Appendix C1

Completed methodology checklists: economic evaluations

Home care review questions 3.1, 3.2

Completed methodology checklists: economic evaluations

What approaches to home care planning and delivery are effective in improving outcomes for people who use services?

What are the significant features of an effective model of home care?

Study identification: Forder J, Malley J, Towers AM et al. (2013) Using cost-effectiveness estimates from survey data to guide commissioning: An			
application to home care. Health Economics 8: 979-992			
Guideline topic: Home care, Older People			
Economic priority area: Care planning approaches Q: 2.1 parts 1 and 2			
Checklist: Sect	ion 1		
Yes/No/Partly/	Detail		
Not applicable			
1.1 Is the study	population appropriate for the review question?		
Yes	The study focused on older people (above 65) of which the large majority used home care; the study appeared to make		
	appropriate use of data from people who received home care and other care services to derive generalizable conclusions about		
	the cost effectiveness for different intensities of home care (at the margin). A distinction was made between different activity of		
	daily living (ADL) groups in low, medium and high needs and varied characteristics of service users are confounded for.		
1.2 Are the inter	rventions appropriate for the review question?		
No	Study compared intensity of home care rather than different care planning or delivery approaches; there was no further detail		
	about the type of home care provided. The study looked at home care as it was provided to older people in England (including		
	varies qualities and home care practices).		
1.3 Is the curre	nt social care system in which the study was conducted sufficiently similar to the current UK social care context?		
Yes	UK (England) based; it is indicated that the survey used for the data analysis was of a recent date based on citations and use of		
	unit costs data from a 2011 source.		
1.4 Are the perspectives clearly stated and what are they?			
Partly	It is stated that the perspective is the one of a local public payer and that this only related to cost-implications in terms of home		
	care expenditure. Other public service costs (for example for residential care or health care) were not considered and the authors		
	explain that this should be the subject of further research. Furthermore, the costs to individuals (including out-of-pocket		
	expenditure and unpaid care) were not considered.		
1.5 Are all direct effects on individuals included			
Partly	The Adult Social Care Outcomes Toolkit was used which is a comprehensive measure of social care-related quality of life;		
	outcomes were confounded for a wide range of factors including ADL, informal care, long-term illness, disability allowance, etc.		
	Effects on carers were not considered.		
1.6 Are all future costs and outcomes discounted appropriately?			
Not applicable	Time periods of the survey were not specifically stated but findings were presented per week so that discounting was probably not		
	necessary.		
1.7 How is the	/alue of effects expressed?		
Yes	In natural units and utility (via the ASCOT).		

1.8 Are costs and outcomes from other sectors (including the value of unpaid care, where relevant) fully and appropriately measured and			
valued?			
No	Cost implications only considered home care expenditure.		
General conclus	ion		
This study was co	oncerned with methods for establishing cost effective intensities of home care for groups of older people generally; and those with		
high versus low/m	high versus low/moderate needs. The study presented important economic evidence relevant to the overall topic but its contribution to answering		
questions about the	he cost-effectiveness of care planning and delivery approaches was limited. We therefore concluded that the study had limited		
applicability.			
APPENDIX C: C	COMPLETED METHODOLOGY CHECKLISTS: ECONOMIC EVALUATIONS		
Study identificat	tion: Gethin-Jones S (2012) Outcomes and well-being part 1: A comparative longitudinal study of two models of home care		
delivery and their	impact upon the older person self-reported subjective well-being. Working with Older People 16:22-30		
Guideline topic:	Home care, Older People		
Economic priorit	ty area: Care planning approaches Q: 2.1		
Checklist: Section	<u>on 1</u>		
Yes/No/Partly/	Detail		
Not applicable			
1.3 Is the study p	population appropriate for the review question?		
Partly	The study population included older people with critical (physical) needs who did not lack mental capacity including dementia. The		
5	study population was relatively small (n=40) and no further detail was provided how the study population was recruited.		
1.4 Are the interventions appropriate for the review question?			
No	The intervention (approach) was not described in sufficient detail to derive conclusions about appropriateness and allow that		
f	findings could be generalised to a particular approach.		
1.3 Is the current	t social care system in which the study was conducted sufficiently similar to the current UK social care context?		
Yes	The study took place in the UK (England); study year was not stated in this paper but it was likely that based on citations used in		
t	the paper that it was of a fairly recent date.		
1.4 Are the perspectives clearly stated and what are they?			
No	The perspectives were not stated, but some costs were presented that were those of the local council's finance department.		
	Further costs to the government such as those for residential care or the NHS were not considered. Costs to the individuals were		
r	not considered.		
1.5 Are all direct effects on individuals included			
No -	The authors reported that they used a range of outcome tools to capture physical health, wellbeing, social isolation and		
5	satisfaction. Effects on outcomes were reported with insufficient detail to derive a conclusion about their validity. Outcomes to		
0	carers were not considered.		

	e and automas discounted annuanistals?		
1.6 Are all futu	re costs and outcomes discounted appropriately?		
NO	Because of low reporting quality it was not possible to say whether discounting was necessary; in one part of the article a period		
	of 18 months was mentioned for the collection of cost data so that some indication of whether discounting was considered would		
	have been necessary.		
1.7 How is the	value of effects expressed?		
No	Only individuals' concerns were presented. Scores from validated instruments were not presented.		
1.8 Are costs a	nd outcomes from other sectors (including the value of unpaid care, where relevant) fully and appropriately measured and		
valued?			
No	There was no consideration of impact on unpaid carers.		
General conclu	Ision		
The study had v	ery limited applicability because of a lack of detail about the type of intervention that was provided, a small sample size and non-		
random selectio	n of the sample, and a generally low reporting quality.		
	APPENDIX C: COMPLETED METHODOLOGY CHECKLISTS: ECONOMIC EVALUATIONS		
Study identifica	ation: Glendinning C, Challis D, Fernández J et al. (2008) Evaluation of the Individual Budgets Pilot Programme: Final Report. York:		
Social Policy Re	search Unit, University of York		
Guideline topic	: Home care, Older People		
Economic priority area: Care planning approaches Q: 2.1			
Checklist: Section 1			
Yes/No/Partly/N	Yes/No/Partly/Not applicable Detail		
1.1 Is the study	population appropriate for the review question?		
Partly	The study covered four client groups which receive publicly funded social care depending on their identified primary		
· · · · · ·	need or vulnerability. One of large group specifically addresses the need of older people. Most findings (but not all)		
	were presented by client groups; it is possible that there were individuals >65yrs in not just the 'older people' group.		
	Characteristics of older people in sample showed significant differences from national averages; needs – measured		
	through abilities of daily livings (ADL) and mobility - were significantly greater in the study population and a higher		
	proportion used home care more intensively (higher proportion of people using more than 10hrs/wk.)		
1.2 Are the interventions appropriate for the review question?			
Dorthy	The intervention referred to providing to individuals with a choice for an individual budget but individuals in the		
raiuy	intervention referred to providing to individuals with a choice for an individual budget but individuals in the		
	aroup) In this paper this was considered in the analysis and in the presentation of findings for the subgroup which		
	group). In this paper this was considered in the analysis and in the presentation of indings for the subgroup which devides the state of the subgroup which are		
	decided to take up individual budgets. Problematically, this group included individuals who did not always have a		

1.3 Is the current social care system in which the study was conducted sufficiently similar to the current UK social care context?		
Partly	The study was a large UK study of fairly recent date covering a wide range of localities. However, the study was concerned with the evaluation of a pilot and related to a time when individual budgets were introduced and tested. Since then the infrastructure for individual (personal) budgets has developed and some of the barriers of implementing individual (personal) budgets might have reduced. In addition, increasing financial pressures have led to stricter eligibility criteria and greater number of people who need to think about self-funded options.	
1.4 Are the perspectives clear	rly stated and what are they?	
Partly	The perspective was not specifically stated but it was clear that a government perspective had been taken. A distinction was made between health and social care budgets. Costs to individuals (including carers) were not considered.	
1.5 Are all direct effects on in	dividuals included	
Partly	Health and wellbeing outcomes for individuals were captured comprehensively. Limitations were: First, the intervention group experienced delays in the assessment, resource allocation and support planning and a large number did not have an IB agreed, or their new support arrangements in place, by the time their six-month outcome interview was carried out. Of those who did, some had only had an IB in place for a short period. In short, the time horizon was not sufficient to capture all effects. Second, outcome tools were only applied at six months and not at baseline so that it was not possible to assess the change over time and the analysis assumed no baseline differences in outcomes (which is justifiable because of the randomisation but still presented a limitation). Third, outcomes to unpaid carers were not measured.	
1.6 Are all future costs and or	utcomes discounted appropriately?	
Yes	Discounting was not applied because of short-term perspective (six months for outcomes; 12 months for costs).	
1.7 How is the value of effects expressed?		
Yes	Natural units: Self-perceived health, GHQ-12, ASCOT, satisfaction.	
1.8 Are costs and outcomes f	rom other sectors (including the value of unpaid care, where relevant) fully and appropriately measured and	
valued?		
Partly	Government perspective (health and social care) was taken; the costs of unpaid care and out-of-pocket expenditure was not included; it is not clear whether all voluntary services were included (no distinction between public and third sector provided services). Outcomes to carers were not captured in this analysis.	
General conclusion		
The study provided relevant dat restricted because not all finding and implementation challenges evaluation of a national pilot that	ta to answer some aspects of cost-effectiveness for different home care packages. However, applicability was gs on costs and cost-effectiveness were presented specifically for the group of older people; the design of the study meant that the evidence on outcomes referred to people who did not use individual budgets; the study was an at faced implementation challenges and this influenced the applicability of findings.	

Section 2: Study limitations (the level of methodological quality)		
This checklist should be used once it has been decided that the study is sufficiently applicable to the context of the social care guidance[a].		
2.1 Does the model structure adequately reflect the nature of the topic under evaluation?		
Not applicable	This was a cost effectiveness study alongside a randomised trial.	
2.2 Is the time horizon sufficient	ently long to reflect all important differences in costs and outcomes?	
No	The time horizon was insufficient because individual budgets had not been implemented for all service users at the	
	six month interview so that not all important differences in costs and effects could be captured.	
2.3 Are all important and relevant	vant outcomes included?	
Partly	See section 1.5	
2.4 Are the estimates of base	ine outcomes from the best available source?	
No	Baseline outcomes were not measured.	
2.5 Are the estimates of relati	ve intervention effects from the best available source?	
Yes	Estimates of effects were derived from RCT data.	
2.6 Are all important and relev	vant costs included?	
Partly	Study took a government perspective and included the costs of health and social care services. However, there	
	were likely to be important costs to individual (such as unpaid care and out-of-pocket expenditure) which were not	
	considered.	
2.7 Are the estimates of resource use from the best available source?		
Yes	A range of tools were applied to collect information on resource use comprehensively including from support plan	
	records held by local authorities and self-reported questionnaires sent out to individuals asking about their service	
	use over the past six months.	
2.8 Are the unit costs of resources from the best available source?		
Yes	Unit costs for care planning are provided by local authority data and unit costs for other social and health care are	
	taken from recommended national statistics of Personal Social Services and PSSRU compendium for unit costs in	
	health and social care.	
2.9 Is an appropriate incremental analysis presented or can it be calculated from the data?		
Yes	Incremental analysis was presented for two outcomes: GHQ and ASCOT.	
2.10 Are all important parame	ters whose values are uncertain subjected to appropriate sensitivity analysis?	
Yes	Confidence intervals and bootstrapping.	
2.11 Is there any potential conflict of interest?		
No	Although this study was funded by the Department of Health and was a national evaluation of a government	
	programme, the researchers were independent (from different university-based research departments) so that it	
	was overall unlikely that the findings were compromised by conflict of interest.	
2.12 Overall assessment		
Minor limitations: The study was an overall relatively robust large study based on a RCT design and had an overall relatively high reporting quality.		

Study identification: Jones K, Netten A, Fernández JL et al. (2012) The impact of individual budgets on the targeting of support: Findings from a		
national evaluation of pilot projects in England. Public Money & Management 32:417-424		
Guideline topic: Home care, Older People		
Economic priority area: Care planning approaches Q: 2.1		
Checklist: Section 1		
Yes/No/Partly/Not applicable	Detail	
1.3 Is the study population appropriate for the review question?		
No	The study covered four groups of people including older people. Findings were not presented for older people specifically.	
1.4 Are the interventions appr	opriate for the review question?	
Partly	The intervention referred to providing to individuals with a choice for an individual budget but individuals in the intervention group could also opt for direct payments or conventional care (in the same way as the comparison group). In this paper this was considered in the analysis and presentation of findings for the subgroup which decided to take up individual budgets. Problematically, this group included individuals who did not always have a support plan in place by the time outcomes were measured.	
1.3 Is the current social care s	system in which the study was conducted sufficiently similar to the current UK social care context?	
Partly	The study was a large UK study of fairly recent date covering a wide range of localities. However, the study was concerned with the evaluation of a pilot and related to a time when individual budgets were introduced and tested. Since then the system might have changed.	
1.4 Are the perspectives clearly stated and what are they?		
Partly	The perspective was not specifically stated but it was clear that a government perspective had been taken. A distinction was made between health and social care budgets. Costs to individuals (including carers) were not considered in this study.	
1.5 Are all direct effects on individuals included		
Not applicable	This study was a cost study. Outcomes were presented elsewhere (Glendinning et al 2008).	
1.6 Are all future costs and outcomes discounted appropriately?		
Yes	No discounting was applied because of short-term perspective (six months for outcomes; 12 months for costs).	
1.7 How is the value of effects expressed?		
Not applicable	This study was a cost study. Outcomes were presented elsewhere (Glendinning et al 2008).	
1.8 Are costs and outcomes from other sectors (including the value of unpaid care, where relevant) fully and appropriately measured and valued?		
Partly	Government perspective (health and social care) was taken; the costs of unpaid care and out-of-pocket	
-	expenditure were not included; we did get additional information on the costs of unpaid care from the author of this	

	study which we included in the evidence table. It was not clear whether all voluntary services were included.	
	Outcomes to carers were not captured in this analysis.	
General conclusion		
The study provided relevant data to answer some aspects of cost-effectiveness for different home care packages. However, applicability was		
restricted because findings were not presented specifically for older people. The design of the study and implementation challenges meant that the		
evidence on outcomes referred to people who did not use individual budgets; the study was an evaluation of a national pilot that faced		
implementation challenges and this influenced the applicability of findings.		
Section 2: Study limitations (t	the level of methodological quality)	
This checklist should be used once it has been decided that the study is sufficiently applicable to the context of the social care guidance[a].		
2.1 Does the model structure	adequately reflect the nature of the topic under evaluation?	
Not applicable	This was a cost study conducted alongside a randomised trial.	
2.2 Is the time horizon sufficient	ently long to reflect all important differences in costs and outcomes?	
No	No, the time horizon was insufficient because individual budgets had not been implemented for all service users at	
	the six month interview so that not all important differences in costs could be captured.	
2.3 Are all important and relevant outcomes included?		
Partly	See section 1.5	
2.4 Are the estimates of basel	ine outcomes from the best available source?	
Not applicable	This was a cost study.	
2.5 Are the estimates of relative intervention effects from the best available source?		
Not applicable	This was a cost study.	
2.6 Are all important and relevant costs included?		
Partly	Study took a government perspective and included the costs of health and social care services. However, there	
	were likely to be important costs to individual (such as unpaid care and out-of-pocket expenditure) which were not	
	considered. It was not clear whether all voluntary services were included.	
2.7 Are the estimates of resource use from the best available source?		
Yes	A range of tools were applied to collect information on resource use comprehensively including from support plan	
	records held by local authorities and self-reported service use from questionnaires.	
2.8 Are the unit costs of resources from the best available source?		
Yes	Unit costs for care planning are provided by local authority data and unit costs for other social and health care are	
	taken from recommended national statistics of Personal Social Services and PSSRU Compendium.	
2.9 Is an appropriate incremental analysis presented or can it be calculated from the data?		
Not applicable	This was a cost study.	
2.10 Are all important parame	ters whose values are uncertain subjected to appropriate sensitivity analysis?	
Not applicable	This study only analysed costs as captured through RCT. Analysis of differences in costs between the two groups	
	was carried out appropriately through multivariate analysis, independent t-test, Analysis of Variance (ANOVA), and	

	Generalised Linear Models (GLM).		
2.11 Is there any potential conflict of interest?			
No	Although this study was funded by the Department of H	lealth and was a national evaluation of a government	
	programme, the researchers were independent (from d	lifferent university-based research departments) so that it	
	was overall unlikely that the findings were compromised by conflict of interests.		
2.12 Overall assessment			
Minor limitations: The study was an overall relatively robust large study based on a RCT design and had an overall relatively high reporting quality.			
APPENDIX C: COMPLETED	METHODOLOGY CHECKLISTS: ECONOMIC EVALU	ATIONS	
Study identification: Montgon	nerv P. Mavo-Wilson E. Dennis J A et al. (2008) Persona	al assistance for older adults (65+) without dementia.	
Cochrane Database of System	atic Reviews: Reviews 2008; Issue 1.	(
Guideline topic: Home care, C	Dider People		
Economic priority area: Care	planning approaches	Q: 2.1	
Checklist: Section 1			
Yes/No/Partly/Not applicable	Detail		
1.51s the study population ap	opropriate for the review question?		
Partly	Older people 65+ requiring help to perform activities of	daily living (ADLs). It was reported that they had higher	
	needs than average home care users.		
1.6 Are the interventions appropriate for the review question?			
Partly	Interventions (personal assistants) referred to high inte	nsity home care only; the comparison groups in studies	
	varied from 'usual care' to nursing home care and 'clus	ter care'; there was no study which included more than one	
	comparison group.		
1.3 Is the current social care system in which the study was conducted sufficiently similar to the current UK social care context?			
No	All studies on which results were reported originated from directly comparable to the UK. In addition, only one stu	om the US which has an insurance based system that is not dy (Carlson, 2007) was of a more recent date.	
1.4 Are the perspectives clearly stated and what are they?			
Partly	Studies took different perspectives. Only one study (Sh perspective and included the costs of unpaid care. The perspective of the insurance company. The other two s provided.	erwood, 1983) reported a comprehensive government most recent study (Carlson, 2007) took a narrow tudies only reported charges or hours of assistance	
1.5 Are all direct effects on individuals included			
Yes	A wide range of health and wellbeing outcomes were re (Carlson et al. 2007).	eported; including outcomes to informal carers by one study	

1.6 Are all future costs and outcomes discounted appropriately?			
Partly	It appeared that discounting was not necessary because of short-term time horizons but in order to come to a final conclusion the original studies would need to be checked.		
1.7 How is the value of effects	ts expressed?		
	A range of different natural units were used.		
1.8 Are costs and outcomes f valued?	from other sectors (including the value of unpaid care, where relevant) fully and appropria	ately measured and	
No	One study of an old date measured a comprehensive range of costs (Sherwood 1983); not clear whether this was done appropriately but the source is also old and findings were thus of very line to the source is also old and findings were thus of very line to the source is also old and findings were thus of very line to the source is also old and findings were thus of very line to the source is also old and findings were thus of very line to the source is also old and findings were thus of very line to the source is also old and findings were thus of very line to the source is also old and findings were thus of very line to the source is also old and findings were thus of very line to the source is also old and findings were thus of very line to the source is also old and findings were thus of very line to the source is also old and findings were thus of very line to the source is also old and findings were thus of very line to the source is also old and findings were thus of very line to the source is also old and findings were thus of very line to the source is also old and findings were thus of very line to the source is also old and findings were thus of very line to the source is also old and findings were thus of very line to the source is also old and findings.	ar from this review mited use.	
General conclusion			
Limited application of this study	y to review question mainly because studies were from the US and only one was of recent date.		
APPENDIX C: COMPLETED	METHODOLOGY CHECKLISTS: ECONOMIC EVALUATIONS		
Study identification: Netten A 409	A and Forder J (2007) The costs of what? Measuring services and quality of care. Social Policy and	nd Society 6:397-	
Guideline topic: Home care, C	Older People		
Economic priority area: Care	Economic priority area: Care planning approaches Q: 2.1 parts 1 and 2		
Checklist: Section 1			
Yes/No/Partly/Not applicable	Detail		
1.7 Is the study population ap	opropriate for the review question?		
Yes	Older people who used home care with some overrepresentation of those who used intensive to consideration was given to specific sub groups.	nome care; no	
1.8 Are the interventions appr	ropriate for the review question?		
Partly	Intensities of home care were compared to identify the optimal intensity (cost) of home care for different levels of need but the findings do not differentiate between home care approaches or to for home care.	individuals with types or components	
1.3 Is the current social care system in which the study was conducted sufficiently similar to the current UK social care context?			
Partly	Data sources were from the UK (England) but were not of recent date. There was no further detail about the source of unit cost data so that it was not clear to which price level the study referred to.		
1.4 Are the perspectives clearly stated and what are they?			
No	The perspective reflected the one of the payer for publicly funded home care although this was stated; there was not sufficient detail to understand whether additional Personal Social Service included if they were provided as part of the care packages; the impact on other government co care, health care) was not considered. Costs to individuals in the form of out-of-pocket expendi- care were also not considered.	not specifically s (PSS) were ost (e.g. residential iture and of unpaid	

1.5 Are all direct effects on individuals included		
Partially	Outcome measures captured social care-related quality of life dor	nains (similar to the ones used in ASCOT) and
	data on satisfaction. Mental and physical health outcomes were n	ot captured and outcomes to carers were not
	included.	
1.6 Are all future costs and o	utcomes discounted appropriately?	
Not applicable	Time periods of the survey were not specifically stated but finding	s were presented per week so that discounting
	was probably not necessary.	
1.7 How is the value of effects expressed?		
Partly	The study explored the use of capacity to benefit weights (as a ne	ew measure of utility). This reflected a new
	approach that still required further validation so that values of effe	cts need to be interpreted with care.
1.8 Are costs and outcomes from other sectors (including the value of unpaid care, where relevant) fully and appropriately measured and		
valued?		
No	Costs only refer to home care and wider outcomes (health, menta	I health) and outcomes to carers were not
Concreteon		
General conclusion		
This study was concerned with developing a new approach for estimating welfare gain from government expenditure in social care; this study		
design was limited in its usefulness for our review question. The study had limited applicability for the review question.		
APPENDIX C: COMPLETED METHODOLOGY CHECKLISTS: ECONOMIC EVALUATIONS		
Study identification: PSSRU	Study identification: PSSRU (2014) Technical report for NICE Home care Guideline development [unpublished]	
Guideline topic: Home care,	Older People	
Economic priority area: Care planning approaches Q: 2.1 parts 1 and 2		

Economic priority area: Car	e planning approaches	Q: Z. I parts T and Z
Checklist: Section 1		
Yes/No/Partly/Not	Detail	
applicable		
1.9 Is the study population appropriate for the review question?		
Yes	The study focused on older people (above 65) using social care of which the homes and approximately 60% were using publicly funded home care or persolder people with different needs and characteristics (including cognitive impadid not include self-funders.	vast majority were living in their own conal assistant services; sub groups of irment) were considered. The study
1.10 Are the interventions appropriate for the review question?		
Partly	The study examined different care planning or delivery approaches and compo- being one of them) and explored how home care interacted with other services broader than home care itself and looked at how home care operated in the oplanned as part of a care package and provided at the person's home or in the	onents of care packages (home care s. So the scope of this study was context of other social care services e community. The study looked at

	home care packages as they were provided in a sample of English councils (including varies gualities and practices).	
1.3 Is the current social car	e system in which the study was conducted sufficiently similar to the current UK social care context?	
Partly	The study was UK (England) based and took place between	
, ,	2005 and 2007.	
1.4 Are the perspectives cle	early stated and what are they?	
Partly	It is stated that the perspective is a public sector one and considered health and social care costs. It is likely that this	
-	captured the public sector perspective adequately for this particular population. Wider societal perspective was not	
	considered.	
1.5 Are all direct effects on	individuals included	
Partly	Two standardised outcome tools were used: One was the General Health Questionnaire which measured	
	psychological wellbeing and the second one was the Adult Social Care Outcomes Toolkit which is a comprehensive	
	measure of social care-related quality of life; outcomes were confounded for a range of personal characteristics and	
	needs; effects on carers were not considered; the time horizon was too short to capture all important effects.	
1.6 Are all future costs and outcomes discounted appropriately?		
Yes	Discounting was not necessary because costs and outcomes were only measured over a period of 6 to 12.	
1.7 How is the value of effect	cts expressed?	
Yes	In natural units.	
1.8 Are costs and outcomes from other sectors (including the value of unpaid care, where relevant) fully and appropriately measured and		
valued?		
Partly	It is likely that public sector costs were captured adequately. However, unpaid care costs were not considered and	
	this was likely to be an important cost factor. Furthermore, long- term aspects such as potential impact of home care	
	on the risk of care home admission and associated costs cost of care home were not be captured due to the short-	
	term time horizon.	
General conclusion		
This study is applicable to the review question with some limitations.		
Section 2: Study limitations (the level of methodological quality)		
This checklist should be used once it has been decided that the study is sufficiently applicable to the context of the social care guidance[a].		
2.1 Does the model structur	re adequately reflect the nature of the topic under evaluation?	
Yes	Production and cost functions inferred the counterfactual effect on outcome and/or cost of home care (or one	
	particular approach to home care) using multiple regression methods; the influence of a wide range of variables	
	(personal characteristics, needs, other service use) were considered.	
2.2 Is the time horizon suffi	ciently long to reflect all important differences in costs and outcomes?	
No	The time horizon was insufficient because individual budgets had not been implemented for all service users at	
	the 6 month interview so that not all important differences in costs and effects could be captured. The cost	
	effectiveness of different home care approaches might be influenced by the impact it had on care home	

	admission and mortality which would require a longer time horizon.	
2.3 Are all important and relevant outcomes included?		
Partly	See section 1.5	
2.4 Are the estimates of bas	2.4 Are the estimates of baseline outcomes from the best available source?	
No	Baseline outcomes were not measured.	
2.5 Are the estimates of relative intervention effects from the best available source?		
Yes	Estimates of effects were derived from RCT data.	
2.6 Are all important and re	levant costs included?	
Partly	Study took a government perspective and included the costs of health and social care services. However, there were	
	likely to be important costs to individual (such as unpaid care and out-of-pocket expenditure) which were not	
	considered.	
2.7 Are the estimates of resource use from the best available source?		
Yes	A range of tools were applied to collect information on resource use comprehensively including from records and	
	self-reports.	
2.8 Are the unit costs of res	ources from the best available source?	
Yes	Unit costs for care planning were provided by local authority data and unit costs for other social and health care were	
	taken from recommended national statistics of Personal Social Services and PSSRU compendium for unit costs in	
	health and social care.	
2.9 Is an appropriate incremental analysis presented or can it be calculated from the data?		
Yes	Incremental analysis was carried on the GHQ, which was significantly (positively) influenced by home care.	
2.10 Are all important parameters whose values are uncertain subjected to appropriate sensitivity analysis?		
Not applicable	Sensitivity analysis was not applicable but all values were reported with their statistical significance (p-values).	
2.11 Is there any potential conflict of interest?		
No	The study was carried out by PSSRU as part of the economic review work for the National Collaborating Centre for	
	Social Care.	
2.12 Overall assessment		
Minor limitations: the study was an overall relatively robust analysis of the data; conclusions were limited mainly because outcomes were only		
assessed at one time point and there were some problems because data had been collected using varied sources.		

Study identification: Windle K, Wagland R, Forder J et al. (2009) National Evaluation of Partnerships for Older People Projects: Final Report.		
PSSRU Discussion Paper 2700, University of Kent.		
Guideline topic: Home care, Older People		
Economic priority area: Emotional and social support interventions Q:1.1.1, 2.1.1, 2.1.2, 2.2		
Checklist, Section 1: Applicability (relevance to specific guideline review question(s) and the NICE reference case) This checklist should be used		
first to filter out irrelevant studies.		
Yes/No/Partly/Not applicable/	Detail	
Unclear		
1.11 Is the study population	appropriate for the review question?	
Yes	Vast majority were older people above the age of 65 years with a mean age of 75 years. Cost-effectiveness results	
	were not presented by different sub groups of service users but qualitative analysis explored barriers for certain sub	
	groups such as black and minority ethnic groups.	
1.12 Are the interventions a	ppropriate for the review question?	
Partly	The study evaluated a wide number of different projects, two thirds of which were 'community facing' and a large	
	proportion of those (n=16), were projects that provided emotional and social support	
1.3 Is the current social care system in which the study was conducted sufficiently similar to the current UK social care context?		
Yes	The study was carried out in a large number (n=29) of localities in England; the study was carried out 5 years ago; it	
	is unlikely that political changes would affect the findings that relate to this type of support.	
1.4 Are the perspectives clearly stated and what are they?		
Partly	The study captured outcomes to individuals; costs of the intervention (government perspective) as well as impact on	
	wider resource use relevant to the government perspective was captured; although not all costs were incorporated	
	into the final cost effectiveness results. Costs to the individual (for example in the form of out-of-pocket expenditure)	
	were not captured.	
1.5 Are all direct effects on in	dividuals included	
Partly	Health outcomes to individuals were captured through different questionnaires including the EQ-5D. A much wider	
	range of outcomes were examined outside of the cost-effectiveness analysis including service users' satisfaction and	
	carers' outcomes. Questionnaires on health outcomes used for the cost-effectiveness analysis were applied at two	
	time points capturing the change in effects over three to six months; it is possible that effects might increase or	
	decrease after this time.	
1.6 Are all future costs and ou	Itcomes discounted appropriately?	
Not applicable	Costs and outcomes were captured over a period of less than 12 months.	
1.7 How is the value of effects	s expressed?	
Yes	Utility measured via the EQ-5D.	

1.8 Are costs and outcomes from other sectors (including the value of unpaid care, where relevant) fully and appropriately measured and		
valued?		
Partly	The CSRI was applied to capture a wide range of public service use. However, final cost effectiveness results only	
	reflect health outcomes to individuals and costs to the local authorities for paying the support and cost savings to the	
	NHS linked to a reduction in emergency bed days in localities in which the projects were running. The value of	
	unpaid care was captured but carers' outcome were explored outside the cost-effectiveness analysis.	
General conclusion		
Broadly applicable.		
Section 2: Study limitations (a	the level of methodological quality)	
This checklist should be used o	nce it has been decided that the study is sufficiently applicable to the context of the social care guidance[a].	
2.1 Does the model structure	adequately reflect the nature of the topic under evaluation?	
Not applicable	This was an evaluation study.	
2.2 Is the time horizon sufficient	ently long to reflect all important differences in costs and outcomes?	
Partly	See section 1.5. It is possible that effects could increase or decrease after the time period that was captured; costs of	
	running the projects were captured over several years which appeared to be an appropriate time period to capture	
	the costs of running the different projects (some of which took some time to be set up).	
2.3 Are all important and relev	vant outcomes included?	
No	See section 1.5. In addition, the effects emotional and social support was not well captured with the EQ-5D and it	
	would have been beneficial to have a tool that captured psychological wellbeing (for example, using the GHQ).	
2.4 Are the estimates of base	ine outcomes from the best available source?	
Yes	Outcomes were assessed at baseline.	
2.5 Are the estimates of relati	ve intervention effects from the best available source?	
Yes	Relative intervention effects were derived from a national health survey and longitudinal study and appropriate detail	
	of the method and limitations are provided.	
2.6 Are all important and relevant	vant costs included?	
Partly	See section 1.4	
2.7 Are the estimates of resource use from the best available source?		
Partly	The sources are appropriate: The Client Service Receipt Inventory (CSRI) was applied to capture resource use;	
	projects' costs were derived from activity and budget data and emergency bed use was calculated from a	
	comparison between sites that did and did not participate in the study. However, there were problems in collecting	
	the data and this led to substantial limitations in the final estimates.	
2.8 Are the unit costs of reso	urces from the best available source?	
Yes	National tariff 08/09 and PSSRU Unit costs for health and social care 2006 and 2008.	
2.9 Is an appropriate incremental analysis presented or can it be calculated from the data?		
Yes	The incremental cost effectiveness ratio is presented using the QALY and findings are presented for different	

	willingness-to-pay thresholds.	
2.10 Are all important parameters whose values are uncertain subjected to appropriate sensitivity analysis?		
Yes	Sensitivity analysis is carried for a wide range of willingness-t	o-pay thresholds and estimates for emergency bed
	days.	
2.11 Is there any potential co	2.11 Is there any potential conflict of interest?	
No	The research was a national evaluation of government pilot p of interest and funded by the Department of Health; the resea	rogramme which could potentially lead to some conflict archers were, however, from independent research
	institutions.	
2.12 Overall assessment		
Minor limitations: the study dea	sign had some limitations (which were reflected in data collectio	n problems) and an overall high reporting quality; the
findings can be used to inform	cost-effectiveness recommendations.	
A	PPENDIX C: COMPLETED METHODOLOGY CHECKLISTS: E	ECONOMIC EVALUATIONS
Study identification: Woolham J and Benton C (2012) The costs and benefits of personal budgets for older people: Evidence from a single local		
authority. British Journal of Social Work 1-20.		
Guideline topic: Home care, Older People		
Economic priority area: Care	Economic priority area: Care planning approaches Q: 2.1	
Checklist: Section 1		
Yes/No/Partly/Not applicable	Detail	
1.13 Is the study population appropriate for the review question?		
Partly	The study covered different care groups but most findings we	re presented specifically for older people (above 65yrs);
	no further sub groups within the group of older people were c	onsidered.
1.14 Are the interventions appropriate for the review question?		
Partly	The study examined the cost-effectiveness of personal budge	ets compared to 'traditional' arrangements: no detail was

1.5 Are all direct effects on individuals included

1.4 Are the perspectives clearly stated and what are they?

not considered.

Partly

Partly

Partly	Two outcomes measures were applied which captured abilities of daily living and psychological wellbeing; wider
	aspects of social care such as social support, control, occupation were not captured; impact on carers was not

provided on the type of home care or care packages that older people were using.

The study was carried out in one London local authority only was of a recent date.

The perspective was not specifically stated; costs only included those that occurred to the local authority for adult

social care services. Costs to individuals (including carers) or other government departments (such as health) were

1.3 Is the current social care system in which the study was conducted sufficiently similar to the current UK social care context?

	measured; outcomes were only measured at one point in time and it was not clear how long individuals had been	
	using their budget for so that it is difficult to say whether all direct effects had been captured.	
1.6 Are all future costs and outcomes discounted appropriately?		
Yes	Discounting was not applied because of short-term perspective; cost data refer to a year or less and data on	
	outcomes were evaluated at one time point.	
1.7 How is the value of effects expressed?		
Yes	Natural units: GHQ-12, abilities of daily living.	
1.8 Are costs and outcomes from other sectors (including the value of unpaid care, where relevant) fully and appropriately measured and		
valued?		
No	Only costs to the local authority in the form of adult social care costs were included; costs to other government	
	departments, the costs of unpaid care and out-of-pocket expenditure were not included; it is not clear whether all	
	voluntary services were included; outcomes to carers were not captured in this analysis.	
General conclusion		
The study was not sufficiently applicable to the review question mainly because the questions did not provide detail on home care and care packages		
and only captured costs from an adult social care perspective. Findings can only indirectly be used to inform recommendations under the scope more		
generally.		

Home Care Review question 6.1

Completed methodology checklists: economic evaluations

What elements of telecare that could be used in planning and delivering home care are effective in improving outcomes for people who use services and their carers?

Study identification: Beale S,	Study identification: Beale S, Sanderson D, Kruger J (2009) Evaluation of the Telecare Development Programme: Final report. Edinburgh: Joint	
Improvement Team, produced for the Scottish Government		
Guideline topic: Home care, Older People		
Economic priority area: Telecare Q: 2.5.1		
Checklist, Section 1: Applicability (relevance to specific guideline review question(s) and the NICE reference case) This checklist should		
first to filter out irrelevant studies.		
Yes/No/Partly/Not	Detail	
applicable/Unclear		
1.15 Is the study population	appropriate for the review question?	
Partly	Vast majority (about 85%) were older people; no further detail was presented on characteristics or sub groups; or	
	representativeness of sample with study population.	
1.16 Are the interventions a	ppropriate for the review question?	
Partly	The intervention referred to telecare as provided as part of a national programme; most individuals were provided	
	with telecare for the first time, whilst about a quarter of them used already some form of telecare (such as alarm	
	systems) and were provided with more enhanced types of telecare. The analysis only refers to telecare overall and	
	no further distinction is made between the different types of telecare.	
1.3 Is the current social care system in which the study was conducted sufficiently similar to the current UK social care context?		
Yes	The study was carried with 32 Scottish partnership and is of fairly recent date.	
1.4 Are the perspectives clearly stated and what are they?		
Not applicable	This study aimed to estimate potential cost savings to the health and social care budgets; it did not incorporate the	
	costs of telecare and is limited to categories of service outcomes that were thought to be influenced by telecare.	
	The perspectives of service users and carers are incorporated through a survey on self-perceived health and	
	wellbeing outcome; costs to individuals were not considered.	
1.5 Are all direct effects on individuals included		
No	Service user and carers outcomes are collected via questionnaires by the different partnerships; sometimes the	
	questionnaires were sent out and a few partnerships decided to include them in their routine data monitoring; the	
	study did not track the questionnaires sent out so that it is not possible to come to conclusions about	
	representativeness of the results on effects. Positively, most users had been using the telecare intervention for at	
	least a number of months by the time they filled in the questionnaire. However, outcomes were not captured	
	comprehensively through standardised tools so that it is unlikely that health and wellbeing effects to individuals	
	were captured adequately. The weakness of the study design makes it less likely that any observed changes in	
	effects could be linked to the use of telecare.	

1.6 Are all future costs and outcomes discounted appropriately?		
Not applicable	The time period relates to 12 months only.	
1.7 How is the value of effects	s expressed?	
No	Natural units.	
1.8 Are costs and outcomes f	rom other sectors (including the value of unpaid care, where relevant) fully and appropriately measured and	
valued?		
No	Some self-perceived carers' outcomes were included but the evaluation design for collecting costs and outcomes	
	was generally inappropriate (section 1.4, 1.5.).	
General conclusion		
Insufficiently applicable.		
APP	ENDIX C: COMPLETED METHODOLOGY CHECKLISTS: ECONOMIC EVALUATIONS	
Study identification: Clifford P,	Padda K, Brown O et al. (2012) Investing to save: Assessing cost-effectiveness of telecare. FACE Recording and	
Measurement Systems Ltd.		
Guideline topic: Home care, Old	der People	
Economic priority area: Teleca	re Q: 2.5.1	
Checklist, Section 1: Applicability	ity (relevance to specific guideline review question(s) and the NICE reference case) This checklist should be used	
first to filter out irrelevant studies		
Yes/No/Partly/Not	Detail	
applicable/Unclear		
1.17 Is the study population a	appropriate for the review question?	
Partly	The study population was older people of which 72 per cent were female. There were no further characteristics	
	provided (age, ethnicity, etc.) and from which councils the data were drawn from. A distinction is made between	
	different needs including severities of needs and a table provides further information about different long term	
	conditions, with arthritis being the most prevalent and most likely group to benefit from telecare followed by	
	diabetes (which appears to indicate greater potential savings for these groups.	
1.18 Are the interventions ap	propriate for the review question?	
Partly	It is only stated that telecare solutions were provided and no further detail about the type of telecare.	
1.3 Is the current social care sy	stem in which the study was conducted sufficiently similar to the current UK social care context?	
Yes	The study was carried out in the UK and was of recent date.	
1.4 Are the perspectives clearly	y stated and what are they?	
Not applicable	This study is a cost savings study which looks at savings to councils from a social care budget perspective. Cost	
	savings are estimated based on valuing unpaid care following a replacement cost approach assuming that if	
	telecare were not provided that this would have been replaced with some form of social care.	

Not applicable	This study measured cost savings only.
1.6 Are all future costs and outcomes discounted appropriately?	
Not applicable	The study estimated weekly cost savings.
1.7 How is the value of effects	expressed?
Not applicable	The study measured cost savings only.
1.8 Are costs and outcomes from	om other sectors (including the value of unpaid care, where relevant) fully and appropriately measured and
valued?	
No	This study does not evaluate costs and outcomes; instead it looks at potential cost savings based on estimated differences in case record scores of need and restrictions for the same individuals with and without telecare. It then assigned monetary values to those changed scores: (1) social care budgets and (2) other cost savings from reduced impact on unpaid care (valued following a replacement method); whilst (1) the detail of the numbers and calculations are not presented and (2) the calculations are based on many assumptions. It is not possible to confirm the correctness of the calculations based on the findings that are presented; often additional detail would have been required and there are inconsistencies in the reported data. For example it is not possible to assess the estimated change in weekly budgets with and without telecare (before other cost savings are considered). This figure could have been used as a more robust, minimum estimate.
General conclusion	
The study is insufficiently applicable mainly due: type of study (no comparison group), low reporting quality and lack of detail on the intervention.	

Study identification: Henderson C, Knapp M, Fernández JL et al. (2014) Cost-effectiveness of telecare for people with social care needs: The		
Whole Systems Demonstrator cluster randomised trial. Age and Ageing 0:1-7		
Guideline topic: Home care, Older People		
Economic priority area: Telecare Q: 2.5.1		
Checklist, Section 1: Applicability (relevance to specific guideline review question(s) and the NICE reference case) This checklist should be		
first to filter out irrelevant studies.		
Yes/No/Partially/Not applicable/	Detail	
Unclear		
1.19 Is the study population a	appropriate for the review question?	
Partly	The study population included individuals with social care needs. It is not specifically stated that the study	
	population were only older people, but average age was 74 years and only a small proportion (23%) were under	
	65 years; some people with cognitive impairment were excluded from this trial (if they had been assessed as not	
	being able to complete the questionnaire on their own). As noted by the authors themselves as a study limitation,	
	there was no differentiation in this paper between users with certain characteristics although it was likely that	
	some groups benefitted more (e.g. those with greater willingness to use telecare) and others were likely to be	
	linked to higher costs (e.g. those that may require additional support).	
1.20 Are the interventions ap	propriate for the review question?	
Partly	The intervention was a second generation telecare package plus standard care and the comparison was	
	standard care; standard care in both arms included first generation telecare. There is currently no established	
	alternative best practice so that the choice of interventions seems appropriate. Further detail would be required in	
	particular in regards to the kind of support that was provided to support individuals and carers in using telecare in	
	order to come to conclusions about generalizability to telecare more broadly. Furthermore, generalizability of	
	findings could be restricted – as the authors concede – due to different assessment practices of local authorities	
	which influences the type of telecare package that gets implemented. However, considering it was a multi-centre	
	study it is likely that the same practice is applied in at least some areas in England.	
1.3 Is the current social care system in which the study was conducted sufficiently similar to the current UK social care context?		
Yes	The study was carried out in different English localities and is of very recent date.	
1.4 Are the perspectives clearly	1.4 Are the perspectives clearly stated and what are they?	
Partly	It is stated that the perspective is of the health and social care sector. This public sector perspective has clear	
	limitations: As noted by the authors themselves, other potentially important costs such as those born to the	
	individuals and their families in the form of charges or for privately purchased equipment as well as the costs of	
	unpaid (informal) care were not included.	

1.5 Are all direct effects on individuals included			
Partly	In this paper only health outcomes measured via the EQ-5D were considered. The choice of outcome measure/tool is justified because it is a comprehensive tool that measures relevant dimensions such as pain, anxiety/depression, self care, usual activities and mobility and has proven validity for use with older people population. However, as the authors note themselves there may be other benefits to the individual and their carers that would be important to consider such as those that relate to wider wellbeing and social care needs. The period of 12 months is appropriate to capture short-to medium term health outcomes; for longer-term outcomes (mortality, care home admission) the authors refer to other research of the same intervention which suggested that these were not affected.		
1.6 Are all future costs and out	comes discounted appropriately?		
Not applicable	The time period relates to 12 months and discounting was not necessary.		
1.7 How is the value of effects	expressed?		
Yes	Value is expressed in units of utility that which are captured through preference-weighted health-related quality of life (via EQ-5D).		
1.8 Are costs and outcomes from	om other sectors (including the value of unpaid care, where relevant) fully and appropriately measured and		
valued?			
Partly	Costs and outcomes to unpaid carers as well as out-of-pocket expenditure to individuals and their families were not considered.		
General conclusion	General conclusion		
The study is broadly (=partially) applicable; generalizability of findings on cost-effectiveness are mainly restricted by a lack of analysis of inter-			
individual differences and the exc	ndividual differences and the exclusion of costs and outcomes for carers and out-of-pocket expenditure born by the individual.		
Section 2: Study limitations (the level of methodological guality)			
This checklist should be used once it has been decided that the study is sufficiently applicable to the context of the social care guidance[a].			
2.1 Does the model structure adequately reflect the nature of the topic under evaluation?			
Not applicable	This was a cost effectiveness study alongside a cluster randomised trial.		
2.2 Is the time horizon sufficiently long to reflect all important differences in costs and outcomes?			
Partly	See section 1.5. It is possible that certain benefits might accrue after the period of 12 months (including those to unpaid carers). However, the authors do refer to other research on this intervention which showed that long-term outcomes such as mortality or care home admission did not seem affected.		
2.3 Are all important and releva	Int outcomes included?		
No	See section 1.5. There could be potentially adverse effects for certain groups.		
2.4 Are the estimates of baselin	ne outcomes from the best available source?		
Yes	Outcomes were assessed at baseline as part of the trial.		
2.5 Are the estimates of relative	e intervention effects from the best available source?		
Yes	Relative intervention effects taken from the trial.		

2.6 Are all important and relevant costs included?		
Partly	Considered in section 1.4.	
2.7 Are the estimates of resource use from the best available source?		
Yes	The Client Service Receipt Inventory (CSRI) was applied at several time points, through interviews and postal	
	survey.	
2.8 Are the unit costs of resources from the best available source?		
Yes	Unit costs for care planning are provided by local authority data and unit costs for other social and health care are	
	taken from recommended national statistics of Personal Social Services and PSSRU Compendium.	
2.9 Is an appropriate incremental analysis presented or can it be calculated from the data?		
Yes	The incremental cost effectiveness ratio is presented using the QALY and findings are presented for different	
	willingness-to-pay thresholds and cost scenarios.	
2.10 Are all important parameters whose values are uncertain subjected to appropriate sensitivity analysis?		
Yes	The cost of the intervention both in terms of equipment costs and support costs were varied to test impact on	
	findings.	
2.11 Is there any potential conflict of interest?		
No	The research was carried out as part of the Whole System Demonstrator project funded by the Department of	
	Health. The research was carried out by independent researchers from several academic institutions.	
2.12 Overall assessment		
Minor limitations: The study is overall relatively robust study that is based on a RCT design and has overall a relatively high reporting quality.		

Home care review questions 7.1, 7.2

Completed methodology checklists: economic evaluations

What information and support is helpful to people seeking access to home care services?

What information and support should be provided to people who use home care services to enable them to be aware of their options, and play a full role in reviewing their care and making decisions?

Study identification: Windle K, Wagland R, Forder J et al. (2009) National Evaluation of Partnerships for Older People Projects: Final Report.						
PSSRU Discussion Paper 2700, University of Kent.						
Guideline topic: Home care, Olde	r People					
Economic priority area: Information	on and support for people seeking	Q:3 parts 1 and 2				
access to, and receiving home care	9					
Checklist, Section 1: Applicability	(relevance to specific guideline review	v question(s) and the NICE reference case) This checklist should be used				
first to filter out irrelevant studies.						
Yes/No/Partly/Not applicable/	Detail					
Unclear						
1.21 Is the study population ap	propriate for the review question?					
Yes	Vast majority were older people abo	ve the age of 65 years with a mean age of 74 years. Cost-effectiveness				
	results were not presented for differe	ent sub groups of service users; a small number of projects were black and				
	minority ethnic groups specific; quali	tative analysis explored some of the barriers that certain sub groups				
	experienced in particular black and r	ninority ethnic groups (if projects were not specifically targeted at this				
	group).					
1.22 Are the interventions appr	opriate for the review question?					
Partly	The study evaluated a large number	of different projects, two third of which were 'community facing' and a				
	small proportion (n=5) were projects	that provided information, signposting and access. Interventions included				
	those that were provided in a person	's home as part of their care planning or on-going support or those that				
	were provided as drop-in services.					
1.3 Is the current social care sys	tem in which the study was conduc	ted sufficiently similar to the current UK social care context?				
Partly	The study was carried out in a large	number (n=29) of localities in England; however, the study was carried out				
	five years ago and it is possible that	political changes, in particular the introduction of new regulations in this				
	area (i.e. obligation for councils to pr	ovide information to self-funders about home care and care home options)				
	mean that the context in which the st	udy was carried out is less relevant to the current environment.				
1.4 Are the perspectives clearly s	stated and what are they?					
Partly	The study captured outcomes to indi	viduals and costs of the intervention as well as the costs of health and				
	social care. The perspective is thus t	he one of government although this was not specifically stated and not all				
	costs were incorporated into the final cost effectiveness results. In addition, costs to the individual (for example					
in the form of out-of-pocket expenditure) were not captured.						
1.5 Are all direct effects on indivi	duals included					
Partly	Health outcomes to individuals were	captured through different questionnaires including the EQ-5D. A much				
	wider range of outcomes were exam	ined outside of the cost-effectiveness analysis including service users'				

	satisfaction and carers' outcomes. Questionnaires on health outcomes were applied at two time points				
	capturing the change in effects over three to six months: it is possible that effects might increase or decrease				
	after this time				
1.6 Are all future costs and outco	omes discounted appropriately?				
Yes	Discounting was not necessary because costs and outcomes were captured over a period of less than 12				
	months.				
1.7 How is the value of effects ex	pressed?				
Yes	Health utility was measured via the EQ-5D.				
1.8 Are costs and outcomes from	other sectors (including the value of unpaid care, where relevant) fully and appropriately measured and				
valued?					
Partly	The Client Service Receipt Inventory (CSRI) was applied to capture public service use. However, final cost				
	effectiveness results only reflected health outcomes to individuals and costs of the intervention (that accrued to				
	councils) and cost savings to the NHS (linked to a reduction in emergency bed days). The value of unpaid care				
	was not captured; carers' outcomes were evaluated separately (not as part of the economic analysis).				
General conclusion					
Broadly applicable to information ar	nd support services for older people provided as part of home care planning although findings also related to				
other types of information and supp	ort.				
Section 2: Study limitations (the	level of methodological quality)				
This checklist should be used once	it has been decided that the study is sufficiently applicable to the context of the social care guidance[a].				
2.1 Does the model structure ade	equately reflect the nature of the topic under evaluation?				
Not applicable	This was an evaluation study.				
2.2 Is the time horizon sufficiently	y long to reflect all important differences in costs and outcomes?				
Partly	See section 1.5. It is possible that effects could increase or decrease after the time period captured in the				
	analysis; costs of running the projects were evaluated over several years which appeared to be an appropriate				
	time period in order to capture the costs of running the different projects (some of which took some time to set				
	up).				
2.3 Are all important and relevant	t outcomes included?				
No	See section 1.5.				
2.4 Are the estimates of baseline outcomes from the best available source?					
Yes	Outcomes were assessed at baseline.				
2.5 Are the estimates of relative i	2.5 Are the estimates of relative intervention effects from the best available source?				
Yes	Relative intervention effects were derived from a national health survey and longitudinal study, and appropriate				
	detail of the method and limitations were provided.				
2.6 Are all important and relevant	t costs included?				
Partly	See section 1.4				

2.7 Are the estimates of resource	2.7 Are the estimates of resource use from the best available source?				
Partly	The sources were appropriate: The Client Service Receipt Inventory (CSRI) was applied to capture resource				
	use; projects' costs were derived from activity and budget data. In addition, cost savings from a reduction in				
	emergency bed use was calculated from a comparison between study sites and other localities that did not				
	participate in the study. However, there were problems in data collection and only limited data were available to				
	calculate costs.				
2.8 Are the unit costs of resource	es from the best available source?				
Yes	National tariff 08/09 and PSSRU Unit costs for health and social care 2006 and 2008.				
2.9 Is an appropriate incremental	analysis presented or can it be calculated from the data?				
Yes	The incremental cost effectiveness ratio is presented using QALY and findings were presented for different				
	willingness-to-pay thresholds; not all costs were included in the cost-effectiveness findings (see 1.8).				
2.10 Are all important parameters	s whose values are uncertain subjected to appropriate sensitivity analysis?				
Yes	Sensitivity analysis was carried for a wide range of willingness-to-pay thresholds and for estimates of				
	reductions in emergency bed days.				
2.11 Is there any potential conflic	ct of interest?				
No	The research was a national evaluation of government pilot programmes funded by the Department of Health				
	which could potentially lead to some conflict of interest and; the researchers were, however, from independent				
	research institutions.				
2.12 Overall assessment					
Minor limitations: The study design had some limitations (in particular data collection problems) but an overall high reporting quality; with some					
caution the findings can be used to	inform cost-effectiveness recommendations.				

Home care review questions 3.1, 3.2

Economic evidence table

What approaches to home care planning and delivery are effective in improving outcomes for people who use services?

What are the significant features of an effective model of home care?

Forder J, Malley J, Towers AM et al. (2013) Using cost-effectiveness estimates from survey data to guide commissioning: An application to home care. Health Economics 986: 965-986

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Summary.
 tails. Country: United Kingdom. Study type: Cost- effectiveness (utility). Intervention: Home care was measured at different intensities (current intensity ver- sus alternative inten- sities). Control: Comparison group was imputed (see study design). 	 Population: Older people (aged over 65 years) using community-based long-term care services, mainly home care. Study design: Production function/extrapolation method; compares cost- effectiveness ratios at differ- ent intensities of home care. Data sources: National user experience and follow-up survey of older people; ten councils took part in follow- up; N=778, producing 301 (53%) interviews. Sources of effectiveness data: Measure of social care- related quality of life (the ASCOT) included in survey. Sources of resource use data: From survey. Sources of unit cost data: England-average unit costs from NHS Information Centre 	 Outcomes: description and values ASCOT: Total effect at mean intensity (=cost) for all (ADL) needs groups was 0.2, and 0.31 (0.15) for the high (low/moderate) needs group. Costs: description and values England-average unit cost figures were applied to reported service use in the survey. Mean cost of home care (all needs): £96 per week. £33 of those for other services such as day care, meals and equipment. Mean costs for high (moderate/low) needs groups: £159 (£69). 	The ICER at a mean cost was £50,011 for all groups and £53,205 (£35,146) for high (mod- erate/low) needs groups. Optimal provision for all needs groups: £35 per week (lb £15; ub £61) at the £30,000 (£20,000; £40,000) threshold. Optimal provision for high needs groups aver- aged £51 (lb £23; up £90); and £28 (lb £12; ub £49) for low/moderate needs groups. Uncertainty: Bootstrap- ping, Log and square root specification; continuously updated generalised method of moments (CUE) estimator.	 Applicability: Limited applicability. Quality: We did not assess the quality in detail because the study was of limited applicability, however reporting quality was relatively high and the study design appeared strong. Summary: The study did not help to answer the review question but findings could be used to inform the guideline more generally. On request of the GDG we checked national cost data to assess whether values in 2011 prices were still applicable and this was the case.
	2011.			

Gethin-Jones S (2012) Outcomes and well-being part 1: A comparative longitudinal study of two models of home care delivery and their impact upon the older person self-reported subjective well-being. Working with Older People 16: 22-30

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Summary.
 tails. Country: United Kin- gdom. Study type: Evaluat- ion of costs and out- comes. Intervention: Only a general description of outcome-focused and task-based care mod- els in the United King- dom was provided which stated that outcomes were agreed between the social worker and the service user; this in- cluded some choice by the service user about how the given time should be spent. Control: The com- parison was de- scribed as 'task based' and that in- cluded allocated time slots for physical care. 	 Population: Older people aged over 65 years assessed with critical and substantial (physical) care needs. Individuals were excluded from the study if they lacked mental capacity including people with dementia. Mean age: 76.5yrs. Female (n=23) and male (n=17) Study design: No infor- mation provided on how the sample was recruited or any other detail about study de- sign. It is only reported that the sample size consisted in- itially of N=69 participants and the final sample size was reduced to N=40, with IG (n=20) and CG (n=20). Data sources: 40 question- naires applied to collect out- come data (no further detail provided). Information about time spent with service users from coun- cil's finance department for 6 individuals who received care 	 Outcomes: description and values Physical health and wellbeing measured with instruments derived from SF-36 questionnaire: Measure Yourself Medical Outcomes Profile (MYMOP, Paterson, 1996); Measure Yourself Concerns and Wellbeing (MYCW, Paterson et al. 2007). Additional questions were asked on social isolation and service satisfaction. The distribution of physical health problems (measured via MYMOP) is reported as similar between the groups but numbers not provided; the authors concluded that groups were 'comparable'. Authors report a 'strong' link between subjective wellbeing (measured via MYCW) and the type of approach individuals receive; they report that they used statistical analysis (ANOVA); no values were reported. Individuals' concerns (measured through open question via MYCW) were presented and compared in four categories; inability to go out (IG n=10; CG n=10), loneliness (IG n=7; CG n=9), inability to care for self or others (IG n=7; CG=8), other (IG n=5; CG=4). Costs: description and values The mean time spent with service users (from council's finance department) presented in graph form only: IG: circa 28 hours at start and 25 hours at end of intervention period; CG: circa 28 hours at start and 31 hours at the end of period. 	No combined values or explanation to cost ef- fectiveness were pre- sented. The authors concluded that there was an improvement in subjective wellbeing and that the amount of hu- man contact time was greater in the IG (and that this did not lead to a more expensive service).	Applicability: Not applicable. Quality: The study had low quality of re- porting which im- pacted on validity of findings. Summary: Findings of this study cannot be used to inform recom- mendations.

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Summary.
	packages over period of at least 18 months and from time sheets completed by home care workers for 8 indi- viduals (IG n=4; CG n=4).	(derived from time sheets): Allocated time, IG 4hrs (n=2), 3hrs (n=2); CG 4hrs (n=3), 3hrs (n=1); actual time, IG 3hrs (n=2), 4hrs (n=1), 5hrs (n=1); CG 1.5hrs (n=1), 2hrs (n=1), 2.5hr (n=2). It is reported that CG is 17 per cent more expensive (figure provided by finance department, no further de- tail).		

Glendinning C, Challis D, Fernández J et al. (2008) Evaluation of the Individual Budgets Pilot Programme: Final Report. York: Social Policy Research Unit, University of York

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Summary.
Country: United Kingdom. Study type: Cost- effectiveness analy- sis. Intervention: Choice of individual budgets (IB). Control: Standard care (including direct payments).	 Population: People eligible for adult social care; four groups: people with mental health problems, with physical disability, with learning disability, older people. Mean age of older people: 81 years; 66% female; 5% black and ethnic minority groups. Study design: Multi-method including multi-site RCT de- sign (N=1,336; older people N=263). Source of effectiveness data: RCT at 6 months. 	 Outcomes: description and values N=263 older people completed interviews at 6 months The following outcome tools were applied: 12-item version of the General Health Questionnaire (GHQ; Goldberg 1992) to capture the psychological wellbeing of service users. A single quality-of-life question using a seven-point scale (Bowling, 1995). Adult Social Care Outcomes Tool (ASCOT; PSSRU) to measure social care related quality-of-life. Questions on satisfaction. GHQ (higher scores indicate worse health): GHQ-12 mean score: IG (n=129) 14.63; p< 0.05, CG (n=107) 13.24% scoring above 4+ on GHQ-12: IG 45% (sd=58) and CG 29% (sd=31); statistically significant 	Across all groups (in- cluding older people): IB marginally less cost-ef- fective than control; cost per incremental change in ASCOT (-£61), cost per incremental change in GHQ (-£12). No domi- nance of IB for ASCOT, QoL, or self-perceived health. Uncertainty measure- ment: Confidence inter- vals and bootstrapping.	Applicability: Broadly applicable with some limitations. Quality: Overall relati- vely high, with some limitations. Summary: This study did not confirm that IB were more cost-effec- tive than other forms of care; the data sug- gested that when older people were given a choice of IB they were more likely to replace home care
	Source of resource use data: RCT (N=139); data	but p-value was not reported.		with personal assis- tants. Findings need

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Summary.
	from local authorities at baseline, self-reported data at 6 months.	ASCOT (higher scores indicate higher level of needs): IG 3.53 (n=126), CG 3.57 (n=97), not significant, p- value was not reported.		to be considered with caution.
	Source of unit cost data: Local authority and national unit costs.	Self-perceived health (higher scores indicate worse self-perceived health): IG 3.20 (n=141), CG 3.01 (n=120), not significant, p- value was not reported.		
		Satisfaction All groups: 47 (49) per cent were extremely or very satisfied with the support planning process (financial arrangements and help they received). Older people were more likely than other groups to express higher satisfaction (significance not reported) but significantly less likely to report that the process had changed their view on what they could achieve in their lives.		
		Costs: description and values Weekly mean cost for care management across all groups was £18 for IG and £11 in the comparison group (CG).		
		 Weekly mean social care cost for older people: IG (n=73) £228, CG £227 (n=66). Home care (IG £57, CG £90). Personal assistance (IG £66, CG £31). Integrated community equipment (IG £29, CG £26). Social worker/care manager (IG £16, CG £10). Meals service (IG £2, CG £2). Supporting people (IG £1, CG £1). Weekly mean <i>health care</i> cost for older people in IG+CG (n=139): £107 (only reported for IG and CG to- gether); this included: 		

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Summary.
		 Inpatient hospital £51. Day hospital £14. Nurse £36. Therapist £2. GP £5. Weekly mean health costs <i>all groups</i> IG £83 CG £59; p<0.05. Yearly mean IB for older people (n=81) £7,860 (n=81); SD £6,030; minimum (maximum) costs £224 (£27,410). 53% (n=44) for mainstream services: mean £5,970, SD £5,350. 41% (n=33) for personal assistance: mean £7,590, SD £6,680. 15% (n=12) for leisure activities: mean £1,800, SD £2,770. 		

Jones K, Netten A, Fernández JL et al. (2012) The impact of individual budgets on the targeting of support: findings from a national evaluation of pilot projects in England. Public Money & Management 32: 417-424

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Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Costs.	Summary.
Country: United Kingdom. Study type: Cost analysis. Intervention: Choice of Individual Budgets (IB). Control: Standard care (including direct payments).	 Population: People eligible for adult social care; four groups of service users: people with mental health problems, with physical disability, with learning disability, older people. Mean age of older people 81 years, 66% female, 5% Black and Ethnic Minority groups. Study design: Multi-method, including multi-site RCT; (N=888; Older people N=139). Source of effectiveness data: Not applicable. Source of resource use data: Questionnaire applied in interviews with service us- ers at 6 month, data from councils in particular support plan records. Source of unit cost data: Council provided unit cost; PSSRU compendium on unit costs for health and social care (PSSRU, 2007). 	 Outcomes: description and values Reported in Glendinning et al 2008 (see above). Costs: description and values Measured were: Support packages and social care costs at baseline including recurrent annual figures and one-off pay- ments (IG+CG). Support plan records (IG): total cost estimated by summing the total funding of services and support as per record. Resource use (IG+CG): service use, including NHS and use of funding streams other than social care. Care management, IG (n=268) £18/wk.; CG (n=250) £11/wk., p<0.001; Cost of care/support packages (so- cial care) £228/wk., CG £227/wk.; included in this were home care IG £37/wk., CG £70/wk., p<0.001 and per- sonal assistants IG £100/wk., CG £52/wk., p<0.001. It was reported that older people used significantly less services compared to other groups; this finding was consistent with annual reported personal social services (PSS) expenditure. Existence of informal carer did not have significant impact on the level of support. INSERT- additional information from the lead author: An additional £579 per week was estimated for the unpaid hours spent by carers supporting service users in the IB group, compared with £508 in the com- parison group. The cost was estimated by multiplying the hours spent on caring by the hourly rate for ele- 	Weekly costs of care management were on average £7 higher in the IG; overall costs of the support package were almost the same but costs of home care were lower and costs of per- sonal assistants higher in the IG.	 Applicability: Broadly applicable with some limitations. Quality: Overall relatively high, with some limitations. Summary: The data suggested that when people were given a choice of IB they were more likely to replace home care with personal assistants. Costs (including those of unpaid care were slightly higher in IG due to additional costs for care management and unpaid care). Findings need to be considered with caution.

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Costs.	Summary.
		mentary administration and service occupation (New Earnings for England 2007).		
		Stastical analysis: Analysis of differences in costs between the two groups: Multivariate analysis, Independent t-test, ANOVA, GLM.		

Montgomery P, Mayo-Wilson E, Dennis JA et al. (2008) Personal assistance for older adults (65+) without dementia. Cochrane Database of Systematic Reviews: Reviews 2008; Issue 1.

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Comments.
Country: Internatio- nal. Study type: System- atic review. Intervention: Personal assistance defined as paid, long- term support for more than 20 hours per week. Control: Comparis- ons in the four includ- ed studies were usual care (Carlson 2007, Sherwood 1983), nursing homes (Braun 1987), 'cluster care' (Feldman 1996).	Population: Older people (aged over 65 years) living in the community who require assistance to perform tasks of daily living (e.g., bathing and eating) and to participate in normal activities due to permanent impairments. Study design and data sources: One of the included studies was a large RCT (Carlson 2007; N=938) three were non-randomised. Partic- ipants from the four included studies were N=1,642.	 Outcomes: description and values A wide range of outcomes were considered (measured with varies generic and specific tools; preference was given to validated tools): A wide range of health and quality of life outcomes (including mortality). User satisfaction. Participation in activities. Ability to perform activities of daily living. Mental health. Impact on family. Hospitalisation, emergency room visits and need for institutionalisation. Costs (see below). A wide range of values were reported; we only present findings that can inform economic analysis based on criteria for outcome measures (i.e. measured on a standardised scale, quantifiable). Areas with no significant effects (e.g. mortality) are not reported here. 	 None of the studies presented combined cost effectiveness values. The authors concluded that personal assistance: may be preferred over other services; but some people preferred other models of care; probably had some benefits for some recipients and their informal caregivers; that paid assistance might substitute for informal care and cost government more than alternative arrangements; that 	Applicability: Limited applicability. Quality: The system- atic review was a Cochrane review that followed standardised methods for apprais- ing the quality of sin- gle studies; they reported study designs were 'problematic' with risk of bias but that results were generally consistent (+). Summary: No conclu- sive findings whether personal assistants were more cost-effec- tive than other forms

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Comments.
		 Results 'unmet needs': Unmet needs with any activity of daily living, IG 44% (n=467), CG 58% (n=471), p<0.01 (Carlson 2007). Overall unmet needs, range 1 [no need] to 5 [very high need], IG 1.26, CG 2.52, p<0.01 (Sherwood 1983). Results 'physical health': Data on other health outcomes were mixed, suggesting personal assistance might have some beneficial impacts on health but usually not significant with the exception of: Falls IG 13%, CG 20%, p= 0.01 (Carlson 2007); Contractures developed or worsened IG 18%, CG 27%, p<.01 (Carlson 2007). Mean duration spent in hospital or other long-term care setting, IG 34 days, CG 82 days (Sherwood 1983). Results 'mental wellbeing': Emotional health using unvalidated measures, range 1 [very optimistic] to 5 [very pessimistic], IG mean 2.34 CG 2.76, p<.05 (Sherwood 1983). Depression on 20 item scale, the Center for Epidemiologic Studies Depression Scale (CES-D; Sumpton 1987); though data were not included in the report, the authors indicate that cluster care did not affect depressive symptoms (Feldman 1996). Results 'impact on carers'(Carlson 2007): Results 'impact on carers'(Carlson 2007): Results 'impact on carers'(Carlson 2007): Results for caregivers of older adults and non-elderly participants were reported together (N=1,042); caregivers satisfaction with overall care arrangements (IG 	the relative total costs to recipients and society were un- known.	of care but evidence on effectiveness gen- erally supports that the employment of personal assistance could lead to better physical health and wellbeing outcomes for older people using it and improved outcome for their carers. Findings have to be interpreted with caution.

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Comments.
		 52%, CG 32%, p<0.01), emotional strain (IG 42%, CG 49%, p=0.02), feelings that caregiving limited their privacy (IG 41%, CG 51%, p<0.01) or free time (IG 55%, CG 60%, p=0.06), financial strain (IG 30%, CG 39%, p<0.01), wanting work but not seeking employment due to caregiving (IG 34%, CG 44%, p<0.01), absenteeism (IG 54%, CG 66%, p<0.01), physical strain (IG 32%, CG 42%, p<0.01) and negative health outcomes due to caregiving (IG 31%, CG 40%, p<0.01). Results 'adverse effects' (Carlson 2007): There was small risk that caregiver could become more negligent when personal assistants were employed. Costs: description and values Direct and indirect costs (short and long-term) were considered and reported (no further detail available from this source). Personal assistance saved \$5.04 per participant per day compared to treatment as usual; this included the costs for placements, public sector services, community support services and informal care (Sherwood 1983). Increased direct cost to the government (in the study this is the insurance organisation): 1st year IG \$20236, CG \$19407, 2nd year IG \$20015 CG \$17975; wider costs not considered (Carlson 2007). Charges per day were \$28 per day for personal assistance and \$74 per day for nursing home participants (Braun 1987). 		
		• IG received six more nours of assistance per week than CG (Feldman 1996).		

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Comments.
Country: United Kingdom. Study type: Cost- effectiveness/utility. Intervention: Home care at different inten- sities for groups with different levels of ADL/IADL. Control: No control group; counterfactual was imputed based on expected level of need in the absence of the services.	 Population: Older people (>65 years; 33% >85yrs; 73% female; 65% living alone) who used home care (N=384); overrepresentation of older people who used more inten- sive care packages; 40% used additional services in particular day care. Study design: Multi method; based on measuring social care outcomes relevant to home care and projections of costs based on value-for- money principles of Wanless (2006) review. Data sources: A range of ex- isting (national) survey data. Sources of effectiveness data: Data from study which fed into the 'Relative Needs Formula' for allocating central government funding to n=14 local authorities; home care service user experience sur- vey (UES) in England (2003) which provided national satis- faction data of 87,000 older people with social care pro- vided in their home; in addi- tion, more detailed question- naire by 34 local authorities 	 Outcomes: description and values 8 domains of social care (similar to ASCOT); for each domain individuals stated whether this was addressed by their care package and their esti- mated level of need in the absence of this help. Mean estimated Capacity for benefit (CfB) was cal- culated as the difference between outcomes in the absence of social care and the best possible out- comes state. Quality weights were applied to CfB values together with number of weeks of home care provided. Mean CfB for different intensities of home care: 0-2 hrs/wk. (N=50): 1.35 (SD 1.30); 2-5 hrs/wk. (N=87): 1.48 (SD 1.16); 5-10 hrs/wk. (N=103): 1.69 (SD 1.32); 11+ hrs/wk.(N=127): 2.83 (SD 1.77); all hrs/wk. (N=367): 1.99 (SD 1.58) Costs: description and values: Only home care service use data were presented for N=384; 65% (n=240) received low intensity home care (<11hrs/wk.); 35% (n=127) used high intensity home care (11+ hrs/wk.); 28% (n=108) used privately organised home care; 16% (n=24) used meals services; 24% (n=92) used day care; 16% (n=62) used home care together with meals, 23% (n=89) used home care together with day care and meals. 	Cost (gain) of an addi- tional hour of home care from 10 th to 11 th hour per week: £600 per annum (0.044 in standards units); ICER: £14,000. At a cost-effectiveness threshold of £20,000, the following intensities (costs) of home care were cost-effective: • For people with diffi- culties performing ADLs or IADLs home care: up to 8 hrs/wk. • For people unable to perform one ADL or IADL: up to 14 hrs/wk was cost-effective. • For people unable to perform two or more ADL or IADL home care: up to 20 hrs/wk.	 Applicability: Limited applicability. Quality: We did not assess the quality in detail because the study was of limited applicability; this was a new and complex theoretically based study that aimed to develop a new approach for estimating welfare gain from government expenditure in social care; reporting quality was mixed. Summary: The study was of limited applicability and limited relevance of the study design for the purpose of our review question. The findings might be used to inform the guideline more generally.

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Comments.
	covering met needs, service quality and care worker atti- tudes.			
	Data on resource use and unit costs: The study did not provide further detail on how resources were valued.			

Windle K, Wagland R, Forder J et al. (2009), National Evaluation of Partnerships for Older People Projects: Final Report, PSSRU Discussion Paper 2700, University of Kent

Country, study type and intervention de- tails	Study population, design and data sources	Costs: description and values Outcomes: description and values	Results: Cost- effectiveness	Summary
Country: United	Population: N=264,000,	Outcomes: description and values	Cost-effectiveness	Applicability: Par-
Kingdom.	mean age 75 (range 40 to	Health related quality of life (HRQoL) measured via EQ-	results: At willingness-	tially applicable.
	101yrs), female 67%, 81%	5D (includes five health domains: mobility, self-care,	to-pay (WTP) of	
Study type: Cost-ef-	living in their own homes,	usual activities, pain/discomfort, anxiety/ depression),	£30,000, practical sup-	Quality: Some limita-
fectiveness analysis.	majority lived in deprived ar-	measured on 0 to 1, with higher scores indicating better	port and exer-	tions.
	eas; a large proportion (34%)	health.	cise/physical health pro-	
Intervention: Range	of those >85yrs used early		jects had a 99% proba-	Summary: Findings
of low level services	intervention; mean age of	Results across all projects	bility of being cost effec-	indicated that emo-
including emotional	older people using emotional	• Actual change (act.) before counterfactual is imputed	tive.	tional and social sup-
and social support	and social support was	(n=1,320): A small non-significant decrease (t=0)		port probably reduced
(e.g. memory cafes,	74yrs; 77% female; 46% liv-	0.558 (t=1) 0.552 and mean change of 0.006.	No cost-effectiveness re-	anxiety or depression.
counselling, lunch-	ing alone.	• After adjustment (adj.) with counterfactual (n=1,215):	sults presented for emo-	Emotional and social
clubs) rolled out as		A small non-significant increase (t=0) 0.553 (t=1)	tional and social sup-	support was less cost-
part of the national	Study design: Multi-method,	0.5711 and mean change of 0.01794.	port/isolation; the find-	effective compared
Partnerships for Older	case study approach. 29 lo-		ings can, however, be	with other low level
People Projects	cal authorities participated,	Results for emotional and social support/isolation:	summarised as follows:	projects when a ge-
(POPP). Two thirds of	146 local projects, period	• Projects (n=16) that only provided emotional and so-	 Projects (after initial 	neric health measure
the projects were	May 2006 to March 2009.	cial support to individuals (n=244) showed a negative	set up) cost £4/wk. per	was applied. Further

Country, study type and intervention de- tails	Study population, design and data sources	Costs: description and values Outcomes: description and values	Results: Cost- effectiveness	Summary
'community facing' in- cluding emotional and social support, practi- cal help, exercise, and geographical. Control: Counterfac- tual is imputed based on data from the Brit- ish Household panel Survey and Health Survey England (for EQ-5D) and based on data from the Health and Social care Infor- mation Centre (for costs in form of emer- gency bed days).	 Source of effectiveness data: Health-related quality of life questionnaires admin- istered at two time points; 1st prior to the project start and 2nd 3 to 6 months after pro- ject start; N=1,529 (from 62 projects). Source of resource use data: Budget and activity data from projects collected through varies data collection channels. Client Service Receipt In- ventory (CSRI), asked in- dividuals about service use 3 months prior to project (t=0) and three to six months following their con- tact with the project (t=1). Data from Health and So- cial Care Information Cen- tre on emergency bed days. Source of unit cost data: 08/09 NHS tariffs; PSSRU Compendium for Unit costs in health and social care 2006 	 actual (-4%) and adjusted change (-2.6%) in HRQoL. Anxiety and depression scores of the EQ-5D reduced with an increase in individuals not feeling anxious or depressed from 58% to 63% but this was outweighed by increased scores in the other domains. The author concluded that the outcome tool was not suitable for this type of project. Emotional and support projects achieved a greater increase in benefit claims than most of the other projects. Results for practical help (simple aids, grab-rail making washing easier, minor repairs, gardening); n=9 projects, n=119 individuals: Act. (t=0) 0.549 (t=2) 0.579; mean change 0.029; 5% increase. Adj. (t=0) 0.549 (t=2) 0.619; mean change 0.069; 12% increase. Act. (t=0) 0.505 (t=2) 0.531; mean change 0.025; 5% increase. Adj. (t=0) 0.506 (t=2) 0.569; mean change 0.063, 12% increase. Adj. (t=0) 0.506 (t=2) 0.569; mean change 0.063, 12% increase. Adj. (t=0) 0.506 (t=2) 0.569; mean change 0.063, 12% increase. Adj. (t=0) 0.507 (t=2) 0.569; mean change 0.063, 12% increase. Adj. (t=0) 0.507 (t=2) 0.569; mean change 0.063, 12% increase. Adj. (t=0) 0.507 (t=2) 0.569; mean change 0.063, 12% increase. Adj. (t=0) 0.507 (t=2) 0.569; mean change 0.063, 12% increase. Adj. (t=0) 0.507 (t=2) 0.569; mean change 0.063, 12% increase. 	 person. Some reduction in anxiety/stress. Savings from reduc- tion in health services of £30 over 6 months. Small likelihood that there could be ad- verse effects on other health domains. Sensitivity analysis: At WTP of £20,000 prob- ability that exercise/ physical health projects were cost-effective re- duced to 89%.	evaluative research is needed which should also apply measures that capture psycho- logical wellbeing (such as the GHQ).

Country, study type and intervention de- tails	Study population, design and data sources	Costs: description and values Outcomes: description and values	Results: Cost- effectiveness	Summary
	and 2008.	• Adj. (t=0) 0.718 (t=2) 0.744; mean change 0.026; 4% increase.		
		Further investigation showed the reason for the nega- tive actual and only small adjusted change was due to an increase in single domain, 'pain', and a single pro- ject.		
		Costs: description and values Cost of running the project from budget and activity data:		
		 Mean cost per person of projects aimed at primary prevention £4/wk. Mean cost per person of projects aimed at secondary prevention £7/wk. 		
		 This excludes the first year in which not many projects had been set up. Including the first year of operations the mean cost per person rose to £303. Wider service use impact (measured via CSRI) over a mean administration time of 6 months Emotional and social support/isolation: A statically significant reduction in secondary care appointments (p=0.04), leading to a decrease in cost of £52; an increase of GP visits leading to an increase of £22 so 		
		 Exercise/physical health: Reduction in secondary care appointments, leading to a decrease in costs of £126. 		
		emergency bed days were established based on com-		

Country, study type and intervention de- tails	Study population, design and data sources	Costs: description and values Outcomes: description and values	Results: Cost- effectiveness	Summary
		 parison between emergency bed days in the localities where the projects were rolled out versus localities without projects. Saving of primary prevention projects: £0.70 for £1 spent. 		

Woolham J and Benton C (2012) The costs and benefits of personal budgets for older people: Evidence from a single local authority. British Journal of Social Work 1-20.

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Summary.
Country: United Kingdom. Study type: Cost-ef- fectiveness analysis. Intervention: Individ- uals who agreed to try a personal budget.	Population: N=448 individuals from different care groups including n=133 older people. Study design: Comparative; without before/after; IG: n=179, CG: n=371.	 Outcomes: description and values General Health Questionnaire 12 (GHQ 12), higher scores indicating worse psychological health: Significant difference between older and younger people in IG (65yrs +: m=13.36, SD=6.29; <65yrs: m=10.12, SD =6.93, p=0.006); no significant difference between scores for older and younger groups of traditional users (65yrs +: m=14.79, SD=7.38; 	Cost benefit profiles cre- ated through bootstrap- ping; personal budget holders had limited ben- efit but much greater costs compared with us- ers of 'traditional' care.	Not sufficiently appli- cable to the review question mainly be- cause the questions did not provide detail on home care and care packages and only captured costs

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Summary.
Control: 'Traditional' services.	Source of effectiveness data: Self-completion postal questionnaire, at 1 time point. Source of resource use data: Management information system; information on internal day care services from separate database. Source of unit cost data: No	<65yrs: m=13.28, SD=7.37, p=0.092). Activities of Daily Living Scale (ADL): No significant difference between older and younger people in IG (65yrs+: m=12.66, SD=3.13; <65yrs, m=11.77, SD=3.59, p=0.12) but significant difference between older and younger people in CG (>65yrs+: m=13.06, SD 3.84; <65yrs; m=11.93, SD 3.72, p=0.011) for CG. Costs: description and values:	Uncertainty measure- ment: Standard devia- tion and bootstrapping.	from an adult social care perspective. Findings might be used to inform recom- mendations under the scope more generally.
	detail provided. Statistical analysis: Boot- strapping; paired t-test to com- pare differences between older and younger age groups.	Costs were reported for different care group, here only those for older people are presented Reported were mean care package costs per week (pw) which excluded infrastructure costs which the authors defined as the costs of care management (CG+IG) and of advocacy and support service time (IG); for IG: care package cost as per given date 1 st June 2009; some additional assumptions made for previous users of direct payments for CG: weekly mean cost derived from information about home care package, direct payments, supported accommodation and equipment, day care. Older people (65yrs+): IG (n=53) £243pw; CG (n=80) S114 pw		
		People using personal budgets received more money; costs for individuals in IG twice as large as in CG.		

Home Care Review question 6.1

Economic evidence table

What elements of telecare that could be used in planning and delivering home care are effective in improving outcomes for people who use services and their carers?

Beale S, Sanderson D, Kruger J (2009), Evaluation of the Telecare Development Programme, Final report, Joint Improvement Team, produced for the Scottish Government, Edinburg.

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Summary.
Country: United	Population: Included	Outcomes: description and values	Cost-savings results:	Applicability: Insuffi-
Kingdom.	N=7,900 people using tel-	No standardised outcome measurement tools but	No data on the costs of	ciently applicable.
	ecare, vast majority were	questionnaire on different aspects of perceived health	telecare included; costs	
Study type: Cost	(85%) older people, 32 part-	and wellbeing; response rate could not be determined	savings only refer to an	Quality: Major limita-
savings study.	nerships. 74% had used tel-	as it was not known how many questionnaires had been	estimated scope for sav-	tions, including very
	ecare for the first time, 24%	sent out.	ings based on potential	low reporting quality (-
Intervention:	used an enhanced form of		service use reductions:	-).
Telecare solutions	telecare, 2% used telecare	Service users (N=461)		
introduced as part of	provided as part of move to	• Quality of life: increased (61%), no change (35%),	Hospital discharge	Summary: The study
the National Telecare	sheltered housing or similar;	decreased quality of life (5%).	£1.7million; reduced un-	design was not appro-
Development	use of telecare for more than	• Health: improved (27%), no change (55%), worsened	planned hospital admis-	priate and too weak to
Programme.	6 months (48%), 4-6 months	(18%).	sion £3.3million; reduced	allow deriving conclu-
	(22%), 1-3 months (24%),	• In addition, majorities felt safer, more independent,	care home admission	sions about cost-ef-
Control: None.	less than 1 month (6%).	thought their families worried less.	£3.4; reduced night care £0.6million; reduced	fectiveness or cost savings.
	Study design: Cross-sec-	Carers (N=301)	home check visits	
	tional with measurement at	• Stress: much reduced (25%), a bit reduced (49.3%).	£1.8million; other effi-	
	single time point; representa-	increased (4.3%).	ciencies £0.3million; total	
	tives of partnerships were	• Hours of unpaid care: reduced (13.5%), same (73%).	cost savings	
	asked about perceived	increased (13.5%).	£11.2million.	
	change in outcomes, possibly			
	informed by some locally	Costs: description and values		
	available data and guidance	Costs derived from 2007/08 budgets, quarterly values		
	material.	were cumulative so that Q4 presents the estimated an-		
		nual costs saving at the end of 2007/08		
	Source of effectiveness	• Improved hospital discharge: Q1 (n=8) £434.975 Q2		
	data: Service users and car-	(n=13): $f742$ 328: Q3 $(n=16, 17)$ f1 303 189: Q4		
	ers questionnaires sent out	$(n=20, 21) \pm 1.731.944.$		
	by partnerships; time period			

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Summary.
	in which responses were measured not stated. Source of resource use data: Quarterly returns on range of activity and some fi- nancial data, including ser- vice user characteristics and reasons for using telecare, outcomes and efficiency statements; national Costs Book 2007 and 2008 for data on average length of stays to calculate bed days saved where that was not possible based on local data only; ad- ditional information through interviews with practitioners from a smaller number of case study sites (n=5).	 Reduction in unplanned hospital admissions: Q1 (n=7) £156,809; Q2 (n=9) £468,198; Q3 (n=16, 18) £2,017,933; Q4 (n=18, 22) £3,343,467. Reduced use of care homes: Q1 (n=10, 12) £202,827; Q2 (n=14, 16) £708,281; Q3 (n=19, 22) £1,996,109; Q4 (n=23, 26) £3,421,621. Reduced night care: Q1 (n=4) £25,450; Q2 (n=5) £143,900; Q3 (n=8, 9) £355,899, Q4 (n=10, 12) £557,119. Reduction home check visits: Q1 (n=4) £304,810; Q2 (n=5) £937,351, Q3 (n=7) £1,359,306, Q4 (n=10) £1,796,039. Local efficiencies: Q1 (n=1) £200, Q2 (n=0) -, Q3 (n=1) £287,560, Q4 £301,000. 		

Clifford P, Padda K, Brown O et al. (2012), Investing to save: assessing cost-effectiveness of telecare, FACE Recording and Measurement Systems

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Summary.
Country: United Kingdom.	Population: Sample of older people living in their own homes with completed FACE	Outcomes: description and values The study did not evaluate outcomes to individuals and carers but refers to a previously published Scottish	Cost-savings result: The authors applied percentages of savings	Applicability: Not sufficiently applicable.
Study type: Cost savings study.	assessment from eight coun- cils (N=50, female 72%).	study (Beale et al 2009) which demonstrated that ser- vice users felt safer and believed their families were less worried and that carers felt less stress and more	to national budgets per 250,000 people to estimate weekly savings	Quality: Major limita- tions including low re- porting quality (-).

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Summary.
Intervention: Different telecare solutions, no further detail was provided. Control: None.	Study design: Mixed method, based case descrip- tions: case records were scored on items that were expected to change in the presence of telecare; cost savings were then assigned. Source of effectiveness data: Not applicable. Source of resource use data: For budgets estimates, the FACE national RAS model for older people was used which was based on data of over 2000 individuals provided by 20 councils; the model used a standardised assessment of needs and average standard unit costs. In addition, national budget data were used but sources were not stated. Costs of tel- ecare were based on data from the telecare provider (Tunstall) but no further detail was provided.	 peace of mind. Costs: description and values It was reported that weekly budgets were calculated for each individual 'with' and 'without' telecare solution based on an allocation model, of which the author re- ported that it produced estimates largely reflective of actual council costs. The difference in weekly budgets were not reported but it was reported that they were based on the following data: Unit cost: home care (day) £13.6/hr; home care (night) £13.8; residential care £421/wk.; residential care (dementia) £451/wk. Weekly budgets: 'High need' £316; 'Moderate need' £155-£316; 'Low need' £155. Weekly costs of telecare package based on weekly budgets and the costs of telecare were calculated; for the latter calculations were not presented but it was re- ported that costs included monitoring and maintenance costs and that capital costs were spread over five years; the following data were reported: Weekly cost of telecare: high needs £6.08; moderate needs £6.3. Cost of care package without telecare: £167. Furthermore, potential cost savings were estimated to reflect potentially avoided need for other social care services and unpaid care. First, scores were assigned to individuals to assess likely impact on carers: 0 no re- strictions, to 4 severe restrictions; next, assumptions on	to the social care budget per council and found that weekly savings range from £3 million (short-term) to £7.8 million (medium- term). Weekly savings per individual ranged from £29 to £39 for individuals with high needs, and from £6 to £35 for individuals with low needs, and overall from £15 to £39.	Summary: Findings cannot be used to in- form cost effective- ness recommenda- tions.
		strictions, to 4 severe restrictions; next, assumptions on service reductions were made based on some esti-		

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Summary.
		 mated reduction in scoring: 'very severe' to 'severe' was assumed to avoid residential care stay; minimum standard cost of residential care was applied; later on in the report a distinction was made between short- and medium-term scenarios, whereby the short-term scenario assumed that 50% of unpaid care would be replaced by social care package and medium-term residential care was assumed to be provided. 'severe' to 'moderate' was assumed to lead to reduced community-based support, by 50%. 'moderate' to 'mild was assumed to lead to 25% reduction in social care costs. The authors reported an unusually higher number of individuals for which community care cost were higher than residential and applied a cap to 5 of 6 cases (set at the cost of residential care) to adjust for it. Mean costs were presented for the situation with and without telecare: Mean costs overall (N=50): with telecare £166/wk; without telecare (short-term scenario) £181/wk; (medium-term) £205. Mean costs moderate needs (n=34): with telecare £109, without telecare (short-term) £115 (medium-term) £144. 		

Henderson C, Knapp M, Fernández J-L et al. (2014) Cost-effectiveness of telecare for people with social care needs: the Whole Systems Demonstrator cluster randomised trial, Age and Ageing, 0:1-7.

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Summary.
Country: United Kingdom. Study type: Cost- effectiveness analysis. Intervention: 'Sec-	Population: Individuals with social care needs, and their carers, recruited from three English local authorities (=sites); mean age 73.2. Study design: Multi-site pragmatic cluster RCT, N=2,600, IG: 1,276, CG:	Outcomes: description and values N=1,182 (t=0); N=757 (t=1); data available at both time points for n=375 (IG), n=378 (CG). Primary outcome: EQ-5D (for calculating QALYs) IG: 0.321 (SE 0.016) CG: 0.333 (SE 0.016)	Cost-effectiveness re- sult: Cost per additional QALY was £279,000; the probability that telecare was cost-effective was under 16% at a will- ingness-to-pay threshold of £30,000.	Applicability: Par- tially applicable. Quality: Some limita- tions (+); mainly due to lack of sub group analysis.
ond-generation' tel- ecare package in ad- dition to existing so- cial and health care packages (which could include 'first generation' telecare. Control: Existing so- cial and health care package (which could include 'first genera- tion' form of telecare). <i>Explanation:</i> 'Second generation' telecare referred to different types of call centre based monitoring services responding to alarms and sensors with altogether 27	1,324. Source of effectiveness data: Cluster RCT at base- line (t=0) at 12 months (t=1). Source of resource use data: Self-reported units of service use via the Client Service Receipt Inventory (CSRI) at baseline (t=0) and 12 months (t=1). Source of unit cost data: National unit costs from De- partment of Health Reference Costs (2009-10), and PSSRU compendium for health and social care (2010).	 Small, statistically non-significant difference 0.003 (-0.0018, 0.024), standard difference (%): 3.7. Secondary outcomes: Perceived physical and mental health status, psychological wellbeing, state-trait anxiety; outcomes reported in a different study (Hirani et al 2012). Costs: description and values N=1,182 (t=0); N=757 (t=1); data available at both time points for n=375 (IG), n=378 (CG). Cost of intervention: £791 (£710 for support and £81 for equipment). Costs for service use (total excluding telecare) IG: £8,117, SE £558.5 CG: £7,290, SE £531.6 Difference is mainly due to greater use of home care (IG: £42 SE £4.3, CG: £33 SE £3.7), social work and community nursing (difference of 1.6 visits). 	Sensitivity analysis: Different cost and threshold scenarios tested including thresh- olds up to £90,000; inter- vention unlikely to be cost-effective; e.g. when cost/price for support package was reduced to £5 per week and equip- ment costs by 50%, the probability of cost-effec- tiveness still only in- creased to 31%.	Summary: Second- generation telecare was not cost-effective; the study did not ex- plore whether for cer- tain sub groups the in- tervention was cost- effective; also the in- clusion of unpaid care costs might change the findings.

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Summary.
types of devices (mean use: 4.7); 'first generation' telecare referred to community alarms or pull-cords.		Costs for service use (total including telecare) IG: £8,909, SE £559.9 CG: £7,329, SE £532.2 Incremental costs: £1,014 (95% CI £-525, £2,553).		
		It is reported that participants in CG had greater use of 'first generation' telecare at follow-up than at baseline (difference of 13%, p<0.05).		

Home care review questions 7.1, 7.2

Economic evidence table

What information and support is helpful to people seeking access to home care services?

What information and support should be provided to people who use home care services to enable them to be aware of their options, and play a full role in reviewing their care and making decisions? Windle K, Wagland R, Forder J et al. (2009), National Evaluation of Partnerships for Older People Projects: Final Report, PSSRU Discussion Paper 2700, University of Kent.

Country, study type and intervention de-tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Summary.
Country: United Kingdom.	Population: Across projects: N=264,000, mean age 75yrs; female 67%, 81% living in	Outcomes: description and values Health-related quality of life (HRQoL) measured via EQ- 5D (includes five health domains: mobility, self-care,	Cost-effectiveness results: At WTP of £30,000, ISA had 83%	Applicability: Broadly applicable.
Study type: Cost- effectiveness analysis.	their own homes. ISA projects: 5 projects; N=91; mean age 74yrs; fe-	usual activities, pain/discomfort, anxiety/ depression), measured from 0 to 1; higher scores indicating better health.	probability of being cost effective.	Quality: Some limita- tions (+).
Intervention: Range of low level services including 'information, signposting and ac- cess' (ISA) rolled out as part of the national Partnerships for Older People Projects (POPP). Interventions included: a single point of information on social care and health; peripatetic in- formation by home care workers, explor- ing needs and build- ing them into action plans. Control: Counterfactual is imputed based on data from the British	 Study design: Multi-method, case study approach; 29 local authorities participated, 146 local projects, period May 2006 to March 2009. Source of effectiveness data: Health-related quality of life questionnaires administered at two time points; 1st prior to the project start and 2nd 3 to 6 months after project start. Source of resource use data: Budget and activity data from projects collected through varies data collection channels. 	 Results across all projects Non-significant change (p=0.7). Actual change (act.) before counterfactual is imputed (n=1,320): A small non-significant decrease (t=0) 0.558 (t=1) 0.552; mean change of 0.006. After adjustment (adj.) with counterfactual (n=1,215): A small non-significant increase (t=0) 0.553 (t=1) 0.5711 and mean change of 0.01794. Results for ISA (N=91) Non-significant change (p=0.11). Act. (t=0) 0.583 (t=2) 0.604; mean change 0.02; 3.4% increase. Adj. (t=0) 0.583 (t=2) 0.584; mean change 0.001; 0.2% increase. When effects were standardised to a year, a reduced effect was seen. The authors report that more individuals reported deterioration than those who reported improvement. Costs: description and values Cost of running the project from budget and activity 	Sensitivity analysis: At WTP of £20,000 probability that ISA was cost-effective reduced to 75%.	tion findings can be used to inform recommendation; with consideration that costs savings were likely to be lower than the ones stated.

Country, study type and intervention de- tails.	Study population, design and data sources.	Costs: description and values. Outcomes: description and values.	Results: Cost- effectiveness.	Summary.
Household panel Survey and Health Survey England (for EQ-5D) and based on data from the Health and Social care Information Centre (for costs in form of emergency bed days).	 Client Service Receipt Inventory (CSRI), asked individuals about service use 3 months prior to project (t=0) and three to six months following their contact with the project (t=1). Data from Health and Social Care Information on emergency bed days. Source of unit cost data: 08/09 NHS tariffs; PSSRU Compendium for Unit costs in health and social care 2006 and 2008. 	 data: Mean cost per person of projects aimed at primary prevention £4/wk. Mean cost per person of projects aimed at secondary prevention £7/wk. This excluded the first year in which not many projects had been set up. Including the first year of operations the mean costs per person were £303. Wider service use impact (measured via CSRI): Not presented for ISA (projects were subsumed under categories of secondary prevention). In addition, resource use in the form of changes in emergency bed days were established based on comparison between emergency bed days in the localities where the projects were rolled out versus comparison localities: Saving across primary and secondary prevention: at least £1 for £1 spent. Additional research on some of the projects that applied a different method of imputing the counterfactual found that savings had been overestimated (Steventon et al 2011) 		