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Co-production with marginalised workers: working with homecare workers and managers caring for people approaching end-of-life

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1 Co-Production with Marginalised Workers:

2 Working with Homecare Workers and Managers

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1	Abstract

2	Background: Co-production is important due to its effectiveness in
3	creating relevant and meaningful outputs for use in social and healthcare
4	practice, however, frontline staff such as homecare workers (also known
5	as aides, personal assistants or domiciliary care workers providing paid
6	care within the home) are a key group within the social care workforce
7	who are under-represented in this approach. Here, we report our
8	coproduction process engaging with this workforce to develop training
9	resources for workers providing end-of-life homecare.
10	Aim: To co-produce training resources with homecare workers and their
11	managers to support and educate workers delivering end-of-life homecare
12	using evidence from our larger qualitative interview study.
13	Methods: We conducted a series of 12 co-production workshops with UK-
14	based homecare workers and managers (partners) to design training
15	resources and recommendations for homecare providers informed by
16	research findings. We adopted the five key principles of co-production:
17	Sharing of power; Including all perspectives and skills; Respecting and
18	valuing knowledge; Reciprocity; and Building and maintaining
19	relationships. A co-production advisory group of homecare workers as well
20	as the workshop partners gave valuable oversight throughout the
21	workshop series
22	Results: 77 partners (31 homecare workers, 46 managers) participated in
23	12 workshops (one face-to-face; 11 online). Our approach enabled
24	power-sharing, inclusivity, respect, collaboration and reciprocity,

Τ	relationship-building, and identification of effective flexible approaches to
2	co-production. Specific forms of training resources were co-created.
3	Training recommendations (content, delivery formats, access during
4	working hours, etc.) were also developed together. Challenges were non-
5	attendance and lack of engagement by some partners during sessions.
6	Conclusion: These workshops are the first, to our knowledge, to
7	successfully co-produce end-of-life care training resources with homecare
8	workers and managers, a poorly represented workforce in co-production.
9	Challenges included inconsistent attendance and poor engagement by a
LO	minority of partners. The five key principles of co-production enabled true
l1	engagement with the process, thereby enriching the final outputs.
L2	Keywords: palliative care, training, co-design, co-creation, co-production,
L3 L4	homecare
	Diain English Guranany
L5 L6	Plain English Summary Background Access to personalised homecare is crucial for people
L7	wishing to remain in their own homes when approaching end-of-life. Most
18	home-based care within the UK is provided by paid, unqualified (a
L9	standard professional qualification is not required) carers, often called
20	homecare workers or domiciliary carers. End-of-life care addresses social,
21	psychological, emotional, and physical needs but there is little training
22	that is accessible or available to this workforce. In addition, this workforce
23	is rarely, if ever, involved in the co-production of training resources.

1	Methods We used an approach called co-production to partner with
2	homecare workers and their managers to co-create end-of-life care
3	training resources. The parent study for these workshops included
4	interviews with care recipients and their families, health professionals,
5	and homecare workers and managers and evidenced the key areas of
6	training needed for homecare workers when delivering this type of care.
7	We used this knowledge to co-produce training resources and a set of
8	recommendations for training.
9	Results Several key aspects of this co-production approach were
10	effective in engaging a workforce rarely considered in co-production
11	activities. There were some challenges such as lack of engagement from
12	some partners.
13	Conclusions As far as we know, this is the first example of successful co-
14	production work partnered with homecare workers and managers to co-
15	create meaningful training material for use in the workplace. Our
16	experience may be helpful for others wishing to conduct co-production
17	work with rarely involved partners.
18	Background
19	In the UK, homecare workers, (also called aides, care assistants,

- 20 domiciliary carers, personal assistants or other titles in the UK and
- overseas), are a crucial workforce providing essential individualised, and 21
- 22 relational basic personal care and support to people in their own homes
- 23 [1,2]. As people approach the end-of-life, many need care and support

- 1 from homecare workers, particularly those wishing to remain (and die) in
- 2 their own home.
- 3 Training is crucial to enable homecare workers to work safely, confidently,
- 4 and effectively, and can improve care quality, staff retention, and overall
- 5 service user satisfaction [3]. Providing quality end-of-life homecare and
- 6 managing the challenging emotional and psychological impact of such
- 7 work requires staff training informed by real-world examples and
- 8 experiences [4,5]. In the UK, end-of-life care training for the homecare
- 9 workforce varies in terms of availability and quality [1] with no
- 10 standardisation for workers and providers. However, ongoing, end-of-life
- care training is needed to help improve provision of this care [6] for
- 12 example, in managing symptoms like breathlessness or pain [7].
- 13 Co-production is an emerging field in health and social care [8,9],
- including the co-creation of educational materials [10,11,12]. In this paper
- 15 we adopt the definition of co-production as the process of co-developing a
- solution to a problem [13]. Co-production is more effective, relevant,
- 17 engaging, and impactful, and outputs more likely to be accepted and used
- in health and social care [27,28]. Despite the increased interest in this
- 19 approach, there are few reports about the involvement of care services in
- 20 co-developing solutions, reducing the ability for others to learn from best
- 21 practice and prior experience [14], with few practical illustrations of co-
- creation approaches [8]. To our knowledge, none have included homecare
- 23 workers. This workforce is often overlooked in health and social care
- 24 service research and its implementation [15]. This is despite over 14,000

- 1 recognised homecare organisations providing care to over one million
- 2 people in the UK [16] and homecare provision becoming a key issue
- 3 worldwide due to an ageing population, increased family mobility, and
- 4 increasing complexity of care required within the home setting [17,18].
- 5 Knowledge mobilisation describes the generation, sharing and use of
- 6 evidence within health and social care [19]. Here, we report how we
- 7 designed and delivered successful co-production workshops with
- 8 homecare workers and managers as partners to share and use evidence
- 9 to develop focused, relevant, and appropriate training resources.
- 10 Aim
- 11 To describe the process of co-producing training resources with homecare
- workers and their managers to support and educate workers in delivering
- 13 end-of-life care.
- 14 Parent Study Background
- 15 The SUPPORTED study [20]), explored the experiences and training needs
- of homecare workers providing homecare at end-of-life and identified the
- 17 topic areas and delivery approaches for training. Detailed methods and
- 18 findings of this study are reported elsewhere [21,22,23]. In summary, we
- 19 found that homecare workers are not routinely trained or knowledgeable
- about caring for clients approaching end-of-life, and have little
- 21 engagement or involvement with any other professionals providing care,
- 22 such as community nursing, hospices, therapy services or local charity
- 23 support. The topic areas for training content and delivery considerations
- 24 are shown in Table 1 below.

1 Table 1: Identified Training Topics and Training Resource Formats

Agreed Topic Areas	First steps into end-of-life care
for Training	'Just a care worker' – understanding what you bring
	Practicalities of delivering care at end-of-life
	Looking after yourself
	Homecare worker as a professional
	End-of-life care and the unexpected
	The final months of life – what might it look like?
	Different conditions – what you might see
	Not just the physical – psycho-social and spiritual care
	Communication skills
	Working with those important to the people you care
	for
	Working with other professionals
	Effective management – beyond the team
	Interacting as a team
	Advanced communication skills
	Expanding the role of the homecare worker
Delivery	Slide decks for face-face teaching
Considerations -	Narrated slide decks for remote learning
Agreed Formats	What if? Cards for adhoc 'bitesize' learning and
	supporting supervisions, debriefs, group and individual
	learning
	· · · · · · · · · · · · · · · · · · ·

2

3 Co-Production Methods

- 4 Co-production uses a participatory approach, where project facilitators
- 5 and partners-with-experience work collaboratively, sharing power and
- 6 valuing each other's different expertise [24]. We adopted five key
- 7 principles of co-production: Sharing of power; Including all perspectives
- 8 and skills; Respecting and valuing knowledge; Reciprocity; and Building
- 9 and maintaining relationships [25].

10 Recruitment:

- 11 We invited homecare workers and homecare agency managers across
- 12 England from organisations who had engaged in the SUPPORTED study, as

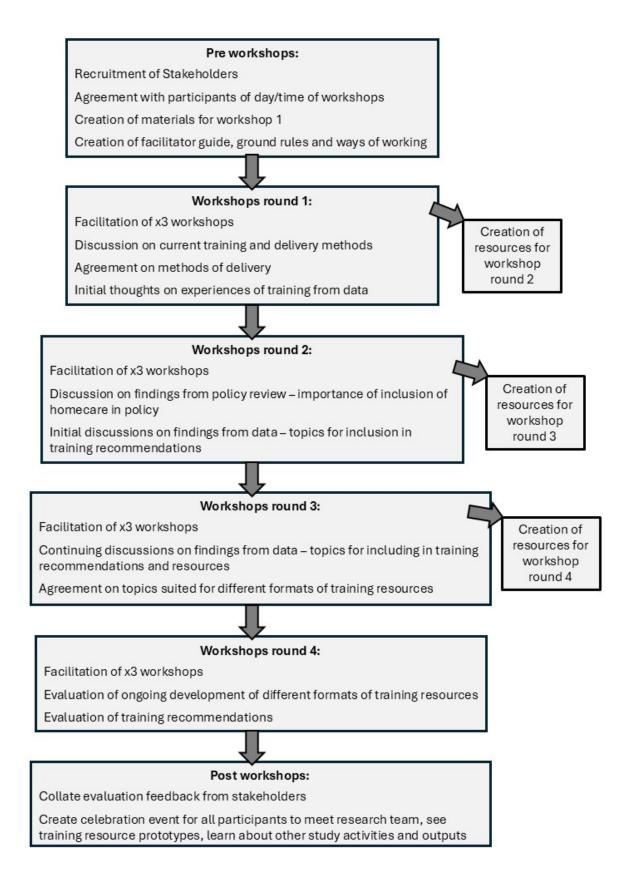
- 1 well as using social media and established contacts known to the project
- 2 team to identify other partners. Skills for Care, a national workforce
- 3 development organisation, also promoted the workshops through their
- 4 networks. As this population are under-represented in service
- 5 development or research, getting access to, and positive responses from
- 6 homecare providers was difficult. They were unfamiliar with the structure
- 7 and purpose of coproduction, which, together with a varied and irregular
- 8 work pattern, for example, no regularly time-tabled shifts, and workers on
- 9 zero hours contracts, meant that sustained effort throughout the 7-month
- 10 period was required to gain and maintain sufficient numbers.
- 11 From 133 people who registered to participate in the workshops, 31
- 12 homecare workers and 46 agency managers took part in 12 workshops
- 13 (one face-face; 11 online) in four rounds of three parallel workshop
- 14 sessions over a period of seven months during 2024 to enable the co-
- production of training resources. 37 people attended more than one
- session but attendance was unpredictable (see Table 2).

17 Table 2: Workshop Attendances

Workshop	Agreed to	Actual	Attendance	Previously
Round	Attend	Attendance	for each	Attended
			workshop	
1	30	19	10, 6, 3	-
2	32	21	3, 7, 11	5
3	42	20	6, 7, 7	16
4	39	17	5, 7, 5	16

- 1 Workshops were chosen to allow space for discussion, reflection, and
- 2 refinement [26]. Planning of the co-production workshops was supported
- 3 by a service user advisory group comprising of homecare workers and
- 4 carers (family or friends) of people who had received care. They provided
- 5 important feedback such as the use of parallel sessions to ensure
- 6 managers and homecare workers were given separate spaces to openly

1 contribute. The stages of the workshops are illustrated below in figure 1.



1	Figure 1: Workshop Stages
2	Our project team members included five experienced qualitative
3	researchers with professional backgrounds in education, occupational
4	therapy, social work, medicine, nursing, and social care, as well as
5	transferable skills in facilitating workshop discussions and dialogue. One,
6	who had professional training and experience in education, took
7	responsibility for creating workshop resources and facilitator guides. A
8	facilitator's guide was produced for every workshop to ensure
9	consistency. These detailed each activity including suggestions for
10	stimulating discussion. Two team members facilitated each workshop to
11	ensure partners felt included, and their perspectives were valued, rather
12	than just perceived as an add-on to enhance research quality [29]. Having
13	two facilitators reduced the risk of missing any important information or
14	insight shared by partners, as a form of member-checking the information
15	shared.
16	Data Collection:
17	Each workshop was video recorded in addition to facilitators making notes
18	to aid accurate recall and summary of key points and decisions made.
19	These were then used to help produce initial versions of the resources,
20	and plan for the subsequent rounds of workshops where resources were
21	refined.

22

1 Results

- 2 The workshop series enabled us to report three key areas. Firstly, the
- 3 impact of our techniques on the co-production process, secondly the
- 4 impact of co-production on the training resource outputs, and thirdly, the
- 5 impact of participation in the co-production activities on the partners.
- 6 Impact of co-production techniques
- 7 The use of the various techniques helped foster knowledge sharing and
- 8 collaborative working to co-produce training resources.. The techniques
- 9 we used which evidence each of the co-production principles [19] are
- 10 shown in Table 3.
- 11 Table 3: Summary of Co-production Principles and Techniques Used

Co-production	Techniques Used	
Principles		

Sharing of power - Researcher role designated as facilitator

The research is Partners involved in the design and content of

jointly owned, and workshop series

people work Sharing of decision-making relating to resource

together to achieve production

a joint

understanding

Including all Facilitators supported with guidance on how to

perspectives and manage group sessions

skills - Make sure Accessible workshop design through format and

the research team materials used

includes all those Facilitators' knowledge and skills in active listening

who can contribute and probing to encourage contributions

Implementing 'Ways of Working' plan to facilitate

inclusion

Use of technology (i.e. Microsoft Teams) to enable

partners to contribute

Respecting and Facilitators encouraged group discussions

valuing the Workshop materials provided in understandable

knowledge of all language and style in advance

those working Direct acknowledgement of expertise and

together on the experiences of partners

research - Everyone Recording of session and note-taking to enable use of

is of equal knowledge shared

importance Partners received payment for their contribution

Reciprocity -	Workshops achieved consensus among partners re:
Everybody benefits	training materials design and content
from working	Partners co-produced a list of recommendations for
together	training
	Partners collaboratively decided on importance of
	training areas
	Partners gained knowledge on purpose of research,
	research methods, and co-production techniques
Building and	Accommodation of partners' needs in relation to
maintaining	scheduling of workshops, materials provided,
relationships	structure of sessions
	Creation of inclusive and respectful workshop
	environment
	Regular communication throughout workshop series
	on impact of involvement and processes of co-
	production
R	Invitation to end of research celebration event

1

- 2 We dedicated preparatory time to develop materials for supporting the
- 3 workshops and guiding partners; a key component of effective co-
- 4 production [12]. We observed that the 'Ways of Working' and 'Ground
- 5 Rules' materials helped us to establish a shared understanding of the
- 6 workshop environment, especially important as many of the partners had
- 7 not engaged in co-production activities before. The materials covered
- 8 issues such as confidentiality and respect, encouraged inclusion, active
- 9 listening, use of cameras and microphones for online sessions, and

1	recording of sessions. We reminded partners of these ways of working,
2	which helped us facilitate the workshops in a friendly, open, and inclusive
3	way, and develop a rapport within groups. The partners advised us that
4	they appreciated a structure with facilitators to guide discussion and to
5	encourage people to contribute. These ground rules allowed us to create a
6	safe and supportive space for us to monitor group dynamics, ensuring all
7	were given time and space to share their perspectives [30].
8	Resource packs were created for each session, where we presented the
9	information from the SUPPORTED study in accessible formats; these were
10	shared in advance of each workshop. This was planned to help partners
11	feel more prepared and confident for the session'. Partners also told us
12	that it helped them to acquire new knowledge and understanding around
13	the SUPPORTED study's findings. They felt better able to engage and
14	contribute to the workshops, resulting in higher quality co-produced
15	outputs. We dedicated some of the early workshop sessions to providing
16	an insight into the previous research process from the SUPPORTED study,
17	explaining terminology and practices such as data analysis. This was a
18	form of knowledge mobilisation and making the process more relevant,
19	which has been argued to be an effective strategy for co-production in
20	health research [17].
21	Partners were paid for their time in line with the National Institute of
22	Health Research (NIHR) and best practice for co-production guidelines.
23	Payment encouraged recruitment and participation as homecare workers
24	advised that they appreciated this, particularly as we also paid for time to

1	read and review the material prior to the workshops. Payments also
2	helped to demonstrate that we valued their time and expertise and
3	provided a tangible benefit for their involvement; particularly relevant for
4	a low-paid workforce.
5	We used our series of workshops to enable a larger number of
6	perspectives to be heard across the groups, and to develop ideas as the
7	resources were developed. The workshops were arranged at mutually
8	convenient times. Some workshops were held at the weekend or during
9	the evening to accommodate the varying needs of a workforce who
10	provide a 24/7 service. Our approach of having multiple workshops, each
11	building on the previous session, enabled us work at a slower and focused
12	pace [31] and develop relationships, as we found over half of partners
13	attended more than one workshop.
14	CLE
15	Impact of Co-Production
16	The various strategies we employed to build rapport, support inclusion,
17	and work in a mutually beneficial workspace enabled significant homecare
18	worker input to the development of the training resources throughout the
19	workshops.
20	The first round of workshops was focused on initial ideas and concepts for
21	the resources. The proposal to ensure some training was targeted at
22	managers arose from concerns that as often the gatekeepers for staff to
23	undertake training, they need to have the knowledge and skills to do so.
24	The partners also helped to shape the length, format, and level of training

Т	- advising that training should be tiered to suit different stages of career,
2	be available in different formats depending on whether it is face-face or
3	remote training, and different lengths to suit a "coffee break" snippet or
4	longer dedicated training sessions.
5	In the second round we shared some initial findings from the research
6	study, which prompted discussions on the key topics that training should
7	cover, influencing our curriculum document. The partners also worked
8	with us on our policy review findings and agreed that policy around end-
9	of-life care must include community-based care workers, because of the
10	crucial work they provide for people who often want to be at home when
11	approaching end-of-life.
12	We presented more findings from the SUPPORTED study for the third
13	round of workshops. This enabled partners to consider specific areas of
14	training that we could develop, for example, managing conflict, emotional
15	burden, and signs of dying. We were also able to work together to
16	understand which training was better suited to different formats, for
17	example, partners were keen that any training focused on communication
18	such as working with family members, should be designed for a face-face
19	delivery style i.e. PowerPoint slides for a manager/trainer.
20	In the final round of workshops, partners were able to advise on draft
21	versions of training material we had produced following their suggestions
22	in round 3. This critique enabled us to modify and refine our resources.
23	We were also able to share a draft version of our training
24	recommendations document, which we were able to collectively improve

- 1 to be more reflective of what the research and our partners feel is most
- 2 useful and effective.
- 3 The culmination of all the workshops enabled us to generate a suite of
- 4 resources including a training recommendations booklet, Powerpoint slide
- 5 decks, PowerPoint videos with voiceover, and a series of printable
- 6 postcards entitled "What if..." cards which detail a response to a fictional
- 7 question based on the research data and the workshops discussions e.g.
- 8 "What should I do if my client says something inappropriate to me?".
- 9 We recorded the impact of the partner's recommendations within each
- round of workshops separately and have summarised these in table 4.

11 Table 4: Impact of Co-production on Outputs

Workshop 1				
Partner Recommendation	Impact			
Training managers is crucial	Separate recommendations for end-of-life			
to better support homecare	care training have been created for			
workers, and to potentially	managers			
provide in-house end-of-life				
care training				
Food of life cours have in in a	Adaptatian afterioina na agamman dationa			
End-of-life care training	Adaptation of training recommendations			
should be at distinct levels	into three levels of 'first weeks', 'first			
as new homecare workers	months' and 'advanced' for homecare			
may be overwhelmed by too	staff, including training aimed at			

much content on end-of-life	managerial level to support workers when
care	learning about end-of-life care
Any materials should be	We will ensure all end-of-life care training
easily accessible	materials are freely accessible online and
	agencies can print off resources to give to
	staff who cannot access online
Training sessions should be	Presentation length was reduced, with
different lengths of time to	space for lengthening or merging materials
allow for remote learning	to create longer sessions by agencies if
and in-person training	required to meet specific end-of-life care
	training needs locally.
	ORK
Any materials need to	Case studies from our data, input from
include case studies,	expert writers knowledgeable of end-of-life
scenarios, and problem-	care, and fictional situations have been
based learning	included in the training
Material should be	Material will be freely available at any time
permanently available, for	online
refresher training even after	
completion	
Training should be	Material can be modified by managers to
personalised to suit learners	suit their individual learners and context of
	their own location and staff

Ensure communication is a	Training in communication has been
key component of any end- of-life care training	included within the end-of-life care training resources
of-life care training	resources
key component of any end-	included within the end-of-life care training
_	recommendations
training content	it has been included as part of our policy
Consider accreditation of any	This is beyond the scope of this project, but
-delivery, content, approach,	

Workshop 2

Partner Recommendations	Impact
Identified reasons for homecare	Some of the points raised have been
workers to be included in policy	integrated into our policy recommendations
on community-based end-of-life	
care	
Identification and agreement on	Used in first draft of training
critical areas of training needs	recommendations and considered when
for homecare workers, based on	creating list of training resource topics
findings from research data	
themes	

Impact

Workshop 3

Partner Recommendations

Further dentification of	Used to generate list of end-of-life care
important training areas	training resources to be created, and
through discussion and	development of the training
activities drawing on themes	recommendations document
from interview data analysis	
findings	

Workshop 4

Partner Recommendations	Impact
Critiqued draft	Critique used to modify recommendations
recommendations with	for training curriculum
guidance on improvements	155
Critiqued draft formats of	Resources modified according to workshop
training resources with	suggestions including colour, layout,
guidance on improvements	format. Recommendations to keep text
-1C1	levels minimal, employing colourful and fun
2P1,	design, include interaction, space for
	discussion and reflection, and quotes where
	possible shared with resource writers.
	Allowance for mangers to modify where
	appropriate. Recommendations influenced
	final designs including hearing the
	authentic voice of experts including
	homecare workers and managers.

Discussion

1

2	We report a successful collaboration which valued each other's expertise
3	and knowledge. Co-production is a flexible and holistic method of
4	developing educational materials [32] more likely to be adopted and
5	usable, [12] but which comes with its own challenges and tensions [33].
6	We managed challenges and tensions, being mindful of the difficulties of
7	working with a workforce poorly represented in co-production, who
8	benefitted from adapted strategies for inclusion within co-production [34].
9	We had to build trust within the homecare workforce, aware that the lack
10	of experience and knowledge of co-production could cause mistrust and
11	reluctance to contribute [27].
12	Changes to practices and cultures are needed to enable the application of
13	co-production principles [33]. The specific support needs required for
14	collaborations with under-represented groups such as the homecare
15	workforce [15] need to be understood, and a bespoke plan made, which is
16	flexible around the context, content, and the cohorts engaged [34].
17	Co-production has enabled previously marginalised service users to
18	become equal partners [35]. This was true in our experience with the
19	homecare workforce. By incorporating co-production principles into the
20	planning and delivery of the workshops we evidence tangible outcomes
21	that were directly influenced by homecare workers and homecare
22	managers. These outcomes were not just in terms of the training
23	resources produced, but also in the mutual benefits for both the project
24	team members and the homecare workers and managers involved, who

1	were able to develop a closer relationship and understanding about their				
2	different perspectives and knowledge base.				
3	We aimed to co-produce training resources with homecare workers and				
4	homecare managers, as we wanted our resources to be grounded in their				
5	experiences and expertise and be useful within the care sector. To our				
6	knowledge, this is the first study to develop training resources for				
7	homecare workers that has not only used data directly sourced from				
8	homecare workers and those associated with home care at end-of-life bu				
9	also partnered with homecare workers and managers to collaboratively				
10	co-produce resources.				
11	This report provides an example of a successful method used to create				
12	training resources for health and social care service providers who are				
13	often not included in collaborative and inclusive practice, have no				
14	regulation regarding what end-of-life training (if any) they should receive,				
15	and yet are arguably one of the most essential care providers of end-of-				
16	life homecare. Previous studies around education and training for end-of-				
17	life care have not been developed with this workforce in mind, and many				
18	are not able to access training due to costs, availability, or lack of support				
10					
19	by their employers. Our study has endeavoured to address that omission				

1 Challenges and Lessons Learned

2	we faced challenges and learned lessons about co-production with an
3	unfamiliar and marginalised group. As the workshops were offered
4	nationally, we could not offer in-person options in every round. This may
5	have been a barrier for some who feel less confident or lack the necessary
6	technology or digital confidence to contribute online. However, online
7	sessions, and acknowledging that homecare can be a 24/7 job, often
8	alongside other caring and family commitments, enabled opportunities for
9	participation at various times of the day and week with sessions agreed
10	collaboratively with partners. Also, we were able to offer this opportunity
11	to people nationally, allowing us to include experiences from different
12	regions, which may commission homecare services at end-of-life
13	differently.
14	The sustained commitment of our partners is a key strength, as most
15	opted to return for subsequent workshops, which was not a requirement
16	or anticipated by the team. Having stages of workshops enabled those
17	who returned to see the generation and growth of the training resources,
18	provided confirmation that their contribution materially affected the
19	development of resources, and enabled a greater appreciation of the
20	value and purpose of co-production.
21	Due to the study timeframe, the resources could not be made available
22	for a fuller appraisal before the end of the workshops, however all
23	attendees will be able to access these once completed. This was a
24	limitation of the study design itself, where the timing of the workshops

- 1 should have coincided better with the physical production of the resources
- 2 to allow more testing of content, design, and accessibility.
- 3 Reluctance to contribute, and non-attendance need to be considered
- 4 when designing co-production activities with a workforce who are time-
- 5 poor, engaged in an unpredictable work environment, and who have little
- 6 experience of such involvement which might cause anxiety prior to
- 7 attending, or distrust in the genuineness of the process (fear of tokenism).
- 8 We needed to recruit homecare workers and managers throughout the
- 9 period to ensure we had enough for each round. Possible strategies to
- 10 mitigate these difficulties in the future may be to provide more guidance
- and support on what to expect within a co-production workshop setting,
- 12 and background on co-production as a method for applying new
- 13 knowledge. This would help partners to be more confident in their
- 14 expectations of what was required in the workshops, and the benefits of
- 15 their engagement. Also, the format of a group discussion online is not
- 16 necessarily the preferred format for some people, and 1-1 sessions with
- 17 facilitators could be considered, depending on numbers and practical
- 18 issues around workload.
- 19 We were not able to robustly evaluate the process with our partners which
- 20 limited our understandings of their perspectives on the workshop format,
- 21 process, and outcomes. We did not conduct interviews exploring their
- 22 experience of the process, and although we did conduct a short survey, so
- 23 few people responded (11/40), this gave little useful information. Low
- 24 completion of the evaluation survey may reflect their marginalised status,

- 1 as people from minority groups, low-literacy, and/or language and access
- 2 barriers have been associated with poor responses in surveys [36]. There
- 3 may be other reasons for non-response, including unfamiliarity of
- 4 workshops and evaluation processes; concern that negative feedback
- 5 would not be acted upon or valued; lack of priority given by a time-poor
- 6 workforce; and difficulties in quantifying views with a Likert scale or
- 7 expressing them in written form in the free text [37, 38]. Lower education
- 8 levels and low incomes and non-response have been previously linked
- 9 [39] (40]. The low response from the survey underlines the need for a
- 10 more direct engagement with people less used to being asked for
- feedback, such as interviews, or individual contact to assist survey 11 EINPRE
- 12 completion.

Conclusion 13

- 14 We provide an example of co-production of training resources with an
- 15 under-represented social care workforce, evidencing adopted strategies
- 16 that enabled effective engagement over a sustained period. We explain
- 17 how we engaged with these partners adopting the five key principles of
- 18 co-production, enabling collaboration in the creation of training resources
- 19 to support homecare workers delivering care at end-of-life. We share the
- 20 learning points and challenges which may help others planning similar co-
- 21 production activities with under-represented groups. Finally, we
- 22 acknowledge the need to develop current national strategies for
- 23 increasing social care service improvement and research engagement
- 24 with consideration of the uniqueness of the homecare workforce [15].

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1	⊢thical	Consid	lerations

- 2 An ethics waiver was provided by Hull York Medical School Ethics
- 3 Committee (ref.: 22-23 38) for co-production involving user testing with
- 4 researchers and partners rather than research participants. We explained
- 5 confidentiality of involvement through our documentation 'Ways of
- 6 Working' and 'Ground Rules' for stakeholders. This included: not
- 7 disclosing what was discussed, individual contributions would not be
- 8 identified, and all recordings would be deleted once workshop outcomes
- 9 were incorporated into the resources.

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- 14 people with lived experience whose contributions have helped shape and
- direct all phases of our study including the workshops. Acknowledgement
- 16 also to Kathryn Harvey, University of Hull, for her administrative support
- 17 throughout the study and workshops.

18 Author contributions

- 19 ZB drafted the manuscript. All authors read, commented, and approved
- 20 the final manuscript. MJ and EW were overall project leads with
- 21 responsibility for the execution of the study and PT led on the generation
- of resources and recommendations arising from the workshops. ZB, HE,
- 23 CF, JK and CW undertook data collection and analysis of the main study.

	1	Availability	of /	data	and	materials
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- 2 The workshop phase of the study did not require ethics approval, and
- 3 there are no data available from the workshop sessions. The training
- 4 resources will be freely available online, when completed. The data from
- 5 the larger study are available on request by authorised researchers
- 6 following completion of a data sharing agreement. To request access,
- 7 contact the study authors, or worktribe@hull.ac.uk citing Worktribe Output
- 8 ID 5179695.
- 9 Declaration of competing interests
- 10 The authors declare they have no competing interests with respect to the
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7

Pre workshops:

Recruitment of Stakeholders

Agreement with participants of day/time of workshops

Creation of materials for workshop 1

Creation of facilitator guide, ground rules and ways of working

Workshops round 1:

Facilitation of x3 workshops

Discussion on current training and delivery methods

Agreement on methods of delivery

Initial thoughts on experiences of training from data

Creation of resources for workshop round 2

Workshops round 2:

Facilitation of x3 workshops

Discussion on findings from policy review – importance of inclusion of homecare in policy

Initial discussions on findings from data – topics for inclusion in training recommendations

Creation of resources for workshop round 3

Workshops round 3:

Facilitation of x3 workshops

Continuing discussions on findings from data – topics for including in training recommendations and resources

Agreement on topics suited for different formats of training resources

Creation of resources for workshop round 4

Workshops round 4:

Facilitation of x3 workshops

Evaluation of ongoing development of different formats of training resources

Evaluation of training recommendations

Post workshops:

Collate evaluation feedback from stakeholders

Create celebration event for all participants to meet research team, see training resource prototypes, learn about other study activities and outputs

Agreed Topic Areas	First stans into and of life sare
Agreed Topic Areas	First steps into end-of-life care
for Training	'Just a care worker' – understanding what you
	bring
	Practicalities of delivering care at end-of-life
	Looking after yourself
	Homecare worker as a professional
	End-of-life care and the unexpected
	The final months of life - what might it look like?
	Different conditions – what you might see
	Not just the physical – psycho-social and spiritual
	care
	Communication skills
	Working with those important to the people you
	care for
	Working with other professionals
	Effective management – beyond the team
	Interacting as a team
	Advanced communication skills
	Expanding the role of the homecare worker
Delivery	Slide decks for face-face teaching
Considerations -	Narrated slide decks for remote learning
Agreed Formats	What if? Cards for adhoc 'bitesize' learning and
	supporting supervisions, debriefs, group and
	individual learning

Workshop	Agreed to	Actual	Attendance	Previously
Round	Attend	Attendance	for each	Attended
			workshop	
1	30	19	10, 6, 3	-
2	32	21	3, 7, 11	5
3	42	20	6, 7, 7	16
4	39	17	5, 7, 5	16

Co-production Techniques Used
Principles

Sharing of power - Researcher role designated as facilitator

The research is Partners involved in the design and content of

jointly owned, and workshop series

people work Sharing of decision-making relating to resource

together to production

achieve a joint

understanding

Including all Facilitators supported with guidance on how to

perspectives and manage group sessions

skills - Make sure Accessible workshop design through format and

the research team materials used

includes all those Facilitators' knowledge and skills in active

who can contribute listening and probing to encourage contributions

Implementing 'Ways of Working' plan to facilitate

inclusion

Use of technology (i.e. Microsoft Teams) to

enable partners to contribute

Respecting and	Facilitators encouraged group discussions
valuing the	Workshop materials provided in understandable
knowledge of all	language and style in advance
those working	Direct acknowledgement of expertise and
together on the	experiences of partners
research -	Recording of session and note-taking to enable
Everyone is of	use of knowledge shared
equal importance	Partners received payment for their contribution
Reciprocity -	Workshops achieved consensus among partners
Everybody	re: training materials design and content
benefits from	Partners co-produced a list of recommendations
working together	for training
	Partners collaboratively decided on importance
	of training areas
	Partners gained knowledge on purpose of
DK	research, research methods, and co-production
,	techniques

Building and Accommodation of partners' needs in relation to

maintaining scheduling of workshops, materials provided,

relationships structure of sessions

Creation of inclusive and respectful workshop

environment

Regular communication throughout workshop

series on impact of involvement and processes

of co-production

Invitation to end of research celebration event



Workshop 1

Partner Recommendation	Impact
Training managers is crucial	Separate recommendations for end-of-life
to better support homecare	care training have been created for
workers, and to potentially	managers
provide in-house end-of-life	
care training	
End-of-life care training	Adaptation of training recommendations
should be at distinct levels	into three levels of 'first weeks', 'first
as new homecare workers	months' and 'advanced' for homecare
may be overwhelmed by too	staff, including training aimed at
much content on end-of-life	managerial level to support workers when
care	learning about end-of-life care
Any materials should be	We will ensure all end-of-life care training
easily accessible	materials are freely accessible online and
ar'	agencies can print off resources to give to
Y	staff who cannot access online
Training sessions should be	Presentation length was reduced, with
different lengths of time to	space for lengthening or merging materials
allow for remote learning	to create longer sessions by agencies if
and in-person training	required to meet specific end-of-life care
	training needs locally.

Partner Recommendations	Impact
Workshop 2	
of-life care training	resources
key component of any end-	included within the end-of-life care training
Ensure communication is a	Training in communication has been
	recommendations
training content	it has been included as part of our policy
Consider accreditation of any	This is beyond the scope of this project, but
assessment	
-delivery, content, approach,	their own location and staff
personalised to suit learners	suit their individual learners and context of
Training should be	Material can be modified by managers to
completion	
refresher training even after	
permanently available, for	online
Material should be	Material will be freely available at any time
based learning	included in the training
scenarios, and problem-	care, and fictional situations have been
include case studies,	expert writers knowledgeable of end-of-life
Any materials need to	Case studies from our data, input from

Identified reasons for homecare	Some of the points raised have been
workers to be included in policy	integrated into our policy recommendations
on community-based end-of-life	
care	
Identification and agreement on	Used in first draft of training
critical areas of training needs	recommendations and considered when
for homecare workers, based on	creating list of training resource topics
findings from research data	
themes	

Workshop 3

Partner Recommendations	Impact
Further dentification of	Used to generate list of end-of-life care
important training areas	training resources to be created, and
through discussion and	development of the training
activities drawing on themes	recommendations document
from interview data analysis	
findings	

Workshop 4

Partner Recommendations	Impact
Critiqued draft	Critique used to modify recommendations
recommendations with	for training curriculum
guidance on improvements	
Critiqued draft formats of	Resources modified according to workshop
training resources with	suggestions including colour, layout,
guidance on improvements	format. Recommendations to keep text

levels minimal, employing colourful and fun design, include interaction, space for discussion and reflection, and quotes where possible shared with resource writers.

Allowance for mangers to modify where appropriate. Recommendations influenced final designs including hearing the authentic voice of experts including homecare workers and managers.

