Investigating what works to support family carers of people with dementia: a rapid realist review

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INTRODUCTION

Advances in longevity and medicine mean that many more people in the UK survive life-threatening diseases but are instead susceptible to life-limiting diseases such as dementia. Within the next 10 years those affected by dementia in the UK is set to rise to over 1 million, making reliance on family care of people with dementia (PXD) essential. A central challenge is how to improve family carer support to offset the demands made by dementia care which can jeopardise carers’ own health. This review investigates ‘what works to support family carers of PWD’.

METHODS

Rapid realist review of a comprehensive range of databases.

RESULTS

Five key themes emerged: (1) extending social assets, (2) strengthening key psychological resources, (3) maintaining physical health status, (4) safeguarding quality of life and (5) ensuring timely availability of key external resources. It is hypothesized that these five factors combine and interact to provide critical biopsychosocial and service support that bolsters carer ‘resilience’ and supports the maintenance and sustenance of family care of PWD.

CONCLUSIONS

‘Resilience-building’ is central to ‘what works to support family carers of PWD’. The resulting model and Programme Theories respond to the burgeoning need for a coherent approach to carer support.

KEYWORDS

adult resilience, Alzheimer’s disease, dementia, family carers, realist review
therefore support the continuation of long-term, informal care provision via family care,\textsuperscript{11} a view that meets the desires of the majority of PWD who prefer to live out their lives within the community they belong\textsuperscript{9} and of their family members who largely endorse this choice. At present, a major obstacle to achieving this is that the majority of family carers of PWD rely on ‘trial and error’ approaches to carrying out the carer role,\textsuperscript{12} that cannot guarantee long-term success.\textsuperscript{13}

An alternative is to develop our understanding of ‘what works to support family carers of PWD’, and crucially also how, i.e. the underlying contexts and mechanisms that generate effective and sustained family care. This would pave the way for the more strategic provision of family support that maximizes those resources carers already possess while finding more effective ways to allocate external support, e.g. from formal health-care services.\textsuperscript{13} Optimizing family carer support should also focus on measures that safeguard the health of family carers themselves, a factor that remains critical to enabling longer-term family care of PWD.

The present review forms part of a wider project that will subsequently be informed by field work to further examine and explore the findings.

**Objectives and focus of review**

A recurring theme in family carer research is the polarity of carer response to the challenges of taking on the role.\textsuperscript{14} While some carers become overwhelmed by the experience others appear to not only maintain stability but may even report improvements over time.\textsuperscript{14} The review investigates key factors that relate to ‘what works to support family carers of PWD’ and how this knowledge might be more widely promoted to benefit all carers of PWD.

**Methods**

**Rationale**

Traditional review methods such as systematic review and meta-analysis tend to focus on outcomes to provide information that is mainly descriptive and assume outcomes are generated by linear causation.\textsuperscript{15} However, where complex social issues are investigated causation may often be non-linear, requiring approaches with greater explanatory power that offer comprehensive explanations of ‘process’. A Realist approach\textsuperscript{16,17} was deemed appropriate based on its ability to provide useful tools for synthesizing complex and wide-ranging evidence from the diverse sources predicted to emerge and to illuminate not only ‘what works’ but also ‘how’. While full Realist reviews engage in a much longer exploration of the literature and period of ‘testing’, rapid realist reviews (RRRs) have recently emerged to facilitate a speedier transition from research to policy and practice.\textsuperscript{18} This is particularly useful during the initial phases of a multi-phase project where research findings need to be rapidly adapted and iteratively refined to take account of emerging evidence. RRRs have proved effective where there is a small but emerging body of evidence on which future policies might be based but where there is insufficient evidence to support a Realist Synthesis of the existing literature.\textsuperscript{19} These criteria applied to the present study.

The present RRR attempts to adhere to the Realist publication standards guidelines\textsuperscript{20} as faithfully as possible. However, the recency of RRRs as an approach means there is also some necessary reliance on the handful of RRRs already in existence to inform the methodology employed. In particular, replication of the five step review process employed by Willis et al.\textsuperscript{19} to streamline and accelerate the review process. Further, since the present review forms part of a PhD thesis the expert, practitioner and lay expertise normally offered by an expert/reference panel was instead provided by the Supervision team who represent the co-authors of the review.

**Scoping review**

The search process involved an initial scoping review based on the Google and Google Scholar search engines to identify relevant abstracts. This indicated that the evidence base was relatively narrow with little consensus regarding the broad question of ‘what works to support family carers of PWD’. A comprehensive second string search of the literature via electronic databases (including grey literature) was deemed essential in order to derive sufficient evidence to formulate reasonable hypotheses.

**Searching processes**

The second string search of the literature was conducted using more refined search terms and guided by inclusion criteria (see Table 1). This included filtering of articles to achieve breadth of coverage, relevance and depth.

Five main databases were interrogated for relevant abstracts that focused on both general and specific information and also included information on the psychological dimension of dementia care since it is well established that the majority of carers of PWD will encounter psychological challenges.\textsuperscript{21} Searches also included grey literature based on voluntary sector reports. Articles meeting any of the inclusion criteria were retrieved for full text screening. Full text articles meeting inclusion criteria proceeded to full extraction (further details concerning this process can be obtained by contacting the corresponding authors). Articles not meeting any of the above...
Selection and appraisal of the documents identified included data extraction helped to inform the background to the project. Criteria were excluded from the results, but where relevant helped to inform the background to the project.

Data extraction
Selection and appraisal of the documents identified five broad themes encompassing different areas of family carer support (see Results). While this proved helpful in providing some necessary coherence to the findings what was notably absent was a means to provide cohesion among these disparate categories. A main setback to providing more effective carer support is that at present interventions tend to lack coordination. A unified theory was therefore needed to explain all the observed patterns and uniformities in the data, i.e. an overarching middle-range theory (MRT). This required further consideration of what in Realist terms the principal ‘outcome’ was intended to be with regard to the majority of interventions explored by the review. Thus, ‘outcome’ was more clearly operationalized as ‘those measures designed to augment carers’ capacity to maintain and sustain the longer-term family care of PWD despite the challenges this may present’.

Retrodictive inquiry, including exploration of a range of potential MRTs, was conducted to establish how this

<table>
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<th>Table 1 Search process, search terms and number of abstracts selected per database to be assessed against the inclusion criteria as a precursor to selection for extraction</th>
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<tr>
<td>‘Scoping Review’ based on the Google &amp; Google Scholar search engines to glean background information concerning the research question: ‘What works to support family carers of PWD?’ This confirmed the initial contention that there was a relatively narrow database surrounding this question.</td>
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<td>‘Second string search’ of more bespoke databases related to the scientific, medical, physical, psychological and social science bases of the research question. Principally, this included any documents relating to the family care of PWD or Alzheimer’s disease; any efforts or interventions designed to support family carers; barriers to support &amp; current health policies relating to this.</td>
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<td>‘Third string iterative search’ based around selection of ‘resilience’ and ‘resilience-building’ representing the most plausible overarching candidate mechanism &amp; middle-range-theory to account for the more specific carer outcome of supporting the long-term maintenance &amp; sustenance of the family care of PWD.</td>
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<tr>
<td><strong>Search Results</strong></td>
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<tr>
<td>428 articles from Northumbria University Research Articles database (NORA)</td>
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<tr>
<td>146 articles from Applied Social Sciences Index and Abstracts (ASSIA)</td>
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<tr>
<td>30 articles from Social Services Abstracts</td>
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<tr>
<td>110 articles from PsycARTICLES</td>
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<td>484 articles from ISI Web of Science</td>
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<td><strong>Search Terms</strong></td>
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<tr>
<td>Scholarly article-peer-reviewed</td>
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<tr>
<td>Content Type: Any</td>
</tr>
<tr>
<td>Subject Terms: dementia</td>
</tr>
<tr>
<td>Subject Terms: caregivers</td>
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<tr>
<td>Filtered from 2005 to 31 December, 2014</td>
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<td><strong>Search Results</strong></td>
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<td>2 separate searches:</td>
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<td>(a) ‘Family carers’ ‘dementia’ ‘resilience’</td>
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<tr>
<td>(b) ‘resilience’.</td>
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<tr>
<td><strong>Search Results</strong></td>
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<td>For search (a) 28 PubMed articles</td>
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<tr>
<td>For search (b) 152 PubMed articles</td>
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<tr>
<td>Scholarly article-peer-reviewed, Conference papers &amp; proceedings, dissertations &amp; Theses</td>
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<tr>
<td>Content Type: Any</td>
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<tr>
<td>Subject Terms: carers</td>
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<tr>
<td>Subject Terms: caregivers</td>
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<tr>
<td>Filtered from 2005 to May 2015</td>
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<tr>
<td>Age Range: 18 years or over</td>
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<tr>
<td>Language: English</td>
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<td>Filtered from October 2005 to May 2015</td>
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Inclusion criteria descriptions:
(1) Article discusses dementia within the context of family care, informal care and unpaid care.
(2) Article discusses Alzheimer’s disease within the context of family care, informal care and unpaid care.
(3) Article discusses what works to support the care of PWD/Alzheimer’s disease.
(4) Article discusses potential barriers to the care of PWD/Alzheimer’s disease.
(5) Article discusses potential interventions employed to support the care of PWD/Alzheimer’s disease.
(6) Article discusses the health policies surrounding the care of PWD/Alzheimer’s disease.
(7) Article discusses the health policies surrounding the care of PWD/Alzheimer’s disease and offers recommendations for the future based on research evidence and stakeholders’ experiences.

*Articles meeting any of the above criteria were retrieved for full text screening, even where only one criterion might be met. Full text articles meeting inclusion criteria proceeded to full extraction. Articles not meeting any of the above criteria were excluded from Results, but where relevant helped to inform the background and introduction to the review.*
outcome might be generated. These included factors previously associated with the ability to maintain a carer role despite adverse circumstances: extraversion, optimism and hardness. However, a main drawback is that these primarily represent personality traits. As such they are relatively stable in later adulthood and not therefore amenable to interventions designed to modify them to improve health outcomes. A further MRT that was considered was 'fear' and in particular, fear of the consequences of cessation of family care and subsequent institutionalization of the PWD as a potential overarching mechanism driving the maintenance of family care. However, it seemed doubtful that the chronic experience of fear provides any long-term solution to 'what works to support family carers'.

Ultimately, the contention was raised that what connected all the carer support measures examined was their ability to contribute to 'carer resilience' to generate the outcome of sustaining long-term family care of PWD (see Fig. 1). 'Resilience' is here operationalized as 'Resilience bolstered by assets and resources' that combine to provide a cumulative buffer against adversity as well as by supportive behavioural choices and actions'. 'Mechanisms' is defined here as (a) those key resources that remain external to the family carer such as principal social assets and key service support resources; (b) those key resources that remain internal to the family carer such as carers' physical health status and psychological resources associated with resilience-building; and (c) how all these combine to influence carers' quality of life (QOL). This definition remains consistent with recent Realist interpretation of 'mechanism' as a combination of resources, some of which will originate from external sources and some of which are inherently internal resources including inner reasoning/actioning (for a review see Dalkin et al. 

A third string literature search was therefore conducted to establish how 'resilience' might be related to the support of family carers of PWD. This revealed that 'resilience' was related to each of the five themes (see Table 2) and supported the MRT that 'resilience' and the related process of 'resilience-building' might represent the cornerstone supporting those factors that work to support family carers of PWD.

'Unpacking' the underlying mechanisms within the interventions uncovered by the third string literature search revealed several salient sub-components (strategies, programmes or interventions) within each of these five domains (see Fig 2). These were explored to examine how they might be adapted, combined and usefully exploited to strengthen carer resilience. For example, QOL was found to be an important mediator of carer health and wellbeing, with low QOL associated with burnout and depression, symptoms commonly experienced by carers of PWD as well as predictors for cessation of family care. Key to maintaining carer QOL is ensuring time is set aside to sustain hobbies and interests which has been shown to exert a positive impact on carers. Frequent engagement in pleasurable activities that promote positive emotions promotes health benefits and has been correlated with individual resilience. However, maintaining opportunities to engage in QOL may require differentiated (i.e. day, overnight or more extended) availability of external resources such as respite care which has demonstrated effectiveness in extending family care of PWD (further examples are illustrated in Table 2).

**Results**

Initial searches identified 217 documents that met the inclusion criteria following screening. Selection and appraisal of the documents identified five broad themes encompassing different areas of family carer support (see Fig. 1). Data synthesis and analysis led to the refinement and consolidation of the five recurrent themes identified from the literature. This led to the contention that 'resilience' might be strongly associated with achieving this more specific 'carer support' outcome.

Fig. 1 Initial model outlining five main areas for family carers support based around the MRT that resilience is central to 'what works' to support the long-term maintenance and sustenance of family care.
The third string literature search revealed several salient sub-components (i.e. specific or individual strategies, programmes or interventions) within each of these five domains (see Fig. 2) and related Programme Theories (PTs) (see Table 2 below).

**Main findings of the study**

RRR was chosen as a research method capable of detailed investigation of ‘what works’ as well as ‘how’ via explanations for the underpinning mechanisms by which certain strategies or interventions might work and to bring some much needed consensus to this emergent topic. Investigation of ‘What works to support family carers of PWD’ based on the findings from a comprehensive search of the published literature spanning the past decade, including grey literature, revealed multiple strategies or interventions from a diverse range of findings. However, a main difficulty found was the lack of coherence among the disparate findings. This prevented a more co-ordinated, strategic approach towards carer support that harnessed the most effective strategies, based not only on a knowledge of ‘what works’ but also ‘how it works’.

The MRT that ‘resilience’ and its contingency ‘resilience-building’ might play a central role as the underpinning mechanism that generates support for family carers of PWD, by augmenting carers’ capacity to maintain and sustain the longer-term family care of PWD, crucially serves to provide a unifying principle. Crucially, this offers a means to establish a more comprehensive, coherent and cohesive framework for supporting family carers that harnesses the benefits of multiple strategies. These can be usefully adapted, combined and strategically exploited around the clearer premise of ‘strengthening carer resilience’. The MRT serves to demystify and ‘unpack’ what it is that we mean when we are discussing ‘supporting carers’ and how this might be achieved, i.e. ‘what works’. This helps to meet the burgeoning need to unravel some of the complexity inherent to ‘what works to support carers of PWD’ and to bring some much needed consensus in response to this important question. The resulting model and PTs provide a relatively comprehensive and cohesive framework for how carer resilience might be generated. They also provide a framework for subsequent empirical testing (see Table 2).

The MRT is also supported by more recent interpretations of ‘resilience’ that emphasize its role as a ‘process’ that

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**Fig. 2** Expanded framework for how carer resilience might be generated to support family carers of PWD. ‘Quality of Life’ is defined here according to the WHO interpretation: ‘individuals’ perception of their position in life in the context of the culture and value systems in which they live and in relation to their goals, expectations, standards and concerns—a broad ranging concept affected in a complex way by the person’s physical health, psychological state, level of independence, social relationships, personal beliefs and their relationship to salient features of their environment.101 Each of the remaining four themes are defined by their sub-components. Specific definitions are provided for the psychological resources: (i) self-efficacy, (ii) hope and (iii) coping ability (see Table 2).
Table 2 Programme theories based upon ‘what works to support family carers of PWD’ and links with resilience

<table>
<thead>
<tr>
<th>Action Theme</th>
<th>(C) Context provided by Strategy/Intervention</th>
<th>(O) Potential Mechanisms &amp; How they may operate to instil Resilience to generate (D) outcome-defined as ‘support for family carers of PWD’ &amp; Bases for links with Resilience. References are in superscript.</th>
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<tr>
<td>Action Theme 1: Extending Social Assets</td>
<td>(i) Strong Relational support network</td>
<td>Social support provides effective support for carers,(^{31}) provides protective factor against carer depression,(^{32}) reinforces ability to cope;(^{33}) reduces number of hours engaged in daily care by a single family member; moderates perceived QOL,(^{33}) Social support has often been correlated with resilience(^{33,36})</td>
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<td>(ii) Good relationship with PWD</td>
<td>Reduces potential social tensions alleviates anxiety/stress(^{37}) reduces behavioural management issues that can otherwise promote high levels of stress,(^{58,59}) positive reappraisal of carer events promotes a positive carer-PWD atmosphere(^{40})</td>
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<td>(iii) Fostering effective Service provider support for carers</td>
<td>Additional emotional support provides an extra buffer against carer depression;(^{41}) greater trust needed to be fostered between service providers &amp; carers;(^{32}) telephone support can provide effective emotional support(^{43})</td>
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<td>(iv) Carers &amp; PWD well integrated within dementia friendly community</td>
<td>Encourages acceptance of carers &amp; PWD within the community reducing potential anxiety/tension;(^{44}) facilitates socialization within the community to encourage wider social support &amp; wider engagement in social activities to enhance QOL(^{44})</td>
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<td>(v) Regular Voluntary sector support &amp; close links with other carers</td>
<td>Less formal peer support reduces social isolation &amp; increases emotional support remove potential triggers for carer depression;(^{42,45,46}) older carers may have no relational network &amp; may therefore rely more on the voluntary sector for support(^{47})</td>
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<tr>
<td>Action Theme 2: Strengthen Key Psychological Resources available to carer</td>
<td>(i) Self-efficacy (SE) (the belief that one has the capability to successfully engage in specific actions and exercise control over events that affect one’s life)(^{48})</td>
<td>Raises carer perception of controllability over care situation to reinforce carers’ internal locus of control, self reliance, resilience &amp; perceived capacity to master new domains;(^{38}) high locus of control linked to lower carer perception of care as ‘burden’.(^{49}) Perception of care as ‘burden’ is linked to cessation of family care;(^{49}) SE has demonstrated success by enabling carers to select more effective behavioural choices &amp; actions in relation to dementia care which fosters resilience;(^{50}) High SE is linked to robustness(^{51}) which has close associations with resilience.</td>
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<td></td>
<td>(ii) Hope (a future goal orientation, the belief that goals can be attained, &amp; the cognitive-motivational beliefs that pathways to goals can be created &amp; pursued)(^{52})</td>
<td>Mediates psychological distress;(^{53}) remaining positive in outlook provides a buffer against depression;(^{54}) mobilizes resources to adapt to changes;(^{55}) promotes problem-solving &amp; growth-seeking behaviours;(^{56}) reducing social isolation &amp; increasing carer locus of control boosts hope.(^{57}) Resilience can be ‘bolstered by supportive behavioural choices and actions’,(^{29}) i.e. encouraging carers to become more proactive in self-help via problem-solving and growth-seeking behaviours.(^{56})</td>
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<td>(iii) Coping ability (the process by we which people manage stress)(^{58})</td>
<td>Acceptance-based coping may permit meaning &amp; growth to be derived from the care situation;(^{59}) perceived ability of carers to cope may provide a buffer against sleep loss;(^{60}) coping strategies can be learned &amp; adapted;(^{61}) carers may require different coping strategies at different stages of dementia: e.g. problem-solving to begin with, cognitive reappraisal during middle stages &amp; behaviour management during later stages;(^{38,39}) carers with fewer coping strategies may be more vulnerable to stress;(^{62}) enhancing carer coping skills is high on the agenda where carer interventions are generally considered.(^{37}) Positive coping skills have been identified as important to resilience.(^{37})</td>
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<td>Action Theme 3: Maintaining Carer’s Physical Health Status</td>
<td>(i) Perceived level of carer health</td>
<td>Carers’ health is mutually bound to the PWD’s health rather than mutually exclusive;(^{38}) Carers’ health status ultimately decides between maintenance of family care or cessation;(^{46}) Safeguarding carers’ own health remains a priority in dementia care via a supportive health-care system(^{40}) While the actual physical health status of carers remains crucial so too does how well they perceive their general health, e.g. perceived levels of stress can make a unique contribution to depression(^{53}) &amp; carers of...</td>
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Table 2  Continued

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<tr>
<th>Action Theme 4: Safeguard Carer’s QOL</th>
<th>(i) Opportunities to experience positive affect (feelings of active pleasure)</th>
<th>(ii) Maintenance of affect balance</th>
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<td></td>
<td>QOL is an important mediator of carer health &amp; wellbeing(^74) with low QOL associated with burnout &amp; depression(^75) which in turn predict cessation of family care,(^72) key to maintaining carer QOL is ensuring that time is set aside each day to engage in activities that by sustaining hobbies, interests and outlets for activities outside the care environment &amp; this has been shown to exert a positive impact on carers;(^70) frequent engagement in pleasurable activities that promote positive affect promotes health benefits.(^73) Some authors have explicitly operationalized ‘resilience’ as QOL, emphasizing the close links between the two;(^31) experiencing positive emotions (positive affect) via daily life experiences correlates with individual resilience.(^76) Maintaining affect balance is important in order to keep moods &amp; emotions in check &amp; to ensure that emotional experiences are not continually negatively biased; ability to self-moderate positive affect (how pleasurable experiences are perceived) may be higher in older adults than for their younger counterparts;(^78) perhaps due to increased emotional maturity &amp; emotional strength. However, this still relies on maintaining opportunities to engage in positive affect in the first instance.(^78) External resources may need to be made available in order to ensure this, e.g. respite care, day care, sitting services.</td>
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<tr>
<th>(C) Context provided by Strategy/Intervention</th>
<th>(M) Potential Mechanisms &amp; How they may operate to instil Resilience to generate (O) outcome-defined as ‘support for family carers of PWD’ &amp; Bases for links with Resilience. References are in superscript.</th>
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<tr>
<td>PWD are vulnerable to depression.(^21) Strong links have been drawn between the maintenance of good physical health &amp; resilience.(^64) The importance of maintaining carers’ health in order to sustain family care of PWD via regular contact with GP,(^65) a factor recognized by the as reflected in the Carers Act (2014).(^66) Since chronic fatigue is a commonly cited issue among long-term carers(^67) the regular inclusion of slow-burning starches to increase energy &amp; stamina might provide a necessary boost to carers’ energy levels. Since the majority of carers of PWD are 60 years of age or over(^46) they may be vulnerable to anaemia, the commonest haematological condition found among older population groups.(^68) Anaemia caused through iron deficiency can lead to symptoms of general fatigue. An iron rich diet &amp;/or the use of iron supplements may therefore prove beneficial for carers of PWD. Regular physical activity carries physical &amp; psychological health benefits for carers(^69) &amp; may include brisk walking for 15 min/day to increase cardiovascular fitness and promote anxiolytic effects that can reduce sensitivity to stress. Exercise may be combined with pleasurable activities to promote positive affect &amp; enhance QOL;(^70) Exercise can promote SE.(^71) Carer sleep deprivation caused by the sundowning phenomenon associated with PWD remaining active during the night can induce sleep deprivation, exhaustion &amp; ultimately reduce carers’ perception of being able to cope(^80) &amp; is a key predictor of cessation of family care,(^72) possibly via its links with depression.(^63) Promotion of uptake of respite care may provide one way of supporting carers’ management of sleep. Supportive behavioural choices and actions enhance resilience(^79) &amp; these might include maintaining an energy balance between effort expended in carrying out the daily care of PWD and appropriate dietary intake as well as regular physical activity. The combination of healthy diet &amp; regular physical activity has been found to contribute to resilience in older age(^73) &amp; this is relevant to the majority of carers of PWD who are aged 60 or over.(^46)</td>
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| (ii) Objective measures of carer health as defined by General Practitioner (GP) check ups |
| Since chronic fatigue is a commonly cited issue among long-term carers\(^67\) the regular inclusion of slow-burning starches to increase energy & stamina might provide a necessary boost to carers’ energy levels. Since the majority of carers of PWD are 60 years of age or over\(^46\) they may be vulnerable to anaemia, the commonest haematological condition found among older population groups.\(^68\) Anaemia caused through iron deficiency can lead to symptoms of general fatigue. An iron rich diet &/or the use of iron supplements may therefore prove beneficial for carers of PWD. |

| (iii) Adherence to a healthy, balanced diet |
| Since chronic fatigue is a commonly cited issue among long-term carers\(^67\) the regular inclusion of slow-burning starches to increase energy & stamina might provide a necessary boost to carers’ energy levels. Since the majority of carers of PWD are 60 years of age or over\(^46\) they may be vulnerable to anaemia, the commonest haematological condition found among older population groups.\(^68\) Anaemia caused through iron deficiency can lead to symptoms of general fatigue. An iron rich diet &/or the use of iron supplements may therefore prove beneficial for carers of PWD. |

| (iv) Regular physical activity |
| Regular physical activity carries physical & psychological health benefits for carers\(^69\) & may include brisk walking for 15 min/day to increase cardiovascular fitness and promote anxiolytic effects that can reduce sensitivity to stress. Exercise may be combined with pleasurable activities to promote positive affect & enhance QOL;\(^70\) Exercise can promote SE.\(^71\) |

| (v) Perception of generally good quality/quantity of sleep |
| Carer sleep deprivation caused by the sundowning phenomenon associated with PWD remaining active during the night can induce sleep deprivation, exhaustion & ultimately reduce carers’ perception of being able to cope\(^80\) & is a key predictor of cessation of family care,\(^72\) possibly via its links with depression.\(^63\) Promotion of uptake of respite care may provide one way of supporting carers’ management of sleep. Supportive behavioural choices and actions enhance resilience\(^79\) & these might include maintaining an energy balance between effort expended in carrying out the daily care of PWD and appropriate dietary intake as well as regular physical activity. The combination of healthy diet & regular physical activity has been found to contribute to resilience in older age\(^73\) & this is relevant to the majority of carers of PWD who are aged 60 or over.\(^46\) |

References

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(ii) Subjective experience of life, living & domains of life such as work, leisure & family remain generally positive

(iv) Finding Self-development, Growth & Meaningfulness in life through the care experience

Subjective experience of care as ‘burden’ is strongly linked to the cessation of family care of PWD.79 By contrast, ability of carers to frame their experiences more positively can mediate the impact of the chronic stress commonly associated with carers of PWD,80 cognitive reappraisal is a learned strategy that can be taught to carers of PWD & has shown success in promoting positive subjective experience81. The concept of finding ‘caregiver meaning’ through the experience of caring for a PWD represents a useful and adaptive coping strategy82 that may be more readily accepted as we move into our 1950s.83 This factor is relevant since the majority of carers of PWD are aged 60 or over.46 Finding positive dimensions to the carer experience such as finding growth, meaning & development through it can provide a constructive coping strategy to mediate the impact of chronic stress on carers of PWD.84 Both the availability of emotional support & engagement in pleasurable activities to experience positive affect may contribute to this adaptive coping strategy. More complex techniques such as cognitive restructuring may demand more intensive external support, i.e. via mindfulness training. The ability to perceive meaning in life despite adverse circumstances has been identified as a factor relating to resilience.85

A central issue is that a reported 47% of family carers of PWD do not receive any external support at all.42 How carers of PWD cope may be very much dependent on the external resources available.40 ‘Resilience’ is here defined as ‘resilience bolstered by assets and resources’28 that combine to provide a cumulative buffer against adversity.29 External resources that have demonstrated success in supporting carers of PWD despite the multiple challenges they face include but are not limited to:

(i) Respite care has demonstrated effectiveness in extending family care of PWD.86 It can also assist with the maintenance of hobbies & interests to promote QOL & socialization-both identified as protective factors associated with carer health. However, respite care needs to be of a good standard42 as well as personalized to meet individual needs.63

(ii) Sitting & befriending services is very much dependent on both the quality of care that is offered & the opportunity for consistency regarding who provides this service & how much this strengthens rapport with PWD & the family carer. However, evidence indicates that its uptake by carers of PWD can provide a protective factor against depression.87 This is significant given that depression is a marker for cessation of family care of PWD.88

(iii) Carer training, coaching & mentoring provides additional emotional support for carers & PWD,42 enhance carer empowerment89 & carer SE90 & provide opportunities to network with other carers, develop many useful contacts & gain from peer support/social support.42

(iv) Relevant information & advice supports navigation of the health-care system & signposting of carers to resources likely to be most relevant to present needs facilitates uptake of vital services to ensure carer support is optimized.60 prevent haphazard trial & error searches for assistance by carers that create frustration & increase internal locus of control.91

(v) Group Cognitive Behavioural Therapy (CBT) Training Psychoeducational programmes such as CBT have been shown to exert the broadest impact on carer outcomes,77 training carers to develop vital cognitive skills including challenging dysfunctional thoughts, positive reframing as well as behavioural skills such as adaptive coping. CBT represents an effective strategy for mediating vulnerability to depression-something most carers of PWD are vulnerable to.21

(vi) Mindfulness training Provides strategies for controlling negative thoughts92 by teaching skills that help carers better understand & moderate their personal reactions to stress,93 promote self-care & feelings of competence & mastery93 & prevent catastrophic thinking that can lead to undue anxiety, stress & fear.94

develops across the lifespan,96 as adults continue to develop cumulative strength and knowledge based on their experiences of how to adapt to changing circumstances and new challenges (for a review, see Luthar et al.25). Moreover, a view that is beginning to take hold is that older adults possess a lifetime’s accumulation of experiences of striving and succeeding in overcoming adversity, making resilience a developmental process that continues across the course of
adults’ lifespan. A greater accumulation of such experiences over time may mean that older adults who represent the majority of carers of PWD may actually be better placed than their younger counterparts in terms of their potential to harness and exploit this valuable resource. Of particular interest to the present research is how ‘resilience’ as a process might be susceptible to mediation to support carers, a concept which has recently become a central component of the ‘Changing Minds, Improving Lives’ programme which forms part of the current modernization of dementia services in Scotland.

Arguably, this calls for a move away from traditional ‘burden of care’ models than automatically predict poor carer outcomes irrespective of any carer support that may be provided. Focussing attention on carer ‘resilience’ and ‘resilience-building’ effectively reframes how we perceive the carer role and how carers themselves can perceive it, with the emphasis switched to how caregiving can be made successful.

What is already known on this topic

Advances in longevity and medicine mean that many more people in the UK survive life-threatening diseases but are instead susceptible to life-limiting diseases such as dementia. Within the next 10 years those affected by dementia in the UK is set to rise to over 1 million, making reliance on family care of PWD essential. A central challenge is how to improve family carer support to offset the demands made by dementia care which can jeopardise carers own health. This review explored the contribution of over a thousand published documents that related to dementia care. What was notably absent was any consensus in the data regarding ‘what works to support family carers of PWD’ and more fundamentally ‘how’ the disparate array of strategies ‘work’. This is despite a burgeoning need to find a coherent approach to family carer support.

What this study adds

The present review adds to the existing literature by highlighting the potential for a more coherent and cohesive means of organizing and orchestrating support for family carers of PWD from within five key areas that focus positively and constructively on the relative strengths of family carers, particularly their capacity for resilience and resilience-building. This MRT crucially serves to unravel some of the complexity inherent to what supports carers of PWD by offering a guiding principle and clear rationale to inform the mobilization of a wider range of individual and external resources that can be combined and integrated to promote a more holistic, comprehensive and positive approach to supporting carers than might otherwise be achieved. The resulting model and PTs respond to the burgeoning need for a more coherent and strategic approach to carer support that harnesses the benefits of a wider range of resources. Arguably, this calls for a paradigm shift in how family care of dementia is perceived, i.e. away from traditional ‘burden of care’ models that focus on failure and towards models of care that reinforce the sustainability of family care, i.e. by harnessing family carers’ potential for resilience and strength.

The resulting model and PTs also provide a platform from which to conduct subsequent empirical testing of the hypotheses and to investigate how further contexts might be created that similarly promote resilience in carers, as well as how resilience might support adult health more generally.

RRRs lend themselves to emerging research topics such as the present study by producing explanatory accounts of what works based on a wide range of sources, while the streamlined review process provides a rapid and timely response to pressing policy needs.

Limitations to this study

The model does not represent an exhaustive taxonomy. Rather, it serves to highlight main areas hypothesized to support carers. Both the model and PTs remain iterative and subject to further refinement during subsequent ‘testing’ and as new evidence emerges from future research.

The review presents a challenge to the traditional biomedical interpretation of adult resilience that emphasizes resilience deficits and decline rather than an opportunity to exploit it as a key resource in the promotion of strength and growth in health contexts. The question of how family carers of PWD can best be supported and how resilience may more generally contribute to the health of older adults remain emergent areas for research.

Further studies are also warranted that focus more exclusively on how different social contexts and associated demographic factors influence how resilience operates.

RRRs represent a recently developed methodology, subject to further iterative refinement.

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