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1	Title: Palliative care for Parkinson's disease: Patient and carer's perspectives explored		
2	through qualitative interview.		
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25 Key statements

26	What is already known about the topic?
27	• An integrated palliative care approach is recommended in all life-limiting diseases,
28	including Parkinson's disease (PD).
29	• People with PD and their families are not currently accessing Specialist Palliative
30	Care services and unmet needs have been reported.
31	• Previous qualitative research has focused on the views of healthcare workers and, to a
32	lesser extent, carers.
33	What this paper adds?
34	• An exploration of the palliative care needs of people with Parkinson's disease, from
35	the perspectives of the people themselves, and their carers.
36	• Contrary to finding stigma or fear, many people with PD and carers were simply
37	unfamiliar with palliative care and would appreciate any extra support.
38	• Key crisis times when extra support may be needed from palliative care are at
39	diagnosis and at advancing illness.
40	Implications for practice, theory or policy?
41	• <i>Practice</i> . Healthcare workers may overestimate the fear and stigma associated with
42	palliative care and should be mindful of cues from their patients that they want to
43	discuss palliative or end-of-life issues.

44	•	<i>Practice</i> . A palliative care approach should be adopted by all healthcare workers;
45		formal needs assessments are vital to identify people with PD who may benefit from
46		referral to Specialist Palliative Care.
47	•	Policy. The provision of palliative care to people with PD requires a multi-
48		professional and integrated approach, with guidelines required to guide service
49		provision and individual healthcare worker's practice.

51 Abstract

Background: Palliative care is recommended for non-malignant illnesses, including 52 Parkinson's disease (PD). However, past research with healthcare workers highlights unmet 53 54 palliative needs in this population and referral rates to Specialist Palliative Care (SPC) are low. Some healthcare workers perceive a 'fear' in their patients about introducing palliative 55 care. However less is known about the views of people with PD (PwPD) and their carers 56 about palliative care. 57 Aim: I: To explore the palliative care and related issues most affecting PwPD and their 58 families; II: To examine perceptions about/understanding of palliative care. 59 **Design:** This was a qualitative study; semi-structured interviews were conducted, transcribed, 60 and analysed using Thematic Analysis. 61 Setting/Participants: Thirty-one people participated, both PwPD (n=19) and carers (n=12), 62 across three movement disorder clinics in Southern Ireland. 63 **Results**: PwPD and their carers were unfamiliar with the term palliative care. When informed 64 of the role of palliative care, most felt that they would benefit from this input. PwPD and 65 carers experienced a high illness burden, and wanted extra support. Crises requiring SPC 66 involvement may occur at diagnosis and later, with advancing illness. Participants wanted 67 68 more information about palliative care, and especially further supports to address their 69 psychosocial needs. Conclusions: A holistic palliative care approach could address the complex physical and 70 psychosocial symptoms experienced by PwPD and their carers, and PwPD and their carers 71

are open to palliative care. Further research needs to explore how palliative care can be

73 introduced into the routine care for PwPD.

74 Introduction

79

75 Parkinson's disease (PD; see abbreviations table 1) is the second most common

reurodegenerative disorder after Alzheimer's disease¹. PD is life-limiting, with complex and

progressive symptomatology; thus a palliative care approach is appropriate. People with

advanced PD share some symptoms and have an equivalent overall disease burden to people

with metastatic cancer^{2,3}. There has recently been increasing recognition of the palliative care

80 needs of people with neurological illnesses, nationally⁴ and internationally⁵.

81 All people with PD (PwPD) would benefit from a palliative care approach throughout their

82 illness, which involves all HCWs practicing palliative care principles as a core skill. A

83 proportion of PwPD may experience more complex needs and will benefit from Specialist

84 Palliative Care (SPC) services, whose core activity is the provision of palliative care to

85 individuals with more complex and demanding care needs. This approach is recommended in
 86 current guidelines^{6,7}.

However, palliative care needs remain largely unmet⁸ and relatively few people are referred
to SPC services⁹. For example, a retrospective review in the UK of PwPD who died in
hospital found that only 2.7% had a documented care planning discussion with a clinician and
just 13.6% were referred to a SPC team⁹. A recent review also noted that palliative services
for PD have been slow to develop¹⁰.

92 Previous qualitative research, conducted with healthcare workers (HCW), explored palliative 93 care needs in PD from their perspective. Less research has been conducted with carers, and 94 very little with PwPD themselves. This research illustrated the high disease burden in PD and 95 unmet palliative care needs; it was widely found that PwPD and their families have needs and 96 experiences similar to those with metastatic cancer³. Other recurring themes were: the 97 emotional impact of diagnosis, including changing social roles, financial difficulties, and carer strain associated with a family member developing PD^{3,11,12}. "Information tension" was
another key theme reported¹⁰, including a lack of information around the time of diagnosis,
yet also a seemingly paradoxical fear of knowledge; many reported difficulty requesting
information from HCW^{3,11,13}.

Hasson et al.¹² examined the end-of-life experiences of bereaved family carers of PwPD: they
reported a lack of preparedness for the death of loved ones; many struggled to cope and felt
abandoned and unsupported from healthcare services. Most had poor knowledge of SPC,
meaning that few accessed these services.

106 Other qualitative, non-palliative care research has found similar themes, for example the

107 experience of diagnosis as 'dropping a bomb'¹⁴, and the lack of support for carers¹⁵.

108 It is clear from the literature that there is a high disease-related burden in PD^{16} yet PwPD and

109 families are not being fully supported within existing healthcare systems from the

110 perspectives of HCWs and carers; notably this has been described across various countries

111 with different healthcare systems (e.g. Ireland^{8,17}, United Kingdom^{12,18}, Canada^{13,19}).

However, existing qualitative research involves very small sample sizes¹³, and more

113 importantly little previous research has investigated what PwPD identified as their own

114 palliative care and related support needs.

115 It is important to conduct research *with* a patient group²⁰ and PwPD are expert on their own

116 lives and condition. Therefore, this research complements our previous research with

117 HCW^{8,17} by adding the voice of PwPD and their carers.

118 The primary aim was to explore the palliative care and related issues affecting PwPD and

their families. A secondary aim was to explore participants' perceptions of palliative care and

120 elicit potential barriers or facilitators to accessing or receiving this care.

122 Methods

123 Participants

This study was granted ethical approval by the Clinical Research Ethics Committee of the Cork teaching hospitals (reference number ECM4[ee]/ECM3[s]). Participants were recruited from three movement disorder clinics in Cork, Ireland, between June-September 2014, using convenience and purposeful sampling. Previous research focused on advanced PD, however as palliative care is applicable throughout the course of a life-limiting illness, we included participants from early to advanced stages of illness.

Most participants were approached by the primary researcher (S.F.) face-to-face and informed about the study. Those interested were brought to a private room to read the study participant information and consent forms. Those choosing to participate could complete the interview that day, or arrange another suitable time. Other participants were recruited by their neurologist or geriatrician; those interested had their contact details forwarded to the researcher.

Most participants who were approached agreed to participate. Those who declined reported feeling tired or unwell, or not having time. Oral and written consent was collected from all participants prior to the interviews. The demographics of study participants and those who declined participation were similar for age, sex, and PD duration. We planned to recruit 15 carers and 15 PwPD; however, data saturation was achieved earlier than anticipated in the carer group (n=12), and later in the PD group (n=19). Where a primary carer was present, PwPD and carers were given the option to be interviewed as a dyad; six paired interviews were completed. This made it possible to explore the topics from different perspectives basedon the dynamic of dyad or solo interviews.

145 Data collection

Two semi-structured interview schedules were developed based on our previous research⁸ and existing literature¹². These were pilot-tested with one PwPD and one carer, and minor changes to wording and question order were made. These interviews were included in the final analysis. The topic areas are listed in table 2. As the literature indicated that many people are unfamiliar with palliative care, a definition was read to all (see Table 2).

Most interviews lasted 20-40 minutes, and were audio-recorded. All interviews took place in
a private clinic room. Written reflections were recorded detailing participants' non-verbal
interactions. Participants completed a basic demographics questionnaire.

154 Analysis

The first author (S.F.) conducted all interviews and analysis, ensuring familiarisation with the 155 data. S.F. is a female researcher with a PhD in psychology and experience of conducting 156 quantitative and qualitative research in PD. S.F. wasn't known to any of the participants, 157 limiting a personal influence in recruitment. S.F. introduced herself as a local University 158 researcher interested in exploring the experiences of PwPD and their carers, and their support 159 service and related needs. To identify and minimise potential bias a reflexivity diary was 160 161 logged throughout data collection and analysis. Interviews were transcribed verbatim and analysed using NViVo software, which assisted in storage, searching and managing the 162 coding. 163

Data were analysed and reported according to Consolidated Criteria for Reporting Qualitative
 Research guidelines²¹, wherever possible.

167 **Results**

- 168 Demographics.
- 169 Thirty-one people participated in 25 interviews: 19 PwPD and 12 carers. The sample
- 170 characteristics are shown in table 3. Interviews were conducted across Clinic A (n=5), Clinic
- 171 B (n=10), and Clinic C (n=10).

172

173 Themes.

Seven themes were identified in the analysis. The theme names and the relationships between the themes are represented visually in figure 1. This diagram highlights the key issues faced by PwPD and their carers, and how sometimes the needs of the PwPD and carer overlap and at other times they experience unique needs. The diagram also highlights that palliative care (general or specialist) can have a role in addressing all of these needs, at every stage of illness.

180

181 High disease-burden.

This theme refers to the significant challenges of managing the physical and psychologicaleffects of PD on both the person and their carer.

184 *Patient burden.* PD clearly affected people physically. Declining physical health with

increased fatigue interfered with people's ability to complete activities of daily living. One

186 PwPD reported *"feel[ing] a lot older than what I am"*.

Decreased physical health was one factor directly affecting mental health. One carer
identified depression as '*part-and-parcel*' of PD. Motivation loss was common throughout
the illness. Participants spoke about the impact of non-motor symptoms: "*I get up in the morning and just kinda say to myself 'God almighty, the start of another day'* ... *I feel tired, I feel kinda tired the whole the time, and I feel 'how am I going to get through the day [sic.]'*"
(*PwPD 2*)

and how this may go unnoticed:

"you might look ok from the outside but on the inside we are suffering away in our own way"
(PwPD 18).

196 Advancing illness impacted participants' social lives. Some were embarrassed by their

197 tremor, or worried that it would worsen with people watching them. PwPD withdrew from

social engagements: "I don't go out as much because I get tired way earlier in the night and I

199 *might be spoiling other people nights, so I just come home early*" (*PwPD 19*). Some felt that

200 they couldn't complain to friends as they might 'bore' them and 'drive them away'.

Overall, loss of independence and mobility were cited as the biggest impacting factors onquality-of-life.

203 *Carer burden.* Carers, themselves often elderly and/or ill, experienced significant financial,

204 physical and emotional caregiving burden. Some carers felt guilt acknowledging this burden:

205 "I know that is selfish but [I would like] some time off, not every weekend but maybe the
206 odd weekend just to have time and not feel guilty." (Carer 8).

207 Carers experienced social isolation as the PwPD became more dependant and required full-

time care. Carers faced complex psychosocial issues. For example, the bereavement process

209 may start before the PwPD's death as carers grieve the loss to a nursing home or loss of their

210 loved one's personality. 'What I miss would be his personality; he was a very chatty man,
211 now he's quiet' (Carer 1).

212

213 Information and Support needs: no 'one-size-fits-all'

There was an overall lack of information at diagnosis. Some participants were missing basic information about PD, even to know that it is incurable. Some participants would have liked all of the information up front to prepare for advanced illness...

217 "I wanted to know, what I wanted to ask ... is there a progression, is there a time scale ...

some people mightn't want to know about that at all, but I would prefer to know, so you can
deal with it then, and you can be prepared for it" (PwPD 10).

...while others preferred to '*live day-to-day*'. Participants suggested that information should
be: tailored to individuals, depending on their illness stage and mind-set; available in many
formats, including printed, online, phone support, DVD, seminar, leaflets, etc. People who
had used the phone support service of the Parkinson's Association of Ireland to speak with a
PD nurse found it helpful for general information, or clarifying information that they heard
elsewhere.

PwPD and carers were sometimes unsure of what services or supports were available, and/or didn't know how to access these. Most who were experiencing advanced disease highlighted the importance of having sufficient and timely information to adapt homes, contact relevant services, prepare emotionally.

Support needs were very individual. For example, many people greatly valued patient and/or
carer support groups; for others attending such groups caused anxiety when seeing others
with more advanced illness.

233	"We met some very nice people, they are all in the same boat, and [by comparison with
234	other's in the support group] I seem to be coping fairly well." (PwPD 15)
235	"Witnessing people who had more advanced Parkinson's than myself, I find that quite
236	disturbing." (PwPD 14)
237	Informal family support was viewed as very important. Participants agreed that PwPD living
238	alone would need greater formal supports, such as regular nurse visits. PwPD living alone
239	admitted more vulnerability to depression as they have 'too much time to think' (PwPD 1).
240	Overall PwPD and their carers wanted to have different information and support options to
241	suit individual preference and illness stage, as no 'one-size-fits-all'.
242	
243	Crisis times needing extra support
244	Crisis at diagnosis. This theme related to the feelings of grief, depression, uncertainty, and
245	hopelessness at the time of diagnosis. For many, the diagnosis was a prolonged, stressful
246	process. A lack of previous knowledge about PD meant that many thought they had been
247	given a 'death sentence': "I immediately classified Parkinson's as 'Parkinson's, multiple
248	sclerosis, cancer', they were all the same, they all wiped you out." (PwPD 15). Carers with
249	experience of PD were aware of the serious implications of the diagnosis, 'we never in our
250	darkest days thought X would get it. Never, ever, ever.' (Carer 3).
251	Some PwPD coped initially by 'living in hope' for a cure however many also admitted that
252	they were 'burying their head in the sand' (PwPD 14). Carers more often considered the

reality of the incurable disease: '*do you think he will need more care in the years to come*?'

Crisis at advancing illness. This theme related to the many challenges faced by both carers
and PwPD as the illness progresses. PwPD faced the reality of their illness at this stage:

- 257 '[you get] a realisation that Parkinson's is a serious thing and there is no cure and you
 258 see yourself going downhill every day, that's sometimes difficult to take.' (PwPD 7).
- Many carers were unprepared for advanced illness and their partner's high support needs, as they had often been told '*you don't die from Parkinson's*'. Carers found it difficult making tough decisions about the care of their loved one, and would value support:
- 262 *"I found it difficult making the right call, whether to call the doctor or to take him in [to*
- 263 *hospital], judging whether he was going to be ok, things like that. When you have no*
- 264 *experience, when you are going through it for the first time and you are trying to find*
- 265 *your feet, I found that very stressful.*" (*Carer 8*)
- 266 Most carers wanted to care for the person at home, and felt guilt and despair when that was267 no longer possible or preferential.

268

269 Experience of healthcare services: feeling unsupported

Limited and sporadic contact with healthcare teams left some PwPD and carers feeling
'alone' facing their illness; PD is "*a one-man show, and anything I got I got it myself*"
(*PwPD 7*). Participants felt unsupported when meeting different HCWs at every clinic or
hospital visit, and felt that support '*dropped off*' when they returned home following a
hospital or respite stay. Many participants perceived that their doctor was only interested in
their medication needs, overlooking social and psychological needs which were often more
distressing.

277 Poor cohesion between services, and uncertainty about the available support services caused278 frustration for participants, impinging on carers' ability to care for the PwPD:

- 279 "The doctor, he promised us everything, he promised us loads of home help, it isn't
 280 available, it just isn't available, we were actually very very lucky to even get the one
- 281 *hour five days a week, that's what we were told and there was never a question of*
- coming in again during the day, that was never going to happen." (Carer 8)

283

284 Experience and perceptions of palliative care

Advance care planning. This theme relates to planning for the future, an emotive topic for all participants. All participants worried about the future to some extent. However, some with early stage illness didn't want to think about the future, hoping that a cure would come in time for them: *you just have to wait and hope they get a cure in time (PwPD 18)*. These

289 people felt that advance care planning may be too depressing.

However, those living with more advanced illness, when medications were becoming less

effective, were more open to discussions about the future. Some PwPD living with advanced

illness had already given a lot of private thought to care directives: 'I don't want to be kept

alive because I am alive; I want to be kept alive because I want to be alive' (PwPD 14).

Another man who had lived with PD for 24 years was very comfortable discussing death and

dying: "I have a few friends who died ... and again they are not different because they are

dying, it is a natural thing, and then hopefully they are not in pain, and quality of life is a big

297 *thing*" (*PwPD* 7).

Similar to the "no 'one-size-fits-all' theme", discussions around advanced care planning needto be delivered at a time when the individual person/couple is ready; participants felt that this

300 would change depending on age, personality, disease stage.

301

302 Perceptions of palliative care. Many participants were unfamiliar with the term palliative
 303 care, others misunderstood it as 'home help' or 'counselling', or thought that it was only
 304 available to people with a cancer diagnosis:

305 "I have [heard of palliative care], they are attached to X Hospital but I don't know about

them, but they are for cancer patients I know that, but whether they apply to [PD], I suppose

307 they probably do I don't know." (Carer 5).

308 Those who had previous experience of SPC nurses, often during the death of a relative, all 309 reported positive experiences: '*they are fantastic people*' (*PwPD 14*)

310 When the role of SPC in symptom control was explained, most people felt that they would

benefit from this support. Carers were interested in a service which would include them in the

unit of care. Participants experiencing advanced illness welcomed any specialised support,

including help with anxiety, breathlessness, fatigue, or other issues affecting quality-of-life.

314 Participants experiencing advanced illness stages were pragmatic about their needs and

315 welcomed any supports that would decrease burden.

316

317 Discussion

Increasing attention is being paid to the need for palliative care for neurological illnesses,
including Parkinson's disease (PD). This study adds to the literature by directly asking people
with PD (PwPD) and their carers about their support needs, and eliciting their perceptions of

321 palliative care. Past research has largely relied on the experiences of healthcare workers322 (HCW) or carers only, omitting the PwPD's voice.

It was evident in these interviews that the holistic and person-centred approach of palliative 323 care could potentially help to alleviate the complex burden experienced by PwPD and their 324 carers. In the opinion of these participants, their care focused on the management of motor 325 symptoms and medication, with little or no psychological support. Past research has 326 highlighted the importance of non-motor symptoms to quality-of-life and health status in 327 PD¹⁶. Thus, a palliative care approach which considers the holistic or bio-psycho-social 328 model of illness is needed, in contrast to the dated 'medical-model'. As Hudson et al.³ noted, 329 the psychological support offered to PwPD and families in response to feelings of loss and 330 fear of the future, a common part of palliative care practice, would help in supporting the 331 PwPD and their carer, and the complex grieving processes reported in this study. 332

Similar to previous international research with carers which reported 'fragmented and patchy'
access to social and health care services^{12,17}, PwPD, as well as carers in this study, often
experienced disjointed support from the healthcare system. PwPD without a formal carer may
be particularly vulnerable; they may be less likely to seek formal supports (often difficult and
frustrating to access), a task often carried out by carers.

Past research with HCW highlighted their uncertainty about the appropriateness and timing of palliative care interventions, resulting in unmet needs¹⁷. Key 'crisis times' for extra support and/or SPC involvement were identified, namely at diagnosis and at advancing illness. PwPD and carers would further benefit from all HCW adopting a palliative approach to their care at all stages, focusing on psychological and other non-motor issues. Regarding advance care planning, PwPD and carers differed in preparedness for this discussion, but notably a sizeable portion would like to have these discussions soon after diagnosis. This is in line with past

survey research which showed that 21% of PwPD would like early discussion about end-oflife planning and 27% about end-of-life care options such as hospice²².

As in past research^{3,11,13}, a lack of information was highlighted; many participants had limited 347 348 information about PD. This was problematic for many reasons, for example many didn't realise that their non-motor symptoms may be attributable to their PD, and didn't seek help 349 from their specialist, even when in great distress. This study also uniquely adds to the 350 previous discussion by using both solo and dyad interview structures which highlighted the 351 differences in what information PwPD and carers want, how they want this to be delivered, 352 and by whom. Notably, carers were lacking information about coping with advanced disease 353 and were unprepared for this burden. Goy¹⁹ also noted unpreparedness for their loved ones' 354 death in PD. Information given to the carer must be balanced however with the PwPD's 355 readiness to accept information, and they may prefer to receive this information more slowly. 356

A common theme in previous research with HCW was their perception of the fear and stigma associated with palliative care in the minds of PwPD and carers, which inhibited HCW in discussing these issues with their patients with PD^{8,17,18}. However, the current results revealed few participants who exhibited this 'fear' of palliative care. Many were simply unfamiliar with the term, and most PwPD in later disease stages were open to any supports that may improve their quality-of-life.

Limitations. The authors acknowledge that this research is based on a limited qualitative sample. While effort was made to reach a varied sample of participants in urban and rural settings, attending three different clinics, and at different stages of illness, no claim to generalisability of the findings is made. However, the current results add to the literature the experiences and perceptions of PwPD, and their current carers, about palliative care. A single author completed the data analysis, however the analyst is experienced in methods of

369 qualitative analysis, and we ensured a robust research process through establishment of a

370 project steering group which oversaw all stages of the research.

371

372 Recommendations.

The following recommendations are made based on the current results, and in light ofprevious literature:

375 *Clinical.* HCW should be mindful of cues from patients that they want to discuss palliative or

end-of-life issues; HCW may underestimate PwPD and family's need for frank discussion

and overestimate the stigma associated with palliative care. The delivery of information

378 should however be tailored to the individual PwPD and/or carer.

379 Participants in this study experienced fragmented support from the healthcare system. The

provision of palliative care to PwPD requires a multi-professional and integrated approach,

381 with effective communication between HCW.

Research. It is becoming widely accepted that PwPD and their families would benefit from
a palliative care approach supplemented by SPC, and the specific areas in which they most
require support have been outlined. Future research should focus on developing,

implementing, and evaluating palliative care supportive interventions. Research looking at
cost-effectiveness will be important. The public/patients should be involved in all stages of
research.

Policy. SPC should be offered on a needs basis; currently there are some PwPD and their
carers who need these services, yet are not accessing them. The introduction of evidencebased guidelines for palliative care in PD would improve HCW confidence in supporting
PwPD, and improve referral to SPC where needed.

392 Conclusion.

PwPD and their carers experienced complex physical and psychosocial symptoms, and could benefit from their HCW adopting a holistic palliative care approach to their care. Most PwPD's 'palliative care' needs are addressable within existing disease management programmes. Accurate and responsive needs assessments are important to involve SPC when needs become complicated and outside the scope of the primary care team. As many PwPD and carers are unfamiliar with palliative care, further education is essential so that they can access these services as needed.

400

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