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Embedding patient and public involvement in dementia research: Reflections from experiences during the 'Journeying through Dementia' randomised controlled trial

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1 Abstract

2 Background

- 3 The involvement of people with a diagnosis of dementia in patient and public involvement and
- 4 engagement (PPIE) in research is an emerging field in the delivery of studies. Researchers need to
- 5 be enabled to understand and use the learning derived from various projects so that this growing
- 6 body of knowledge can be applied in future research.

7 **Objective**

- 8 Our objectives were to embed PPIE throughout a randomised controlled trial of a psychosocial
- 9 intervention called Journeying through Dementia. In this paper we identify and discuss the
- 10 approaches to involvement that worked well and those where improvements or changes were
- 11 indicated.

12 Design

- 13 The Guidance for Reporting Involvement of Patients and the Public Short Form (GRIPP2-SF) is used
- 14 to describe and critically appraise the approaches taken and the impact of PPIE involvement upon
- 15 study processes, the study team and those people with dementia and carers who acted as advisors
- as well as those who were consumers of the research.

17 Results

- 18 The involvement of people with a diagnosis of dementia and carers as study advisors improved the
- accessibility and relevance of the research for people living with dementia. It also highlighted issues
- 20 that researchers may have otherwise overlooked. Successful engagement of people with dementia
- 21 and carers in the study was associated with staff skills and scaffolding as well as participants'
- 22 memory and cognitive capacity. However, embedding robust and meaningful involvement
- 23 processes required significant time and resources.

24 Discussion

- 25 We propose that certain research processes need to be adapted to be accessible for people living
- 26 with cognitive impairment. Recruitment of PPIE advisors needs to reflect population diversity.;
- 27 thereby contributing towards greater parity of voice between people with lived experience of
- 28 dementia and researchers, increase the impact of PPIE in research and improve the experience for
- 29 those who volunteer to be PPIE advisors.
- 30
- 31 Key words: patient and public involvement and engagement, dementia, research
- 32
- 33

34 Background

35 Funders, such as the National Institute for Health Research (NIHR) emphasise the value of patient 36 and public involvement and engagement (PPIE) in the development, delivery and dissemination of research and demand that all studies evidence this ¹. Moreover, it is increasingly necessary to fully 37 38 describe PPIE in published research outputs using reporting tools such as the GRIPP2². Integrity, quality, impact and relevance are just some of the benefits identified through involving those with 39 lived experience³⁴. PPIE is therefore considered integral to good research design⁵. Guidance now 40 41 exists on best practice to facilitate PPIE in the design and conduct of research including for people 42 living with dementia¹⁶.

43

44 However, it has been noted that undertaking meaningful PPIE can be challenging for both 45 researchers and volunteers⁷, for example those with lived experience may question researcher 46 preferences or decisions⁸. The power imbalance that can exist within healthcare and research 47 contexts can result in service users being rendered unable to influence research design, 48 implementation and outcome⁹. Therefore approaches to public involvement need to be relevant, 49 accessible and support meaningful engagement¹⁰. When working with people living with dementia 50 this may involve managing individual expectations of cognitive capacity, including those of the researcher¹¹, whilst also empowering and valuing the voice of lived experience¹². Alzheimer Europe's 51 52 position on PPIE is one of inclusivity, and encouraging engagement such as identifying research 53 priorities, interpretation of research findings and dissemination¹³. Identifying and applying methods 54 of PPIE that are acceptable and understandable to people living with dementia, both those living 55 with a diagnosis of dementia and their family carers, is therefore vital to improve the depth, delivery and utility of dementia research¹⁰. 56

57

58 Journeying through Dementia (JtD) is a psychosocial intervention designed for those diagnosed with 59 mild dementia. It aims to equip individuals with the knowledge, skills and understanding to be able 60 to self-manage and maintain independence and meaningful participation, thereby improving mastery, wellbeing and life satisfaction¹⁴. PPIE was embedded throughout the entire JTD research 61 62 programme from inception and design of the intervention¹⁵, through to feasibility testing¹⁶ and the definitive randomised controlled trial (RCT) involving 480 people with a diagnosis of dementia and 63 64 350 supporters¹⁴. This paper describes our experience of PPIE in the JtD randomised controlled trial. Through reporting our experiences, we aim to highlight when and how PPIE strengthened our 65 66 research and also the challenges we encountered whilst endeavouring to deliver meaningful 67 approaches towards PPIE.

69 Methods

- 70 The GRIPP2 short form (SF) format for reporting involvement of patients and the public is used to
- 71 report and critically reflect upon the PPIE processes and outcomes².
- 72

73 Establishing and facilitating PPIE in the trial

74 Our approach to PPIE, was informed by NIHR INVOLVE guidelines¹, the Dementia Engagement and

- 75 Empowerment (DEEP) project⁶, the work of the Scottish Dementia Working Group¹⁷, and the
- 76 experiences of study team members. Our aims were to:
- Create opportunities for meaningful involvement of people living with dementia and family
- 78 carers in the design and delivery of the study and in the dissemination of results.
- Increase the relevance and accessibility of the research to people living with dementia and
 other members of the public.
- Create relevant, accessible and useful outputs from the study for people affected by
 dementia.
- 83 To support the aims of PPIE engagement in the trial the research team agreed and upheld a number
- 84 of 'guiding principles' to inform the planning and execution of involvement activities, see **Box 1**.

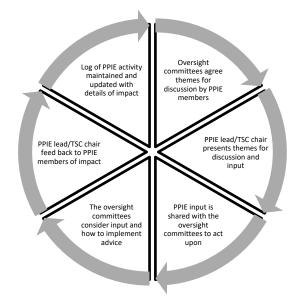
85 **Box 1: Guiding principles for PPIE involvement in the JtD trial**

- All PPIE advisors compensated for their time in line with NIHR INVOLVE guidance¹⁸.
- A 'you said, we did' approach regarding how advice was used and taken forward.
- Use of best practice accessibility guidance⁶ e.g. avoidance of jargon, acronyms and academic language.
- Meeting venues selected in consultation with PPIE to ensure accessibility e.g. layout, transport, low noise levels. Provision of wayfinding advice to venues e.g. maps and instructions. Taxis provided if required while at the same time being mindful of offering support rather than becoming paternalistic¹⁹.
- Inclusion of regular breaks during meetings as well as time and space to engage and respond to materials or discussion topics.
- Venue preparation to ensure a dementia friendly layout, provide additional signage and 'meet and greet' to help direct people.
- Use of aid memoirs in all encounters with PPIE advisors e.g. flipcharts posted up in meeting rooms to remind members of the aims of the study and of the specific meeting, provision of verbal or written updates on study progress.
- For all PPIE meetings content limited to one item per meeting e.g. input to documentation, dissemination activity.
- For Trial Steering Committee meetings, papers sent in hard copy well ahead of the meetiing with highlighted sections for specific consideration.

- For any study it is essential that appropriate funding is allocated to PPIE activity for reimbursement
 or payment of time as well as for associated costs such as travel or equipment¹⁸. At the outset a
 budget was identified for PPIE for the JtD trial although this needed to be increased over time as
- 90 additional activities were identified.
- 91
- 92 Applying an appropriate level of expertise towards PPIE engagement is also known to be essential. A
- 93 researcher, with previous experience of facilitating engagement of people living with dementia in
- 94 research, was responsible for identifying PPIE activities and co-ordinating involvement.
- 95
- 96 All PPIE activities, records of discussions, the advice given to researchers and how it was
- 97 subsequently used was recorded on a PPIE activity log²⁰. This approach allowed us to continually
- 98 review the impact of advice of PPIE upon the overall trial and provide transparency and
- 99 accountability.
- 100

101 PPIE in trial oversight and operationalisation

- 102 The involvement of people living with dementia was rooted strategically and operationally in JtD trial
- 103 governance and processes. It was embedded in trial oversight through PPIE membership of our
- 104 Study Advisory Group and of the independent Trial Steering Committee (TSC) as well as being
- 105 included as a standing agenda item for the Trial Management Group (TMG). As it is important to
- 106 provide a bridge between PPIE and researchers²⁰, a cycle of identifying activities, discussion,
- 107 reporting and taking action was established between the TSC and TMG oversight committees and
- 108 PPIE advisors as illustrated in figure one, see figure 1.





112 PPIE Recruitment

113 Recruitment of volunteers for membership of the TSC proved challenging. One person living with 114 dementia, who was already active in research and known to the Trial Steering Committee members 115 through existing research networks, was approached to join the Committee ahead of the inaugural 116 meeting and remained a member throughout the four-year trial, attending every meeting. Although 117 the initial intention had been to involve two PPIE members to provide cover and co-support, and spread the workload, we failed to identify a second PPI member. This may have been due to the four 118 119 year time commitment, or perceptions of the necessary the confidence and skills for this more 120 formal role.

121

122 We decided to recruit a PPIE advisory group to provide advice and guidance to the TMG throughout, 123 thereby ensuring that our approach remained relevant and accessible to people living with dementia 124 from recruitment to dissemination. Recruitment to the PPIE study advisory group was through the 125 existing University of Bradford 'Experts by Experience' cohort of people with a diagnosis of dementia and carers who volunteer to be involved in research and education²¹. We recruited individuals who 126 were new to the cohort as well as long-standing members who may have had previous involvement 127 128 in research. Consequently, some PPIE members had a deeper understanding of research than others. 129 Initially the PPIE lead, and a second member of the research team conducted individual 130 consultations with potential volunteers to explain the trial and what their involvement in the 131 advisory group would entail. They emphasised to each potential volunteer that they could engage in 132 as much or as little as they chose and that involvement in just one event would be valuable. 133 Although interest in joining the group was high, with 10 applicants for the first meeting in July 2017, 134 attendance was initially poor (three people) due to a clash with another meeting held by a local dementia support group. However, the advisory group continued to meet between July 2017 and 135 136 October 2019 and numbers increased to 12. Several people with dementia attended with a spouse or another family member but others attended alone. Some changes in membership took place due 137 138 to a change in commitments, through illness, and progression of dementia. The group were 139 predominantly white and therefore did not reflect diversity and the experience of dementia by other ethnicities or social groups¹⁰. 140

142 Supporting PPIE involvement

- 143 Trial Steering Committee
- 144 The role of any TSC is to provide study supervision, monitor conduct and progress and ensure that
- the safety and well-being of study participants are upheld²². The TSC for the JtD trial met twice
- 146 yearly and involved members from clinical, academic and PPIE backgrounds.
- 147

148 To ensure that our PPIE member was fully informed a significant amount of time was taken by the 149 TSC Chair and/or Trial Manager prior to each meeting to talk through any associated paperwork or 150 preparatory materials. During meetings, the PPIE member sat adjacent to the Chair to facilitate 151 communications. The responsibilities of the Chair were to ensure that the PPIE member understood 152 all discussions throughout, including limiting the use of acronyms and overly technical language by 153 all members and providing time for the PPIE member to consider and respond to an agenda item or 154 question. With these adjustments in place The PPIE member was able to provide unique insights 155 from the perspective of someone living with dementia and made significant contributions in key areas and documented her experiences of being involved in the trial as an adviser in her blog 'Which 156 157 me am I today?' https://whichmeamitoday.wordpress.com/. The following quotes illustrates their 158 contribution and participation in the TSC.

159

160 "Many of the [meeting] papers were way beyond me but [name] had put a friendly post-it on 161 each one telling me what each paper was about – wonderful idea. Definitely worth a brownie 162 point." TSC PPIE member

163

"I raised the question of the reality of relying on our [participants with dementia] answers in
follow-ups. And that raised a whole issue of current practices. I said that even if it shows how
the current practices need to be revisited, that's a good outcome. I said revisits 8 months
after an event and asking us to recollect is a tad adventurous. We don't like to feel
embarrassed at not remembering so may make things up so we don't look stupid.....or we

- simply give an answer that comes to mind today." TSC PPIE member
- 170

171 Advisory group

172 The operational management of the trial was overseen by the Trial Management Group (TMG) who

agreed that embedding high quality PPIE into protocol development and trial processes throughout

- 174 was a priority. The PPIE lead for the trial (CM) and coordinator of the PPIE advisory group was a
- 175 member of the TMG and PPIE was a standing-item on every TMG agenda.
- 176 Activities where the TMG requested specific input from PPIE advisors included:

- the design of participant newsletters which were originally designed in newspaper column
 format but were changed to a cross page format which our advisory group reported as being
 easier for people living with dementia to read.
- the content of a study proforma completed by facilitators and sent to study participants,
 summarising the group or individual sessions as part of the intervention. With consultation
 identified that the content needed to be personalised by adding the participants name and
 that the overall language used should be simplified using less research terminology.
- the content, deliverability and impact of burden of our qualitative interview schedule.
 Advisor feedback proposed that the language and wording should be more concrete for
 study participants to engage with and that to scaffold recall during the interview researchers
 should use prompts about what had taken place during intervention sessions. Consequently,
 the researchers asked shorter more direct questions for clarity and understanding; and
 referred to activities the participant took part in to prompt recall.

191 To ensure that the PPIE advisory group felt supported and integrated into the study team we 192 employed several methods. Firstly, we used our guiding principles to support set-up and 193 engagement of the group, see Box 1. One to one discussion was offered and taken up by some 194 individuals instead of participation in a group or to aid their decision to join the group. When an 195 advisory group had been assembled, we asked members about their preferences for involvement 196 including how they would like to be communicated with throughout the study, the length and 197 duration of meetings and meeting venues. All members did subsequently take part in the group but 198 some people with dementia needed support from their carer to achieve this. In addition, brief verbal 199 and written reminders were provided at every advisory group meeting to reiterate the purpose of 200 the study and what taking part entailed. A welcoming and informal structure was maintained to 201 encourage active participation. At the start and end of each meeting time was scheduled for 202 refreshments, creating opportunities for PPIE advisors to enjoy a group atmosphere, and share more 203 personal experiences and coping strategies whilst at the same time advising the study. Members 204 expressed that participating had made them feel useful and saw their contribution as helping other 205 people living with dementia, one carer said: 206 "[Person with dementia] and I enjoyed the meeting....to discuss

207 Journeying through Dementia. We both like to feel that we can contribute in some small way
208 to make life as easy as possible for people with dementia". Family carer 2

209

210 To promote inclusivity, support group dynamics and maintain active interest in the study all

- 211 members were invited to be involved in every activity.On most occasions all members attended,
- reflecting the overall interest the study generated and the possible benefits people were derving
- 213 from taking part. For larger groups however, it was challenging to ensure that the voices of all
- 214 members were heard. PPIE advisors with a diagnosis of dementia could need additional time to
- 215 process discussions and respond accordingly. This could lead to another person (often their carer),
- speaking before them or on their behalf. We therefore used techniques such as turn-taking and
- signalling using purpose made cards or simply a 'hands-up' gesture to try and avoid this.
- 218
- 219 Dementia friendly, accessible venues in familiar city centre locations were identified by the group in
- 220 preference to university campus settings which were deemed too busy and confusing. Use of
- 221 community venues proved positive and some advisory group members reported that they had
- engaged in an activity in or near such venues following meetings such as shopping or going for lunch.
- 223 Whether this was simply opportunistic or attending the advisory group resulted in greater
- 224 confidence to do more activity is unclear.
- 225

226 Trial delivery and data collection

Our PPIE group advisors' and TSC PPIE member's views and ideas on participant retention during the
 lifetime of the study were invaluable. For the trial we were collecting outcome data for up to 12
 months after recruitment from all participants whether they had attended the intervention or been
 randomised to treatment as usual. Recommendations that were actioned included:

- emphasising the value of contributions from all participants whether they received the
 intervention or not in the participant newsletter.
- booking follow-up researcher visits in advance as part of their first visit with a participant.
 This would mean that all follow-up visits would be in the diary and a confirmation would just
 be needed nearer the time of the follow-up.
- sending a reminder card (rather than letter or sheet) before attending follow-up
 appointments. PPIE members proposed that a card would be brighter and more visually
 appealing to participants thereby reducing the anxiety that a formal letter may provoke.
- including a photo of, and a personal message from, the researcher doing the follow-up.
- communicating with carers about the importance of the person with dementia's
 participation in the study.

243 Data analysis

Advisory group members used their personal experiences of living with dementia to assist the researchers to understand and interpret our qualitative data. Their contributions informed

the final analysis of interview data as described in Sprange et al $(2021)^{23}$.

247

Advisory group members were approached to participate in two half day validation workshops to discuss and reflect upon researcher interpretations of anonymised data from qualitative interviews conducted with participants and their carers²³. We had to obtain consent from each participant at the outset and identified appropriate researcher resource to do this in a relaxed manner. However late arrivals to the workshop questioned how this is best achieved.

253

254 Selected quotations from the interview data representative of the themes identified in the 255 framework were presented as raw data, i.e. without coding or categorisation²³. These were 256 presented for discussion one at a time alongside some descriptive and contextual detail to aid 257 understanding. For example, the voice being heard i.e. participant or carer and what the person was 258 talking about i.e. an element of the intervention or the facilitators etc. Consideration was given to 259 how to present each quote to the group in a dementia friendly format to aid understanding ⁶. This 260 included use of large font size, colour of paper, amount of text per quotation and printing one copy 261 per person. By using ongoing validation observation techniques such as listening and reflecting to 262 gauge understanding and interest in the activity during the workshops the researchers were able to 263 support participation.

264

265 The levels of impairment experienced by participants were varied which made pitching the task 266 correctly and maintaining the engagement of everyone a challenge for researchers. During our first 267 workshop the level of direction provided by researchers was therefore relatively high. As this was a novel approach to PPIE in dementia research there was some concern expressed by the researchers 268 269 of not wanting to overwhelm the group. Therefore, different approaches were needed to engage 270 and support those with more severe memory issues e.g. giving adequate time for the group to read 271 and re-read quotation as well as presenting quotation in both written and verbal formats (facilitator 272 read aloud the quotation). The facilitator also started with an open-ended question such as "what do 273 you think this person is saying/feeling?", but this may have been followed up with a more structured 274 question to aid contribution for example focussing on an interesting word or phrase in the quotation 275 to initiate discussion. For those more cognitively able and carers who took part there was 276 enthusiasm and great interest in the research and being part of the interpretation of findings. Those

less cognitively able appeared to enjoy the social occasion but it was less clear whether they hadbeen able to engage with all the materials.

279

280 Whether to provide participant training for this activity was debated amongst the research team. 281 Some considered that training would be helpful to guide and support engagement in the activity¹⁹, whereas others felt that memory and retention of training prior to the activity may be challenging 282 283 and therefore could cause frustration or distress. We chose not to undertake a separate training 284 session prior to the workshops but instead we took time at the start of each session (after consent 285 was taken) to summarise the study and the activity. We included a practice example which we 286 worked through together in which the researcher could prompt the group on items we were looking 287 for feedback such as languge used or tone of the quotation. In addition we also provided visual aids 288 in the form of flip charts bullet pointing the key facts of the trial to scaffold memory⁶.

289

290 To support engagement we provided props such as 'I want to speak please' cards⁶ as a

291 communication aid to indicate when a person wanted to speak. However, we found in our

experience that these cards were not used. Potential reasons were that firstly, the group were not

used to using these props and therefore it was no habit to do so, and secondly this was a very close

knit and well-established group where carers as well as the more cognitively able members already

295 felt comfortable speaking with each other and enabling each other to participate. This was less

- 296 evident for those members with more severe dementia.
- 297

298 Dissemination activity

299 Advisory group members were consulted on the format and content of both hard copy and online 300 versions of a lay summary of study results. These documents were intended for a wide readership 301 including people living with dementia who had taken part in the trial, members of the public and 302 health and social care professionals. PPIE feedback led to the inclusion of information about 303 organisations that can support people living with dementia and information about how the results 304 might be used to inform healthcare and future research. The group also helped us design and 305 produce a satisfaction questionnaire to obtain feedback regarding the presentation and 306 comprehensibility of the summary findings. This was considered important if are findings were to be 307 accessible and relevant to people living with dementia and those who care for them as well as for 308 the lay public, clinicians and academics.

- 310 Our final trial dissemination event for all comers was held in a central public venue with invitees
- including researchers who had been associated with the study, people living with dementia,
- 312 members of the public and health and social care professionals. Advisory group members suggested
- the need for a speaker protocol to encourage presenters to make their session accessible for people
- living with dementia including means by which those attending might interact with speakers. As a
- 315 consequence, all speakers were provided with a protocol and large cards were made available at the
- venue that stated "I don't understand", "I want to ask a question" and "Please speak more slowly"
- 317 which delegates did use.
- 318
- 319 PPIE advisors also recommended that study team members wore brightly coloured sashes that
- 320 identified them as 'helpers' and suggested they should be situated at the main public transport hubs
- 321 where people attending the event might arrive and at the venue entrance. A member of the
- advisory group, a former carer also volunteered to co-host the event reception desk with a member
- 323 of the study team. At a previous meeting, advisory group members had been invited to speak about
- 324 their experiences of being involved in research, but none accepted. Two advisory group members
- with a diagnosis of dementia were involved in making a video to demonstrate the intervention as
- 326 part of a study dissemination film (<u>https://www.bradford.ac.uk/dementia/research/journeying-</u>
- 327 <u>through-dementia/</u>) which was viewed at the event.
- 328

329 Discussion

- We achieved involvement in all stages of this large randomised controlled trial at a time when this level of engagement of people with a dementia diagnosis was not established practice. Importantly the voice of people living with dementia and their carers was heard first-hand and acted upon, which is acknowledged as being essential⁴. However, we also found that meaningful involvement could be challenging at times and our aspirations could not always be met, particularly given that PPIE described here was for a trial with necessary study processes.
- 336
- During both PPIE recruitment and involvement activities we found that the informed consent
 process could easily disempower people, including those with the capacity to consent. The process
 was time consuming and burdensome for some people with a diagnosis of dementia who found it
 confusing to have to agree to numerous statements. It is important that people living with dementia
 feel empowered to make decisions for themselves when consenting²⁴. We therefore suggest that
 using a simplified consent form, co-produced with people living with dementia, would minimise
 unnecessary participant burden whilst complying with research governance requirements. At the

outset of this trial, researchers aspired to create and test methods of video consent for potential
 trials participants, but it was quickly realised that this could not be achieved within the resource
 constraints of the study.

347

Having reliable methods in place to encourage and capture the impact of involvement activities was greatly facilitated by having a designated PPIE lead and researchers within the study team who were both knowledgeable and supportive of PPIE. Our experiences underscore the need for researchers to have expertise in working with people living with dementia or that the requisite training and support is provided so that they always take a sensitive and considered approach, enabling involvement in an informed and nuanced manner¹³. The more we undertake research involving people living with dementia as PPIE advisors or co-researchers the more we learn to pave the way for models of

355 successful participation in research¹⁹.

356

357 PPIE advisory group members were recruited from existing PPIE cohorts and networks. Whilst this 358 approach perhaps led to a more relaxed exchange of ideas between researchers and PPIE advisors, it 359 created limitations in terms of diversity. Almost all our PPIE advisors were White British. Also, some 360 members were living with more advanced stages of dementia which did not reflect the population of 361 study participants. As the membership of the PPIE advisory group evolved, people living in earlier 362 stages of dementia, including some who lived alone joined the group. How to ensure the involvement of the range of people who represent any one group remains a challenge²⁵ and in 363 common with overall recruitment to dementia studies, achieving diversity is difficult²⁶. We 364 365 recommend that to reflect the study population, early liaison, during the design phase of research, 366 with representatives from relevant community organisations might gain support, both for 367 participant recruitment and for recruitment of PPIE representatives This may in turn increase 368 interest in research from underrepresented groups.

369

370 It may require time for participants living with dementia to feel participation in research is 371 meaningful⁵. Feeling useful and being able to help others is important to people living with dementia²⁷ but it is important to consider what might be other motivations and needs of people 372 373 acting as PPIE advisors to research. We found that members who had recently received their 374 diagnosis sought personal support and specific advice from the group and from researchers 375 regarding their recent diagnosis and what this meant for their future. Those supporting PPIE 376 therefore need to understand the boundaries between research, clinical advice and personal 377 support and be prepared to respond by signposting individuals to appropriate services. Family

members can feel the need to protect people living with dementia, which can lead to a form of gatekeeping, taking decisions on behalf of the person with dementia¹¹. During this study we found that some carers spoke on behalf of their spouse on occasion. Researchers were aware of the need to listen to the voice of the person with dementia¹³ and study team members explored ways of achieving this for example 'turn taking' and using smaller discussion groups. It has also been observed that offering guidance to carers on how to enable the people they support to be involved in PPIE activities may be beneficial and make the carer feel valued¹³.

385

Involvement in the TSC for this study did not meet agreed best practice²² in that only one person 386 387 with a diagnosis of dementia was recruited to the committee. The arrangement was considered to 388 work well due to the skills and previous experience of the PPIE representative but having two members to take account of absence and meet needs for peer support is recommended. Being a TSC 389 390 PPIE member creates different demands for the PPIE advisory group member due to the time lag 391 between meetings and the necessary independence of the TSC which aids objectivity but also 392 creates distance from the study. This can affect ability of all PPIE members to retain knowledge and 393 understanding of the trial, but particularly if the person is living with memory issues. Therefore, 394 approaches to scaffold memory and recall are helpful and should be provided as we identified during 395 this study.

396

In accord with best practice²⁸⁻³⁰, providing opportunities to share experiences and coping strategies whilst at the same time advising on the study proved important. Additionally, we found that hosting advisory group meetings in a community setting could provide social opportunities that might not have occurred otherwise. Most of our PPIE advisors were, or had recently been, involved in other research studies which perhaps created an understanding of research, and familiarity with other PPIE advisors, that was helpful to enable them to participate.

403

Our experiences have confirmed that PPIE approaches and processes need to be established early on to have greatest effect upon the design and implementation of a study. The time taken to establish the advisory group meant that some decisions which would have benefited from PPIE input were initially taken in the absence of consultation, e.g. the format and presentation of newsletters sent to study participants which was subsequently changed following recommendations from the advisory group.

410

- 411 Questions remain about how to achieve maximum involvement in research outputs such as 412 presentations and publications. The optimum time to engage people living with cognitive 413 impairment in recording their experiences and input needs careful consideration. However, when 414 working with people living with cognitive impairment (as some of our PPIE advisors were) the 415 convention of writing most outputs at the end of a study can limit the participation of PPIE advisors 416 as it relies on recall. Indeed, in the preparation of this paper for publication we left writing up 417 towards the end of the trial and the PPIE advisor approached to contribute felt they could not recall 418 their involvement sufficiently to directly contribute, thus creating disparity between the voice of the 419 researchers and the voice of people living with dementia. We therefore propose assisting PPIE 420 advisors to record their experiences at the time might result in authentic publication.
- 421

Involving people living with dementia in the analysis of data can improve the quality of research, and if done well can be a satisfying experience for PPIE advisors⁵. The importance of providing PPIE members with appropriate training and support for this and for other aspects of the role is indisputable but questions remain about how this can be achieved to best effect when involving people living with dementia¹⁹. More specifically; for people with a diagnosis of dementia when does PPIE involvement become too much of a challenge¹¹ and who decides; and secondly how can needs for training and support be most effectively met³¹.

429 Conclusion

430 We posit that we could improve engagement of people living with dementia in research through 431 increasing diversity and adjusting research processes to be more accessible. This in turn would 432 create parity of voice between people with lived experience and researchers and increase the 433 impact of meaningful PPIE in research whilst improving the experience for PPIE advisors. Many aspects of our approach to involving people living with dementia were effective in that members of 434 435 the advisory group reported their involvement as enjoyable, sociable and satisfying. Regular review 436 of the purpose and approach to PPIE on any study is necessary and can improve the experience for 437 PPIE members.

438

439 **Declarations**

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465 Author contributions

466 CM led PPIE recruitment and co-ordination supported by GM, JW, CC and JBD. LB provided advice

and guidance on PPIE involvement in qualitative analysis. WM was the TSC PPIE Member. KS and JBD

- lead the qualitative analysis workshops. GM, KS and JBD developed the manuscript. All authors
- 469 reviewed and approved the final manuscript.
- 470

471 Ethical approval and consent to participate

- 472 Ethical approval was obtained in July 2016 (ref no. 16/YH/0238) from the United Kingdom National
- 473 Health Service Research Ethics. United Kingdom Health Research Authority approval was given (IRAS
- 474 reference 199383) in August 2016.
- 475

- 476 We obtained written informed consent for the participants who took part in the qualitative analysis
- 477 workshops via a Consent Form. This information is held as part of the archived record of the trial.
- 478 Only anonymised nonidentifiable data are used in this report as per written consent.
- 479

480 Availability of data and material

- 481 The datasets generated and analysed for this study will be available upon request from the
- 482 corresponding author.
- 483
- 484 Competing interests
- 485 Clare Craig is the author of the Journeying through Dementia manual. All other authors declare no
- 486 competing interests.

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