Reuben 1995 Location: Los Angeles, Ca, USA (multicentre HMO) Stepdown team Multicentre RCT	N=2353, Mean age: 78, 53% male (approx) Inclusion criteria: over 65, with one of 13 criteria: stroke, immobility, impairment ADL, malnutrition, incontinence, confusion or dementia, prolonged bed rest, falls, depression, social or family problems, unplanned re-admission, new fracture, over 80 Exclusion criteria: admitted for terminal care, lived outside HMO area, did not speak English, were admitted from a nursing home	Team members: senior geriatrician, nurse specialist, social workers, physiotherapists Team organisation: comprehensive assessment, at least weekly MDT, standardised assessment tools, outpatient follow up	Outcomes: death, institutionalisation, dependency, cognitive status, perceived health status Trial conclusions: no significant differences identified in mortality, functional status or perceived health	Random sequence generation: Low Risk Allocation Concealment: Unclear Risk Blinding: High Risk Incomplete outcome data: Low Risk Selective Reporting: Low Risk Other Bias: Low Risk Baseline outcome measurements similar: Low Risk Baseline characteristics similar: Low Risk Study protected against contamination: Unclear Risk
Thomas 1993 Location: Winston-Salem, NC, USA (Community Hospital) Acute team (within 48 hours)	N=132, Mean age: 77, 35% (approx) Inclusion criteria: all patients over 70 Exclusion criteria: refusal of patients, ICU, CCU, obvious terminal illness, renal haemodialysis, place of residence greater than 50 miles from hospital	Team members: senior geriatrician, geriatric nurse specialist, social worker, dietician, pharmacist, physiotherapist Team organisation: comprehensive assessment, and recommendations made in patients' charts as well as follow up visits versus assessment with no recommendations in the control group	Outcomes: death, dependence Trial conclusions: short-term reductions in mortality which still remain at one year. Additional trends to better functional status and reduced readmission	Random sequence generation: Low Risk Allocation Concealment: Unclear Risk Blinding: High Risk Incomplete outcome data: Unclear Risk Selective Reporting: Unclear Risk Other Bias: Low Risk Baseline outcome measurements similar: Low Risk Baseline characteristics similar: Low Risk Study protected against contamination: High Risk
Winograd 1993 Location: Palo Alto, Ca, USA (VA Teaching Hospital) Stepdown team	N=197, Mean age: 76, 100% male Inclusion criteria: all male patients 65 or over, expected to stay >96 hours, within 2-hour drive, not enrolled in geriatric/rehab programme, functionally impaired "frailty": confusion, dependence in ADLs, polypharmacy, stressed caregiver system	Team members: senior geriatrician, trainee geriatrician, specialist nurse input, social work, dietician Team organisation: comprehensive assessment, standardised assessment tools	Outcomes: death, institutionalisation, cognition, dependence Trial conclusions: no evidence of benefit from geriatric consultation team	Random sequence generation: Low Risk Allocation Concealment: Low Risk Blinding: High Risk Incomplete outcome data: Low Risk Selective Reporting: Unclear Risk Other Bias: Low Risk Baseline outcome measurements similar: Low Risk Baseline characteristics similar: Low Risk

Exclusion criteria: independent, permanent nursing home resident, less than 6 months life-expectancy

Study protected against contamination: Unclear Risk