


BMJ Open Sustaining community-based interventions for people affected by dementia long term: the SCI-Dem realist review

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ABSTRACT

Objectives Community-based support for people with earlier-stage dementia and their care partners, such as regularly meeting groups and activities, can play an important part in postdiagnostic care. Typically delivered piecemeal in the UK, by a variety of agencies with inconsistent funding, provision is fragmented and many such interventions struggle to continue after only a short start-up period. This realist review investigates what can promote or hinder such interventions in being able to sustain long term.

Methods Key sources of evidence were gathered using formal searches of electronic databases and grey literature, together with informal search methods such as citation tracking. No restrictions were made on article type or study design; only data pertaining to regularly meeting, ongoing, community-based interventions were included. Data were extracted, assessed, organised and synthesised and a realist logic of analysis applied to trace context–mechanism–outcome configurations as part an overall programme theory. Consultation with stakeholders, involved with a variety of such interventions, informed this process throughout.

Results Ability to continually get and keep members; staff and volunteers; the support of other services and organisations; and funding/income were found to be critical, with multiple mechanisms feeding into these suboutcomes, sensitive to context. These included an emphasis on socialising and person-centredness; lowering stigma and logistical barriers; providing support and recognition for personnel; networking, raising awareness and sharing with other organisations, while avoiding conflict; and skilled financial planning and management.

Conclusions This review presents a theoretical model of what is involved in the long-term sustainability of community-based interventions. Alongside the need for longer-term funding and skilled financial management, key factors include the need for stigma-free, person-centred provision, sensitive to members' diversity and social needs, as well as the need for a robust support network including the local community, health and care services. Challenges were especially acute for small scale and rural groups.

Strengths and limitations of this study

- This review brings together transferable learning from a wide range of intervention types on a topic that has received little formal, integrated research attention, to deepen our understanding on how such interventions could be implemented and supported to sustain more universally and consistently across the sector.
- This review's realist approach is well suited to accommodate and account for the complexity of such 'real life' intervention programmes, as implemented under different conditions in different settings, to extract transferable conclusions.
- This review was designed to gather evidence regarding how interventions can be sustained, not on the efficacy/effectiveness of interventions of this type, hence conclusions regarding the latter are beyond its scope.
- Literature was limited as this research question is not commonly the main focus of study in dementia care research.
- Not all data were equal in depth and detail or the highest empirical rigour, rather they contributed together in a way that was useful to an overall programme theory that will benefit from further refinement and revision with empirical testing in subsequent research.

INTRODUCTION

Supporting people with dementia and their carers to live as well as possible in their communities, with timely psychosocial support, is a global public health goal,¹ though remains a challenging aspiration in many countries. In the UK, with an ageing population² and increasing pressure on already-stretched health services,³ policy has for some time pointed to the need to move towards a model of social care where more people are cared for and supported at home, in the community. Improving provision of early, postdiagnosis support, support for family carers and better integrated care

(involving the voluntary and independent sectors)—all in a more dementia-friendly community environment—are contemporary UK Government priorities for dementia care.⁴

Support following a diagnosis of dementia is patchy,⁴ however, with families in some areas lacking any formal proactive support for those with less severe symptoms beyond occasional contact with primary care and third sector. There are significant gaps in social care for people affected by dementia across the UK.^{5–7} Multiple recent reports describe a climate where the state of social care provision—mainly delivered piecemeal by private and third-sector organisations—is ‘precarious and dysfunctional’ in many parts of the country⁶ and in some areas has ‘broken down’ creating ‘care deserts’.⁵ There is an associated reliance on informal carers (eg, family members) but there is a growing recognition that informal carers’ own health and well-being is often negatively impacted by their caring activities.⁶ The detrimental health impact of social isolation and loneliness is also increasingly being recognised,^{8,9} with survey data revealing nearly 60% of people living with dementia report loneliness, isolation and losing touch with people in their lives since diagnosis, around a quarter feeling they are not part of their community and that people avoid them.⁷ Family carers can also be subject to such loneliness and isolation.¹⁰ This situation has only been exacerbated by the recent impact of COVID-19,¹¹ bringing the need for groups and activities that provide social connection and support for people and families affected by dementia into stark relief.

There have been various attempts to mitigate these challenges in communities across the country, in the form of groups and activities for people with dementia and family carers. These aim to serve a number of functions: peer support, companionship and help for people to reintegrate with their communities; delivery of professional support, psychosocial interventions and physical exercise; a point of contact, signposting and referral for other services; or raising awareness and acting as a dementia-friendly community hub. The benefits of such community-based initiatives are now being recognised.^{12–16} There is evidence that regular social activity, where people are able to leave their homes and gather together in a communal setting on a frequent and ongoing basis, can be helpful both for people living with dementia and the people who care for them.^{12, 13, 17–19} With care systems unprepared for the forecasted UK doubling of the number of people living with dementia (1.6 million) and tripling of social care costs by 2040,²⁰ improving provision of evidence-based community initiatives for people with dementia, and their families, is imperative.^{12–16, 21, 22} However, even prior to the 2020 pandemic restrictions, such initiatives, groups and activities already faced a variety of challenges with long-term sustainability. These challenges and how to meet them are much talked about in the dementia care policy, rhetoric and practice arenas but have received very little research attention.

This realist review aims to deepen our understanding of what can help or hinder the long-term sustainability of regularly meeting, place-based community interventions, such as groups and activities, for people affected by dementia. It aims to use data gathered as the basis of evidence-informed recommendations for policy and practice.

METHODS

This review was conducted from December 2018 to December 2020. A project protocol was registered with PROSPERO in March 2019²³ and the protocol was published in this journal in June 2019.²⁴

The realist review is an interpretive, theory-driven approach to synthesising evidence from a range of sources, including qualitative, quantitative and mixed-methods research.²⁵ This approach is designed to accommodate and account for the complexity of ‘real-life’ intervention programmes, as implemented under different conditions in different settings, aiming to explain how and why context can influence outcomes.²⁶ Hence it is well suited to extracting transferable lessons from reviewing the functioning and success (or otherwise) of a range of community-based interventions for people affected by dementia, as these are likely to involve a high level of complexity and be responsive to contextual factors which are likely to vary considerably from intervention to intervention. Data were gathered and synthesised, with a realist logic of analysis applied to identify causal chains involving different contexts, mechanisms and outcomes that can in turn affect an initiative’s long-term sustainability. We define context as the conditions that trigger or modify the behaviour of mechanisms;²⁷ mechanisms are the usually-hidden processes that generate outcomes, defined as ‘underlying entities, processes or structures which operate in particular contexts to generate outcomes of interest.’²⁸; outcomes can be ‘either intended or unintended and can be proximal, intermediate or final’²⁷ and in this review refer to any identifiable result (of the interaction between contexts and mechanisms) that can directly have a bearing on an intervention’s ability to sustain long term.

Our review followed Pawson’s five iterative stages²⁹ as outlined below.

Step 1: locating existing theories

This initial step was to identify and gather existing ideas around what can help or hinder the sustainability of a group or activity, from those who have first-hand experience of them. In line with realist review guidelines (RAMESES: Realist and Meta-narrative Evidence Syntheses Evolving Standards),²⁹ stakeholders were contacted by TA and TM and consulted for input at points throughout the project. These stakeholders were lay experts involved with community-based interventions in various capacities, whether commissioning, leading, running, supporting or attending. In the first instance,

a workshop was held in March 2019 with a group of 13 invited stakeholders to gather their content expertise on barriers and facilitators to engagement and sustainability. Eight others were subsequently consulted by TM individually, in person, by telephone or by email. Input was also taken by TA and TM from members and facilitators of various local Dementia Engagement and Empowerment Project³⁰ groups at a national meeting in June 2019, and TM also visited three community groups in Herefordshire, Oxfordshire and Wolverhampton. In addition, an exploratory search of the literature was conducted by TM, using informal methods such as citation tracking and snow-balling³¹ along with informal scoping searches³² and the gathering of relevant publications and materials recommended by stakeholders. Together, this contributed towards the building of an initial theoretical model, or programme theory, with the guidance of GW, prior to our main search, both to inform our formal search strategy and to be tested and refined by the data subsequently found. This model began as two diagrams (one regarding engagement, one regarding sustainability), drawn up by TM and TA by batching issues raised at the March workshop, and possible links between them. These diagrams were then discussed, altered and added to iteratively over 4 months as new stakeholder input became available (these can be seen in online supplemental file 1). These diagrams were speculative so kept deliberately broad and fluid in focus, as a work in progress. Detailed analysis of possible context–mechanism–outcome configurations (CMOCs) was not considered appropriate at this stage, as: (1) Not enough data had been gathered; (2) This would be both labour intensive and too limiting for a model whose purpose was only as a steering guide to inform the review proper, yet to be undertaken.

Step 2: search for evidence

Formal search

Formal searching activity took place between May and September 2019. A search strategy was designed, piloted and conducted by the research team with the guidance from an information specialist (CK) (see online supplemental file 2). The following databases were searched: Academic Search Complete; AMED; CINAHL; EMBASE; MEDLINE; ProQuest; PsycINFO; PubMed; Scopus and Social Care Online. In keeping with RAMESES guidelines,²⁹ no restrictions were made on the type of article or study design eligible for inclusion, other than being more recent than 1990. Documents such as editorials, opinion pieces, information guides, publicity materials, newspaper and magazine articles, evaluation reports, PhD theses and research poster and slide presentations were included along with peer-reviewed journal articles, if found to be holding relevant information. Search terms were kept uniform across all databases and searching was carried out by looking for the occurrence of these within the title, abstract and key words of documents (or nearest equivalent) in each database. Database-specific defined keywords were not used as the types of intervention were

not only very diverse but often without a common agreed terminology, hence using too narrowly-specified terms would have resulted in an unmanageably voluminous list of possible key words, without necessarily locating better-targeted results, and could be limiting and misleading. In addition the nature of this review's research question is atypical in that it does not have an efficacy/effectiveness focus in common with many of its sources of data, hence manual screening was key in determining relevance. A disadvantage of this was that we had to accept a higher ratio of irrelevant search hits which then had to be excluded through manual screening of title and abstract.

After removing duplicates, records were screened by title and abstract by TM using the eligibility criteria, ensuring interventions covered were those targeted towards people with dementia and their families living in the community, that brought people together physically and met on a frequent, regular and an ongoing basis (these criteria are outlined in full detail in online supplemental file 3). Interventions exclusively for those with severe dementia at advanced stages were excluded as these were not the focus of this review. Those with severe dementia have high needs and are less likely to be living independently in the community, hence by their nature community-based interventions where people meet outside of their home are likely to serve those who are towards the start of their dementia journey rather than those at an advanced stage, and are distinct from more acute care.

Full text of documents were then obtained of the remaining records, and again screened by close reading against the eligibility criteria by TM. A 10% random subsample of was reviewed independently at each of these stages by a second reviewer (TA) with disagreements recorded and resolved by discussion. Informal searching continued iteratively alongside the formal search and in response to articles found in it, congruent with the realist review process which allows searching to be revised as necessary as the review progresses.²⁹ In certain cases, documents regarding on interventions that met only some, not all, of the inclusion criteria were included, if found to contain information on hypothesised mechanisms with reason to believe such mechanisms may function similarly or analogously in types of intervention that are closely related.³³

Steps 3 and 4: article selection, data extraction and organisation

Figure 1 shows a Preferred Reporting Items for Systematic Reviews and Meta-Analyses diagram outlining the full screening and selection process.

Following screening and close-reading of full texts for eligibility, full texts of the remaining 122 articles were loaded into NVivo qualitative data analysis software to help locate and categorise (code) relevant sections of text containing data regarding contexts, mechanisms or outcomes pertinent to the long-term sustainability of the intervention they described. Coding was both inductive (codes created in response to data as found) and deductive (codes created in advance, informed by the

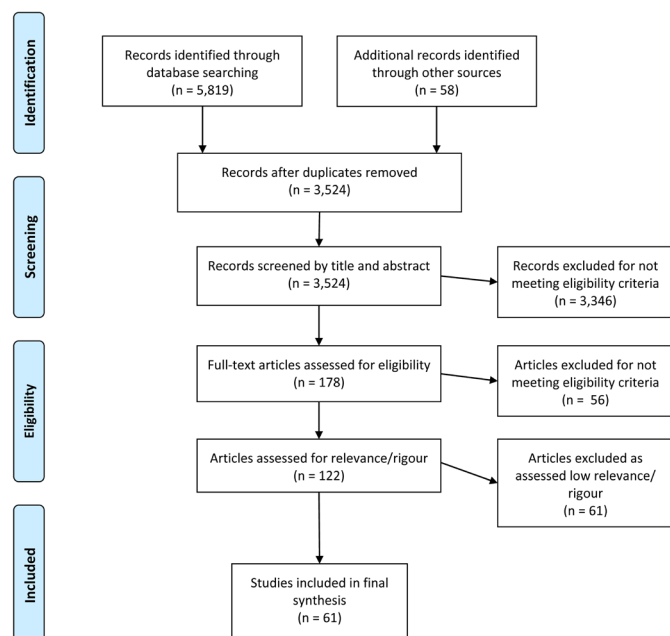


Figure 1 PRISMA flow diagram. PRISMA, Preferred Reporting Items for Systematic Reviews and Meta-Analyses.

initial programme theory) and carried out by TM (An overview of top-level ‘parent’ codes can also be seen in online supplemental file 1); deductive codes can be identified in that they mirror the headings of the initial model diagrams). The characteristics of the articles were also extracted separately into an EXCEL spreadsheet.

During this extraction and organisation process, more fine-grained assessments of relevance (to answering the research question) and rigour (the trustworthiness and credibility of the data and its source)^{25 34} were made by TM, with a random sample of 10% of articles again selected, assessed independently and discussed with TA. The data contained in an article was assessed on its own merits, not on the merits of the paper or study as a whole. This is because it was recognised that poorly designed or conducted research may still contain good quality ‘nuggets’ of information for a realist review,^{34 35} or a document meeting inclusion criteria may not contain any relevant data. Due to the variety and breadth of the type of article included in the review, a standardised relevance and rigour assessment tool that would be appropriate in all cases was impossible to design.²⁵ Rather a set of general principles was agreed to guide a ‘traffic light’ assessment system of low, medium and high relevance, and low, medium and high rigour (see online supplemental file 3 for detail). Reasons for each assessment were outlined and logged for each article and compared with each other to ensure consistency. Ambiguous cases of relevance or rigour were discussed with the wider project team as they arose. A decision was made by the project team to exclude articles assessed to have data of low relevance or low rigour to ensure a more robust dataset with which to build the final programme theory and CMOCs.

Step 5: synthesising the evidence and drawing conclusions

Once data from the remaining articles were extracted and categorised, key outcome themes were identified by discussion with the whole team. These themes and categories were presented to the stakeholders for comment and feedback, to determine what was most important to focus on, if they felt anything had been overlooked and if any changes or refinements should be made. Four key outcome areas (getting and keeping members, personnel, support of other organisations and funding/income) were settled on. Data were then organised under these headings in the form of ‘If-then’ statements that provided initial explanations of how, why, for whom and in which contexts these outcomes might arise, initially by TM but with input from DB and TA. These were then further refined, with guidance from GW, using a realist logic of analysis to identify cause-and-effect chains in the data and finally elaborated into CMOCs.²⁹ Related CMOCs were then grouped together to create recommendations for practice or policy that also acted as a summary of the CMOCs found. Diagrams of the factors found affecting sustainability, and how they are likely to relate to each other within an overall programme theory, were also designed through team discussion and drawn by TM.

Patient and public involvement

The research question was developed during the authors’ previous work with community interventions (eg, but not limited to, Meeting Centres)^{12 13} and the practical problems encountered with sustaining such interventions expressed both by personnel and by members of the public attending. This review mainly involved the gathering of secondary data so did not involve patients or public directly as study participants. However, people with dementia, their family and friends, intervention staff and volunteers, and other community stakeholders were consulted as content experts throughout, informing the search strategy, data synthesis, development of materials and channels for dissemination. More information on our stakeholder consultation process can be found under step 1: locating existing theories and step 5: synthesising the evidence and drawing conclusions.

RESULTS

In total, 61 articles were coded to develop the CMOCs used to refine and expand our initial programme theory (see online supplemental file 4) for a detailed list of included articles). They were published between 1990 and 2020, and ranged in type: most were either peer-reviewed journal articles (28) or formal reports/evaluations (18); information guides (8), news feature articles (3), doctoral theses (2) and conference presentation paraphernalia (2) were also analysed. About half of these articles (33) were authored (or coauthored) in the UK, consistent with a proportion being identified informally through UK-based stakeholders (see figure 2). Four articles had international authorship. Other countries



Figure 2 Factors affecting the sustainability of community-based groups and activities.

of origin (or co-origin) comprised the US (8), Netherlands (7), Germany (5), Canada (4), Italy (4), Norway (3), Poland (3), Australia (2), Ireland (2), Sweden (2), Chile (1), Japan (1), Portugal (1) and Thailand (1). The type of intervention discussed in these articles varied broadly, including: day centres/day care, social activities, sports and exercise initiatives, peer support groups, arts and crafts groups, singing and music groups, cognitive stimulation, gardening activities and other outdoor activities. Many interventions had multiple and overlapping elements, for example, a sports activity may have a social function, a drop-in day centre may have exercise and cognitive stimulation activities, or a craft club may have peer support built in. When an article's remit was general (for example community support services, outdoor activities, social and leisure activities or third sector groups), data were included from the article only if it was relevant to our programme theory and the kind of interventions outlined in the inclusion criteria (see online supplemental file 3).

Our analysis, together with stakeholder input, identified four critical areas affecting the sustainability of an intervention: members, staff and volunteers, support of other organisations and funding/income. These were each subdivided into 'getting' and 'keeping' outcomes in recognition of changes in focus over time regarding these areas, and likely different contexts and mechanisms involved as an intervention continues. [Figure 2](#) shows an overview of factors leading to the getting and keeping of members, staff and volunteers, support of other organisations and funding/income, found in the article data

(individual diagrams tracing factors for each critical area can be found in online supplemental file 5).

Our analysis of the data produced 201 CMOCs (outlined in full in online supplemental file 6), all covered by the above eight subdivisions. These CMOCs provide causal explanations relating to sustainability of community-based groups and activities either at the level of the individual, organisation or wider. Due to the high number of CMOCs, they were further organised by grouping them under practical recommendations that could follow. These recommendations are not simply an end conclusion, but were also part of the data synthesising process, as they act as a way in which to categorise and summarise the large number of CMOCs. Examples of how several grouped CMOCs were related to a recommendation can be seen in [table 1](#).

Recommendations for practice

In total, 41 recommendations for practice were drawn from the CMOCs as can be seen in [table 2](#).

Data regarding getting and keeping members was the most abundant and showed most consensus. As may be expected, boosting the motivation and understanding of potential referrers, while lowering bureaucratic and logistical barriers, was important to getting members (CMOC 10–CMOC 14; CMOC 31–CMOC 46; CMOC 64–CMOC 65). Transport from home to venue was particularly key: not just its availability, but people's experiences of the accessibility, appropriateness and convenience of it (CMOC 10–CMOC 14). Other salient mechanisms involved how respected, valued and comfortable members

Table 1 Examples of CMOCs leading to recommendations

Recommendation	CMOCs
Getting members: Ensure a warm, welcoming, non-stigmatising introduction, with strong staff interpersonal skills and an appealing venue	<p>CMOC 3: If facilitators are knowledgeable and empathetic, with good interpersonal skills (C), an initiative will be perceived as more welcoming and inclusive (O), as they will be better at understanding needs, engaging and building trust with potential members and their families (M).^{41–46}</p> <p>CMOC 4: If an initiative has an informal, un rushed and warm welcome on first visit (C), then people are more likely to want to return (O), as they are more likely to find the experience relaxing and enjoyable, not uncomfortable and intimidating (M).^{45 47–50}</p> <p>CMOC 5: If potential members have had poor previous experiences with groups or activities (dementia related or not) (C), they may not want to try another group or activity (O), because they think the experience will be similar and will want to avoid it (M).^{42 46 51 52}</p> <p>CMOC 6: If time is taken for personal contact, home visits or taster sessions with potential members (C), then people are more likely to come (O), as they will feel more familiar with the initiative and more trusting of those running it (M).^{41 43 52–55}</p> <p>CMOC 7: If an initiative is familiar and trusted, or local and well-integrated with other organisations in the community (C), then people are more likely to come (O), as its links to familiar things that they trust will make it less intimidating (M).^{42 46 47 53 56–61}</p> <p>CMOC 8: If an intervention is based in familiar surroundings in, and open to, the community (C), then people are more likely to come (O), because potential members will find the normalcy, lack of stigma and chance for social integration appealing (M).^{43 46 53 57 62–67}</p> <p>CMOC 9: If a venue is dementia-friendly, comfortable and accessible (C), people are more likely to come (O), as they will not have concerns about comfort or access (M).^{53 60 68 69}</p>
Keeping members: Keep activities relaxed, loose and focused on the social and encourage friendships and peer support	<p>CMOC 47: If there is group cohesion and mutual trust between members (C), then a group is more likely to sustain (O), because members will feel more solidarity and investment in the group (M).⁷⁰</p> <p>CMOC 48: If friendships between members are encouraged, recognised and supported by staff and activities (C), then people are likely to keep coming (O), as they will feel more supported, comfortable and engaged, and able to support each other (M).^{48 59 71–73}</p> <p>CMOC 49: If an intervention is too focused on agendas, rules and expectations (C), then people may stop coming (O), because they feel pressured, restricted and unable to relax and enjoy the social and emotional benefits important to them (M).^{49 50 68 72 74–76}</p> <p>CMOC 50: If the pace of activity through the day/session is too fast and strict (C), then people may stop coming (O), because they will struggle to stay engaged and will not enjoy themselves (M).^{48 53 62 66 77}</p> <p>CMOC 51: If ample informal time is made for socialising, peer support and feedback (C), then members are more likely to keep coming (O), as they will be more likely to feel comfortable and supported (M).^{45 48 53 55 63 67 70 72 74–80}</p> <p>CMOC 52: If there is opportunity to have communal eating and relaxing in a ‘cosy’ environment (C), then members are more likely to keep coming (O), as this will provide comfort and foster group cohesion (M).^{45 70}</p>

CMOCs, context–mechanism–outcome configurations.

Table 2 Recommendations for practice (for a full list of CMOCs, see online supplemental file 6)

Keeping members	
<p>Getting members</p> <p>Emphasise the social aspects of your intervention, including food and refreshments, for wide appeal CMOC 1–CMOC 2^{45 53 55 62–64 67 69 80}</p> <p>Ensure a warm, welcoming, non-stigmatising introduction, with strong staff interpersonal skills and an appealing venue CMOC 3–CMOC 9^{41–69}</p> <p>Foster understanding and support from trusted friends, family and health professionals, as their encouragement can be key CMOC 10–CMOC 14^{41 43 46 47 52 53 59 61 63 67 70 78 80–84}</p> <p>Provide meaningful activities that have resonance with people's interests and experience, personal history and culture CMOC 15–CMOC 20^{46 49 50 52 53 55 58 61–63 67–70 72 74–77 82 85–89}</p> <p>Be sensitive to differences in abilities, ages and stages and aim to empower members rather than avoid challenges for them CMOC 21–CMOC 24^{42 48 53 63 65 67–69 74 78 84}</p> <p>Offer information and advice to connect with a broad range of people who may be in need CMOC 25^{47 49 50 59 78 90}</p> <p>Ensure people can get there easily, safely, reliably and cheaply CMOC 26–CMOC 30^{41–43 49 50 52–54 58 61 64–66 69 70 78 81 83 87 90 91}</p> <p>Stay in constant contact with potential referrers and keep them involved CMOC 31–CMOC 32^{46 51 56 59 60 66 79 80 84}</p> <p>Your 'public relations' strategy should focus on who the intervention is for and what people can expect, and use existing networks to spread your message CMOC 33–CMOC 41^{41–43 46 49–54 56 59 61 64 66 67 71 72 75 77–80 83 85 87–89 92–94}</p> <p>Consider simple and easy self referral CMOC 43–CMOC 46^{43 49 50 52 62 66 79 81 84 85 88 93}</p>	<p>Keep activities relaxed, loose and focused on the social, and encourage friendships and peer support CMOC 47–CMOC 52^{45 48–50 53 55 59 62 63 66–68 70–80}</p> <p>Encourage normalised activities and social integration outside of the group to empower members and reduce stigma CMOC 53–CMOC 57^{42 43 46 51–54 57 59 62–64 66 67 71 72 76 81 95}</p> <p>Be person-centred: Give members input into planning and decision-making, and respect their individual needs and autonomy CMOC 58–CMOC 63^{41 45–51 53 57 60 64 66 68 70–72 76 79 89 96}</p> <p>Talk to family or care partners about what arrangements and support they need in place CMOC 64–CMOC 65^{43 49 50 52–55 59 62 65 66 78 83}</p> <p>Be sensitive to differences in abilities, ages and stages and have strategies to differentiate and manage activities so needs don't clash CMOC 66–CMOC 70^{42 46 48–54 62–66 71 72 76 79–81 83}</p> <p>Ensure your venue is comfortable, stable and familiar, with adequate facilities and multiple spaces for use CMOC 71–CMOC 72^{48 53 60 68 94}</p> <p>Stability and reliability matters to members, so aim for structure and minimise disruption CMOC 73–CMOC 77^{41–43 45 48 52 53 66 70–72 77 78 80}</p>
<p>Getting staff and volunteers</p> <p>Network proactively: Engage in outreach activities to boost visibility and awareness; approach other groups and organisations for help CMOC 78–CMOC 83^{51 53 55 61 63 64 66 72 74 82 85 88 89 94 96}</p> <p>Get to know potential stakeholder groups in the local population that may provide a reliable volunteer base, and consider how to reach out to them CMOC 84–CMOC 90^{58 61 67 70 86 88 96–98}</p> <p>Not all personnel need expertise, but ensure facilitators have good interpersonal and leadership skills, and your volunteer workforce is reliable CMOC 91–CMOC 95^{43 55 56 63 66 76–78 80 84}</p>	<p>Keep staff and volunteers</p> <p>Foster flexibility, collaboration and communication skills in personnel to create a healthy and effective working environment CMOC 96–CMOC 97^{64 65 81 84 98}</p> <p>Plan strategies to maintain the satisfaction and enjoyment of staff and volunteers, and to avoid burnout CMOC 98–CMOC 104^{43 48 57 63 66 75 79 80 89}</p> <p>If possible, have financial support in place for staff roles and volunteers activities, so they will feel secure and valued CMOC 105–CMOC 108^{56 72 78 84 89 92}</p>
<p>Getting Support of Other Organisations</p>	<p>Keeping support of other organisations</p>

Continued

Table 2 Continued

Getting members	Keeping members
<p>Focus on raising awareness and communicating value both to professionals and the community, involving them where possible CMOC 110–CMOC 114^{42 44 46 47 55 59 60 66 75 80 84 85 89 91 95}</p> <p>Approach and ask other community organisations if they can help with venue, resources, training, volunteers or contacts CMOC 115–CMOC 118^{51 53 57 63 67 70 72 74 76 77 80 82 85 97 98}</p> <p>Use your physical location (venue or neighbourhood) as an opportunity to build links with others sharing that space CMOC 119–CMOC 121^{46 47 53 63 64 67 84}</p> <p>Seek out like-minded groups to band together with and share knowledge, resources, contacts and strategy CMOC 122–CMOC 124^{47 72 82}</p> <p>To avoid conflict with other organisations, minimise overlap, involve them or offer them something of benefit CMOC 125–CMOC 131^{46 47 51 56 65 66 72 75 77 84 89 91 93}</p>	<p>Maintain constant contact and information sharing with the organisations, services and referrers you work with, with a dedicated person responsible if possible CMOC 138–CMOC 142^{44 46 49 50 55 56 60 72 82 84 89}</p> <p>Seek authoritative external advice on overcoming differences in culture with other organisations, and up-skilling staff for collaboration CMOC 143–CMOC 148^{46 56 64 65 75 81 82 84 91}</p> <p>Take time to formally plan how collaboration will work, involving collaborators in that planning CMOC 149–CMOC 152^{46 49 50 56 66 75}</p>
Getting funding and income	Keeping funding and income
<p>Ensure communication is clear about what the intervention does and its value CMOC 153–CMOC 163^{44 46 51 56 61 66 75 80 84 85 94 99}</p> <p>Build ‘social capital’ and forge partnerships with other community organisations to help with costs and boost the case for viability and value for money CMOC 164–CMOC 169^{61 65 66 75 80 81 83–85 92 98–100}</p> <p>Learn how to effectively plan and network to find funding, through knowledge-sharing with like-minded groups and seeking external advice CMOC 170–CMOC 175^{42 51 60 65 66 85 91 96 99}</p> <p>Initiatives in rural areas should make clear the particular challenges that they face when seeking funding CMOC 176–CMOC 179^{55 89 96}</p> <p>Find out what the national priorities are for dementia, and see if you can tailor your activities to fit; if not, lobby to change the national agenda CMOC 180–CMOC 184^{44 46 47 55 56 60 64 81 82 85 89 91 92 96 100 101}</p>	<p>Keep in touch with previous, current and potential funders on an ongoing basis, as this will help when applying in the future CMOC 185–CMOC 188^{51 60 66 75 99}</p> <p>Pay attention to how money can be put to use most efficiently and effectively for the benefit of all by co-operating and sharing with other organisations CMOC 189–CMOC 190^{75 80 81 83 85 98}</p> <p>Plan a long-term strategy to build a portfolio of multiple income streams that are flexible in what they contribute to paying for CMOC 191–CMOC 194^{49 50 75 85 89 99}</p> <p>Ensure someone has the time and expertise to continually seek and apply for funding CMOC 195–CMOC 197^{75 85 89}</p> <p>Emphasise deep learning and experience as an asset when calling for longer term funding CMOC 198–CMOC 201^{44 55 56 81 82 84 91 92 101}</p>

CMOC, context–mechanism–outcome configuration.

felt, or perceived they would feel should they attend: both for overcoming initial anxiety and stigma and fostering a happy, cohesive group (CMOC 3–CMOC 9; CMOC 15–CMOC 24; CMOC 53–CMOC 63; CMOC 71–CMOC 72). Staff attitudes and a comfortable, accessible venue play a role in this, but also planned practices, such as involving members in decision making (CMOC 58–CMOC 63), differentiating activities for need and ability (CMOC 21–CMOC 24; CMOC 66–CMOC 70) and ensuring enough opportunity and time for socialising (reported to be of high importance to people no matter what the intervention or activity) (CMOC 1–CMOC 2; CMOC 47–CMOC 52). The stability and reliability of an intervention was also important, though often at odds with nature of groups run informally with few personnel and unstable income (CMOC 73–CMOC 77). Overall, ensuring individual wants and needs are met—that people they feel they are gaining something useful and appropriate to them in particular—was important to keeping members long term (CMOC 47–CMOC 72).

Data regarding getting and keeping staff and volunteers were least abundant of the four critical outcome areas, though working with other organisations was frequently alluded to as helpful in finding personnel (CMOC 78–CMOC 83). Data regarding skills of personnel were largely around the role of communication and collaboration in creating an encouraging and effective environment for staff and volunteers (CMOC 84–CMOC 97). Context was key with regards to the availability of potential volunteers in the local population, as this could be very different depending on location (eg, rural or urban), with different likely mechanisms requiring different approaches to finding and encouraging volunteers from different demographic groups (CMOC 84–CMOC 90). With regard to keeping volunteers, issues raised included the importance of maintaining work satisfaction and avoiding burnout, and having financial support available (CMOC 98–CMOC 108).

Getting and keeping support of other organisations, such as other community groups, health and social care services, third sector bodies, local authorities and local businesses was a widely recurring theme in the data. Actively involving other organisations, minimising overlap, sharing knowledge and resources and offering something of benefit were all ways to encourage them to feel invested in supporting an intervention rather than threatened or indifferent to it (CMOC 122–CMOC 131), in addition to proactive awareness raising and networking (CMOC 110–CMOC 121). Good collaboration planning (with expert advice on collaborative working), along with continual attention to maintaining communication, were strategies to avoid problems developing or loss of enthusiasm with partner organisations (CMOC 138–CMOC 152).

On getting and keeping funding and income, salient CMOCs again involved continual networking and communication, for the reason that this would support multiple mechanisms: by reducing costs through sharing

and partnership; boosting visibility, legitimacy and value in the eyes of potential and existing funders; and helping to locate more funding and income opportunities (CMOC 153–CMOC 175; CMOC 185–CMOC 190). Data made some reference to the importance of strategic planning in finding and managing funds, with outside expertise and dedicated personnel helpful in carrying this out (CMOC 170–CMOC 175; CMOC 191–CMOC 197). While tailoring an intervention to national (and therefore funders') priorities may increase its chances of obtaining funding, this is not always possible or desirable for a group (CMOC 180–CMOC 184). Groups in rural areas particularly, or experienced groups unable to find anything but short-term solutions, may have to raise greater awareness with commissioners and policy-makers about the specific challenges that face them, and lobby for change to ensure better conditions for groups in their situation long term (CMOC 170–CMOC 179; CMOC 198–CMOC 201). For example, rural groups with a small number of members and personnel can struggle to meet funders demands, especially if put in competition with larger, well-resourced organisations.

Recommendations for policy and commissioning

In addition, 13 recommendations for policy-making and commissioning were also drawn (see [box 1](#)), for the most part mirroring those for practice and drawing on the same CMOCs.

The final recommendation covers CMOCs unique to policy-making and commissioning, highlighting issues such as the detrimental effect of a disjoin between national policy and local need on an intervention finding support (as by adhering to one they will neglect the other) (CMOC 132). Practices that could benefit the sustainability of community interventions included ring-fencing funding specifically for dementia-targeted community initiatives; commissioning health and social care services to work with community initiatives; and developing health pathways around existing community networks (CMOC 133–CMOC 135). National and official organisations can also encourage a more strategic, joined up direction regarding community-based dementia support by showing leadership in working with smaller, local initiatives and support for potential private sector partners (CMOC 136–CMOC 137).

DISCUSSION

Summary of findings

Being able to continually get and hold on to members, staff and volunteers, the support of other services and organisations, and funding/income are the key factors in the long-term sustainability of a community-based intervention for people affected by dementia. There are multiple mechanisms that feed into these suboutcomes, sensitive to context. Ability to attract members was found to be driven by perceptions that a group or activity was 'for them', and expectations they would be

Box 1 Recommendations for commissioning/policy-making (for a full list of context–mechanism–outcome configuration (CMOCs), see online supplemental file 6).

Recommendations for commissioning/policy-making.

Service users value the social side of an intervention highly, often more than the intervention or activity itself

CMOC 1–CMOC 2; CMOC 47–CMOC 53^{43 45 46 48–50 52–55 57 59 62–64 66–80}

Service users need to feel an intervention is ‘for them’ to want to attend and keep attending

CMOC 15–CMOC 24; CMOC 66–CMOC 70^{42 46–55 58 61–72 74–89}

Lack of appropriate transport can be a major barrier to an intervention getting and keeping attendees

CMOC 26–CMOC 30; CMOC 65^{41–43 49 50 52–55 61 62 64–66 69 70 78 81–83 87 90 91}

Health and social care services that may refer to an intervention need incentive and guidance to do so

CMOC 42–CMOC 44; CMOC 134–CMOC 135^{52 55 66 74 81 82 84 85 93}

To retain staff and volunteers there needs to be adequate financial support in place for roles and activities

CMOC 105–CMOC 109^{55 56 72 78 84 89 92}

Established community organisations, including local authorities, can offer help in a number of ways to enable small-scale interventions to flourish

CMOC 115–CMOC 118^{51 53 57 63 67 70 72 74 76 77 80 81 85 97 98}

Access to advice on how to create partnerships, collaborate and overcome differences in culture with other organisations can help

CMOC 143–CMOC 148^{46 56 64 65 75 81 82 84 91}

Access to advice on how to effectively plan and network to help find and manage funding and income can help

CMOC 170–CMOC 175^{42 51 60 65 66 85 91 96 99}

Commissioners should be flexible and accommodating of the challenges facing small groups regarding evidence gathering

CMOC 176–CMOC 179^{55 89 96}

Policy-makers should ensure policy meets local needs with adequate, protected and accessible resources attached

CMOC 180–CMOC 182; CMOC 184^{44 46 47 55 56 60 64 81 82 85 89 91 92 96 100}

Longer-term funding, with simplified application processes, would help smaller initiatives with less capacity to continue

CMOC 195–CMOC 197^{75 85 89}

Longer term funding to support what is already being done will help retain and develop learning and practice on how best to meet local need

CMOC 198–CMOC 200^{44 55 56 81 82 84 91 92}

Authorities and national organisations can help create conditions that encourage support for small initiatives, though policy, leadership and commissioning

CMOC 132 – CMOC 137^{44 52 55 56 64 74 82}

welcomed, respected and supported without stigma once attending, as well as having motivated referrers and low logistical barriers, including transport. Members are more likely to keep attending if they feel comfortable, at home, respected and empowered, with individual needs understood. Opportunity for socialising was found to be of high importance no matter what the intervention type, with stability and reliability also important. Networking and outreach were found to be important in getting staff and volunteers; feeling satisfied, valued and supported (including financially) was important in keeping them. Proactive measures to raise awareness and involve other organisations, avoiding conflict and sharing knowledge

and resources, were found to help in securing essential support, though requiring significant maintenance through skilled communication, planning and working practices. Such networking and collaboration were found to be helpful in finding and securing funding and income, with skilled planning and management of multiple income streams helpful in sustaining long term. However, the often short-term nature of funding was found to be a barrier to retaining deep learning and experience, and disjoints between national policy and local need a barrier to securing both funding and wider support. Challenges in meeting funders’ requirements and overcoming logistical barriers were especially acute for small-scale and rural groups.

Strengths and limitations

This review was designed to gather evidence regarding how regularly meeting community-based interventions for people affected by dementia can be sustained, not on the efficacy/effectiveness of interventions of this type, hence conclusions regarding the latter are beyond its scope. Literature was limited as this research question is not commonly the main focus of study in dementia care research. This meant some CMOCs arrived at were the result of abundant data sources, while others were not, hence the CMOCs here vary in robustness (see online supplemental file 6). While efforts were made to exclude data of low rigour (see online supplemental file 3), it is the nature of a realist review to include data from a variety of source types to build a theoretical model piecemeal; not all of the data were of equal depth and detail and many will not meet the highest level of empirical rigour, rather they contribute together in a way that is useful to the theoretical constructs that are the CMOCs and overall programme theory.³³ The results of this review therefore should be taken as theory and sit in relation to other research: SCI-Dem provides a theoretical framework which can be put to the test and further refines by subsequent empirical research.³³ The breadth of intervention types covered in this review is on the one hand a strength, as it has enabled the surfacing of commonalities in experience likely relevant to a wide range of real-world initiatives broadly in the same category; on the other hand, it means this review cannot be specific on certain details. An example is that little could be concluded on the cost-effectiveness or economic functioning of the interventions covered, because details were both too scant and too specific to draw robust CMOCs that might usefully be applicable to others.

The practice of one researcher carrying out the bulk of article selection and data analysis, with a second researcher independently checking 10% at each stage for consistency (along with regular input and discussion with other members of the research team) is common in realist review, but nevertheless can be seen as a limitation, as in Cochrane-style systematic reviews double-screening by two reviewers independently is recommended for greater reliability of results. However, it should be noted

realist review is a theory-driven interpretive approach with significant differences to more traditional forms of systematic review²⁹; that is, the aim is to develop an evidence-informed theory rather than a comprehensive summation of all research data available on a particular research question.

Recommendations and comparison with existing literature

Recommendations for practice and policy are presented in [table 2](#), [Box 1](#), in the results section. However, they also highlight some common problems for which there may be no easy solution, for example, what to do in rural areas where public transport coverage is poor and potential members and volunteers are few and widespread, given that transport to venue is a key factor in getting and keeping members. The issue of whether interventions can be entirely self-sustaining or must rely on service-level agreements and grant funding is also a key one. This review suggests that costs can be reduced and income opportunities found by proactive networking and collaborative working; though rather than removing the need for grant funding, this is, more likely, useful in leveraging it, adding to it and helping it to go further. Recent research into whether social enterprises delivering adult social care services (not dementia specific) could be self-sustaining suggests that marketing is key but needs to focus on building relationships with stakeholders at multiple levels rather than adopting an approach akin to selling a product³⁶: networking and marketing are closely bound up with each other. Delivering social quality as well as service quality, having a hybrid workforce and diverse income streams to strengthen financial viability and reduce reliance on grants were also found to help.³⁷ This review echoes all of these points with regards to dementia-targeted community-based interventions, in particular that interventions cannot sustain without a cultivated support network around them, as well as careful collaborative financial planning and management.

The emphasis found in this review on the value to members of social activity and a respectful, empowering person-centred approach, reinforces the benefits of community-based initiatives and regular social activity, both for people living with dementia and the people who care for them.^{12–19} However, the time-limited nature of most research in this area is unhelpful when seeking data on the long-term sustainability of such interventions, with a large number of articles excluded from this review due to this. Recent systematic reviews have found that psychosocial interventions tend to be short term, with short-term trials only measuring short-term impact, and a pressing need for more longer-term studies with larger sample sizes.^{14 38} However, there is a ‘chicken and egg’ problem: if policy and commissioning is hesitant to support interventions unless there is evidence of robust statistical effects, then such interventions will struggle to sustain long enough, in enough abundance, to have the numbers to carry out the research required to produce that evidence. Equally, if research focuses only on

efficacy/effectiveness without attention to the implementation process, and reporting of how costs were met and resources, personnel, and service users were found, then little can be learnt about sustaining them.

Future research directions

When drafting inclusion criteria for this review in 2018 it was decided to focus on interventions that brought people together to meet physically and socially, as distinct from community services that go into people’s homes. It did not take into account virtual community activities or communities at-a-distance, which at the time seemed like a distinct niche. In 2020, however, this kind of activity became much more important, and integrated with the activities of existing community groups that met physically prior to the COVID-19 pandemic. With COVID-19 the landscape for community-based interventions has changed significantly, presenting further unprecedented challenges, but the need for groups that connect people socially remains acute. A recent study by the Alzheimer’s Society¹¹ revealed COVID-19 restrictions have had particularly negative impacts on the health and well-being of people affected by dementia and their carers, a finding echoed by the Alzheimer’s Disease International’s update report for 2020.³⁹ Restrictions have forced changes to routine, causing anxiety and strain in relationships; led to a reduction in skills and confidence; and increased pressure on home carers, not least through the erosion of support systems.⁴⁰ Many support initiatives will have ceased operating either temporarily or permanently. As the effects of the pandemic continue to be felt, there is an urgent need for community-based interventions to find ways to keep going or re-establish quickly when emerging from COVID-19 restrictions. While the data used in this review predated the pandemic, it can provide a framework for new research to look at what sustainability-impacting elements have been affected and how. This review presents a theoretical model of the factors and mechanisms involved in the long-term sustainability of community-based interventions. As such it is for further research to put this model to the test by comparing it empirically with real-world interventions going forward, which will further refine and add to this programme theory in a postpandemic climate.

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