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The experience of transitions in care in very old age: implications for general practice

Short title: Transitions in care in very old age

Fiona Scheibl 1* , Jane Fleming 1* , Jackie Buck 2 , Stephen Barclay 1 , Carol Brayne 1 , and Morag Farquhar 2

¹ Department of Public Health and Primary Care, Cambridge Institute of Public Health, University of Cambridge

² School of Health Sciences, University of East Anglia

* Joint first authors

[‡] Last author

[†] Corresponding author: Dr. F. Scheibl, Research Associate, Department of Public Health and Primary Care University, Strangeways Research Laboratory, 2 Worts' Causeway.

Cambridge CB1 8RN UK. Tel: 44 1223 746867 Email: fs220@medschl.cam.ac.uk

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Key Messages

- Resilience enables very old people to adapt following relocation.
- Some very old people prefer having company in residential care to living alone.
- Moves that sever life-long local connections increase isolation and loss.
- Establishing connections with people or place ahead of a move is beneficial.

Abstract

Background: It can be challenging for general practitioners to support their oldest old patients through the complex process of relocation.

Objective: To provide a typology of the experiences of moving in very old age that is clinically useful for practitioners navigating very old people's relocation.

Methods: Qualitative analysis of data from a mixed methods UK population-based longitudinal study, Cambridge City over-75s Cohort (CC75C), from Year 21 follow-up onwards. Interviews with participants aged ≥95 years old and proxy informants (Year 21:44/48, 92%, subsequent attrition all deaths). Thematic analysis of qualitative data available from 26/32 participants who moved before they died.

Results: Individuals who moved voluntarily in with family experienced gratitude, those who moved into sheltered house or care homes voluntarily had no regrets. One voluntary move into care was experienced with regret, loss and increased isolation as it severed life-long community ties. Regret and loss were key experiences for those making involuntary moves into care, but acceptance, relief and appreciation of increased company were also observed. The key experience of family members was trauma. Establishing connections with people or place ahead of moving, for example through previous respite care, eased moving. A checklist for practitioners based on the resulting typology of relocation is proposed.

Conclusion: Most of the sample moved into residential care. This study highlights the importance of connections to locality, people and place along with good family

relationships as the key facilitators of a healthy transition into care for the oldest old.

The proposed checklist may have clinical utility.

Keywords: Care homes, Falls, Frailty, General practice, Oldest old, Relocation Stress Syndrome

Introduction

As the population ages, general practitioners (GPs) are increasingly called upon to support their oldest old patients though the challenges of frailty/ multi-morbidity and relocation. The oldest old with moderate levels of disability are likely to make voluntary assistance seeking moves to be closer to relatives after a trigger such as bereavement [1, 2]. The likelihood of making an involuntary move into long-term residential or nursing care settings increases in very old age [1, 3, 4] prompted by frailty, falls and hospitalisation [5].

Relocation can be stressful for older people and most will experience anxiety, some confusion, others depression – a process conceptualised as 'Relocation Stress Syndrome' (RSS) [6-8]. Because the oldest old are likely to make multiple transitions (from hospital to respite care and to more than one care home) the risk of RSS increases [2, 9, 10]. Transition theory defines the conditions needed to make healthy transitions as: (i) personal resilience, (ii) support from family or community and (iii) societal conditions that are supportive of older people (good quality residential care) [11, 12]. Some degree of ownership of the decision to move is also required for the transition to be healthy [2]. Ownership is particularly important for people living with dementia because they have lower levels of resilience and hold both positive and negative views on moving into care ("having someone to care for me" / "not being able to go out" [13]). Language is also important: individuals should not be described as being 'placed' in a care-home, which implies passivity, but seen as 'living' in the home [2, 14, 15]. While individuals are more

likely to make a healthy transition if they are resilient and 'buy into' the decision to move, the onus is on care home providers to cultivate a sense of 'home', and present a 'welcoming' workforce culture for new residents [16].

Persons aged ≥85 are much more likely to consult their GP [17] and it is likely they will be the first point of call when a health care crisis triggers the need for relocation. However, the sustainability of the patient-doctor relationship is challenged once the person moves into residential care as contact becomes variable ranging from episodic and reactive, to integral relationships that facilitate high quality person-centred care [18]. GPs attitudes towards care home residents are vary; some feel burdened or helpless when confronted by the severity of illness among this population [19] while others find their role rewarding and meaningful [20]. In this study we draw on qualitative data from a unique sample aged ≥95 to identify the experiences of moving among the oldest old and devise a proposed checklist which may help practitioners respond to, or avert, individual's anxiety about relocation.

Methods

Study design

The CC75C study's methods have been previously described, both for the cohort overall [21] and for the qualitative component [22]. Briefly, the original population-based sample (n=2166, 95% response rate), enrolled in 1985/87 using general practice lists, were reinterviewed every few years until 2013 (Survey 10: Year 28, the final survey before all participants had died). Each survey wave, which included assessments of cognition [23, 24] and disability [25], obtained Cambridge Research Ethics Committee approval and renewed consent. At Year 21 surviving participants were invited to an additional interview with the aim of understanding "what it is like to be so old" which included exploring experiences of moving [26]. Proxies, usually relatives, were also interviewed to gather their insights into these very old peoples' experiences. Interviews with participants and

proxies were conducted in their usual residence, audio-recorded and transcribed. All data were anonymised and identifying characteristics removed. Where quotes are presented in the text below pseudonyms are used to maintain anonymity. The cognitive status of participants is indicated by the abbreviations "SCI" denoting severe impartment, "ModCI" moderate impairment, "MCI" mild impairment and "NCI" not impaired.

Data analysis

Descriptive statistics used quantitative data from core survey measures to summarise sample characteristics. We used study archives and databases to track address changes to identify transitions to different residential settings. The qualitative data were analysed thematically working from primary coding to more complex themes and connections as the data were charted into a framework matrix using NVivo qualitative data analysis software.

Results

Moving residence in very old age

CC75C's Year 21 (2006-2007) survey included 44 of 48 surviving participants (92%). Fewer than half still lived in their own home (18/44, 41%), dropping to just over a quarter by the time they died (12/44, 27%). **Figure 1** illustrates where participants had moved to before this survey and subsequently. Of those who had already moved, 29% (8/26) later moved again. Moves before this survey were several years previously, median 3.8 years (IQR 1.3-5.9); moves for those who moved again were a median 2.3 years (IQR 1.2-3.5) later. Two-thirds died before any later survey (30/44, 68%), some with no interview discussion of moving, but relevant qualitative data were available for the majority of participants who moved at any point (26/32, 80% of those who moved): the sample included in this analysis. Five of the 26 had moved before 2006, 15 moved during 2007, and six who moved during 2008-2010 were interviewed in the final survey.

Figure 1 here

Characteristics of participants

Table 1 describes the Year 21 survey participants showing that the prevalence of demographic characteristics, cognitive impairment and disability did not differ greatly between those who moved (n=32) and those who did not (n=12). No differences reached statistical significance, nor did any difference between the total (n=32) who moved and the subgroup (n=26) in this qualitative data analysis (not shown). These 26 participants were aged 95 to 100 years old, median age 97.3 (IQR 96- 98.3); all but one of them were women, and most had cognitive impairment. Most (81%) needed help with basic Activities of Daily Living (ADLs), two only with instrumental ADLs and three with none. However, for those who moved after this survey, both disability and cognitive impairment had worsened by the time they moved. **Supplementary data Table S1** provides summary characteristics for each participant, listed in order of quotation, each of whom is allocated a de-personalised pseudonymfor ease of identification.

Characteristics of proxies

Qualitative data were gathered from both participants and proxies for the majority (20/26, 77%) (see **Supplementary data Figure S2**). For three participants two proxies were interviewed and most proxies were women (24/29, 83%). Proxies were daughters (n=14), sons (n=5), other relatives (three children-in-law, two nieces, and a sister) or a care home manager (n=1).

Where participants moved to and the types of moves they made

Seven participants with moderate disability who had recently experienced a bereavement or declining health made voluntary 'assistance seeking' moves either in with family, to a care home closer to family or to smaller easier to manage sheltered housing in their local community. The remaining 19, most of whom had higher levels of

physical and cognitive disability, moved into residential or nursing homes or long stay hospital (n=1) after a health care crisis had enforced a move.

Thematic typology

We identified four transition pathways among the oldest old and their associated experiences (summarised in **Table 2** below).

[Table 2 here]

Experiences associated with making a voluntary move

Seven moved voluntarily in with family (n=2), sheltered housing (n=1), or into a care home closer to family (n=4). One had no cognitive impairment, two were moderately impaired and four had severe cognitive impairment. Moves in with family and sheltered housing were experienced with gratitude and improved well-being and met the conditions for a healthy transition:

Stella Thatcher: Oh, I was very grateful that they (family) would take me here because it was very lonely on my own. (SCI)

Rose Baker: When I came here I knew quite a few people. One, for the fact that I used to live across the road years ago [..] And I used to work at the post office up here. [...] being able to mix with others makes life so much easier. (NCI)

Participants viewed moving into care as an altruistic act that protected family from the burden of care:

Patricia Miller: But you've got to be sensible and not put yourself first, you've got to the think about the others. That's the way you should be here.

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Participants accepted the need to change, were quite philosophical about the need to move and saw it as part of adapting to the process of ageing:

Charlotte Smith: You get to the stage [...] you take life as it comes. A part of life you have control of, but there comes a time, and that's in my case, when you don't have the same control, (ModCI)

Patricia Miller: I didn't want to give up my independence, which to a certain extent you've got to. But you've got to think about it in the right sort of way. (SCI)

For one participant who moved to a care home in a different region of the country closer to her daughter the experience was one of isolation:

Florence Potter: I've got nothing to live for. (My daughter and her family) they've got their own lives to live and she's busy. She doesn't often come [to visit]. 'Cos it was a damn silly thing I did to come here from Cambridge. [...] I've never really settled. [it's] Their... tone somehow. Northern... Northerners are like people in a different country almost'. (SCI)

Relatives were distressed by their older relatives decline in health and need to move: 11 (55%) of the 20 proxies used the word "trauma" to describe the events leading up to relocation:

Charlotte Smith's daughter: Mum was [..] very ill [...] we brought you back here and you [addressing her mother] couldn't get out of bed [...]. And then [...] you wanted to go back [home]. And then one day we popped in on you and you were [...] sitting on the back doorstep, very sad. And you said "I want to come and live with you." [.....] It was very traumatic really. (ModCI)

Relatives also acknowledged that the experience of moving into care was distressing and expressed ambivalence about the extent to which older people could settle:

Prudence Sawyer's daughter: Oh, she wasn't happy. And we were told by the people in the home there not to go and see her for two or three weeks. "Let her get settled in." And she wasn't happy at all. [..] She's OK with it now, I think. [..] She's accepted... accepted it. (SCI)

Experiences associated with making an involuntary move into a care home

By far the majority (19/26, 73%) moved into care homes, their experiences reflecting
the largely involuntary nature of these moves. Moves were typically triggered by a crisis
(injurious fall, hospitalisation, incontinence, declining mobility, loss of care) which limited
their capacity during the decision making process. All nineteen had some level of
cognitive impairment.

Seventeen of these 19 regretted the loss of familiar objects associated with their own homes and some, like the participant quoted below, felt isolated in the monotony of life in care:

Hyacinth Fletcher: I meet the same old faces. They don't speak. There's no conversation. [...] They've always been like it. [...] And my [kitchen] weights went right the way down to half an ounce. They were worth something. They went. (SCI)

The lack of freedom and privacy was also an issue:

Margaret Butcher: Idon't like being here, to be honest. I'd rather have my freedom. [...], There's always somebody bustling round you [...] you don't have much privacy. [...] Idon't think you're allowed to go very far. [...] Yes, if

it's only a small walk. [...] This is nowhere near... like the comfort of your home. (SCI)

But difficulties managing at home or with care arrangements meant that making a move into a care home was experienced by some with a sense of relief when care home staff were welcoming, a pre-condition for a healthy transition:

Nancy Dempster's daughter: [...] They (the care home staff) seemed to understand how it had all been so stressful. [..] they invited her to come and have a look round, timed it so we could stay for lunch, showed her some of the things that were going on. She's really come alive again since moving there.

(MCI)

Eleven of the 19 who moved into care said that they had accepted or resigned themselves to the transition, acknowledging that achieving great age meant accepting less independence. This finding held for those with cognitive impairment and those without impairment.

Agatha Cooper Well, I'm quite content. I wouldn't want my life to be any different. I'm satisfied. I've got no worries about anything. (ModCI)

Flora Chamberlain's daughter: It's a little residential home, only five people, a sherry before lunch, you know that kind of thing. And she got very used to it [...] and I think she was fairly resigned and fairly happy. (SCI)

Archibald Faulkner: I think you come to accept it. [...] ... it's done with the best of intentions. [...] if they said "Go backhome" I should be appalled. I shouldn't know what [I'd] be able to do. (NCI)

The data indicate that acceptance of a new life in care is undermined if the current care home takes steps to relocate a resident to a different home. In these circumstances the older persons' stability is lost as they no longer feel connected or supported:

Flora Chamberlain's daughter: I have to [..] see if I can get a nurse to be with her while I go because she's always sort of saying to me "[..], "Don't go without me."[...]Yes, her phrase when she actually first went in there [the second care home] was "You've done for me."[...] and it's pretty well done for her in that now she is, you know they've been sedating her a bit,' (SCI)

For nine (47%) of the 19 who moved into care this was experienced as preferable to living alone:

Interviewer: What is good about living here?

Primrose Turner: To go to the lounge and see some people on television with all the others. I know I've got my own [television] here, but it's not the same as when you're near others. (ModCI)

Interviewer: So what's it like living here at the moment?

Loretta Fowler: I like being here becausethere's company. And living alone it is miserable. (It's) better than staying alone in the house. (SCI)

Conclusions

Voluntary moves proximal to their most recent dwelling generated gratitude, appreciation and no regrets. A voluntary move that severed life-long community ties was experienced with regret and increased isolation due to the absence of a good family or community network. Regret and loss were key experiences for those making involuntary moves into care, but there was also relief, acceptance and an appreciation of increased company and reduced loneliness. In the fourth type of move one individual was required

to move involuntarily to a second care home and she struggled to achieve the inner balance typical of a healthy transition. Given that the home care and care home environment has been under extensive pressure since the CC75C interviews were completed in 2007-2008 we suggest that further research is needed to consider the incidence of people being moved to another care setting without any choice, and how this affects their well-being.

Comparison with existing literature

This is the first study to examine transitions in care in the very oldest members of our society. Our data support the view that, if their preferences are overridden, older people may not adjust as well to life in care [14]. Our results also confirm that older people narrate their experience of transition with stories of lost objects [27] and this sense of loss extends to home, privacy and activities [28]. Some CC75C participants were challenged to feel 'at home' in 'busy' care homes, echoing previous studies highlighting difficulties feeling at home in a place of work [27, 29]. Our data reinforce the finding that older people living with dementia had both positive and negative views on moving into care (having someone to care for me versus not being able to go out) [13]. In line with previous research our data suggest that acceptance of life in care is possible when the person is resilient and can adjust to the loss of control over their life [29]. Our data also demonstrate how the welcoming nature of the care home has a positive impact [16]. Our findings counter the dominant view that life in a care home is a completely negative experience: some of the older old people in this study preferred having the company of others in their care home to living an isolated life alone in their own home.

A key strength of this study is the qualitative data obtained in a cohort study highly representative of the growing "oldest old" population. A methodological limitation of the CC75C data is that it does not permit analytical separation of the effects of moving from the conditions that prompted the move. We also acknowledge the limitations of proxy

reports (the only data available for six of the 26 participants), but they provide insight into the experiences of very old age that would otherwise be entirely missing. Another limitation is the possibility of recall bias, as people were interviewed at different time points following their relocation.

Implications for practice

To aid GPs working in this field we propose a checklist **(Box 1)** signposting resources aimed at supporting people in the process of moving and those who have recently relocated who may be experiencing anxiety, confusion, depression and isolation typical of Relocation Stress Syndrome.

Box 1 here

The proposed checklist provides a structured framework to stimulate discussion and orientate older people and their families. GPs might work through each of the stages with patients who need to relocate. Or it could be used as an additional prompt when completing advanced care plans or frailty assessments. For example, GPs working with patients in care homes who exhibit signs of RSS or depression could consider allocating a social worker or consider social prescribing of social or physical activity and recommend dietary improvements in collaboration with care home staff. Further research is needed to establish stakeholder endorsement of the proposed checklist and its utility for GPs.

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Ethical approval

Each CC75C study phase was approved by Cambridge Research Ethics Committee (reference numbers: 06_Q0108_87 and 08_H0308_3) and participants' and proxies' consent was obtained for each new survey and for the informant interviews after participants had died.

Competing Interests

The authors declare they have no competing interests.

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Caption for Figure 1:

Figure 1 illustrates where participants had moved to before the qualitative interviews took place in Year 21 and subsequently. Of the participants who had already moved 29% (8/26) later moved again. Moves before this survey were on average several years before, median 3.8 years (IQR 1.3-5.9), and moves for the remainder who subsequently moved were a median 2.3 years (IQR 1.2-3.5) later. Two-thirds died before any later survey (30/44, 68%).

Caption for Supplementary Data Figure 2:

Qualitative data were gathered from interviews with both participants and proxy informants for the majority (20/26, 77%), but for 6 people with a range of cognitive impairment these were only available from proxy informant interviews.

Caption for Supplementary Data Table S1:

Further descriptive details of each CC75C (n=26) participants moving pattern during the years 2006-2010 and their general characteristics, listed in order of quotation, and identified by their de-personalised pseudonym.

Table 1 Characteristics of n = 44 CC 75 C study participants at Year 21 follow-up (2006-07)

| | | • | | | | • |
|--------------------------------|--------------------|--|--------------------|---|-------------------|-------|
| | | ALL MOVED FROM OWN HOME (N=44) BEFORE DEATH (N=32) | | NOT MOVED FROM OWN HOME BEFORE DEATH (N=12) | | |
| AGE (YEARS) | | , | | , , | | , |
| MEAN (SD) | 97.4 (1.5) | | 97.4 (1.4) | | 97.6 (1.8) | |
| MEDIAN (IQR) | 97.1 (96.2 - 98.4) | | 97.2 (96.0 - 98.4) | | 96.9 (96.3 -98.8) | |
| RANGE | 95.4 - 101.4 | | 95.5 - 100.4 | | 95.4 - 101.4 | |
| AGE WHEN 1 ST MOVED | | | | | | |
| MEAN (SD) | - | | 96.3 (2.9) | | - | |
| MEDIAN (IQR) | - | | 97.1 (94.2 - 98 | 3.3) | - | |
| Range | - | | 89.8 – 101.2 | | - | |
| | N | (%) | N | (%) | N | (%) |
| SEX | | | | | | |
| MALE | 5 | (11) | 2 | (6) | 3 | (25) |
| FEMALE | 39 | (89) | 30 | (94) | 9 | (75) |
| ACCOMMODATION | | | | | | |
| PRIVATE HOUSE/FLAT | 21 | (48) | 9 | (28) | 12 | (100) |
| SHELTERED HOUSING | 5 | (10) | 5 | (16) | 0 | |
| CARE HOME | 17 | (40) | 17 | (53) | 0 | |
| LONG STAY HOSPITAL | 1 | (2) | 1 | (3) | 0 | |
| MARITAL STATUS | | | | | | |
| MARRIED | 3 | (7) | 2 | (6) | 1 | (8) |
| WIDOWED | 38 | (86) | 27 | (84) | 11 | (92) |
| SEPARATED/DIVORCED | 1 | (2) | 1 | (3) | 0 | |
| SINGLE | 2 | (5) | 2 | (6) | 0 | |
| EDUCATION (SCHOOL LEAVING AGE) | | | | | | |
| <15 YEARS OF AGE | 22 | (50) | 14 | (44) | 8 | (67) |
| ≥15 YEARS OF AGE | 22 | (50) | 18 | (56) | 4 | (33) |
| SOCIAL CLASS † (OCCUPATION) | | | | | | |
| Non-Manual | 24 | (56) | 18 | (58) | 6 | (50) |
| MANUAL | 19 | (44) | 13 | (42) | 6 | (50) |
| COGNITIVE FUNCTION ‡ | | | | | | |
| NORMAL COGNITION | 11 | (25) | 8 | (25) | 3 | (25) |
| MILDLYIMPARED | 8 | (18) | 4 | (12.5) | 4 | (33) |
| MODERATELYIMPAIRED | 10 | (23) | 8 | (25) | 2 | (25) |
| SEVERELYIMPARED | 15 | (34) | 12 | (37.5) | 3 | (17) |
| DISABILITY IN ADLS § | | | | | | |
| NO DISABILITY | 6 | (14) | 5 | (16) | 2 | (8) |
| IADL DISABILITY ONLY | 6 | (14) | 4 | (13) | 1 | (17) |
| IADL + BADL DISABILITY | 32 | (32) | 23 | (72) | 9 | (75) |

Notes for Table 1:

Column percentages may not total 100% due to rounding each percentage.

- † Social class categorised following contemporary UK Office of National Statistics grading of occupation reported at baseline interview: Non-Manual = I, II or IIIa, Manual = IIIb, IV or V. Baseline data on occupation were missing for 1 participant still alive by Year 21. ‡ Mini-Mental State Examination complete scores, plus score category imputation and dementia status if incomplete, categorised 0-17 severe cognitive impairment, 18-21 moderate cognitive impairment, 22-25 mild cognitive impairment, 26-30 normal cognition.
- § IADL = Instrumental Activities of Daily Living; BADL = Basic (personal) Activities of Daily Living

Table 2 Four transition pathways and their associated experiences – identified from participant and proxy informant interviews with n=26 CC75C study participants aged ≥95 who moved in very old age (Year 21 follow-up: 2006-7)

| Voluntary move to proximal sheltered housing or in with family | Involuntary move to proximal residential care | Voluntary move to geographically distant residential care | Involuntary move to second proximal care home |
|--|---|--|---|
| No regrets Gratitude and appreciation | Regret and loss Relief Acceptance and resignation Reduced loneliness | Regret and loss Increased isolation | Instability and trauma Feeling unconnected |
| Creates conditions for a healthy transition | | | e conditions for y transition |

Box 1 Proposed checklist with resources to support patients through relocation in very old age

Beforeamoveintoresidentialcare

- ✓ Encourage your patients, if possible, and their carers to conduct research before they choose a care home in their current locality to maintain cultural, social and ethnic connections. A checklist of things to consider is available at: https://www.which.co.uk/later-life-care/housing-options/care-
 homes/choosing-a-care-home-azff15m2v43f
- ✓ Assess your patient's capacity for involvement in the decision making. Alzheimer's UK has a section on decision making and recommends that family should be prepared and have discussions as early as possible, which can help to make the decision slightly easier when the time comes: https://www.caba.org.uk/help-and-guides/information/caring-ageing-parents
- ✓ Could your patient have a trial stay in respite care? Dementia UK guidance on the process of moving into a care home recommends a trial period as a first step for moving:

 https://www.dementiauk.org/advice-on-moving-into-a-care-home/
- ✓ If your patient is in hospital apply the 'Discharge to Assess' principles before a final placement in residential care is decided upon. This principle is being introduced in the NHS:

 https://www.england.nhs.uk/urgent-emergency-care/hospital-to-home/improving-hospital-discharge/discharge-to-assess/
- ✓ Allay your patient's fears about how they will settle in, offering the 'settling in' leaflet provided by Age UK which sets out key steps for adjusting to life in care.

https://www.ageuk.org.uk/information-advice/care/arranging-care/care-homes/moving-into-care-home/

https://seniorcarecoalition.org/reducing-relocation-stress/

✓ Support your patient through the initial stages of the move – visit them in their new home to ensure continuity of care. This principle is being instituted in the NHS:

http://www.pulsetoday.co.uk/clinical/clinical-specialties/elderly-care/gps-to-do-weekly-care-home-rounds-under-new-nhs-england-plan/20032921.article

Duringandaftermoving

✓ Consider allocating a case worker/ social worker/ support group intervention to provide extra support to promote meaningful activity and boost well-being. https://www.nice.org.uk/guidance/qs50/chapter/Development-sources/
https://www.rcgp.org.uk/clinical-and-research/resources/toolkits/mental-health-toolkit.aspx
https://seniorcarecoalition.org/reducing-relocation-stress/

https://www.socialworktoday.com/archive/011915p10.shtml

✓ Aim to build your patient's resilience by encouraging social interaction and positive thinking. Improved resilience is associated with a healthy lifestyle including good diet and exercise and social engagement.

https://www.ageuk.org.uk/globalassets/age-uk/documents/reports-andpublications/reports-and-briefings/health-wellbeing/rb_april15_vulnerability_resilience_improving_later_life.pdf

✓ Direct informal carers / family members to support networks as they adjust to handing over care of their relative to the care home staff.

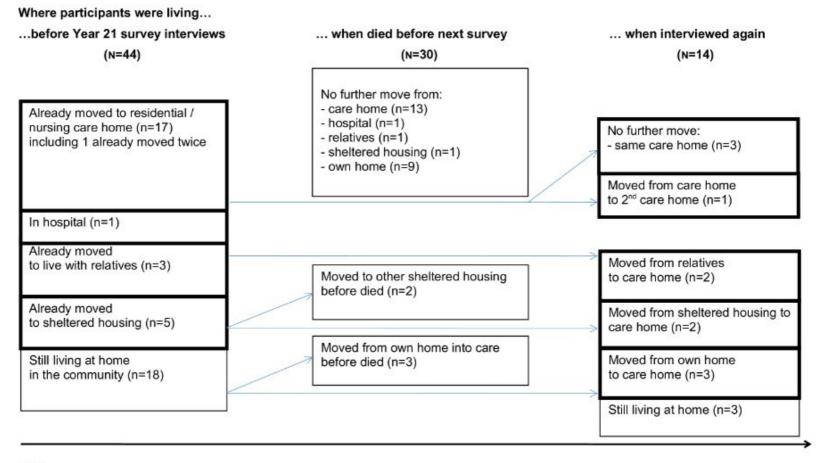
https://carers.org/

https://www.usa.gov/disability-caregiver

https://www.griswoldhomecare.com/blog/relocation-stress-syndrome-checklist-

for-moving-elderly-parents/

Figure 1 Moves and staying in place: CC75C study participants from Year 21 interviews onwards



Time

Note:

Bold boxes indicate the study participants with qualitative data relating to their moving (n=26, n=6 from >1 survey) included in the analyses of moving in very old age.

Supplementary Data Table
S1 Summary descriptors for CC75C study participants quoted (in order quoted in text)

| (pseudonym) Stella Thatcher 96 woman BADLs +IADLs Severe Moved in with family Rose Baker 1ADLs only not cognitively impaired Moved to sheltered housing, later moved into care after hospital, there to a 2nd care home | Separate: participant + proxy Separate: participant |
|---|---|
| Baker cognitively impaired housing, later moved into care after hospital, ther | |
| | + proxy |
| to a 2" care nome | |
| Patricia 100 woman BADLs severe Moved from | Separate: |
| Miller +IADLs sheltered housing | participant |
| to a care home | + proxy |
| near her family | |
| Charlotte 98 woman IADLs only moderate Moved in with her | Joint: |
| Smith family later after | participant |
| hospital moved | + proxy |
| Florence 98 woman BADLs severe Moved to a care | Separate: |
| Potter +IADLs home near family | participant |
| then moved to a | + proxy |
| 2 nd care home | + proxy |
| | Denne |
| Prudence 97 woman BADLs severe Aiready moved from sheltered | Proxy |
| Saurier | informant |
| housing to a care home near family | only: proxy |
| , | |
| Hyacinth 98 woman BADLs severe Moved after fall | Separate: |
| Fletcher +IADLs severe moved after fail | |
| from sheltered | + proxy |
| housing into a care | : |
| Margaret 97 woman BADLs severe Moved into a care | Separate: |
| Butcher +IADLs home as her | participant |
| dementia | + two |
| worsened | proxy |
| Name of the state | interviews |
| Nancy 97 woman BADLs mild Moved into care Dempster +IADLs after falls and care | Proxy informant |
| difficulties at home | |
| Agatha Cooper 98 woman BADLs Moderate Moved into care | Separate: |
| +IADLs home as dementia | |
| worsened | + proxy |
| Flora 97 woman BADLs severe Moved from living | Separate: |
| Chamberlain +IADLs with her family | participant |
| into care after a | + proxy |
| fall and hospital stay with | |
| pneumonia | |
| Archibald 100 man BADLs not Moved into a care | Separate: |
| Faulkner +IADLs cognitively home after fall at | participant |
| impaired home | + proxy |
| Primrose 98 woman BADLs moderate Moved into a care Turner +IADLs home after | Separate: participant |
| repeated falls | + proxy |

| Loret Fowle | 97 | woman | BADLs +IADLs | severe | Already moved to a care home after husband died, | Separate: participant + proxy |
|----------------|----|-------|-----------------|--------|--|-------------------------------------|
| | | | | | dementia | |

Notes for Supplementary data S1

[†] Mini-Mental State Examination complete scores, plus score category imputation and dementia status if incomplete, categorised 0-17 severe cognitive impairment, 18-21 moderate cognitive impairment, 22-25 mild cognitive impairment, 26-30 normal cognition.

IADL = Instrumental Activities of Daily Living;
 BADL = Basic (personal) Activities of Daily Living

Supplementary Data Figure 2 Qualitative Data Sources in CC75C analysed by categories of cognitive function (n=26 aged 95-100 years old) at year 21 (2006-2007)

