Comparing proxy rated quality of life of people living with dementia in care homes

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Original Article

Cite this article: Robertson S, Cooper C, Hoe J, Lord K, Rapaport P, Marston L, Cousins S, Lyketsos CG, Livingston G (2020). Comparing proxy rated quality of life of people living with dementia in care homes. Psychological Medicine 50, 86–95. https://doi.org/10.1017/S0033291718003987

Received: 13 May 2018
Revised: 31 October 2018
Accepted: 6 December 2018
First published online: 29 January 2019

Key words:
Care home; carer; dementia; family carer; institution; paid carer; proxy; quality of life

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Abstract

Background. Improving quality of life (QOL) for people with dementia is a priority. In care homes, we often rely on proxy ratings from staff and family but we do not know if, or how, they differ in care homes.

Methods. We compared 1056 pairs of staff and family DEMQOL-Proxy ratings from 86 care homes across England. We explored factors associated with ratings quantitatively using multi-level modelling and, qualitatively, through thematic analysis of 12 staff and 12 relative interviews.

Results. Staff and family ratings were weakly correlated ($\rho_s = 0.35$). Median staff scores were higher than family’s (104 v. 101; $p < 0.001$). Family were more likely than staff to rate resident QOL as ‘Poor’ ($\chi^2 = 55.91$, $p < 0.001$). Staff and family rated QOL higher when residents had fewer neuropsychiatric symptoms and severe dementia. Staff rated QOL higher in homes with lower staff:resident ratios and when staff were native English speakers. Family rated QOL higher when the resident had spent longer living in the care home and was a native English. Spouses rated residents’ QOL higher than other relatives. Qualitative results suggest differences arise because staff felt good care provided high QOL but families compared the present to the past. Family judgements centre on loss and are complicated by decisions about care home placement and their understandings of dementia.

Conclusion. Proxy reports differ systematically between staff and family. Reports are influenced by the rater:staff and family may conceptualise QOL differently.

Introduction

Global dementia care strategies seek to enable citizens to live well with dementia (O’Rourke et al., 2015). Measuring quality of life (QOL) is one way to determine whether this aim is achieved. QOL is usually conceptualised as a broad, holistic construct (O’Rourke et al., 2015) representing how ‘good’ a person’s life is overall (Livingston et al., 2014a). It is an important outcome for people with dementia as the illness is chronic and progressive. Interventions may reduce symptoms but also negatively impact QOL. In dementia, there may be no simple association between health-related QOL and an easily measurable clinical variable (Banerjee et al., 2009). Researchers are actively seeking ways to meaningfully measure QOL in dementia (Chua et al., 2016).

QOL, at least in part, is subjective and, therefore, ideally reported by the individual concerned. Care home residents have, in general, more severe dementia than people living with dementia in the community (Beerens et al., 2014) and many are unable to self-report QOL (Hoe et al., 2006). Often proxy reports are the only possible source of ratings (Magaziner, 1997; Hoe et al., 2006).

Where this is the case, the question of who provides these ratings and how this might influence the results must be considered (Graske et al., 2012). For research findings, interventions and policy to be meaningful, we need to understand differing proxy’s views in proxy rated QOL and what proxy reports are measuring (Robertson et al., 2017). It may be that the evaluated success of an intervention in improving QOL depends on the perspective gathered (Goyder et al., 2012) and that family relatives and care staff perceive intervention effects differently (Clare et al., 2014). Understanding more about this complex outcome could also provide further targets for interventions to improve both perceived and actual QOL. In our recent systematic review, family and staff ratings were weakly correlated and different factors were associated with their reports. However, staff and family ratings have not been formally compared (Robertson et al., 2017).

For the first time, we investigated whether there is a difference in how paid staff and family members rate the QOL of care home residents with dementia using the DEMQOL-Proxy. We also explored using quantitative and qualitative methodologies, what influenced staff and family proxy ratings in the largest English national care home study to date.
Methods

Setting and sampling

This study is nested in the Managing Agitation and Raising QUality of Life (MARQUE) national care home survey in England, full details and methods are published elsewhere (Livingston et al., 2017). MARQUE received ethical approval from the London (Harrow) NRES Committee (14/LO/0034). We recruited care homes from across England, ensuring inclusion of diverse provider type (voluntary, state, private), care provision (nursing or residential) and geographic (urban/suburban, rural) locations. We defined care home clusters as units within care homes in which staff and managers worked independently of all other units.

Procedures

Residents

All residents with dementia were eligible for the study. We included all those with a diagnosis of dementia in their medical records. As many residents living with dementia will not receive a diagnosis (Challis et al., 2000) we screened remaining residents for probable dementia using the Noticeable Problems Checklist (NPC) (Levin, 1989) which has been validated against clinical diagnosis (Levin, 1989; Moriarty and Webb, 2000). Where staff identified residents as having capacity to agree to the study, they approached the residents first to ask if they agreed to talk to researchers about the project. If residents agreed, researchers trained to assess capacity made judgements using the Mental Capacity Act (2005) criteria. In most cases, people lacked this capacity, and we consulted the family carer. When there was no family carer available we sought a professional consultee, who knew the resident well.

Relatives

Relatives that visited the resident most often were approached by care home staff for agreement to be contacted by researchers. Researchers then contacted those who agreed, mailed information sheets and arranged a meeting to obtain informed consent in their preferred location.

Staff

Paid carers involved in the hands-on care of consented residents during the day, completed proxy measures with a research assistant. Staff consented to provide information about themselves.

Qualitative interviews

Qualitative interviews and analysis were undertaken prior to completing quantitative analysis to prevent bias. SR contacted staff and relatives participating in the MARQUE study who had provided proxy ratings of QOL to ask for their consent to take part in additional individual semi-structured interviews to explore their decisions about rating QOL. This interview was conducted separately after they completed the DEMQOL-Proxy questionnaire at a different time point. SR purposively recruited a maximum variation sample to cover the range of opinions (differing age groups, either sex, different roles in care homes or relationships) and continued interviewing until theoretical saturation was reached. The interview focused on their rationale for their choice of global rating on the DEMQOL-Proxy, either ‘Very Good, Good, Fair or Poor’. SR conducted interviews in a location chosen by the participant, either in their own home, a private room at UCL or the care home. SR remained flexible and open to emerging narratives. The length of interviews varied between 30 and 60 min.

Measures

Care home

We recorded care home characteristics, including size; whether the home was residential or nursing; and any specialism. We completed an environmental survey: The Therapeutic Environment Screening Survey for Nursing Homes (TESS-NH) (Sloane et al., 2002). This observational instrument assesses different domains, including exit control; maintenance; cleanliness; safety; orientation/cueing; privacy; outdoor access; lighting; noise; visual and tactile stimulation; space and seating.

Resident

(1) Quality of life: The DEMQOL has psychometric properties that are at least as good as other QOL measures (Smith et al., 2007; Perales et al., 2013). The DEMQOL proxy is a 31-item version for paid staff and family carers; it is appropriate for use in mild, moderate and severe dementia (Smith et al., 2005). Higher scores indicate better QOL. Possible scores range from 31 to 124. The DEMQOL-Proxy provides a total score and a global rating ranging from ‘Very Good’, ‘Good’, ‘Fair’ or ‘Poor’.

(2) Dementia severity: The Clinical Dementia Rating (CDR) is a reliable, valid and widely used measure of global dementia severity (Hughes et al., 1982). It has a five-point scale summarizing information across six domains: Memory, Orientation, Judgment and Problem Solving, Community Affairs, Home and Hobbies, and Personal Care.

(3) Neuropsychiatric symptoms: The Neuropsychiatric Inventory (NPI) (Cummings et al., 1994) assesses 12 domains over the last 4 weeks: hallucinations; delusions; agitation/aggression; dysphoria/depression; anxiety; irritability; disinhibition; euphoria; apathy; aberrant motor behaviours; sleep and night-time behaviour; appetite and eating change. Each 12-point domain score is its frequency score multiplied by its severity score and the total is a sum of domain scores. Higher scores indicate greater severity.

(4) Agitation: The Cohen-Mansfield Agitation Inventory (CMAI) (Cohen-Mansfield and Billig, 1986) is a 29-item scale that systematically assesses agitation over the last 2 weeks. Each item rates a specific behaviour and its frequency. Possible scores range from 29 to 203. A score >45 indicates clinically significant agitation (Billig, 1986).

Staff

We recorded sex, ethnicity, years of experience and first language, whether they had a nursing qualification and their usual shift pattern (day or night shifts or mixed).

Family carers

We recorded age, sex, relationship to the person with dementia and how often they visited the person with dementia.

Analysis

All quantitative analyses were completed in Stata 14 (StataCorp, 2015) with full datasets.
To investigate whether there is a difference in proxy ratings of QOL we:

(1) Calculated the correlation (Spearman’s) between total scores.
(2) Compared ranks of groups using a Wilcoxon matched-pairs signed-ranks test.
(3) Compared global categorical ratings using a Friedman \( \chi^2 \) test.

To explore quantitatively the factors influencing staff and family proxy ratings, we used a linear mixed-effect regression model with three levels [(1) resident, (2) staff proxy and (3) care home] to account for clustering at care home cluster and staff level. We created two models to explore factors associated with staff and family separately so that we could explore factors specific to proxy role. We omitted demographic characteristics which overlapped.

We used NVivo software for qualitative data analysis and took a thematic analytic approach (Braun and Clarke, 2006; Nvivo, 2012). SR and a second, independent rater (KL) systematically coded the transcripts into meaningful fragments and labelled these initial codes. Discrepancies were discussed and resolved. SR, KL and PR then organised the data into preliminary themes. We discussed the coding frames within the team using a constant comparison method of coding and analysing data through three stages: open coding (examining, comparing and categorising data); axial coding (reassembling data into groupings based on thematic relationships); and selective coding (identifying the central phenomenon in the data) (Strauss and Corbin, 1998; Starks and Trinidad, 2007).

Results

Quantitative

Study participation

In total, 86/114 (75.4%) care homes contacted agreed to participate. The sample comprised 97 clusters (79 single cluster homes and 7 homes with \( n > 1 \) cluster, totalling 18 clusters). Of these care homes, 39 provided personal care, 13 provided nursing care and 45 provided nursing and personal care. Seventy-eight homes were privately managed, 13 were managed by a charity, four by the council, one by a not for profit organisation and one by a Local Authority Trading Company. Forty-two (43%) were dementia specialist homes. The median number of resident places in a care home cluster was 38 (IQR 27, 54).

Figure 1 shows resident recruitment to the study. After considering pre-existing clinical dementia diagnoses and those who screened positive on the NPC, 3053 (86.2%) residents within a care home cluster ranged from 2 to 55 (median 14). Participant characteristics are displayed in Table 1.

DEMQOL-Proxy scores

The median total proxy score of residents’ QOL for staff raters was 104 (\( n = 1455, \) IQR 95, 110) and 101 (\( n = 1054, \) IQR 90, 109) for family raters (\( p < 0.001 \)). There was a weak correlation between total scores for staff and family DEMQOL-Proxy ratings (\( n = 1054 \) pairs, Spearman’s \( \rho_s = 0.35 \)). Global ratings differed significantly between these rater groups (\( n = 1016, \) \( p < 0.001 \) (Fig. 2) with 28% of family rating QOL poor compared with 10.7% of staff and 8.2% of family rating it as very good compared with 14.1% of staff.

Factors associated

Regression analyses are in Table 2. Three factors were associated with a better QOL rating by both staff and family proxies: lower total NPI and CMAI scores and dementia severity. Higher staff-rated QOL was associated with: first language of the staff member rater (English) and lower ratios of staff to residents. Higher relative-rated QOL was associated with: being a spouse compared with being a child or other relation; resident’s first language (English); and longer duration of residence in the care home.

Qualitative interviews

Twelve staff and 12 relatives were recruited from seven care homes (one nursing, six residential; six private, one charity). We interviewed four care assistants, three nurses, three senior carers and one manager: 9/12 of the staff interviewed were women; 9/12 spoke English as their first language. Their median age was 39.5 years (IQR 29.3, 46.8) and the median duration of work in care homes was 5.6 years (IQR 1.9, 9.7). Of the relatives interviewed, 8/12 were women, 10 were White British. Seven were the child or child-in-law of the care recipient, three the spouse, two were other relatives; their median age was 60 years (52.3, 71.5) and on average they visited their relatives once a week (range: every other day to monthly).

Conceptualising QOL

We identified two main themes that influenced proxy decisions on how to rate QOL.

QOL = quality of care

For staff, resident’s QOL was equally equated with quality of care. Some staff stated that quality of care was the most important component of QOL:

I’d say his quality of health, is not very good. But when it comes to the care being given, I see that as what makes him have a good quality of life.

Female Care Assistant 1

Staff were more likely to speak about their role in enabling a good QOL.

But as staff working with her, giving her good quality of life, I actually think of her to have a good quality of life.

Female Care Assistant 2

On reflecting on filling out the DEMQOL-Proxy, one nurse highlighted the responsibility they felt in the provision of care that directly influenced QOL:

It was hard [DEMQOL-Proxy] because I want to say everyone’s got an amazing quality of life here. I think it’s upsetting as a carer to think that someone hasn’t here, because you think is it something I’m doing?
Is it something that the home’s doing?
Female Nurse 1

Relatives, however, were more likely to draw an explicit distinction between QOL and quality of care:

They [staff] think he is being looked after so well so he must be all right. I don’t think he is. I just said, hang on a minute, aren’t we confusing quality of care with quality of life?
Son 1

Similarly, they were more likely to think about alternative care environments and consider an ‘ideal world’:

She gets a very good level of care. I am sure she would say it’s [QOL] fair, to get the top box tick [Very Good] she would probably be wanting to live with me or my sister. I think fair is as good as we’d get.
Daughter 1

Comparing the past to the present
Relatives compared the resident’s current QOL to their knowledge of how they had been before care home admission. They framed current QOL in terms of what they felt the person had lost, for example, autonomy and abilities to make choices and care for themselves.

It’s very hard because when I know what he used to be and what he is now, I think. he has no life at all.
Niece 1

Fig. 1. Recruitment flow chart.
Relative’s perceptions were also influenced by abstract judgments of what their relative would say if they could see themselves now. For some, having a worse QOL was an inevitable consequence of being in a care home because their relative would not have wanted to be there.

Before he married me, he said to me ‘Don’t put me into a care home, I would rather beg God to take me more than you put me into a care home’. To know that now he doesn’t have the capacity to say and I made that decision.

Wife 1

Life was often compared to a time before dementia and comparisons centred on what had been lost through changes caused by dementia. Accompanying these changes was a loss of their own:

Because I’ve lost my mum. My mum isn’t there anymore. There’s another person there and I still love her as my mum but it isn’t my mum she’s just been left to stagnate.

Daughter 2

There is a difference in his responses. to me, who is almost like a stranger at times.

Wife 2

Staff were more likely to use their understanding of dementia and focus on the disease progression:

She’s got the dementia where it’s at the frontal lobe. That’s what causes the anger.

Female Care Assistant 3

Where relatives had come to terms with these changes and focused on the present they evaluated QOL as better:

I never dreamt, when my mother went into the care home. I didn’t expect to see her dancing around and singing with some of the carers. It just goes to show you if you know how to help someone with dementia they can have a good quality of life.

Daughter 3

Discussion

Is the difference found clinically meaningful?

There were similarities and differences in how staff and family proxy raters in this sample understood a resident’s QOL. Proxy ratings were weakly correlated, with staff rating resident QOL, on average, three points higher than relatives. Defining a clinically meaningful difference in QOL is highly problematic (Hays and Woolley, 2000). In most circumstances, half a standard deviation is the threshold for clinically meaningful discrimination for changes in QOL (Norman et al., 2003). In this study, half a deviation would be six points, which suggests that a three-point difference is not clinically meaningful. However, our finding that staff were significantly more likely to rate a resident’s QOL as ‘Very Good’ whereas family members were more likely to rate it ‘Poor’ suggests that the difference may be meaningful to the proxy-raters.

What are the factors associated with ratings?

Both staff and family proxies rated QOL higher in residents who had fewer neuropsychiatric symptoms and less agitation. These should continue to be targeted as a strategy for improving QOL.

| Table 1. Participant characteristics |
|-------------------------------------|
| **Resident characteristics**       |
| Male n = 1483                       |
| Age, years: mean (s.d.) n = 1437    | 85 (9) |
| Ethnicity n = 1452                  |
| White British, Irish               | 1324 (91%) |
| White other                         | 50 (3%) |
| Black British, Caribbean, African, mixed | 34 (2.1%) |
| Asian or Asian British, Indian Pakistani, Bangladeshi | 13 (1%) |
| Chinese                             | 2 (0.1%) |
| Other                               | 29 (2%) |
| First language not English (n = 1696) | 525 (31%) |
| Dementia severity (CDR) n = 1458    |
| Very mild                           | 114 (8%) |
| Mild                                | 313 (21%) |
| Moderate                            | 482 (33%) |
| Severe                              | 549 (38%) |
| CMAI: median, IQR                   | 41 (33, 55) |
| Neuropsychiatric score: median, IQR | 9 (3, 20) |
| Staff DEMQOL-Proxy: median, IQR     | 104 (95, 110) |
| Relative DEMQOL-Proxy: median, IQR  | 101 (90, 109) |
| **Family member characteristics**  |
| Male n = 1102                       |
| Age, years: mean (s.a.) n = 1048    | 63 (11) |
| Relationship n = 1101               |
| Spouse                              | 209 (19%) |
| Son or daughter                     | 674 (61%) |
| Son or daughter-in-law              | 28 (3%) |
| Grandchild                          | 15 (1%) |
| Friend                              | 38 (3%) |
| Other                               | 137 (12%) |
| Number of family visits per month: median (IQR) n = 1243 |
| Staff characteristics               |
| Male (n = 1706)                     |
| Age, years: mean (s.a.)             | 40 (13) |
| Ethnicity n = 1480                  |
| White British, Irish               | 979 (66%) |
| White other                         | 151 (10%) |
| Chinese                             | 8 (1%) |
| Black or Black British Caribbean, African, other or mixed | 207 (14%) |
| Asian or Asian British Indian, Pakistani, Bangladeshi | 120 (7%) |
| Mixed and other                     | 37 (2%) |
Staff and family were more likely to rate QOL higher when the resident had more severe dementia. Perhaps they judged that those who had greater insight into their dependency had a worse QOL. Lower staff-rated QOL was associated with a higher staff to resident ratio. This may seem counter-intuitive as higher staff-rated QOL has been associated with more staff being involved in the care of each resident (Zimmerman et al., 2005). More staff may, however, be employed when residents have higher needs including neuropsychiatric symptoms.

Staff who spoke English as their first language tended to rate resident QOL higher, mirroring findings in a Welsh care home study (Clare et al., 2014). It could be that staff who share a native language with residents find it easier to communicate, understand what residents need and build relationships. Perhaps staff also found it easier to meet the needs of residents with more severe dementia and fewer neuropsychiatric symptoms positively influencing perceived QOL.

Relatives were more likely to rate QOL as higher when residents spoke English as a first language. Non-native English-speaking residents are more likely to develop problems in communicating (Hyltenstam and Stroud, 1989; Ekman et al., 1994; Mendez et al., 1999; McMurtry et al., 2009; Plejert et al., 2015; Strandroos and Antelius, 2017) and are more likely to experience agitation and this could be due to increased isolation (Cooper et al., 2017). This finding suggests we need to consider language in care homes given the growing cultural diversity of residents and staff in many high-income countries (Xiao et al., 2017).

Being a child or other family carer was associated with lower family ratings of QOL. Perhaps spouses have a more positive perception or are better able to enable the person with dementia to have a higher QOL than other carers (Novella et al., 2001; Conde-Sala et al., 2010). This difference may also relate to comparisons of the past to present. Spouses of care home residents are more likely to live with a person with dementia up until entry to the care home, when it is likely they were experiencing significant difficulties living with dementia in the community, while children or other family members may be comparing perceived QOL now to more distant memories and constructed parental identities. Carers that are not spouses may be experiencing a greater shift in the dynamic of their relationship, a continued feeling of loss, and the anxiety that they may become affected by the disease (Kjällman-Alm et al., 2013). The negative perception of adult children has been associated with greater carer burden (Conde-Sala et al., 2010) and there may be a link between carer QOL and perceived QOL (Farina et al., 2017).

Relatives tended to rate QOL as higher if the resident had lived longer in a care home, considering illness characteristics. This may be an indicator of a resident's adjustment (Custers et al., 2012; Brownie et al., 2014; WHO, 2015). It may also relate to the family carer's acceptance of placement, as for some QOL was negated by care home residency. Making decisions about care home placement can be stressful (Elliott et al., 2009; Livingston et al., 2010; Lord et al., 2015, 2016). Conflict around this decision may influence perceived QOL after placement.

**Why do staff and family think differently about QOL?**

Whilst staff and family agree on some important factors contributing to a good QOL, they have different experiences of the resident and a resident may present differently when relatives visit. They also have different relationships and roles in the resident's life.

Relative's longstanding personal relationships are accompanied by past experiences, negotiated attachments and internal emotional processes. Family members' prior knowledge of an individual may be used in their judgement about QOL: comparing how they were and what they wanted to the reality now. Relatives that rated proxy QOL higher were more likely to describe focusing on...
### Table 2. Multivariable associations of care home, resident and proxy factors with quality of life

| Factor                                      | Staff N = 643 | Relatives N = 892 |
|---------------------------------------------|---------------|-------------------|
| Number of residents in the home             | 0.04          | 0.02              |
| Management type                             |               |                   |
| Privately managed                           | Reference     | Reference         |
| Other                                       | -0.37         | -1.21             |
| Care home type                              |               |                   |
| Personal care                               | 2.22          | 0.38              |
| Nursing and personal care                   | -0.34         | 0.16              |
| CQC ratings                                 |               |                   |
| All standards met                           | Reference     | Reference         |
| Not all standards met                       | -3.60         | -1.89             |
| Staff resident ratio                        | -0.70         | 0.06              |
| TESS score                                  | 0.00          | 0.00              |
| Resident age                                | -0.05         | -0.06             |
| Resident sex                                |               |                   |
| Female                                      | -1.38         | -1.28             |
| Male                                        | -3.06         | 0.62              |
| Resident first language English             |               |                   |
| No                                          | -0.85         | 4.96              |
| Yes                                         | -4.57 to 2.87 | 0.82 to 9.10     |
| Clinical dementia rating                    |               |                   |
| Very mild                                   | Reference     | Reference         |
| Mild                                        | -0.30         | 1.95              |
| Moderate                                    | -0.72         | 1.64              |
| Severe                                      | 4.27          | 4.74              |
| Neuropsychiatric inventory                  | -0.21         | -0.11             |
| Agitation inventory                         | -0.13         | -0.10             |
| Length of stay                              | 0.30          | 0.80              |
| Hospital admission                          |               |                   |
| Yes                                         | -1.13         | -2.89             |
| Proxy sex                                   |               |                   |
| Female                                      | -0.88         | -2.82             |
| Male                                        | -3.06         | 1.06              |
| Proxy age                                   | 0.02          | -0.10             |
| Relationship                                |               |                   |
| Spouse/partner                              |                 | Reference         |
| Child                                       | -4.63         | -7.47 to -1.80    |
| Other                                       | -3.45         | -6.80 to -0.10    |
| Frequency of visit                          |                 | -0.09             |
| Months working in care homes                | 0.00          | -0.03 to 0.03     |

(Continued)
the present when making proxy-ratings and to describe an acceptance of care home placement and the progression of dementia.

In contrast, staff have a professional role, ascribed purpose and perceived value in the resident’s QOL. Perceiving an active role in the provision of QOL is important to find meaning in caring. Care staff are often disempowered and undervalued. Finding meaning and having intrinsic motivations in caring is associated with higher caregiving satisfaction (Lyonette and Yardley, 2003; Quinn et al., 2012a, 2012b). Relatives might struggle to find a meaningful role in a care home and feelings of powerlessness may negatively impact their wellbeing (Quinn et al., 2015). Family carer QOL is poorer when people with dementia lived in a care home (Argimon et al., 2005; Reidijk et al., 2006; Farina et al., 2017).

A proxy rater’s understanding of dementia may also influence how they make sense of a person’s lived experience in the present. Illness representations held by family members of people living with dementia influence their understanding of what is happening to the person and how they respond and provide support (Quinn et al., 2017). Family are less likely than staff to receive training on dementia. Educating family members about dementia and acceptance and emotion-focused coping can reduce the affective symptoms and case-level depression of carers of family members with dementia (Livingston et al., 2014b) and may improve family proxy raters’ perceptions of QOL.

### Strength and limitations

Whilst we studied a large and diverse sample of care homes, these were not recruited randomly. Better resourced care homes may be more able to accommodate research. This correlation between staff and family proxy ratings is weaker than previously reported (Beer et al., 2010; Clare et al., 2014; Robertson et al., 2017) which may be due to a difference in QOL measures. It could be that the indicators provided in the DEMQOL-Proxy are more sensitive to capturing differences in the perspectives between proxies (Jing et al., 2016). It may be that the DEMQOL-Proxy itself shaped participant responses in interview but we left time in between quantitative and qualitative responses lessen this impact. The study uses the DEMQOL-Proxy which restricts answers to predefined questions pertaining to an individual’s feelings and how worried an individual has been about their memory, everyday life. In this study, our understanding is enriched by broad, holistic global judgements in the qualitative analysis.

### Conclusions

Proxy ratings are influenced by the rater’s own context and experience of caring. While all raters reported higher QOL when the resident had fewer neuropsychiatric symptoms, staff judged a resident’s QOL to be significantly higher than family members did. We found that staff were more likely to view QOL as synonymous with ‘quality of care’. Relatives, however, had a longstanding personal relationship with the resident, their own fears, understanding and sense of loss for themselves and their relative influenced their judgement of QOL. Some relatives felt it was impossible to have a good QOL whilst living in a care home.

### Implications

Ratings of QOL are subjective outcomes; especially when considering how the person with dementia feels. Staff and family proxy ratings cannot be used interchangeably. If future studies include proxy-rated QOL as a variable and use a mixture of staff and proxy raters, analyses must control for the status of the proxy rater. Proxy ratings may offer a unique insight to perceived QOL and the contributing factors and may be an important target for improving carer QOL. Psychological interventions that promote education and focus on acceptance may benefit family carers as well as systemic interventions that promote inclusion, find roles for relatives and support staff and relatives to understand each other’s perspective and communicate. The only factors identified with both staff and family perspectives are the resident’s mental health and agitation which should remain targets for interventions to improve QOL, enabling people to live well with dementia. Research should consider these findings when evaluating the success of interventions.

### Acknowledgements/Conflict of interest/Financial support

We thank all participating care homes, residents, families and staff. We also thank all the other UCL and research network researchers involved in the study, all members of the steering committee (chaired by Professor Sube Banerjee) and all
members of the Community of Interest (chaired by Matt Murray from the Alzheimer’s Society). This research was supported by the UK Economic and Social Research Council and the National Institute of Health Research Grant number NIHR/ESRC (S.R., P.R., L.M., G.L., C.C., S.C., ES/L 001780/1); the National Institute for Health Research (NIHR) Collaboration for Leadership in Applied Health Research and Care North Thames at Bart’s Health NHS Trust (SR, PP, GL); the UCLH NIHR Biomedical Research Centre (GL, CC); and the Johns Hopkins Alzheimer’s Disease Research Center (C.L., 50,AG05146, PI: Albert). The funders had no role in study design, data collection and analysis, decision to publish or preparation of the manuscript. The views expressed are those of the author(s) and not necessarily those of the NHS, the NIHR or the Department of Health.

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