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Using a systematic review to uncover theory and outcomes for a complex intervention in health and social care: Life Story Work for people with dementia as a worked example

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SCHOLARONE™ Manuscripts Using a systematic review to uncover theory and outcomes for a complex intervention in health and social care: Life Story Work for people with dementia as a worked example

Objectives: To use a systematic review to uncover theor<u>iesy of change</u> and outcomes for Life Story Work (LSW) in dementia care to inform a feasibility study. We describe the methods used and discuss their use in identifying appropriate outcomes for evaluative research, and their potential for improving evaluation of 'theory poor' interventions.

Life Story Work (LSW) involves gathering information about a person, their history and interests and producing a tangible output, usually a book. It is used increasingly in dementia care; however, underlying theory about if, how and why it affects which outcomes is poorly developed, making the choice of evaluation methods and appropriate outcomes difficult.

Methods

A systematic review, carried out using Centre for Reviews and Dissemination guidelines, searched for evidence on underlying theory, good practice, and effectiveness of LSW to inform a feasibility study. For the theory element, a 'landscaping review' analysed the extracted text, was analysed using qualitative techniques and mind maps to uncover both explicit and implicit links (causal linksroutes) between LSW and outcomes. We triangulated review findings with qualitative work-research (focus groups) with people with dementia, caregivers, and professionals that explored the outcomes that they would like to see from LSW.

Results

Of the 56 publications reviewed, only 16 were useful for the theory analysis. Six overarching outcomes were identified: the self-worth and empowerment of people with dementia; individual psychological outcomes; improved relationships between care staff and the individual with dementia; better care; more effective engagement of family members/carers within the care setting; and helping carers to cope. Twelve final theories linking these outcomes to LSW via a causal pathway were elicited. There was substantial overlap in the outcomes identified by the review and the interviews withby carers, people with dementia and professionals. Together, the results informed our choice of outcome measures for a pilot evaluation.

Conclusions

This approach may enable researchers to identify and develop the theory necessary before evaluation of a complex intervention in other under- or un- theorised areas. It has the potential both to shorten development stages (and thereby costs) in intervention research and with the potential to-improve the intervention itself.

Introduction

The evidence for complex interventions in health and social care, particularly those that cross the health and social care boundary, is often weak. For example, despite systematic reviews of large literatures, the recent draft English guideline for people living with dementia and their carers was able to develop only one 'do' recommendation for interventions to promote cognition, independence and well-being. Similarly, a recent meta-review of interventions to support carers of people with a range of conditions pointed to 'the dearth of good-quality primary research about the effectiveness of most support interventions for carers' (p.77). Two major issues underlie this weakness.

First, there is <u>a the simple</u> lack of evaluative research, particularly in social care where the literature largely comprises descriptions of the intervention, accounts of its use in practice settings and, occasionally, some measure of outcome after implementation but none before.

Secondly, even where evaluation exists, it is often undermined by the absence of any theoretical underpinning that links the outcomes reported with the intervention being evaluated (pp.77-8).² As a result, evaluation searches for improved outcomes without any pre-existing theory about why and how we might *expect* the particular intervention to affect the given outcome.² Evaluation then proceeds with chosen outcomes that might have little likelihood of being affected by the intervention. This pattern is becoming less common with the adoption of MRC guidelines for the evaluation evaluating of complex interventions^{33,4} but systematic reviews of such interventions are likely to remain hampered by the lack of clear, theory-driven evidence for some years to come.

Both these issues may reflect historic underfunding of research in such areas, where both policy and practice can encourage a 'rush to evaluation' (and, indeed, a 'rush to implementation') of intuitively attractive interventions before the preliminary work to underpin both their development and testing has been done.²,⁵

This was the situation we found when embarking on a feasibility study for formal evaluation of life story work (LSW) in dementia care.⁶

LSW gathers information and artefacts about people, their history and interests, and produces a picture book or other tangible output – the 'life story'. The story'. It has been used in health and social care settings for nearly three decades, with children, people with learning disabilities, and older people. Understanding the rich and varied histories of people with dementia is seen as essential to good care. Since the 1990s there has been growing interest in LSW as a way of achieving this understanding to deliver person-centred care. It is now used in dementia care across the world.

LSW is distinct from reminiscence and 'biographical work', ¹³ because it emphasises using the life story in day-to-day care and is oriented to the future. Life stories, as-The tangible products, are owned and held by people with dementia and can travel with them to other settings, for example into acute medical care or from home to long-term care. LSW is thus also different from the simple logging of life history details in care records.

LSW has key features that justify its description asof a complex intervention, as defined by MRC Guidance.⁴ It can involve large numbers of and interactions between its components, significant numbers and difficulty of behaviours for those who deliver and receive it, targets for the need for change at more than one organisational level, numerous and variable outcomes, and flexible and tailored delivery.

Embarking on our study, LSW seemed an archetypal example of an under-theorised and under-evaluated intervention that was nonetheless popular in care delivery. There was enthusiasm for it, practitioners felt that they observed change when they usedusing it, but it was difficult to pin down any theory about why these changes might eome aboutoccur. For In evaluating evaluative work on LSW (as for many other interventions in health and social eare), there was thus a danger that evaluation might choose the wrong outcomes – both intermediate and final — might be to assessed. Research might then fail to demonstrate change, when enhance it was actually taking place, or demonstrate change that had little to do with the intervention's underlying aims.

The first stage of our work included a systematic review of the existing literature. While we did not exclude the possibility of finding some evidence of the effectiveness or costs of LSW, the developmental and feasibility-testing nature of the project meant that it was more important to identify different approaches to LSW, and to elucidate its theories of change its theoretical model(s). This would then help to identify intermediate processes that might be important in implementation, and outcome measures that could be sensitive to the intervention in full-scale evaluation. The complete review, covering all its objectives, is described elsewhere; here we present a reflexetive account of using qualitative analysis of published texts to identify underlying theoretical models for LSW.

The processes and challenges of using systematic review methods for identifying and synthesising theory in areas that are already well-theorised but usually contested, and for developing a theoretical model to help with the design of a review, have already been written about 14-16. In areas already well served by evidence across the causal chain between intervention and outcomes, theoretical models for programme theories of interventions, elements of care deliveryprocesses and outcomes, have been developed using existing literature, stakeholder interviews, previous research and experience (p.9). 17, 18, 19 By contrast,

we are writing here about the processes, challenges and benefits of using a systematic review to uncover intervention theory when both theory *and* evidence are scarce, in order to choose appropriate outcomes for primary research. As such, this is a 'theory-landscaping' review, that identifies the outcomes of an intervention and the implied explanations of the links between intervention and outcomes.²⁰

We defined theory for this part of our work more widely than 'realistic' or 'realist' approaches might recommend or that others conducting systematic reviews of theory have done. Thus, while we hoped to find writing that described context, mechanism and outcome or that allowed description of 'a-causal association' connecting LSW to an outcome 'through a specific pathway or mechanism' (p.5), 16 we examined *any* literature that argued *any* kind of outcome from LSW.

Our project also included qualitative work focus groups with people with dementia (facilitated by *Innovations in Dementia*), informal carers and LSW professionals. This explored both what people thought would be 'good practice' in LSW²³ and what outcomes might be expected to emerge from doing it well. Having both elements in the project presented an opportunity to compare different methods for identifying relevant outcomes for evaluation.⁶

Methods

We followed CRD guidance²⁴ for the conduct of systematic reviews, intending to use a narrative synthesis²⁵ of the extracted material, and a 'realist'- informed approach.^{21, 22}

All elements were carried out between August 2012 and May 2014 and a full description of methods and findings is available.⁶ Here we give brief details of the whole review for context, while concentrating in detail on the theory element where the main research question was:

 What underlying logic models or theories of change for LSW are articulated in the literature?

Search strategy

An information specialist (WW) carried out the searches, using electronic searching of a range of databases covering the fields of health, mental health, nursing and social care. Search strategies focussed on the retrieval of published studies and 'grey literature' where interventions were described explicitly as life story/life history/life review or life narrative within the title/abstract. The complete search strategies are included in the final report⁶ and an example is_at 1 in the on-line supplementary orting-material. The searches were carried out in August and September 2012, were not limited by date, but were limited to English language results.

The results were loaded into EndNote bibliographic software and de-duplicated using several algorithms.

The reference lists of all articles included for review were searched for relevant additional studies.

Inclusion and exclusion criteria

We developed inclusion and exclusion criteria based on the literature and in consultation with the project steering group and our project advisers, and finalised them through an iterative process during the early stages of searching (table 1).

Selection of studies for relevance

We selected material first using titles and abstracts (where available) to assess relevance. Two researchers (XX and YY) worked individually and then in pairs to reach agreement about relevant studies. We then obtained full copies of the studies selected for relevance and read them before making a final decision about inclusion for review. Three members of the team (XX, YY, ZZ) worked individually and then in pairs to reach agreement about relevant studies. Where we could not reach agreement in pairs, the third member of the team arbitrated.

For the theory element, we were interested in any links that authors made - either explicitly or implicitly - between doing LSW and outcomes (whether for people with dementia, family members/carers or care staff). We originally included publications that argued *any* connection between LSW and *any* outcome, whether or not they also described intermediate causal links. were also described. At the final stage, we further excluded two papers that did not articulate any type of causal link between LSW and the outcome.

Quality assessment

Given the limited evaluative literature on LSW, and the nature of our research questions, we did not include or exclude papers based on their methodological quality.

Data extraction

Data extraction focussed on outcomes reported as arising, actually or potentially, from LSW, for whom these outcomes arose, explicit or implicit assumptions about causation, and any data on changes in outcomes. We also extracted details about the type of LSW described, participants, the care setting, study design and any data or discussion related to good practice in LSW.

For the theory element of the review, the unique data extraction headings were:

- model of LSW
- argued links between LSW and outcomes
- types of primary (final) outcomes argued or demonstrated
- types of intermediate or process outcomes (causal links) argued or demonstrated
- contextual influences and factors that might affect outcomes.

All data extraction for the theory part of the review was carried out by one researcher (YY) and progress and initial findings shared and discussed with team members and the project steering group. Data analysis and synthesis

Identifying underlying logic models

All findings for the theory review were analysed qualitatively and, where possible, metasynthesised, which involved aggregating conclusions from the reviewed publications to generate a set of statements that represented that aggregation, with the aim of producing a single comprehensive set of synthesised findings.

Clear accounts of underlying theory about LSW's impact on outcomes were not common. However, implicit arguments within text were analysed qualitatively to expose implicit theory. The worked example (table 2) shows how we did this from theoretical models deeply embedded in descriptive or discursive text, rather than articulated explicitly.

We used this process to identify all causal links between LSW and the outcome or outcomes that the authors were arguing. In some papers, there was a single such theory; in others there were several. We summarised these theories into an Excel spreadsheet using the data headings outlined earlier, and then mapped them all in a mind map.²⁶

We looked both for theories articulated in the introductory sections of each paper (initial theories) and again for those articulated in the discussion and concluding sections (concluding theories). In both cases, we concentrated on theories that the authors themselves were arguing, not ones that they were repeating or reviewing from others' publications. (See 2 in the supplementary material for the map of the concluding theories. This is displayed to Only two levels of the map are shown level two only, given the complexity of the diagram).

We synthesised the material from the mind maps, and identified a set of overarching outcomes. Given that most Most of the papers in this part of the review included some empirical work (even if only a description of the use of LSW). We therefore, we took the used concluding theories as the basis for this final stage of analysis, assuming that these would be a more accurate reflection of the authors' views about LSW, its outcomes and its causal pathways.

Results

Numbers of papers identified

The PRISMA diagram (figure 1) shows the process through which the 657 identified studies were reduced to a final selection of 56 papers for the whole review and 18 for the theory work. Two theory papers were subsequently removed (see p.8). We also identified sixTwo existing systematic reviews or meta-analyses were included in the wider review, but none of these was used for the theory workneither synthesized programme theory relating to LSW processes and outcomes. Publication details for the whole review are in the final report. Table 3 shows Ddetails of the 16 studies that were included in the theory work are in table 3.

As figure 1 suggests, little of the identified literature few studies presented any explicit or even implicit explanation of why LSW might lead to better outcomes for people with dementia, their carers or care staff.

Theories for LSW

concluding theory. The included papers outlined 26 initial, but 47 concluding theories.

Some theories were relatively simple, with only one intermediate outcome or mechanism between LSW and a final outcome. So, for example, concluding theory 3 (see appendix 1, boxes 1 and 2 in the final report⁶) was that LSW leads to interactions between care staff and family members (*causal link*), thus strengthening understanding of, and the relationship with, family members (*outcome*).

The mind mapping generated complex and complicated pictures of both initial and

Others theories were much more complex, and sometimes argued two separate final outcomes from the same causal chain. For example, concluding theory 24 (final outcomes in bold) was:

- 24: LSW enables staff to gain a fuller and more dynamic picture of person with dementia which
 - 24.1: increases their knowledge of the person (causal link), which
 - 24.1.1: enables them to find out more about a person's needs and behaviour (outcome);
 - 24.1.2: helps staff see the person in context of their whole life rather than in terms of their medical condition/physical needs (outcome);
 - 24.1.3: provides a talking point between staff and the person with dementia

(causal link), which

24.1.3.1: helps develop a common bond between the person with dementia and staff (outcome)

Here we see an intermediate outcome (24.1) that led to two final (24.1.1 and 24.1.2) and one further intermediate outcome (24.1.3), which led itself to a further final outcome (24.1.3.1). Despite the complexity, overarching or common final outcomes were evident. In the The next stage of analysis we identified these and synthesised the causal links that the literature suggested led to them. Here we included only outcomes that at least four papers identified as resulting from LSW. This was an entirely pragmatic decision; with only 16 publications to draw on, setting a criterion of around a quarter that argued a similar chain between intervention and outcome offered at least some possibility of a secure security of message from the analysis.

Then, within each outcome, we included only theories where at least two studies had argued that the same or similar causal links led to these outcomes. Again, this was a pragmatic decision.

In total, we identified six overarching outcomes and 12 theories, derived from 16 different papers.

The overarching final outcomes (in bold) for the person with dementia were:

- 1. **LSW supports the self-worth and empowerment of people with dementia**, for example by increasing a sense of control, pride in their lives and opportunity for reciprocity.²⁷⁻²⁹
- 2. LSW affects a range of psychological individual outcomes positively, for example reducing anxiety, depression, agitation, mood and behaviour. ^{13 30 27 31 32 33, 34 35 28, 36}

Final outcomes in relation to the care setting were:

- 1. LSW improves relationships between care staff and the individual person with dementia. $^{10,\,30,\,35,\,37}$
- 2. **LSW leads to better care**, for example encouraging more person-centred, individualised, less 'pathological' care on a one-to-one basis. ¹³ ²⁹ ³⁰ ³⁸ ²⁷ ³⁴, ³⁵, ³⁷, ³⁹

For family members and carers, the final outcomes were:

- 1. LSW allows more effective engagement of family members/carers within the care setting, for example leading to enhanced communication with staff and more meaningful involvement in care planning and delivery. ^{10, 13} ³⁸ ^{28, 37}
- 2. LSW helps carers to cope better. 38, 40 28 31, 33

The models and their links to the overarching outcomes are summarised in figures 2 to 7.

Synthesising the logic model review and material from the qualitative work

We shared the results of both the review and the focus groups qualitative work with our steering and advisory groups, the partner organisations hosting the feasibility study, and with specialist advisor Professor Esme Moniz-Cook, lead author of the INTERDEM European consensus document on outcome measures for psychosocial intervention research in dementia care ⁴¹. There was general agreement in discussion that the primary overall outcome of interest for people with dementia was quality of life (QoL), albeit that this might be influenced by intermediate outcomes such as the maintenance of skills or feeling understood. Interpersonal outcomes might also influence quality of life; impact on relationships, in particular, was felt to be worth exploring as an outcome in its own right, along with impact on identity.

QoL was also agreed to be a primary outcome for carers, with impact on relationships and satisfaction with care also-important.

Staff approaches to care, both in terms of person-centred care and perceptions in terms of both person-centred care and perceptions of service users with dementia, might also have an impact on QoL, whether though individual outcomes or changes to care routines. We also hypothesised that improvements to care might influence staff burnout.

Table 4 presents the outcomes we agreed to include in the feasibility study. As this suggests, this choice took some of the final outcomes from the review to a further stage of abstraction. For example, for people with dementia, increased self-worth and reduced 'negative' psychological and behavioural outcomes were translated into 'quality of life'. Similarly, enhanced coping for carers was subsumed into a general assessment of quality of life.

In other cases, intermediate outcomes in the theories from the review – for example, perceptions of clients with dementia, and person-centred approaches to care that might lead to 'better care' for the person with dementia – were adopted as final *staff* outcomes for the feasibility work.

One outcome from the review that did not feature in the chosen outcomes was engagement with family members/carers in the care setting. Conversely, an outcome from the qualitative research work that did not feature in its own right in the theory review was an enhanced sense of identity for the person with dementia.

Discussion

A possible problem of searching for theoretical papers within the results of an existing systematic review is, as Campbell et al have argued, that the inclusion and exclusion criteria may exclude publications that 'provide detailed theoretical discussions without presenting

empirical data' p.6.¹⁶ Our wide approach to searching, by including anything that might throw light onto the theoretical underpinnings of LSW, avoided this issue. Despite this, only publications were finally relevant to the theory element.

A further limitation, given the small literature, is the lower likelihood of finding contrasting theoretical accounts. The LSW in dementia field has a relatively small number of actors, with much joint authorship, and the publications showed a high degree of cross-referencing. While we confined our analysis to authors' own argued or implicit theories, not those they were repeating from others' work, shared theoretical commonality across authors is still possible.

The type of review described here, derived from an under-developed literature will, inevitably, depend on reviewers' own formulation and characterisation of 'theory' from what others have written. Given the lack of explicit theory in the papers, the dangers of over-interpreting the text are obvious. However, we have provided a worked example of our analysis, and our data extraction tables are freely available, as are the mind maps that drove the final synthesis, thus allowing others to judge whether our conclusions are warranted.

Triangulation of findings from the review and the qualitative research showed a high degree of commonality in the outcomes identified that the review and the qualitative work identified, albeit with some variation in whether they were defined as identified as final or intermediate outcomes. The review identified one outcome absent from the qualitative work, related to involving family members or carers in care settings. This probably reflects the number of publications in the theory review that were about LSW in long-term care settings. Similarly, the qualitative work identified one outcome – enhancing personal identity for the person with dementia - that did not feature in its own right in the review. However, the intermediate outcomes of self-affirmation and pride and of an increased sense of control or power for the person with dementia that the review *did* identify might imply an enhanced sense of identity.

In areas of When health and social care that interventions are both under-theorised and underresearched, but already widely used, our approach may offer a more rapid way of identifying appropriate outcomes for evaluation. A theory review may not be able completely to replace the need for qualitative work with stakeholders. However, if our theory review had happened before, rather than alongside, the qualitative research work perhaps we could perhaps, have had more focussed discussions with participants about the outcomes they thought might arise from LSW and the related causal pathways. Achieving saturation of the qualitative material might then have been more rapid, allowing both smaller numbers of participants and faster collection and analysis in the qualitative work. Future methodological research could compare these two approaches formally.

A theory review of this type might also create opportunities for improving interventions, allowing practice refinements towards achieving the outcomes that theory suggests are POL. important.

Conclusions

We have described here a way of using a systematic review to elucidate theory in a currently under-theorised area of dementia care. Doing this alongside in-depth qualitative work and validation with stakeholders allowed us to choose outcomes and outcome measures for a feasibility study that mapped clearly onto the derived theories. This approach in other undertheorised areas, of which there are many in health and social care, may enable, post-hoc, the identification and development of identification and development of theory that MRC Guidance on the evaluation of complex interventions mandates,⁴ and perhaps also improvement of to improvement of the interventions themselves.



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Table 1. Inclusion and exclusion criteria

eria	Exclusion criteria
Studies that included, and papers that	Literature on LSW outside the
were about, people with dementia or	dementia/Alzheimer's disease
Alzheimer's disease (including	context.
'confusion' or 'memory problems')	
Studies that evaluated or that threw light	
on the theoretical underpinnings of	
LSW with people with dementia.	
Any outcomes reported for the person	
with dementia, their informal carers, or	
paid care staff.	
Any study design, qualitative or	Opinion pieces and letters.
quantitative.	
Studies published after 1984.	7
	Studies not in English.
	Studies that included, and papers that were about, people with dementia or Alzheimer's disease (including 'confusion' or 'memory problems') Studies that evaluated or that threw light on the theoretical underpinnings of LSW with people with dementia. Any outcomes reported for the person with dementia, their informal carers, or paid care staff. Any study design, qualitative or quantitative.

Table 2. Worked example of how analysis uncovered underlying theory from text

Text	Analysis	Underlying theory
The group that participated in a	The carers' assessment of	LSW that was a
dyadic life review (caregiver and	the care receivers' 'problem	shared process
care receiver) seemed to gain most	behaviours' improved (final	that was enjoyed
from the intervention, particularly in	outcome for family carers)	changed the carers'
their assessment of the care	because the dyadic life story	assessment of
receiver's problem behaviours.	process was shared (implicit	'problem
Possibly because they were	causal link) and was	behaviours'.
enjoying the process simultaneously	enjoyed (implicit causal	
and were sharing an event again. ²⁴	link).	
(p.171).		

Table 3. Study details: final selection of studies for logic models element of the review

Study	Country	Type of	Setting	N involved	Methods used, if	Who delivered LSW?
		publication or			research	
		study				
Batson et al.,	UK	Evaluation of	Home/care	9	Semi-structured	Health care professionals
2002 ²⁷		LSW	home		interviews	
Buron, 2010 ³⁷	USA	Evaluation of	Nursing home	5 pwd, 36 staff	Pre-test, post-test staff	Nursing care staff
		LSW	464	۵	individualised care	
			4	701.	measure	
Caron et al.,	USA	Description of	Nursing home	At least 12	-	Not entirely clear but
1999 ³⁸		LSW project		'biography	V	probably care staff and a
				groups' of		facilitator.
				family carers		
Chapman et	USA	Evaluation of	Own home	54 with mild to	RCT (creation of LS	Speech and language
al., 2004 ³⁶		LSW when in		moderate AD	book plus drug vs.	therapists/students.
		combination			drug + placebo	

Study	Country	Type of	Setting	N involved	Methods used, if	Who delivered LSW?
		publication or			research	
		study				
		with Donepezil			condition)	
Chaudhury,	USA	Evaluation of	Nursing home	12 pwd and their	'Short survey' n.o.s.	Not clear but probably
2002 ³⁹		LSW	<u></u>	family carers,		the author.
			70/0	plus 12		
			464	professional and		
			4	care staff		
Clarke et al.,	UK	Evaluation of	Transitional	1/0	Qualitative before and	Support workers in care
200310		LSW project	care unit in		after design, with focus	settings
			NHS trust and		groups with staff in	
			nursing home		both settings and semi-	
					structured interviews	
					with pwd and family	
					members	

Study	Country	Type of	Setting	N involved	Methods used, if	Who delivered LSW?
		publication or			research	
Damianakis et al., 2010 ²⁸	Canada	Evaluation of LSW	10 in own home, 2 in long-term care setting	12 family members of pwd (6 with diagnosed AD	Observation and indepth interviews.	Family members supported by 'multi- media biographers and social workers'
Egan et al.,	Canada	Evaluation of	Long-term	and 6 with diagnosed MCI) 4 pwd and all	Single subject,	Research assistants
2007 ³²		LSW	care settings	staff who worked with them.	repeated measures design logging aggressive behaviours, plus interviews with	
Gibson et al.,	UK	Evaluation of	Residential	30 pwd, 14 care	staff. Pilot study using pre-	Not entirely clear. One

Study	Country	Type of	Setting	N involved	Methods used, if	Who delivered LSW?
		publication or study			research	
2006 ³⁴		LSW	care setting	staff	test, post-test design	part of chapter mentions
					and control group.	family members (p. 128),
					Range of standardised	but rest of chapter is
			70/-		measures.	about care staff.
Hagens et al.,	Canada	Evaluation of	Nursing home	5 people with	Participant observation	Authors
2003 ³⁰		LSW project	4	confirmed	and interviews with	
				cognitive	two residents.	
				impairment	1	
Haight et al.,	USA	Evaluation of	Not clear but	22 pairs of pwd	Pre-test, post-test	Not entirely clear but
2003 ³³		LSW when	appears to be	and family	comparing LSW with	seems that authors
		done with and	in own home	carers	and without	worked with pwd and
		without family	of pwd		involvement of family	carers.
		carer			carer, and a control	

Study	Country	Type of	Setting	N involved	Methods used, if	Who delivered LSW?
		publication or			research	
		study				
					condition.	
Morrow-	USA	Description and	Nursing	-	-	Professional facilitator
Howell et al.,		'field testing'	homes			and family members
1997 ⁴⁰		of LSW	70/			
Kellett,	Australia	Evaluation of	Residential	7 family	Qualitative pilot study	Family members and care
Moyle,		LSW	care	members, 7 care	using focus groups	staff facilitated by
McAllister,				staff	with participants	researcher
King, &				.6	1	
Gallagher,						
2010^{13}						
McKeown et	UK	Evaluation of	NHS in-	4 pwd, their	Multiple case study	Author facilitated.
al., 2010 ²⁹		LSW	patient and	family carers	design. Semi-	
			day care	and care staff.	structured interviews,	

Study	Country	Type of	Setting	N involved	Methods used, if	Who delivered LSW?
		publication or			research	
		study				
			settings		observation and	
					conversation.	
Murphy,	UK	Description of	-	-	-	-
2000 ³⁵		LSW and guide	10/-			
		to practice	46h	۵		
Yasuda et al.,	Japan	Evaluation of	Memory clinic	15 memory	Experimental ABCA	Authors
2009 ³¹		LSW		clinic out-	design, with TV	
				patients with	programmes as control	
				probable	conditions.	
				diagnosis of AD		

AD – Alzheimer's disease

MCI – mild cognitive impairment

LS/LSW – Life story/life story work

NHS – National Health Service (UK)

PWD – person living with dementia



Table 4: Outcomes identified for feasibility study

Outcome chosen	Outcome for
Wellbeing/ QoL	People with dementia
	Carers
Relationships (person with	People with dementia
dementia/carer)	
	Carers
Identity	People with dementia
Overall satisfaction with care	Carers
Perception of clients with	Staff
dementia	
Person-centred approach to care	Staff
Staff satisfaction and	Staff
strain/burnout	

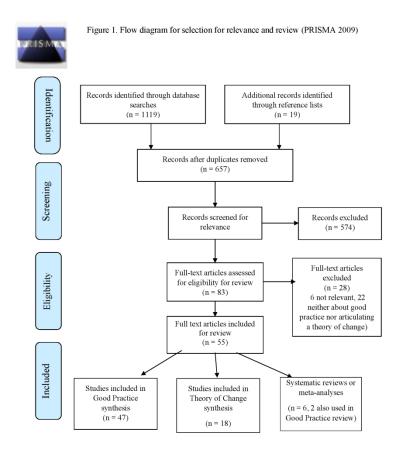


Figure 1. PRISMA diagram 210x296mm (250 x 250 DPI)

Figure 2. Theories of change for increased self-worth of person with dementia

Study	First link	Second link	Third link	Final outcome
Batson ²⁷ Hagens ²⁸	Being listened to/ opportunity to share self with staff	Increased sense of control/power	-	Increased self- worth
Damianakis ²⁶ McKeown ²⁵	Being valued and recognised	Self-affirmation and pride	-	worth

Figure 2

210x296mm (250 x 250 DPI)

Figure 3. Theories of change for improved individual outcomes for person with dementia $\,$

Study	First link	Second link	Final outcome
Egan ³⁰ Kellett ⁴⁰ Hagens ²⁸	Increased staff knowledge of, and interaction with, person with dementia	Facilitates more person-centred or individualised care	Reduced 'negative'
Chapman ³³ Haight ²³ Gibson ³² Yasuda ²⁹	Person with dementia is engaged in/enjoys the LSW process	-	psychological and behavioural outcomes

Figure 3 210x296mm (250 x 250 DPI)

Figure 4. Theories of change for improving relationships between staff and the person with dementia

Study ID	First link	Second link	Final outcome			
Murphy ³¹ Clarke ¹⁰ Hagens ²⁸	Get to know the person with dementia	Improve interaction and communication	Improve relationships between staff member			
Chaudhury ³⁶ Clarke ¹⁰		Understand current actions and behaviour	and person with dementia			

Figure 4 210x296mm (250 x 250 DPI)

Figure 5. Theories of change for improving care

Study ID	First link	Second link	Third link	Final outcome
Chaudhury ³⁶ Gibson ³² Kellett ⁴⁰ McKeown ²⁵ Murphy ³¹	Increases staff understanding of the person with dementia	Enables staff to 'see' the person with dementia/ makes the person with dementia 'knowable'	Facilitates more person-centred or individualised care	
Batson ²⁷ Buron ³⁴ Chaudhury ³⁶ Murphy ³¹ Hagens ²⁸	Increases staff knowledge about the person with dementia	Improves 'fit' between care provided and person with dementia's needs/interests	Improves overall care	Better care
Buron ³⁴ Chaudhury ³⁶	Increases staff knowledge about the person with dementia	Changes aspects of the 'job' and staff behaviour	environment	

Figure 5

210x296mm (250 x 250 DPI)

Figure 6. Theories of change for more effective engagement of family/members in care setting

Study ID First link		Second link	Finaloutcome			
Caron ³⁵ Damianakis ²⁶ Kellett ⁴⁰ Chaudhury ³⁶ Chapman ³³	[Carer-led or focussed LSW] improves recognition and empowerment of family member/carer in care setting [Staff-led LSW] leads to more interaction and involvement with family members/carers	More inclusive relationship between family member/carer and care setting with care planning and delivery Care staff have more knowledge and understanding of family members/carers of people with dementia	More effective engagement with family members/carers in care setting			

Figure 6

152x215mm (300 x 300 DPI)

Figure 7. Theory of change for helping family members/carers to cope better

Study ID	Firstlink	Second link	Final outcome
Caron ³⁵ Damianakis ²⁶ Morrow- Howell ³⁷	Enables carer to remember past life of person with dementia	Changes family members/carers' appraisal of person with dementia and their current condition	Enhances coping of various types
_			

Figure 7 152x215mm (300 x 300 DPI)