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research article

The economic contribution of third sector initiatives for older people: a systematic review and development of a framework for evaluation

Francesca Caló, francesca.calo@open.ac.uk
The Open University, UK

Marissa Collins, marissa.collins@gcu.ac.uk
Cam Donaldson, cam.donaldson@gcu.ac.uk
Michael Roy, michael.roy@gcu.ac.uk
Glasgow Caledonian University, UK

An ageing population has placed strains on health and social care systems. Innovative solutions have been sought to inject capacity and capability in order to deliver services to older people more efficiently and effectively. Over the last two decades, governments have actively encouraged third sector organisations to deliver public services on the assumption that they exhibit higher levels of innovation, efficiency and responsiveness. The evidence base, particularly for whether they provide better value for money, remains poor. We present the results of a systematic literature review on the costs and outcomes of services for older people delivered by third sector organisations. We combine this evidence with a framework for analysing the benefits and costs of third sector-led initiatives, and test this out empirically with a group of initiatives delivered for older people in an urban context. We find that our method may hold considerable promise for the evaluation of third sector initiatives.

Key words third sector • systematic review • care and well-being • economic evaluation

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Introduction

The world is ageing. In 2019, 9 per cent of the world's population was aged 65 years or over, and this is expected to increase to 16 per cent in 2050 (UN, 2019), which is likely to put considerable strain on the capacity of health and social care systems to address such needs (Abdi et al, 2019; Morrow-Howell et al, 2020). To manage this ageing population, community-based initiatives led by organisations in the

'third sector' have been encouraged as alternative providers of social care, particularly to allow older people to remain living at home or within their communities as long as possible (Blas et al, 2008; Marmot, 2010; Alsaeed et al, 2016). The 'tremendous diversity' (Salamon and Sokolowski, 2016) of organisational forms and concepts under the 'third sector' umbrella includes 'voluntary organizations, nonprofit organizations, nonprofit institutions (NPIs), nongovernmental organizations (NGOs), associations, civil society, social economy, solidarity organizations, cooperatives, mutuals, foundations, civil society and, more recently social enterprises' (Enjolras et al, 2018: 2).

Over the last few decades, and particularly since the reforms represented by New Public Management (Dunleavy and Hood, 1994; Osborne, 2013), governments have actively shifted the delivery of public services, including health and social care services, onto the third sector (Donaldson et al, 2011; Roy et al, 2014; Caló et al, 2019) ostensibly on the premise that they exhibit higher levels of innovation, cost-efficiency and responsiveness (Buckingham, 2009; Hall et al, 2016). This has certainly been the case in the UK, where this research was undertaken. However, the evidence base on which these assumptions are based remains relatively poor. Despite a variety of instruments being developed to evaluate the outcomes of third sector organisations generally, to date, very little empirical evaluation research has taken place concerning the (economic) impact of third sector organisations delivering care and well-being services (Harlock and Metcalf, 2016; Dey and Gibbon, 2017; Liston-Heyes and Liu, 2021). We know that initiatives led by third sector organisations may have benefits over other types of organisations (whether public or for-profit) for elderly physical health, psychological health and well-being, and on health behaviours (Attree et al, 2011; O'Mara-Eves et al, 2013; Alsaeed et al, 2016), as they are locally based, locally owned and can respond more closely to community needs (Caló et al, 2018; 2019; Steiner et al, 2021). However, overall, the economic evidence base for their involvement in delivering care and well-being services, and the benefits they bring, remains relatively underdeveloped (Dickinson et al, 2012; Roy et al, 2014; Arvidson and Kara, 2017).

It is important that this evidence base is developed because funding is often awarded on a year-by-year basis to such organisations rather than being folded into mainstream health and social care budgets; in fact, they are rarely considered part of 'formal' health and social care systems at all (Roy et al, 2017). Funding in such a way can create unintended consequences, making third sector organisations precarious, fragile and subject to the whims of funders and politicians. Although funders often require some kind of evaluation, the form that such evidence should take is rarely specified (Buckingham, 2009; Hall et al, 2016). Mainstream approaches to measuring health impacts, such as through health technology assessment (HTA) frameworks (Banta, 2003), have seldom been used in the context of third sector organisations due to the time and cost commitments involved, particularly for those running the organisations (Caló et al, 2021). In particular, there is the challenge of balancing spend on the evaluation of initiatives with the relatively small numbers of beneficiaries that are usually associated with any local, community-led organisation. Third sector organisations, particularly those involved in delivering care and well-being services, are competing for resources with various forms of health 'intervention' that have (or are at least perceived to have) a better-quality and more robust evidence base supporting them. To be adopted within mainstream budgets (Shemilt et al, 2010), they would have to be considered alongside interventions that traditionally have an HTA to evaluate their clinical and cost-effectiveness compared with what is currently being provided (Taylor and Taylor, 2009).

In this study, we aim to move towards improving the evidence base relating to the economic contribution of third sector organisations to elderly health and well-being through presenting the results of a systematic review of initiatives being delivered by third sector organisations aimed at care and well-being for older people (aged 65+, based on the World Health Organization [WHO] definition). A systematic review summarises the results of available studies, providing evidence on what is known regarding the effectiveness of a specific intervention (Higgins and Green, 2011; Gough et al, 2012). Although systematic reviews are commonplace in public health, they have rarely been used to assess the effectiveness of third sector initiatives (but see Roy et al, 2014; Caló et al, 2018). We then attempt to utilise what is known about this ‘state of the art’ and combine it with a framework for economic evaluation, testing it with a range of initiatives delivered by third sector organisations within an urban setting in Glasgow, UK. The initiatives included in this study were funded by the Transformation Fund. The context of our study is Glasgow, where funding was made available by the government in 2011 from the Reshaping Care for Older People (RCOP) Change Fund, with Greater Glasgow and Clyde receiving £48.622 million. From this Change Fund, the Transformation Fund was created to aid the third sector in contributing to the RCOP agenda to build a more cohesive post-industrial city. The article is set out as follows. After setting out our methodology in detail, we present the synthesis of our findings, including the estimates of costs and benefits of each of the initiatives, as will be explained. We close by discussing the implications of our review both for policy and practice. First of all, however, we turn attention to our methods.

Methods

Two different methods were used to improve the evidence base relating to the economic contribution of third sector organisations to elderly health and well-being.

Systematic literature review

First, a systematic review was conducted to collate and synthesise all of the up-to-date empirical evidence relating to the impact of services delivered by third sector initiatives for older people. To ensure the validity of the chosen methods and the comprehensiveness of the study’s search strategy, the research team developed a protocol for the review in collaboration with an advisory group of local third sector representatives and advocates. The protocol can be found in [Appendix 1](#). Following best practice, the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines were used in the design of the research (Moher et al, 2009).

To be included, studies had to meet the criteria of being primary research (conducted through any type of method) evaluating and explaining the contribution of third sector organisations in terms of older people’s health and well-being. Cohort studies (one group pre- and post-evaluation) were also included, as their baseline results can mimic ‘usual care’.

Primary research that focused on third sector organisations providing traditional health services (dental or general practitioner [GP] services), such as National Health Service (NHS) social enterprise ‘spin-offs’, were excluded. To ensure added validity, and to be as comprehensive as possible, it was decided to consult with our advisory group on the key sectors in which the third sector is most active in order to ensure

that we were being as comprehensive as possible in our search. These were identified as being (in no particular order of importance): community food, community transport, local community hubs, home care, long-term care, information and advice, arts and physical activity services at the local level, befriending models, and housing-based initiatives. These categories also helped us to organise our findings.

The following databases were searched: Sociological Abstracts, Web of Knowledge, Applied Social Sciences Index and Abstracts (ASSIA), International Bibliography of Social Sciences, Cochrane Collaboration, Campbell, PubMed, Ethos, OpenGrey, PLANEX and CINHALL. After piloting and adapting the search string, a full search strategy was conducted for studies. Specific journals related to the topics of the third sector, social enterprises and non-profits were also screened. All the materials identified in the research were evaluated using a two-stage screening process, with the inclusion criteria screened against titles and abstracts at the first stage. All the abstracts were double screened to decrease possible biases, and team discussion was organised when disagreement arose. Relevant studies were retrieved and their full text double screened. An excel database was created to record the reasons for exclusions at each stage. A form for data extraction was developed, adapted to analyse both quantitative and qualitative data. The majority of studies were excluded because they did not assess interventions provided by the third sector. Further information on the papers included in the review can be found in [Appendix 2](#).

Transformation Fund initiatives evaluation

Second, initiatives funded by the Transformation Fund were grouped into the initiatives outlined under the systematic literature review. The Transformation Fund was created from funding provided by the government in 2011 to support third sector organisations to contribute to reshaping care for older people in Glasgow.

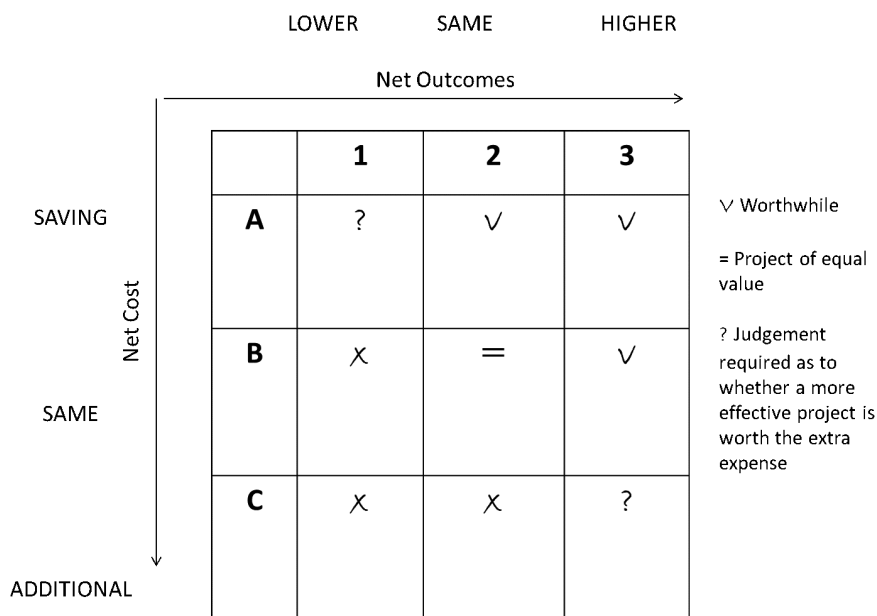
The initiatives submitted reports on a yearly basis, outlining their aims, objectives and what they achieved within that year. This included evidence on the outcomes for older people, for example, evidence on the reduction of social isolation for older people, and included the number of people that accessed the initiative. The costs and benefits of the initiatives were analysed using data collected from the reports and supplemented with the findings on costs and benefits from the literature review to understand the economic contribution of third sector initiatives (for more detail, see [Table 1](#)).

Using the results of the systematic review and the information shown in [Table 1](#), a rudimentary framework for economic analysis, with outcomes and net costs plotted against each other, was used to assess the impact of certain groups of initiatives. This

Table 1: Outline of data type and source

Data type	Source
Cost of the project	Amount of funding awarded to each initiative from the Transformation Fund
Service users	Numbers of people accessing the initiatives from the initiative reports
Reported impacts on well-being	Impacts reported in the reports by the initiatives submitted to the Transformation Fund and the literature review
Cost savings	Estimates of future resource savings reported by the initiatives and in the literature review, combined with local data on unit costs (for example, cost per day in hospital avoided)

Figure 1: Outcomes and net cost matrix



framework is shown in Figure 1. The aim of using this framework is to establish the net cost versus net outcomes (derived from primary data collection, combined with assumptions from the systematic literature review) in order to assess the balance of the resources allocated to the service with the benefits from that service and, thus, to provide an indication of whether such provision is worthwhile or not.

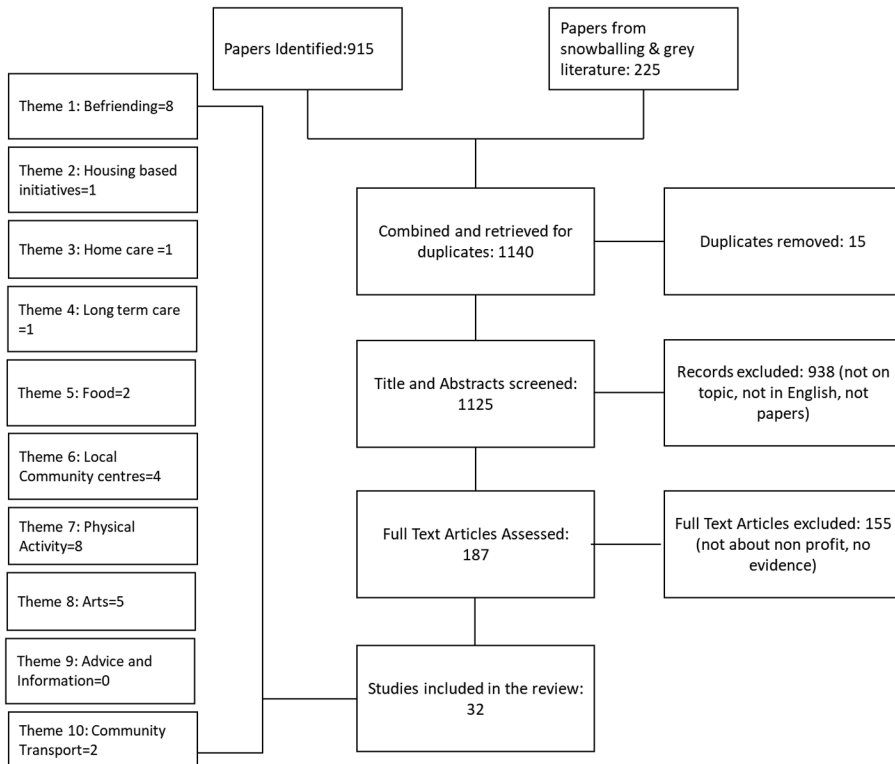
Results

Figure 2 shows the process and number of studies found at each stage. A total of 32 studies were included in the systematic review. Due to low numbers in seven of the categories, these are not reported on in this article. In addition, local community hubs and physical activities were grouped together for the analysis, as it became clear that local community hubs often provide physical activity classes for older people. Therefore, the focus of the results is on three categories: befriending activities (seven studies); local community hubs and physical activity (12 studies); and arts activities (five studies). Results are reported for each category in turn.

Befriending initiatives

Befriending initiatives aim to support older people in maintaining independent lives within their own homes and to improve their general well-being. It is considered an ‘upstream’ community-orientated intervention. Befriending occurs on a one-to-one basis, either in person or over the phone at times agreed by the recipient.

A total of 37 full studies were reviewed; 30 were excluded and seven included. The focus of the befriending studies was predominantly around quality of life and mental health. With regard to studies reporting outcomes, an intervention that focused on providing social support for carers of those with Alzheimer’s disease found short-term

Figure 2: Results of the search and study selection process

positive benefits (that is, directly after the intervention was received) but no main effects for either depression or self-esteem (Pillemer and Suito, 2002). This was confirmed by another study that assessed a community mentoring service, which showed that there was significant improvement in the short-form health survey (SF-12) mental health component in the short term (six months) but that this improvement was not maintained at 12 months, and no evidence of the service alleviating social isolation was found (Dickens et al, 2011). In addition, a randomised controlled trial (RCT) focusing on befriending for carers of people with dementia showed no effect on improving carers' well-being or quality of life (Charlesworth et al, 2008).

With regard to studies reporting on both costs and outcomes, one study focused on the cost-utility of befriending carers with dementia and found that befriending was not especially cost-effective from a societal perspective. They calculated this by comparing the costs imposed on the statutory (NHS and social services), voluntary and household sectors, with the indirect costs representing the value of carers' and family and friends' informal care time (Wilson et al, 2009). Another study conducted an RCT for a visiting service for older widowed individuals in the Netherlands and found that the service was cost-effective in comparison with usual care, with a low cost per quality-adjusted life year (QALY) gained (Onrust et al, 2008). This study took a societal perspective, which included direct medical costs, patient costs, costs from not being able to perform domestic tasks and informal care costs. It was found that savings occurred in the use of healthcare services, which offset some of the additional cost of the intervention. Knapp, McDaid and Parsonage (2011) analysed

the cost-effectiveness of a befriending initiative where the person is visited in their own home once per week or once every two weeks. They focused on the reduction of loneliness and the resulting impacts on depression, and found that the average cost for someone using a befriending service would be £80, with a saving of £35 for every £80 invested. If quality of life is considered to be improved due to a reduction in depressive symptoms, they highlighted a total savings per year of £300 per person compared with 'usual care'.

From the review, the studies that reported on the costs of befriending showed that the average costs ranged from £141 to £1,168 per person. There were additional costs for all of the befriending interventions where costs were reported when compared to usual care. At the same time, the majority of the studies identified positive outcomes, at least in the short term, leading to potential savings in the use of healthcare services.

Local community hubs and physical activity initiatives

Local community hubs initiatives provide a variety of activities for older people in a group setting, aiming at reaching and building trust in people. They often promote physical activity to have a positive impact on the health of their beneficiaries.

Under this category, 25 studies were reviewed; 13 were excluded and 12 included. Of those included in the review, six looked at physical activity interventions: three looked at the physical outcomes from the exercise group (that is, static balance and mobility); three looked at reduction in falls; one looked at health-related quality of life (HRQoL) and quality of life separate to health; one looked at the effects on happiness and loneliness; and one looked at the consequences on NHS use. One study analysed initiatives that aimed to engage elderly people in sharing their knowledge and skills with volunteers and young people in the community. One other study looked at the impact of engaging elderly people in desired activities (for example, a sports club) alongside potentially stressful activities (for example, caring for disabled people). While one study focused on interventions aimed at engaging elderly people in activities to improve their cognitive vitality and memory (for example, memory training).

An RCT evaluating group-based exercise with a focus on improving balance in older people found that those in the intervention group improved more than the control group in their static balance indicators (Robitaille et al, 2005) and physical functions (Fishleder et al, 2019; Lyndsay-Smith et al, 2019). Reduction in falls was assessed in another RCT that again compared group exercise with no intervention, finding that there was an overall reduction of 40 per cent in falls (Barnett et al, 2003). Another study looked at the effect of strength and endurance training on modifying risk factors for falls (Buchner et al, 1997). This study found that 42 per cent of the exercise group reported a fall one year after randomisation, compared to 60 per cent of the control group. However, there was no change in the number of outpatient visits over time for the exercise group compared with an average increase in the control group. Robertson et al (2001) assessed the incremental costs and cost-effectiveness of implementing a home-based muscle-strengthening and balance-retraining programme delivered by a local third sector organisation. The programme reduced falls and injuries in older women in New Zealand, showing that 65 per cent of the control group reported a serious or moderate fall in Year 1, compared to 28 per cent of the exercise group. In Year 2, 26 per cent of the control group reported a serious or moderate fall, compared to 20 per cent in the exercise group. Another study focused on the effect

of two physical activity modes – aerobic activity and stretching – on changes in the subjective well-being of old people (McAuley et al, 2000). Happiness was measured using the Memorial University of Newfoundland Scale of Happiness (MUNSH), and loneliness was measured using the UCLA Loneliness Scale. This showed that their physical activity programmes led to increased happiness and satisfaction with life, and decreased loneliness over the six-month intervention period. However, these improvements were not able to be sustained at the six-month follow-up.

An economic evaluation was conducted on an exercise programme that was provided in Sheffield in community centres and church halls (Munro et al, 1997). The health gains were measured in lives extended and life years saved by evaluating health events avoided for certain conditions. It was estimated that 77 deaths and 229 in-patient episodes per 10,000 participants per year could be avoided, and, thus, that the intervention was potentially worthwhile, giving health gains at low costs. It was calculated that for each avoided health event, there was a cost saving of £1,100.

Four studies that evaluated group activities for elderly people measured social connectedness, well-being, physical activity, cognitive vitality and quality of life (Kimberlee and Means, 2013; Potocnik and Sonnentag, 2013; Laforest et al, 2017; Millard, 2017). Laforest et al (2017) used a friendship scale to measure changes in isolation. This showed that, on average, at baseline, participants were isolated or had a low level of social support (14.53), which increased to being very or highly socially connected at follow-up (22.8). Office for National Statistics well-being indicators were used to measure changes in well-being. Kimberlee and Means (2013) showed an increase in all indicators of the index, and these were higher than the national average at follow-up. The International Physical Activity Questionnaire (IPAQ) was used to measure the increase in physical activity. This showed that there was a mean increase in the number of days of activity of 1.63 from baseline to follow-up. In addition, participants were also asked about any medication changes, and it was reported that 26 per cent (eight people) had stopped taking medication. Potocnik and Sonnentag (2013), meanwhile, looked at the impact of engaging in both desired activities (for example, a sports club) and potentially stressful activities (for example, caring for disabled people) on depression and quality of life over a two-year period. They found that there was an increased quality of life from regularly attending sports clubs, voluntary work and providing help to family and friends, and a decrease in depressive symptoms from volunteering. Similarly, Millard (2017) found that older adults participating in social activities with and without a physically active component reported a higher Health Related Quality of Life (HRQoL) measured using the 12-Item Short Form Survey version 2 (SF-12v2) and EQ-5D, and a higher quality of life separate to health measured by the ICEpop CAPability measure for Older people (ICECAP-O). Scores from the SF-12 and EQ-5D were not converted to utility scores. In terms of cognitive vitality, Laforest et al (2017) found that there was an increase in terms of memory strategies (2.52), while their programme also improved physical activity, whether reported in terms of frequency (5.64) or duration (225.63). The majority of the studies reported positive outcomes in terms of quality of life, physical functions and reduction in falls and loneliness.

Arts-based initiatives

Arts-based interventions aim to improve older people's well-being and reduce social isolation. Arts-based initiatives incorporate a wide range of activities (painting, theatre

and music making, singing, other visual arts making, and so on) (Bellazzecca et al, 2022). The activities are most usually undertaken in a group setting and include such activities as painting, creative writing, singing and arts and crafts. Under this theme, 20 studies were reviewed; 15 were excluded and five included. Of those included, four looked at the various effects of arts activities on the health and well-being of socially isolated people, and one looked at the impact of arts initiatives on the use of health services.

One study evaluated a creative activity intervention for socially isolated older people and found a variety of benefits, including a reduction in loneliness and falls risk, as well as increased well-being, from 18 participant interviews (Greaves and Farbus, 2006). On the SF-12 measure (Ware et al, 1996), this showed a statistically significant increase in both mental and physical components. However, at 12-month follow-up, the mental component change decreased and it was no longer significant, though the physical improvements had increased. This study also included the Geriatric Depression Scale, which showed a significant reduction in depressive symptoms that was maintained at 12-month follow-up. Positive results were also reported by Cliff et al (2012), who assessed the various impacts 265 older people experienced through participating in a community singing programme in comparison to 'usual activity'. The study also used SF-12, which showed a statistically significant increase in mental health on the self-reported Hospital Anxiety and Depression Scale (HADS) (see Zigmond and Snaith, 1983) and a significant reduction in anxiety scores. A cost analysis was also conducted, where the average costs of health and social care were calculated for both groups, and showed that over six months, both groups experienced an increase in cost compared to the baseline, though this was greater for the intervention group (Cliff et al, 2012). Another study compared a choral intervention (consisting of weekly singing rehearsals for 30 weeks, as well as public performances several times during the intervention period) with usual activities, involving 166 people in total (Cohen et al, 2006). This study showed that visits to GPs and the use of over-the-counter medicine were lower in the intervention group but had increased in the control group. In addition, the intervention group reported a decrease in falls, while the control group reported an increase. Another study also analysed the benefits of participating in a community-based choral activity (Johnson et al, 2013), finding that there were significant correlations between the benefits developed during singing activities and three of the four quality-of-life domains (psychological, social relationships and environment).

Another study conducted in Finland that examined health service use compared three different types of intervention (writing and psychotherapy group, exercise group, and arts group) with control groups, using 235 older people suffering from loneliness (Pitkala et al, 2009). This study found that there was an improvement in general health in the intervention group compared to the control group, showing that they had used fewer health services. However, the outcomes were not separated out by groups, and so it was not possible to attribute the outcomes to the arts group. From the grey literature, COPE Scotland commissioned a social return on investment (SROI)¹ study to be conducted on their Craft Café initiative, which offered a range of crafting opportunities for older people. This reported a return of £4.49 for every £1 spent. However, on further examination, this appeared to be an overestimate, as there was double counting of the benefits of relaxation. In addition, to capture the benefits from relaxation, the cost of a personal massage every week was used. When

replaced by a yoga/meditation class and double counting was removed, this reduced the savings to £2.74 for every £1 spent. The majority of the studies identified a positive result, at least in the short term, as regards the health and well-being of the elderly people involved, which, as well as being important on its own right, shows the achievement of potential healthcare savings.

Putting the systematic review to work: economic evaluation phase

We examined details of initiatives that fell into each of the three categories that emerged from the systematic review, namely: (1) befriending initiatives; (2) local community hubs and physical activity initiatives; and (3) arts-based initiatives. Our assessment of the initiatives that fell into each category is discussed in turn.

Befriending initiatives

Four of the 25 initiatives funded by the Transformation Fund were assessed in the befriending category. This involved 111 service users in total, as Table 2 explains.

Both initiatives reported a reduction in social isolation, and through the literature, it is possible to relate this to a decrease in depression. We have assumed a reduction in the use of services for mental health (Knapp et al, 2011; King's Fund and Local Government Association, 2014). The underpinning economic assumption, based on Knapp et al (2011) King's Fund and Local Government Association (2014), is that for befriending initiatives, there is a saving to the NHS of £35 for each £80 in the first year of a befriending service due to a reduction in the need for treatment for mental health support. As a result of this reduction in the use of mental health services, quality-of-life improvement represents an additional £300 saving per person and a

Table 2: Assumptions and net costs with respect to befriending initiatives

Assumption	Explanation	Sources	Net costs	Number of service users	Cost/saving per service user
NHS savings for mental health: for each £80 invested, there is a saving of £35	This is the savings in the first year for a befriending service from a reduction in the need for treatment and support for mental health needs	Knapp et al (2011)	£57,505	111	£518
Savings of £300 per person	Building on the reduction in the use of mental health services, if quality of life is considered as a result of better mental health, then the savings of a befriending service would be £300 per person per year	Knapp et al (2011)	£29,200	111	£263
Return on investment for every £1 spent of £3.75	Savings from reduction in mental health service spending and improvements to health from befriending services	King's Fund and Local Government Association (2014)	-£234,375	111	-£2,111

return on investment of £3.75 for each £1 spent, according to a report by the King's Fund and Local Government Association (2014). Thus, the net cost ranges from a total saving of just over £234,300 (see A3 in Figure 1) to a total cost increase of over £57,500 (see C3 in Figure 1), depending on the assumptions used. This can be shown as ranging from a saving of just over £2,100 per service user to an incremental cost of up to £500 per service user.

Community hubs and physical activity

Analysing the projects financed by the Transformation Fund, 14 initiatives fell into the 'community hubs and physical activity' category. These involved 2,402 service users in total for a total cost of £505,599. All the initiatives reported a reduction in social isolation. Similarly to the previous category, we established NHS savings based upon the work of Knapp et al (2011) from a reduction in the need for treatment and support for mental health needs. In addition, evidence by Barnett et al (2003) and the report on the National Falls Programme (Scottish Government, 2014) considered that the rate of falls would decrease by 40 per cent, with a cost per fall of £1,720. There was also an assumption, based on Windle et al (2010), of a reduction in outpatient appointments but with cost savings offset by a slight increase in GP appointments.

As some community hubs do not provide physical activity sessions, they have been excluded from the analysis for falls reduction. Given the range of activities provided by community hubs, there could be a total potential saving of over £1.2 million (see A3 in Figure 1) to a net cost of up to £369,500 (see C3 in Figure 1). This equates to a range from a net saving of £1,676 per person per year up to an incremental cost of £180 per person, as shown in Table 3.

Arts-based activities

If we analyse the projects financed by the Transformation Fund and housing initiatives, seven local initiatives have been funded. These initiatives have involved a range between ten and 84 beneficiaries, for a total cost ranging between £7,332 and £48,457. More than 260 elderly people were involved, for a total cost of £157,792. The assumptions, derived from the literature and used for the calculations, relate to the reduction of symptoms for depression, alongside the costs of depression (McCrone et al, 2008), and the SROI explored in the COPE study adjusted for the overestimation detailed earlier. There was potential for total savings of just over £1 million (see A3 in Figure 1) (depending on the SROI sensitivity analysis) to a cost of an additional £99,287 (see C3 in Figure 1). This can be shown as ranging from a net saving of over £3,000 per service user to an incremental cost of £394 per service user, as shown in Table 4. Table 4 outlines the various assumptions drawn from the literature (see Greaves and Farbus, 2006; McCrone et al, 2008; Social Value Lab, 2011).

Discussion and conclusion

Systematic reviews are still not commonplace in fields of study or disciplines that regularly grapple with issues relating to the third sector. In this study, we have not only set out a systematic review but also then applied the findings to develop an evaluation framework. We tested the framework and found that after undertaking a

Table 3: Literature-based assumptions and net costs with respect to local community hub and physical activities initiatives

Assumption	Explanation	Sources	Net cost	Number of service users	Cost/saving per service user
NHS savings for mental health: for each £80 invested, there is a saving of £35	This is the savings in the first year from a reduction in the need for treatment and support for mental health needs	Knapp et al (2011)	£397,509	2,402	£165
£300 saved per person per year	Building on the reduction in the use of mental health services, if quality of life is considered as a result of better mental health (taking evidence from The Partnership for Older People Projects (POPP) [4]), then the savings of a befriending service would be £300 per person per year	Knapp et al (2011)	-£215,001	2,402	-£90
40% lower risk of a fall if involved in physical activity	Rate of falls in an intervention for providing physical activity is 40% lower than that in usual care Cost per fall = £1,720 1% of falls will result in a hip fracture Cost of hip fracture = £39,500	Barnett et al (2003) Scottish Government (2014)	-£1,208,631	725	-£1,676
Reduction in outpatient appointments, saving £30.16 per person	For initiatives focused on emotional support and reducing social isolation, respondents reported a reduction in the use of outpatient appointments but an increase in GP appointments	Windle et al (2010)	£433,155	2,402	£180

retrospective analysis of initiatives aimed at older people in Glasgow, the majority of the initiatives that were supported either resulted in cost savings and better outcomes (see A3 of Figure 1) or increased costs combined with improved outcomes (see C3 of Figure 1). Although we have not compared third sector initiatives with other care and well-being services, this indicates that delivery by the third sector offers the potential to produce better outcomes for the allocated resource and can also target specific groups in society, in this case, older adults.

Even employing a relatively simplistic economic framework to analyse third sector initiatives has the potential to provide important evidence on the costs and benefits that can support evidence-based policymaking, and certainly takes the evaluation of third sector initiatives forward somewhat. Our findings provide evidence, from a small number of studies, that third sector initiatives could represent an effective provider of complementary public services, particularly in the case of befriending activities, local community hubs and physical activity and arts-based initiatives, confirming the literature that sees third sector organisations

Table 4: Literature-based assumptions and net costs with respect to arts-based activities

Assumption	Explanation	Source	Net costs	Number of service users	Cost/saving per service user
10% reduction in depression symptoms Cost of depression = £2,085	Geriatric Depression Scale was used in a community-based intervention with an emphasis on creative activity and social interaction: at baseline, 45% had mild clinical depression, which fell to 35% at six-month follow-up The average service costs in 2007 for people in treatment or where their condition was recognised, including contact with psychiatrists, psychologists, other doctors and community mental health nurses	Greaves and Farbus (2006) McCrone et al (2008)	£99,287	252	£394
SROI of £8.27 per £1 spent (maximum value)	Impact Arts commissioned a SROI to be conducted on their Craft Café initiative, which offers a range of crafting opportunities	Social Value Lab (2011)	-£1,702,247	252	-£6,755
SROI of £4.86 per £1 spent (minimum)	Impact Arts commissioned a SROI to be conducted on their Craft Café initiative, which offers a range of crafting opportunities	Social Value Lab (2011)	-£1,000,353	252	-£3,970

as an effective collaborator of the public sector (Mazzei et al, 2019; Steiner et al, 2021; Caló et al, 2023).

While the results appear positive and show potential for evaluating third sector initiatives using such an approach, there are quite obvious limitations to our study. First of all, the attribution of outcomes to only third sector initiatives was quite difficult to extract from some studies in the systematic review, and it was difficult to identify the comparator group of the initiatives. In addition, although the studies were analysing different contexts, contextual variables were rarely considered. We also faced a lack of reported outcomes from the initiatives for use in the economic evaluation phase of the research. While we derived assumptions from the literature, these were from an analysis of interventions that often substantially differed in design, intensity and contextual needs. Context is important in exploring and understanding the contribution of the third sector. Interestingly, due to their methodology, most of the studies included did not consider contexts in their explanation. If local databases collected primary data not only on outcomes but also on the contexts and mechanisms involved in delivering those outcomes, then this would enable some quite sophisticated analyses to be planned, enabling such questions as ‘What works?’, ‘For whom?’ and ‘In what circumstances?’ to be asked. This is the type of question that ‘realist evaluations’ (Pawson and Tilley, 1997; 2009) are designed to handle, which are becoming more commonplace in the design and evaluation of complex public health interventions (see Craig et al, 2008), including being combined with, or integrated with, systematic review methods (Pawson et al, 2005; Fletcher et al, 2016). Implementation of realist evaluation would also help to identify potential comparators for third sector interventions, as suggested in Caló

et al (2019; 2020; 2021; 2023), enabling the development of more innovative third sector evaluation approaches (Baker et al, 2023) and supporting a better understanding and analysis of how third sector organisations can move towards addressing societal challenges and the relevant impacts of these challenges.

Third, only the funding awarded to the initiatives was used in place of the ‘true cost’ of the various initiatives. This may not show the full cost of these types of initiatives, as there is also the possibility that they were receiving funding from various different sources. In most of the aforementioned cases, the cost savings do not equate to actual cash savings. These are representations of resources saved that could have alternative uses.

In order to compete for funds aiming to address societal challenges, it is important to assess the extent to which the third sector can participate on a ‘level playing field’ with medical interventions, for which, it is perceived, the evidence base is more established (see Roy et al, 2013). If it can be established that the third sector can meet the complex needs of often vulnerable populations more effectively and/or more efficiently, then it is important that such evidence becomes part of local decision making. The tools presented herein (a systematic review and economic evaluation) are merely just the start of the process, while future studies should advance these tools by better exploring how context and mechanisms might be included, and how data on the outcomes of third sector services can be more routinely collected.

Note

¹ SROI is a process for understanding, measuring and reporting the social, economic and environmental value created by an intervention, programme, policy or organisation (Banke-Thomas et al, 2015).

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Conflict of interest

The authors declare that there is no conflict of interest.

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