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- 1 Leading co-production in five UK collaborative research partnerships (2008-2018):
- 2 responses to four tensions from senior leaders using auto-ethnography
- 3
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- 10

11 Abstract

12 Background

- 13 Despite growing enthusiasm for co-production in healthcare services and research, research on co-
- 14 production practices is lacking. Multiple frameworks, guidelines and principles are available but little
- 15 empirical research is conducted on 'how to do' co-production of research to improve healthcare
- 16 services. This paper brings together insights from UK-based collaborative research partnerships on
- 17 leading co-production. Its aim is to inform practical guidance for new partnerships planning to
- 18 facilitate the co-production of applied health research in the future.

19 Methods

- 20 Using an auto-ethnographic approach, experiential evidence was elicited through collective sense
- 21 making from recorded conversations between the research team and senior leaders of five UK-based
- 22 collaborative research partnerships. This approach applies a cultural analysis and interpretation of
- 23 the leaders' behaviours, thoughts, and experiences of co-production taking place in 2008-2018 and
- 24 involving academics, health practitioners, policy makers, and representatives of third sector
- 25 organisations.

26 Results

- 27 The findings highlight a variety of practices across CLAHRCs, whereby the intersection between the
- 28 senior leaders' vision and local organisational context in which co-production occurs largely
- 29 determines the nature of co-production process and outcomes. We identified four tensions in doing
- 30 co-production: 1) idealistic, tokenistic vs realistic narratives, 2) power differences and (lack of)
- 31 reciprocity, 3) excluding vs including language and communication, 4) individual motivation vs
- 32 structural issues.

33 Conclusions

- 34 The tensions were productive in helping collaborative research partnerships to tailor co-production
- 35 practices to their local needs and opportunities. Resulting variation in co-production practices across
- 36 partnerships can therefore be seen as highly advantageous creative adaptation, which makes us
- 37 question the utility of seeking a unified 'gold standard' of co-production. Strategic leadership is an
- 38 important starting point for finding context-tailored solutions; however, development of more
- 39 distributed forms of leadership over time is needed to facilitate co-production practices between
- 40 partners. Facilitating structures for co-production can enable power sharing and boost capacity and
- 41 capability building, resulting in more inclusive language and communication and, ultimately, more
- 42 credible practices of co-production in research. We provide recommendations for creating more
- 43 realistic narratives around co-production and facilitating power sharing between partners.

44	Key words: co-production, NIHR CLAHRCs, applied health research, auto-ethnography
45	Contributions to the literature' section:
46 47 48 49 50 51 52 53 54 55	 Despite an abundance of frameworks and models, there is noticeable gap in the current literature on 'how-to' do co-production in large partnership structures Our paper identifies four tensions in doing co-production of research which senior leaders need to solve to create a realistic narrative for their partnerships The four tensions help collaborative research partnerships to tailor co-production practices to their local needs and existing opportunities Variation in co-production practices should not be reduced to one gold standard but celebrated More distributed forms of leadership are needed to facilitate power sharing between partners
56	
57	

58 Background

- 59 Interest in and use of co-production in healthcare services and research is growing. Funders of
- 60 applied health research have embraced co-production as a means of improving patient, public and
- 61 professional involvement. (1-3). Academics have been equally enthusiastic in developing a range of
- 62 conceptual frameworks, guidelines and principles for co-production, underpinned by a rich and
- 63 growing literature on the topic, with insight from the social sciences and humanities (4), political
- 64 science (5), public management (6) and academic entrepreneurship (7) literature. Recent systematic
- reviews of co-production have summarised the different co-production approaches in use and
- 66 collated the outcomes and effects of co-production (8).
- 67 These reviews show a plethora of terms in use; for example, within healthcare we see services,
- 68 programmes and interventions being 'co-created', 'co-designed', 'co-evaluated' or 'co-
- 69 implemented', and often authors used these terms in combination to describe their work ((8)). This
- 70 can involve stakeholder and public engagement through participation or involvement in any or all
- steps of the applied research cycle ((9),(10)). All are regarded as processes of co-production but the
- 72 way they are enacted and operationalised varies depending on the purpose, what is being co-
- produced, and by whom ((11), (12)). Some of the ambiguity in co-production also comes from its
- 74 unclear relationship with Patient and Public Involvement/and Engagement (PPI/E) (13). Other
- structural approaches, such as Experience-Based Co-Design (EBCD) appear to be more often applied
- to service development, while community engaged research dissemination ((14)) seems to have a
- 77 more limited focus on dissemination of research findings. In this paper, we are selecting
- 78 'coproduction' as the umbrella term, acknowledging that this concept is hard to define given the
- plethora of definitions and approaches in circulation, and by having both instrumental and moralvalue (15).
- 81 Despite the proliferation of conceptual thought, empirical studies on co-production are less frequent
- 82 (16). Many of co-production models and frameworks are not supported by robust evidence (17) and
- 83 do not describe in practical terms what co-production of research on the ground looks like (18). It is
- 84 therefore timely to reflect on what has been learnt about the practice of co-production in applied
- 85 health research and to help shape the direction of future research.
- 86 In the UK context, some argue that the architecture of the new NIHR Applied Research Collaboration 87 funding model enables authentic and visible co-production (19). Others are more cautious, arguing 88 that co-production can only be as successful as the system allows, and that traditional research 89 structures often fail to facilitate effective public involvement, leading to co-opting of the term co-90 production without making a tangible difference to professional practices and health outcomes for 91 service users (15, 20). There are anecdotal accounts of successful collaborative working from the 92 previous NIHR funding model, Collaborations for Leadership in Applied Health Research (CLAHRCs), who were evidence-based following the Knowledge to Action model (21)) to ensure that all resulting 93 94 interventions or findings were underpinned by robust research evidence. These accounts suggest 95 that co-production projects added value and led to the implementation of novel services and 96 interventions (22, 23). This model also introduced a focus on leadership and governance for co-97 production that we will explore in more detail in our paper. So-called 'success' stories like these are 98 not always published or reported on or described in a way that explicates how best to support 99 researchers to co-produce applied health research or complex health interventions (24).
- 100 Therefore, this paper brings together insights from those in leadership positions in collaborative
- 101 research partnerships in the UK on practising co-production with the aim to inform practical
- 102 guidance for new partnerships facilitating the co-production of applied health research in the future.
- 103 The focus of this paper is on the co-production of healthcare services, which aims to collaboratively

- 104 produce and apply knowledge involving academic researchers as well as health practitioners and
- 105 policy makers in Local Government (LG) to inform service development and decision making, with
- 106 the active inclusion of all partners in the research design and process (25). This approach is indebted
- to the work of Elinor Ostrom (26), who used the term co-production to describe a process through
- 108 which 'inputs from individuals who are not "in" the same organisation are transformed into goods
- and services'. This approach blurs the boundaries between 'knowledge production' and 'knowledge
- application: the former often focuses on researchers' roles, while the latter is of most value to
 health practitioners and policy makers (knowledge translation and problem-solving). Co-production
- 112 through collaborative research partnerships helps to bring the two approaches together.
- 113

114 Methods

- 115 Using an auto-ethnographic approach (27), experiential evidence was elicited through collective
- sense making from conversations between the research team and senior leaders of five collaborative
- 117 research partnerships, including four former CLAHRCs (Yorkshire & Humber, Greater Manchester,
- 118 East Midlands and South London) and one former UK Clinical Research Centres (UKCRC) research
- 119 centre of excellence (Fuse, the Centre for Translational Research in Public Health). These
- 120 collaborative partnerships were selected from a convenience sample through our shared
- 121 participation in a special interest group on co-production.

122 Five collaborative research partnerships

- 123 NIHR CLAHRCs were created in 2008. The NIHR initially funded nine CLAHRCs across England with a
- specific aim: to develop and conduct applied health and care research across the NHS, and to
- 125 translate research findings into improved outcomes for patients (24). Each individual CLAHRC did
- 126 this by creating linkages and partnerships between the applied health and care researchers who
- 127 conduct the research, and those who use the research in practice, developing different practices of
- 128 co-production. In 2013, following the success of the pilot CLAHRCs, NIHR funded a second round of
- 129 13 CLAHRCs for a five-year period starting in January 2014. CLAHRCs were each structured into
- 130 thematic programmes (themes) bringing together researchers, practitioners and patients with
- 131 shared interests through regular meetings and events.
- 132 Fuse was established in 2008 as one of five public health research centres of excellence in the UK
- 133 funded by the UKCRC collaboration. Fuse works across five universities in the North East of England
- 134 with a prime focus on the production of excellent research, and its translation into usable evidence
- to inform practice. The Centre applies a 5-step model to knowledge exchange that encourages co-
- 136 production of research between partners, including a rapid responsive research and evaluation
- 137 service (28).
- 138

139 Data collection

- 140 Data on the five collaborative research partnerships is drawn from recorded online interviews
- 141 between the research team and senior leaders of these partnerships between April and July 2021.
- 142 Theme leads within each former CLAHRC and Fuse with responsibility for co-production of research
- 143 activities within their region, were identified through personal networks of the research team and
- invited by email for an online interview. Five theme leads agreed to a recorded semi-structured
- 145 interview, followed by informal email conversations, and gave consent for the interviews to be
- 146 recorded. In the interviews, we aimed to document the learning from a selection of CLAHRCs and
- similar partnerships, and to draw up narrative accounts around their experiences, as we wanted to

- 148 understand the overall leadership narrative around co-production. Interviews followed a story line
- topic list (Appendix 1). Participants were not provided with a definition of co-production upfront but
- 150 were asked in the interviews to reflect on approaches to co-production adopted within their
- 151 partnerships. Inductive data analysis was used to determine how different partnerships thought of
- 152 co-production and to compare different descriptions and practices.
- 153

154 Data analysis

- 155 Recorded online conversations were transcribed and analysed using an auto-ethnographic approach
- 156 (27). Auto-ethnography is a research method that uses a researcher's personal experience to
- describe and critique cultural beliefs, practices, and experiences. It acknowledges and values a
- researcher's relationships with others and shows 'people in the process of figuring out what to do,
- 159 how to live, and the meaning of their struggles'" (29). Auto-ethnography is a self-reflective form of
- writing that has been used across various disciplines such as communication studies, sociology,
- 161 psychology, organizational behaviour, nursing, and paramedicine. In this study, we used 5his
- approach to apply a cultural analysis and interpretation of the leads' behaviours, thoughts, and
- experiences of co-production between 2008 and 2018 in relation to the academics, health
- 164 practitioners, policy makers, and local communities/ third sector organisations involved in co-
- 165 produced research projects within the collective research partnerships.
- 166 This method was chosen in recognition of the sensitive nature of the dialogues that take place
- 167 between programme leads and the research team and the importance of these dialogues for
- 168 collective sense making of co-production practices. The auto-ethnographic approach allowed for a
- 169 safe deconstruction of these conversations that was sensitive to the research team's own input to
- 170 these conversations.
- 171 The transcribed data were analysed in three steps: starting with individual recall and reflection by
- each author, followed by joint analysis with the research team of the transcribed conversations, and
- 173 finally, collective sense making with the interviewed CLAHRC programme leads in an online
- 174 workshop. Walking the talk, most of our participants became co-researchers and co-authors of this
- 175 paper.
- 176 Firstly, members of the research team read through all the transcripts from the recorded
- 177 conversations and noted down their thoughts and reflections on co-production practices within each
- 178 CLAHRC and Fuse, and barriers and facilitators in using these practices. Research team members did
- 179 this first separately and, secondly, compared notes and reflected collectively in a joint interpretation
- 180 meeting on 18th February 2021. This resulted in the identification of six tensions that were apparent
- 181 when applied health research was co-produced within the CLAHRCs (see Results section). Thirdly,
- 182 the collective reflections and analysis from the research team were shared with the interviewed
- 183 CLAHRC theme leads in an online workshop on 12th October2021 to facilitate collective sensemaking.
- 184 In preparation for the workshop, senior leaders were tasked with completing a resource pack
- 185 (Appendix 2) that summarised the six tensions identified by the research team in their joint analysis
- 186 meeting. They were asked to comment and make suggestions for each tension and subsequently
- 187 rearrange the tension cards according to how important and/or relevant they are to the present
- 188 Applied Research Collaborations (ARCs) using an inner (most important and/ or relevant) and outer
- 189 circle (least important and/ or relevant).
- 190 This three-step approach to the analysis of the conversation data facilitated the recalling and
- 191 organisation of the research team's memories of the conversations and supported self-introspection

- 192 to analyse these memories. To select memories, senior leaders were asked during the workshop to
- 193 reflect and add to each tension through a group discussion, in which we were also checking for
- shared meaning of the tensions. At the beginning of the workshop, senior leaders were asked to
- nominate their most important/ relevant tensions in a poll, which formed the basis for the
- discussion. Based on this discussion, an additional tension was identified (motivation vs lack of skills)
- and added to the previously identified tensions, while three other tensions (4. research vs non-
- research activities; 5. traditional academic ways of working and publishing vs new way of generating and disseminating evidence; 6. strategic leadership vs capacity on the ground) were merged into one
- 200 new tension to represent the overarching tension of individual motivations versus structural issues,
- 201 bringing the final number of tensions to four.
- 202

203 Results

- 204 The findings highlight a variety of practices across and between CLAHRCs, with the context in which
- 205 co-production occurs, and the values, expectations, and motivations that collaborative partners
- applied within their different contexts, determining the nature of the co-production processes and
- 207 outcomes. The CLAHRCs were based on a model of co-production, that was evidence based (21).
- 208 However, each CLAHRC was developed in a different context responding to unique local needs,
- 209 resulting in diverse co-production practices. We highlight these different practices through the lens
- of four tensions that represent the main challenges that the five collaborative research partnerships
- had to solve differently to develop their co-production practices. We present these tensions as a
- spectrum along which senior leaders can move when thinking through their approach to co-
- production. We identified the following four tensions in doing co-production and below we willdiscuss each tension in more detail:
- 215 1) Idealistic, tokenistic vs realistic narratives
- 216 2) Power differences and (lack of) reciprocity
- 217 3) Excluding vs including language and communication
- 218 4) Individual motivation vs structural issues
- 219

220 **1** Idealistic, tokenistic vs realistic narratives

221 Senior leaders reflected on how some co-produced applied research can be tokenistic with passive

222 collaboration (only pulling in knowledge when you need it) and less emphasis on empowerment,

223 equality and inclusion; yet at the same time argued that 'gold standard' co-production may not be

- achievable (and may put people off trying).
- 225 From their experience, senior leaders highlighted that there is no one size fits all when it comes to
- 226 co-production. Different projects require different methods and therefore the definition of co-
- 227 production needs to be fluid to allow for this.
- 228 "One of the things we've got to is that co-production isn't one thing and shouldn't
 229 be one thing. It's a bit like the elephant. It looks different, depending on which
 230 direction you approach it from."
- 231 Setting a "gold-standard" method/definition for co-production was felt to discourage researchers
- from trying to work in co-production and, therefore, a balance is needed between aspirations for co-
- 233 production of research and what is realistically achievable, given different contexts and limited

- resources. Getting this balance wrong e.g., not making choices about what is feasible and beingunclear about the realities of what is achievable, risks tokenism.
- 236 Tokenism came up several times in the conversations and was linked by senior leaders to both a lack
- of consistent terminology in the use of co-production and a lack of funding for co-produced
- 238 research, which we discuss as two sub-themes with this tension below.
- 239

240 Lack of clarity on the meaning of co-production

- 241 Senior leaders reflected on a lack of general consensus about what is and what is not considered to
- 242 be effective co-production and how this can lead to confusion and ambiguity. In practices across the
- 243 CLAHRCs, the terminology around co-production varied considerably. Terms used included: co-
- 244 design, translational research, co-production, co-creation, knowledge mobilisation, and Patient and
- Public Involvement (PPI). Although, the senior leaders felt there was some overlap in the meanings
- implied by these terms, many considered them different forms of involvement and their loosedefinitions lead to confusion. (For a more detailed discussion of these different terms, see our
- 247 definitions lead to confusion. (For a more detailed discussion248 scoping paper; ref).
- 249 In addition, senior leaders suggested that many health professionals are doing co-production
- research under a different name or by using differently terminology. This makes it difficult to
- 251 recognise how many projects are actually working in this way.
- 252 "I went back to thinking like a nurse and thinking about the knowledge-practice
 253 gap. And that's what translation is and then I was looking at integrated knowledge
 254 translation and co-production, I thought, well, this is what we've been doing, but
 255 we were calling it shared decision-making and you're calling it translated
 256 knowledge into action."
- According to collaborative research partnership leaders, this lack of defined terminology can open
 the door for tokenistic involvement: *"Tokenism takes advantage of the elasticity of definition or specificity of co-production."*
- PPI was particularly highlighted by the senior leaders in terms of its similarity or difference to coproduction. They felt that PPI was already well defined (30), but it is not necessarily clear how it differs from co-production, with some people seeing these terms as two ways of describing the same thing: involving external stakeholders in research, either as patients, public members or practitioners and policy makers.
- 265 Other senior leaders argued that PPI equated to more passive involvement, with co-production 266 encouraging more active involvement of outside groups through power sharing. Moreover, co-267 production does not always involve patients or the public: stakeholders from outside academia can 268 come from a variety of fields and (professional) backgrounds.
- Senior leaders also distinguished co-production from dissemination of research. Co-production
 began early and was seen as more than the re-packaging of research findings at the end of the line
 to be gifted to external stakeholders.
- 272 *"I think increasingly I'm realizing that levels of understanding about what we mean*273 *by co-production are so massively varied... there are people in senior positions in*
- 274 the academic hierarchy who still understand co-production as being about the
- 275 dissemination of research findings. Once you've done it, basically you've bundled it
- 276 up in a neat package and you've written some briefing or some such. And that view

- persists. And that's a really hard one to shift, [..] unless NIHR starts taking it more
 seriously and understanding that it happens right the way through the research
 process from start to finish and beyond, I think it's really, difficult."
- 280

281 Lack of funding for co-produced research

282 Tokenism in practicing co-production was further fuelled in the eyes of senior leaders by a lack of 283 funding for meaningful co-produced research. They commented on the increasing requirement of 284 funders to work in co-production with insufficient resources being made available by funders to 285 commit the time and effort needed to drive good co-production practices. There was a feeling 286 among the senior leaders that a technocratic view of co-production (breaking it down into distinct 287 and manageable parts with separate resources) leads to tokenism, which de-values co-production as 288 a concept. They argued that stakeholders involved in a tokenistic way would be less likely to engage 289 with co-production of research in the future, as they felt unheard or under-valued when sharing 290 their experiences.

291 ".. tokenism talks directly to the fact that if you don't have money to do it
292 properly, you don't do it".

Other senior leaders commented that some funders don't fully understand the activities andengagement that co-production actually requires, and at what stage.

- 295 "But then also I don't think that the way that NIHR function and the kind of things
 296 they ask for in bids for funding really...they don't really understand the nature of
 297 the engagement that is necessary."
- 298 "People do it as cheaply as possible and as quickly as possible and that will you
 299 get what you pay for. So, I think there really needs to be a recognition, if they
 300 want really good co-production and patient public involvement...That has to be
 301 funded."
- The way research is delivered in terms of funding applications and ethical approval for projects means it's hard to engage stakeholders in the earlier design phases of research. This then makes it harder for stakeholders or members of the public to influence the direction of the research when a plan is already approved and in place.
- According to senior leaders, an important condition for co-producing research is creating meaningful
 relationships with stakeholders to allow trusting and equal partnerships. Creating these contacts
 and relationships however is not considered in project funding or planning.
- 309 "You can't build relationships with people if nobody's paying your salary at the
 310 point where you need to be doing it, for example."

Although many funding bodies and research teams say they support co-production, as soon as

- funding becomes tight, it was felt that protected time for co-production is one of the first things to suffer.
- 314 The senior leaders explained how the CLAHRCs were able to make a difference to the funding
- 315 available for co-production of research by including co-production as a core principle in their
- business model with dedicated funding.

- 317 "In the Autumn of 2008 we held a co-design workshop with all our South Yorkshire
 318 stakeholders and academics, the purpose of which was to establish core principles and ways
- 319 of working. At this point, we developed and approved our core principles, one of which was
- 320 co-production. We developed mechanisms to achieve and enable co-production and then
- 321 *implemented this core principle across the lifetime of the South Yorkshire CLAHRC.*"
- An example of funding mechanism in the South Yorkshire CLAHRC was the Getting Research IntoPractice (GRiP; see case study in Supplementary Files) programme:
- "The GRIP programme was a series of co-design projects the purpose of which was to get
 research into practise. This has gained national recognition in the field of co design and co production."
- 327 Although the CLAHRCs, were able to tackle the funding issue around co-production to reduce
- 328 tokenism, the issue of lack of clarity about the meaning of co-production remained. Therefore,
- 329 senior leaders called for more transparency about what researchers mean by co-production and the
- extent to which stakeholders outside academia were included throughout the research process.
- 331

332 2) Power differences and (lack of) reciprocity

- 333 Academics often see themselves as 'experts' and need to recognise 'experts by experience' as
- equally powerful; everyone involved should gain from co-productive evidence generation. Senior
- leaders identified the need to challenge traditional academic research approaches and to be flexible
- and creative in co-production, which will be explored below as two sub-themes within this tension.
- 337 They mentioned repeatedly the tension of power sharing, subscribing to the ideal of equal power
- relations as a prerequisite for co-production. Power sharing is essential for building good
- relationships and recognises the value that practitioners, policy makers and members of the public
- 340 can bring in terms of knowledge, skills, and experience in co-producing research. However, achieving
- 341 power sharing proved difficult in practice.
- 342 The senior leaders described different examples of groups outside academia who participated in
- 343 their CLAHRCs. These included both individuals, small groups, and larger organisations. Examples
- 344 included healthcare professionals, policy makers, patients, funders, commissioners, local community
- 345 groups, technical experts, public committee members, services users, and private sector groups.
- 346 Many of the researchers talked about the ways in which these stakeholders had participated in
- 347 different research projects, such as facilitated workshops, knowledge exchange events, peer
- researchers (e.g. stakeholders as interviewers), and stakeholders working in an advisory group tohelp steer the direction of research.
- One example discussed involved the use of Lego serious play to deliver a shared model of co-production.
- 352 "What was particularly novel in the Yorkshire and Humber CLAHRC was the development of a
 353 concept known as creative practise, led by Dan Wolstenholme and Joe Langley. It was a
 354 programme of work that used co design to co-produce knowledge mobilisation tools".
- Another team recommended setting ground rules at the start of the session to ensure everyone was on the same page and felt comfortable to share their ideas and experiences.
- 357
- 358 Challenging traditional research approaches

359 Much of the conversations between the senior leaders and the research team focused on the

360 challenges of doing co-production in the landscape of clinical academic research. Co-production361 challenges traditional (e.g., positivist) research approaches and requires a change in how researchers

362 view their roles as academics.

"But that means giving up a bit of power and you know we're good at beaming in as the expert because that makes us feel good. We're not very good at beaming in, and it takes a brave person to say, I haven't got all the answers, tell me what you think might work. And it completely flies in the face of everything that people think that their role or they've been taught their role as an academic is all about."

For co-production to be successful and produce outputs which are valuable to the involved stakeholders, senior leaders argued that academics need to be willing to compromise on things such as research direction and project design. They acknowledged that this change in academics' usual way of working would be new ground for many researchers and can be both unfamiliar and uncomfortable, to the point that some academics would feel that their academic integrity was being compromised.

374 "What I wanted was open mindedness and flexibility, to come to a sort of mutually
375 agreed project spec and scope on the basis that it would be more likely to be
376 achieved. But of course, the mutual agreement often meant, as we've looked at it 377 the kind of compromise and those kinds of issues: academics felt their integrity was
378 being compromised."

One of the key requirements for working in an equal, power-balanced way with external
stakeholders highlighted by the senior leaders was the ability for academics to be flexible in the
research process and choice of methods. Over time, the priorities and direction of stakeholder (and
academic) organisations may change. This can be challenging to address when projects have already
been outlined and funded, but flexibility to adapt to the needs of stakeholders was deemed crucial.
This flexibility was not seen as available in the current research and funding system.

385 "There's this whole sort of set pathway where you plan ahead for the next five
386 years, what you will be doing that doesn't leave any space to have these early
387 conversations where you say, well, actually scrap that what we really should be
388 doing is this. What is it that you think we should be doing? You know, what do you
389 think is important?"

The senior leaders did not refer to a flip of power, whereby researchers would completely defer to their practice partners, but suggested instead more of an active negotiating process in which health professionals and policy makers have equal power to make decisions about the research. This requires an additional set of skills from those typically associated with academic researchers, including humility.

395

396 <u>Co-production as a creative endeavour</u>

397 Co-production was described as 'a creative endeavour' which doesn't sit very well within rigid pre-398 determined research structures and processes:

399"There is something quite rigid in the way that some forms of research, people are trained400and taught. I mean the idea that even after participant number two you know something is

- 401not going to work. But because you've got a sample of however many participants in your402trial, you have to pursue it right to the bitter end. That kind of inflexibility is...I might be403exaggerating, but that kind of inflexibility is something which is a whole paradigm of404research. And it's deeply engrained, it's cultural. And co-production is creative, emergent,405responsive, all of those opposite things".
- While more rapid research designs or rules for stopping in traditional clinical trials reduce some of
 rigidity in research, the perception of the senior leaders was that more flexibility is required in co producing research.
- 409 One researcher in the North East discussed an example where they were embedded in a community
- and asked to develop responses to tackle childhood obesity. Early conversations with community
- 411 members indicated that they were more concerned with poverty, inequality and the early roll out of
- 412 Universal Credit, leading to a follow up study being commissioned on the impact of Universal Credit:
- 413 "And, you know, the Universal Credit study is a brilliant example. And it started out
- 414 with you know, a project which was supposed to be about childhood obesity,
- 415 because that was an issue. But then the local community said, no, we're less
- 416 concerned about childhood obesity and more concerned about Universal Credit
- 417 actually, because that affects our very survival."

418 This example, points to another potentially important trait for co-production research: starting small 419 can develop trusting relations for larger projects, with organic development of research projects

- 420 being much more conducive to co-production processes involving wider groups of stakeholders.
- 421 "there was quite an impact from, and I, sometimes I forget about the you know, that, again,
 422 it started from a small scale, small-funded project, and then ended up with (researcher)
 423 talking to it, to the select committee and, you know, and, and that then resulted in some
 424 supermarkets restricting sales to energy drinks to under eighteens or under sixteens in some
 425 cases."
- 426 Working flexibly with stakeholders during the research process also requires from academics an 427 understanding and appreciation about what stakeholders expect or want from the co-production 428 process. Stakeholder involvement was viewed as a two-way street. Senior leaders emphasised that, 429 although we may have an ideal as academics of how we want from stakeholders' input, we need to 430 be able to adjust for how much or little they want to get involved. Whether that's down to the time 431 and resources they can feasibly spare or how much they are wanting to engage and participate, we 432 need to work flexibly and have early conversations about expectations around involvements and 433 outputs. For instance, for many stakeholders, getting papers published was not a reason to get 434 engaged with research: "Publications are not sufficient for many participants. The difference work
- 435 *makes has to be real to them."* These power difference also extended to tensions between academic
- 436 researchers within the CLAHRCs (see case study 2 in the Supplementary Files).
- 437

438 **3** Excluding vs including language and communication

439 The use of 'research' jargon and the communication style of researchers can exclude partners

440 involved in co-production such as service users, managers, or practitioners. Senior leaders

- 441 highlighted the importance of language and communication in co-production and the need for more
- training in co-production craft (the skills in the practices and activities of co-production) to, which
- 443 will be discussed below as two sub-themes within this tension.

444

445 Language and communication

The senior leaders emphasised that language and communication skills were very important in coproduced work, both to help build relationships and to make data and research ideas accessible to all involved stakeholders.

449 *"Different people learn, communicate and express themselves in different ways.*450 Using only forms that are common to researchers, excludes some."

451 They urged academics to try a variety of different engagement techniques and communication styles

452 to get the best out of co-production with different stakeholder groups. However, these types of skills
453 aren't necessarily held by all academics.

454 "You do have to use lots of different methods in order to get the most bang for 455 your buck out of your research. And actually taking some of that time up front to 456 use better methods to engage means you get better engagement."

Another skill suggested by the senior leaders for co-production of research was the ability to find
and engage with the right people within stakeholder organisations. How to identify key people and
how to connect with them in a meaningful way was perceived by them as an ongoing challenge,

460 particularly in larger organisations, such as local government or NHS Trusts.

461 *"The partners that we had most difficulty engaging tended to be the larger acute*462 *organisations because you can't engage with a whole organisation and it's finding*463 *out who the key people are... So, some of the problem was identifying the right*464 *people to talk to and you could be passed from pillar to post."*

Senior leaders suggested that academics do not always need to have the necessary design skills
themselves but can broker links with other colleagues within their institution or networks or in other
departments within their university, such as design students. These colleagues and students can add
creativity and bring a fresh prospective to the research.

469 "So, I think one of the big things that we pushed a lot was look to other parts of
470 your university, look to the design departments, for people who can come up with
471 ideas or visualize things that your team can't."

Working in co-production was perceived by the senior leaders as a unique craft requiring different skills that need constant attention through the research process. They defined this craft as skills in the practices and activities of co-production, that were developed through experience (to develop the art), combined with knowledge (based on the science) of coproduction. They advised building in regular moments for reflection and reporting in team meetings on how the research team is practicing and achieving co-production. The floor should be open for teams to consider how they are involving their stakeholders and whether anything else can be done to facilitate further meaningful

- 479 engagement/involvement.
- 480 "Co-production doesn't just happen. It's not just, it's not just bringing people
 481 together in a room. It was a very, very conscious attention to a whole range of
 482 factors that allows good co-production to happen."

483 To support this reflective process, one leader suggested that teams appoint co-production

484 champions at all levels of their organisation to promote collective reflection and building capacity485 and capability in co-production.

486 "Even if you don't have a dedicated theme, you need dedicated champions and
487 those champions need to be scattered throughout the organization, different
488 positions at different levels."

489 Another way suggested by senior leaders to build this capacity and capability in the research system 490 was by incorporating co-production training into undergraduate, Masters and PhD programmes. Co-491 production is currently not built into the curriculum of academia. Instead, they advocated for more 492 teaching early in academic careers about different ways of doing research and valuing different ways 493 of knowing. It was felt that good policy influencers, require changes to the academic models that 494 produce them. The biggest barriers to co-production were thought to be structural and often located 495 in academic institutions (see tension 4 below). As long as we don't train students in engaging with 496 policy and practice partners, fail to teach and reward them in how to use different types of evidence 497 and do not involve them in collaborative research, we will keep returning to the conclusion that very 498 little research evidence is getting used in practice and policy.

499

500 Motivation versus skills

The lack of training in co-production is central to the four tensions that senior leaders identified: the
tension between an individual's desire and motivation to work in co-production with external
stakeholders on research (which varied within CLAHRCs) and their capability and capacity to do this
and deliver it in projects.

505 "Looking back through our CLAHRC is that I think there were some tensions between
506 motivation to do it, but not having the skills or abilities to deliver. So, some of it was actually
507 more within individuals or projects."

508 They outlined co-production skills as a separate skill set that can't be taught in a two-day training 509 course but needed to be acquired through practice. For example, being flexible, persuasive, planned 510 happenstance, enthusiasm, serendipity, perseverance, patience, negotiation, pragmatism, learning-511 oriented, empathy, confidence (31). Practicing co-production was seen as understanding different 512 ways of knowing (cognitive flexibility). While it is important to give people a go at working in co-513 production, senior leaders felt it was important for them to consider the skills that are needed to 514 work in this way and who they could bring in as part of their research projects to facilitate those skills (e.g., mentorship). Researchers don't need to be experts themselves but could learn on the job 515 516 from these experts:

517 "You need to appoint someone to facilitate and lead co-production who is skilled and expert 518 at doing it. And, therefore, there needs to be a process where you enable people to enquire 519 and accumulate those skills perhaps under the supervision and mentoring of people and 520 participating alongside people who are more skilled at doing it. Because that way it shows 521 respect and value to the whole process of co-production itself".

Involving co-production expertise from the start in research projects, next to other roles such as
statisticians and qualitative researchers, was seen as an important mechanism to support and teach
other team members in developing their co-production skills, and to build co-production capacity

- 525 within research teams. The senior leaders suggested moving away from a perception of co-
- 526 production as a soft skill and defining it more as a craft that researchers need to hone and develop

- 527 over time. Using the right language and communication about co-production includes how these
- 528 skills are defined and labelled.
- 529

530 4. Individual motivations versus structural issues

531 Individual motivation for working in co-production

532 Despite a lack of clarity around the meanings of co-production, lack of co-production skills and a lack 533 of funding for meaningful co-production, senior leaders generally highlighted positive experiences of 534 working in co-production with stakeholders in the CLAHRCs, both from an instrumental and moral 535 imperative. Instrumentally, the senior leaders linked the impact agenda and negative perceptions of 536 the public about research as incentives for engaging in co-production of research. Applied health 537 care research can sometimes be seen as as the nanny state, finger wagging and patient-blaming, but 538 that image can be changed by academics working on issues that matter to the public and that hold 539 value for the stakeholders involved in co-production.

540 *"It can be very rewarding because in terms of the kind of impact agenda for some*541 *academics they can see real benefit in the work that they've done being used,*542 *enabling change in practice, etc."*

543 Senior leaders highlighted from their experiences how co-production improved the quality and

utility of their work. Involving the end-users in the design and development process, participants felt
that they were more likely to come up with a product that was fit for purpose and better suited the
needs of their target audience.

- 547 "Pragmatically if you work with the people who are going to use the stuff that you
 548 were trying to make, be that research services, products, whatever, they were more
 549 like to use them in the long term. Pragmatic logic that co-designing services and
 550 products means people more likely to use them. So, you got better stuff. You got
 551 better things out the other end."
- This requires a critical look at the distinction between research users and producers. Academics are
 not the only ones producing research and patients and the public are not always end users (32).
 Within research partnerships, stakeholder involvement allowed for better knowledge to be created
 and shared by making use of knowledge from lived experience.

Morally, the senior leaders felt that people should be included in research and projects that impact
them. They referred to similar imperatives in other disciplines, ranging from commercial groups
using consumer testing and feedback, to healthcare authorities emphasising a patient-centred,
shared decision-making approach to patient care to highlight stakeholder involvement as business-

- as-usual in health and social care sectors. Therefore, including stakeholders in research was seen as
- the right thing to do.
- 562"On one level, we absolutely believed that co-production, as in working together563with people and patients, was the right way to go about doing things."
- 564

565 <u>Structural barriers</u>

- 566 However, the ability and capability to work in co-production in the CLAHRCS was to an extent
- 567 dependant on wider structures and system incentives, which often hampered opportunities for
- academics to engage in meaningful co-production with external stakeholders. Co-producing

- 569 evidence means researchers enabling people's involvement, partnership engagement and
- 570 facilitation; academic institutions tend not to recognise or reward these non-research activities.
- 571 Senior leaders complained about academic institutions not facilitating or valuing co-production
- 572 practices. The outputs of co-produced projects are not necessarily traditional high-impact papers,
- and many senior academics see co-production as a lower rung in the research evidence hierarchy,which is not conducive for academic promotion.
- 575 *"I think also the structures in which academia works, doesn't value, the outputs of* 576 *co-production because they aren't papers."*
- 577 "What I find sad is that the people who genuinely had that much more partnership
 578 engaged approach are not the ones who are seen as great academics and I think
 579 that's a shame, but I think that's a problem with the academic system."
- Moreover, traditional academic, positivist ways of producing evidence value objectivity and
 separation of researchers and participants, whereas working in a co-productive way involves
 generating experiential knowledge, sharing of roles and more dynamic and equitable relationships
 across the research cycle (see case study CLAHRC South Yorkshire: utilising different skills sets).
- Some senior leaders within CLAHRC played a critical role in envisioning co-production within their research structures, although the capacity to enact and use co-production in projects varied. In the discussion of our first tension (on idealistic, tokenistic vs realistic narratives), we saw an example of how leadership in a CLAHRC ensured that co-production principles were encouraged as a way of working within the structure from the start. However, encouraging all members of the CLAHRC to apply these principles proved an ongoing challenge.
- "When I then put together the Yorkshire and Humber (YH) application we carried these core
 principles into the YH CLAHRC. However, this was a more difficult challenge, as the
 geography was huge and the concept wasn't as well understood amongst some academics.
 Over time, running workshops and marketing materials such as our brochures and 'Bite' we
 did achieve co-production but perhaps not in all themes".
- Some senior members of academic institutions who make decisions about funding, impact case
 studies and publication fees, do not value co-production as they have not been exposed to it in their
 career or don't appreciate its role as a form of valid research.
- 598 "In a way the system has rewarded people who've got to those very senior
 599 decision-making positions, and a lot of them have got to where they are without
 600 needing or wanting to work in a co-production way. And so, in a way, what's the
 601 incentive for people to change and do more of that because you know that they've
- 602 got where they are, and they've done very nicely out of it."
- It was recognised that although junior members of organisations usually have more time and energy
 to engage stakeholders and public contributors in research projects, they don't necessarily have the
 power and influence in the organisation to make co-production a priority.
- As Pearce (33) points out in several studies (15, 34, 35) much of the work of PPI and co-production is carried out by those on the 'lower' end of the academic hierarchy, such as junior researchers who are likely to have short-term contracts. The gendered and racialised aspects of co-production have also been highlighted (15, 36), with women and ethnic minorities tending to carry out the labour of research, whether as academic, peer researcher or patient and public member, but who in terms of secure employment and research funding may hold little power.

- 612 Conversely, the people at the top of the organisation with the influence, often don't have the time 613 and resources to commit to these co-produced projects.
- 614 *"I would be worried, if people tell you they've got lots of time to engage with you*615 *they're probably not the key people in the system because the key people in the*616 *system are very overwhelmed."*
- 617 However, senior leaders were keen to stress that co-production is a human resource process that

618 needs people. Junior researchers need to be encouraged to go into co-production processes, just as

they have permission to develop their partnerships for research applications. The role of senior

620 leaders was seen as enabling this. Complexity of organisations and research infrastructures, such as

621 CLAHRCs, can make this a challenge with leaderships spread across different levels and therefore

- 622 potential blockages in junior researchers receiving permission for co-production.
- 623 "There's the very strategic leadership of the CLAHRC and then there are leaders within the
 624 themes as well. And both can be enabling, or they both can be blocking. [..] Within our
 625 CLAHRC we have principles, and co-production was one of them, and we asked people to
 626 reflect on what that meant for them. But it could be that a theme lead didn't really
 627 understand or know the difference between co-production... there would be differences in
 628 those concepts. And they could block it, or they could enable it through the use of a
 629 resource".
- 630 Therefore, senior leaders suggested a need for coordination between multiple levels of leadership to631 enable co-production, particularly around resource allocation for co-production.
- 632 "Some discontent, shall we say, [within our CLAHRC] about resources being allocated to non633 research. Resources were still allocated to non-research but there was a lot of discussion and
 634 negotiation at senior level. And explanation as to why we have to do it".
- 635

636 Discussion

We identified four tensions in doing co-production that the five collaborative research partnerships had to solve differently to develop their co-production practices: 1) idealistic, tokenistic vs realistic narratives; 2) Power differences and (lack of) reciprocity; 3) Excluding vs including language and communication; and 4) Individual motivation vs structural issues. These tensions highlight different dilemmas that the collaborative research partnerships faced in developing their co-production practices, requiring each partnership to develop a response to these tensions, taking into account

- 643 local context, needs and existing opportunities and partnerships. Therefore, each partnership
- responded differently, resulting in different co-production practices. In other words, these tensions
- 645 were productive. Below we highlight two take-away messages that we identified from our joint
- 646 reflections with senior leaders of these collaborations.

647

648 Key take-away messages

649 <u>No gold standard: variety of co-production approaches for developing context-tailored solutions</u>

650 Our first point of reflection is that these variations should not be reduced to one gold standard for

- 651 co-production but should be celebrated and understood in the context in which they were
- developed. This will help other research infrastructures, such as the NIHR ARCs, HDRCs and social
- 653 care research networks, to reflect on how to practice co-production in their organisational structures

- and context. Reimagining challenges as tensions encourages academics and health professionals to
- articulate their positions on co-production more carefully, and also emphasises that one size doesnot fit all in co-production.
- Power differences underlie many of the other tensions; facilitating power sharing in co-production
 activities is, in our experience, crucial for finding solutions to the challenges that other tensions
- pose. This is also acknowledged in the literature by Williams et al. (37), who point to the dark
- shadows cast on co-production, caused by underlying structural issues of power (particularly in
- 661 academic institutions).
- 662 In our study, we have shown that power sharing requires new roles and approaches from academics
- to respond with flexibility to stakeholders' needs and changing engagement across contexts,
- ensuring inclusive language and communication. Senior leaders need to empower junior researchers
 to get involved in co-production by providing them with sufficient resources and co-production skills,
 giving them enough space to experiment (and permission to fail) by changing the structures in which
- 667 they operate.
- 668 Perhaps this is the real aim of co-production in research: not to co-produce new knowledge but to
- reconfigure the structures in which this knowledge is enacted. Miller and Wyborn (38) argued that
- the purpose of co-production is to create new forms of governance that produce the required
- 671 knowledge and at the same time the social dynamics to act on this knowledge. In line with their
- work, we propose to frame co-production as a creative space to experiment with and develop new
- 673 governance structures.
- 674

675 Addressing structural barriers: distributed leadership

676 In many of the tensions, the starting position will be determined by the vision and values of the 677 collaboration leaders. Bringing together a range of organisations and people in a new complex 678 collaboration requires the formative role of a (individual) leader to shape the architecture of the 679 collaboration, with the vision and beliefs of this leader influencing the approach to co-production. 680 However, as collaborations such as the CLAHRCs evolved over time, new models of leadership (e.g. 681 distributed leadership (39)) developed that facilitated more power sharing across the collaboration 682 (40) and strengthen structural conditions for co-production. These new models of leadership are 683 more focused on engaging stakeholders and taking account of local contextual factors, and they 684 require the individual leader to relinquish some of their control to other senior leaders in the 685 collaboration, creating more uncertainty and ambiguity that they need to feel comfortable to 686 manage (40).

687 Not every leader is keen to share power and we identified in our conversations with CLAHRC leaders' 688 differences in the extent to which senior leaders are willing to relinquish their control to others. For 689 example, the CLAHRC South Yorkshire/ Yorkshire and Humber developed a system of distributed 690 leadership. Resources were allocated to the themes and theme leads then had the power to use these how they wished. The balance and use of resources really reflected the belief in co-production 691 692 within the theme leadership. This was visible in budget spreadsheets on how resources were spent, 693 with research often being only one component of the budget with a greater mix of funding being 694 allocated to work in co-production and spending time on priority setting with external partners. 695 However, some theme leads just used funds to do traditional research, illustrating that distributed 696 leadership gives freedom to use resource agreed at the senior level, but that this played out 697 differently at theme level.

698 Practical implications

- 699 We recommend that the four tensions should be acknowledged and worked through by senior 700 leaders in collaborative research partnerships as constructive dilemmas to enable effective co-701 production. By thinking about their responses to each challenge, senior leaders will be better able to 702 define, resource and implement co-production practices in their work and structures. Rather than 703 seeing these tensions as barriers, we suggest re-imagining them as a creative process that will lead 704 to potential solutions. To support this creative process, we made suggestions for responding to each 705 challenge and present illustrative case studies in supplementary files that illustrate how different 706 CLAHRCs have addressed these tensions.
- Our study demonstrates that these tensions were productive in helping collaborative research
 partnerships to tailor co-production practices to their local needs and existing opportunities. As a
 result, practices varied across partnerships, which we argue should not be reduced to one gold
 standard for co-production but should be celebrated. The links between the tensions informed
 solutions in each context, with strategic leadership identified as an important starting point;
- however, this role needs to be developed into more distributed forms of leadership over time to
- 713 facilitate co-production practices between partners. Facilitating structures for co-production
- enabled power sharing through capacity and capability building, which resulted in more inclusive
- 715 language and communication, and a virtuous circle resulting in more realistic practices of co-
- 716 production in research.
- 717

718 Creating a realistic narrative around co-production

- 719 In this sense, the first tension is not really a challenge but an ambition: how to create a realistic
- 720 narrative around co-production within a research infrastructure or organisation that is not
- vunachievably idealistic and does not merely present a tokenistic effort? To support this ambition, the
- other tensions need to be resolved by making a choice about where to start with developing your
- 723 co-production practices. Navigating these tensions is a craft in itself which can only be developed
- through practise. However, asking yourself a few questions as a team of leaders before you embark
- on your co-production activities together will help you work out your collective responses to thethree other tensions.
- 727

728 729	Questions for responding to the four tensions of co-production in collaborative research partnerships:
730 731 732 733	 What is our vision for co-production? How do we define it and embed this in our organisation's strategies and structures? What language and communication will be helpful to share this vision within and outside the collaboration?
734 735 736 737	 How much power are we willing to share with other senior leaders in the collaboration? And how will we manage uncertainty and ambiguity resulting from power sharing? How much capacity do we have in my organisation to support co-production? And what can we do to increase capacity/ capability of existing staff?
738 739 740 741	 What resources will we need to for this and how do we distribute them across the collaboration? How can we reflect on progress in realising this ambition at regular intervals with external partners?

742 Facilitating power sharing, inclusive language and co-production skills

- 743 Facilitating power sharing in co-production activities is, in our experience, crucial for finding
- solutions to the challenges that other tensions pose. We suspect that a truly egalitarian sharing of
- power within these collaborations will be hard to achieve; however, more distributed and
- collaborative forms of leadership, facilitate co-production (22). Distributed leadership can be
- 747 facilitated by more inclusive processes and governance structures within collaborative research
- 748 partnerships, including, for example, rotation of chairing responsibilities within the team, attempts
- to open the agenda-setting process to all team members, and efforts to make dialogue a more
- 750 prominent feature of the team meetings.
- 751 Embedding co-production practices in collaborative research partnerships can be further supported
- by organising regular reflections with both internal and external stakeholders. For example, by
- organising action learning sets or developing communities of practice to reflect and report on how
- they are achieving co-production. These reflections encourage collaborative problem solving, whilecelebrating success and learning from failure, creating more inclusive language and communication.
- 756 Finally, practising co-production requires a very different skill set of academic researchers in terms
- of communication, relationship building, and power-sharing, which is not currently taught in
- academic curriculums, and take time to master. The insights from senior leaders of collaborative
- research partnerships shared in this paper, demonstrate that this skill set is more of a craft that
- 760 needs to be honed and nurtured over time.
- 761 We argue for the need to educate all researchers about strategies for making their research more
- relevant, applicable, and impactful. Co-production approaches could be an important element of
- this. At the same time, we acknowledge that deep engagement with co-production and successfully
- addressing its tensions would require considerable experience and expertise. This could be achieved
- by some researchers specialising in co-production methods but also by developing the cadre of
- 766 knowledge brokers and hybrid roles (embedded researchers, practitioner fellows) who straddle the
- communities of 'knowledge production' and 'knowledge application' (41).
- 768

769 Strengths and weaknesses

- 770 The auto-ethnographic approach taken in this study allowed for in-depth reflections with senior
- 771 leaders on the tensions they faced in developing co-production practices in their collaborative
- research partnerships and a process of collaborative sense making with research teams. This way of
- working is illustrative of the topic of this study: not only did we co-produce the study; we also co-
- produced this paper with the research participants. However, the findings are based on the
- reflections of the research team and a limited number of senior leaders from collaborative research
- partnerships, which may limit generalisability to other settings.
- 777 While we feel that these tensions adequately represent the most significant issues we experienced
- in co-production in the five partnerships, we are mindful that these partnerships are set within an
- 779 English context and therefore different tensions might apply in other countries with different
- 780 governance and health systems. However, the literature suggests the ubiquity of these challenges
- 781 (42) and, whilst there may be much to learn from other jurisdictions where the health systems and
- 782 governance arrangements may differ, some of the underlying tensions that determine co-production
- will be similar (43).

- 784 Our focus in this study is on the experiences and perceptions of senior leaders of the four tensions
- 785 and how they tried to solve these tensions. It is unknown to what degree these overarching
- 786 narratives were shared within individual collaborative research partnerships across different
- 787 members and partners. However, the findings of our study suggest the importance of formal
- 788 leaders' visions in shaping the partnerships' architecture and vision and, therefore, their perceptions
- 789 and experiences are important to focus on (40).

790 Conclusion

791 Despite a growing enthusiasm for co-production in healthcare services and research, there is

noticeable gap in the current literature on 'how-to do co-production' in large partnership structures.

- 793 In this auto-ethnographic study with senior leaders from five successful collaborative research
- 794 partnerships in the UK, we reflected on co-production practices between academics, health
- 795 professionals, policy makers and third sector organisations to inform practical guidance on co-
- production for new partnerships, such as the NIHR Applied Research Collaborations (ARCs).
- 797
- 798

799 References

Tembo D, Hickey G, Montenegro C, Chandler D, Nelson E, Porter K, et al. Effective
 engagement and involvement with community stakeholders in the co-production of global health
 research. bmj. 2021;372.

803 2. UNICEF. Minimum quality standards and indicators for community engagement. 2020.

WHO. Call for identification of good practices in engaging communities in research for
 implementation and in social innovation in health in low- and middle-income countries. 2021.
 Grønvad JE, Hvidtfeldt R, Bedersen DB, Analysing co-creation in theory and in practice: A

Grønvad JF, Hvidtfeldt R, Pedersen DB. Analysing co-creation in theory and in practice: A
 systemic review of the SSH impact literature. 2017.

S. Cairney P, Oliver K. Evidence-based policymaking is not like evidence-based medicine, so
how far should you go to bridge the divide between evidence and policy? Health research policy and
systems. 2017;15(1):1-11.

Buijn M, Rijnveld M, van Hulst M. Meeting in the middle: joining reflection and action in
complex public sector projects. Public Money & Management. 2010;30(4):227-33.

813 7. Perkmann M, Tartari V, McKelvey M, Autio E, Broström A, D'Este P, et al. Academic
814 engagement and commercialisation: A review of the literature on university–industry relations.
815 Research policy. 2013;42(2):423-42.

816 8. Slattery P, Saeri AK, Bragge P. Research co-design in health: a rapid overview of reviews.
817 Health research policy and systems. 2020;18(1):1-13.

818 9. Coutts P. The many shades of co-produced evidence. Carnegie UK Trust; 2019.

819 10. Fransman J. Charting a course to an emerging field of 'research engagement studies': A
820 conceptual metasynthesis. Research for All. 2018;2(2):185-229.

- Williams O, Robert G, Martin GP, Hanna E, O'Hara J. Is co-production just really good PPI?
 Making sense of patient and public involvement and co-production networks. Decentring health and
 care networks: Springer; 2020. p. 213-37.
- Filipe A, Renedo A, Marston C. The co-production of what? Knowledge, values, and social
 relations in health care. PLoS biology. 2017;15(5):e2001403.
- 13. Louise L, Annette B. Drawing straight lines along blurred boundaries: qualitative research,

patient and public involvement in medical research, co-production and co-design. Evidence & Policy.
2019;15(3):409-21.

829 14. Stewart EC, Davis JS, Walters TS, Chen Z, Miller ST, Duke JM, et al. Development of strategies
830 for community engaged research dissemination by basic scientists: a case study. Translational
831 Research. 2022.

832 15. Oliver K, Kothari A, Mays N. The dark side of coproduction: do the costs outweigh the
833 benefits for health research? Health Research Policy and Systems. 2019;17(1):33.

83416.Reale E, Primeri E, Flecha R, Soler M, Oliver E, Puigvert L, et al. Report 1. State of the art in835the scientific, policy and social impact of SSH research and its evaluation.

836 17. Wensing M, Grol R. Knowledge translation in health: how implementation science could837 contribute more. BMC medicine. 2019;17(1):1-6.

- 838 18. Smith H, Budworth L, Grindey C, Hague I, Hamer N, Kislov R, et al. Co-production practice
 839 and future research priorities in United Kingdom-funded applied health research: a scoping review.
 840 Health Research Policy and Systems. 2022;20(1):1-43.
- 19. Cooke J, Langley J, Wolstenholme D, Hampshaw S. Seeing" the difference: the importance of
 visibility and action as a mark of" authenticity" in co-production: comment on" collaboration and coproduction of knowledge in healthcare: opportunities and challenges. International Journal of Health
 Policy and Management. 2017;6(6):345.
- 845 20. Green T, Bonner A, Teleni L, Bradford N, Purtell L, Douglas C, et al. Use and reporting of
 846 experience-based codesign studies in the healthcare setting: a systematic review. BMJ Quality &
 847 Safety. 2020;29(1):64-76.
- 848 21. Graham ID, Logan J, Harrison MB, Straus SE, Tetroe J, Caswell W, et al. Lost in knowledge
 849 translation: time for a map? Journal of continuing education in the health professions.
 850 2006;26(1):13-24.
- Heaton J, Day J, Britten N. Collaborative research and the co-production of knowledge for
 practice: an illustrative case study. Implementation Science. 2015;11(1):1-10.
- Kislov R, Wilson PM, Knowles S, Boaden R. Learning from the emergence of NIHR
 Collaborations for Leadership in Applied Health Research and Care (CLAHRCs): a systematic review of
- evaluations. Implementation Science. 2018;13(1):1-17.
 24. NIHR. The legacy of the CLAHRCs 2014-2019. 5 years of NIHR-funded applied health
 research. 2021.
- 858 25. Richardson J, Durose C, Beebeejaun Y, Rees J, Richardson L. Towards Co-production in 859 research with communities. 2011.
- 26. Ostrom E. Crossing the great divide: coproduction, synergy, and development. World
 Development. 1996;24(6):1073-87.
- 862 27. Chang H. Autoethnography: Raising cultural consciousness of self and others.
- 863 Methodological developments in ethnography: Emerald Group Publishing Limited; 2007.
- Van Der Graaf P, Shucksmith J, Rushmer R, Rhodes A, Welford M. Performing collaborative
 research: a dramaturgical reflection on an institutional knowledge brokering service in the North
 East of England. Health research policy and systems. 2019;17(1):1-9.

867 29. Berg P, Brehm A, Jentsch S, Monecke M, Witzel H, Erinnern W. Adams, TE, Holman Jones, St.
868 & Ellis, C.(2015). Autoethnography. Understanding Quali-tative Research. Oxford et al.: Oxford

- 869 University Press. Adorno, Th. W.(1959 [1997]). Was bedeutet: Aufarbeitung der Vergangenheit. In GS
 870 10.2, S. 555–572.
- 871 30. NIHR. UK Standards for Public Involvement in Research 2019 [Available from:
 872 https://sites.google.com/nihr.ac.uk/pi-standards/home.
- 873 31. Boaz A, Davies H. What works now?: evidence-informed policy and practice: Policy Press;
 874 2019.
- 875 32. Kneale D, Rojas-García A, Raine R, Thomas J. The use of evidence in English local public 876 health decision-making: a systematic scoping review. Implementation Science, 2017;12(1):1-12
- health decision-making: a systematic scoping review. Implementation Science. 2017;12(1):1-12.
- 877 33. Pearce C. The complexities of developing equal relationships in patient and public
- involvement in health research. Social Theory & Health. 2021;19(4):362-79.

879 34. Boylan M, Coldwell M, Maxwell B, Jordan J. Rethinking models of professional learning as
880 tools: a conceptual analysis to inform research and practice. Professional development in education.
881 2018;44(1):120-39.

882 35. Green G, Johns T. Exploring the relationship (and power dynamic) between researchers and 883 public partners working together in applied health research teams. Frontiers in Sociology. 2019;4:20.

884 36. Rose D, Kalathil J. Power, privilege and knowledge: the untenable promise of co-production
885 in mental "health". Frontiers in Sociology. 2019:57.

Williams O, Sarre S, Papoulias SC, Knowles S, Robert G, Beresford P, et al. Lost in the
shadows: reflections on the dark side of co-production. Health Research Policy and Systems.
2020;18(1):1-10.

- 889 38. Miller CA, Wyborn C. Co-production in global sustainability: histories and theories.
 890 Environmental Science & Policy. 2018.
- 39. Spyridonidis D, Hendy J, Barlow J. Leadership for knowledge translation: the case of
 CLAHRCs. Qualitative health research. 2015;25(11):1492-505.

Kislov K HG, Bresnen M. Supporting the transition from individualistic to collective
leadership: A longitudinal study of a university-healthcare partnership. 2022.

Kislov R, Wilson P, Boaden R. The 'dark side' of knowledge brokering. Journal of health
services research & policy. 2017;22(2):107-12.

42. Oliver K, Innvar S, Lorenc T, Woodman J, Thomas J. A systematic review of barriers to and

facilitators of the use of evidence by policymakers. BMC health services research. 2014;14(1):2.

43. Holmes B, Best A, Davies H, Hunter D, Kelly M, Marshall M, et al. Knowledge-to-action in

complex health systems: who should do what? Evidence and Policy. 2017;13(3):539-60.

Adams, T. E., Holman Jones, S., & Ellis, C. (2015). Autoethnography: Understanding Qualitative
Research. New York: Oxford University Press, 1–203.

903 Coutts P. The many shades of co-produced evidence. Carnegie UK Trust. [Online].; 2019 [cited 2021
904 06 21]. ISBN: 9781912908066. Available from:

905 https://www.carnegieuktrust.org.uk/publications/the-many-shades-of-co-produced-evidence/

Filipe A, Renedo A, Marston C. The co-production of what? Knowledge, values, and social relations inhealth care. PLOS Biology. 2017; 15(5).

Fransman J. Charting a course to an emerging field of 'research engagement studies': A conceptual
meta-synthesis. Research for All. 2018; 2(2): p. 185-229.

Kislov, R., et al. (2017). "The 'dark side' of knowledge brokering." Journal of health services research
& policy 22(2): 107-112.

912 Kislov, R., Harvey, G., & Bresnen, M. (2023) Supporting the transition from individualistic to

913 collective leadership: A longitudinal study of a university-healthcare partnership. In N. Chambers

914 (Ed.) *Research Handbook on Leadership in Healthcare.* Cheltenham: Edward Elgar Publishing

- 915 (forthcoming).
- 916
- 917 Stewart, E. C., et al. (2022). "Development of strategies for community engaged research918 dissemination by basic scientists: a case study."
- 919 Williams O, Robert G, Martin GP, Hanna E, O'Hara J. Is co-production just really good PPI? Making

920 sense of patient and public involvement and co-production networks. In Bevir B, Waring J, editors.

921 Decentring Health and Care Networks: Reshaping the Organization and Delivery of Healthcare.:

922 Palgrave Macmillan, Cham; 2020. p. 213-237.

923

924	List of abbrevia	tions
925	ARCs	Applied Research Collaborations
926	CLAHRC	Collaborations for Leadership in Applied Health Research
927	GRiP	Getting Research Into Practice
928	NIHR	National Institute of Health and Care Research
929	PPI	Patient and Public Involvement
930	UKCRC	United Kingdom Clinical Research Centres
931	UNICEF	United Nations Children's Fund
932	WHO	World Health Organisation
933	Declarations	
934		
935	Ethics approval	and consent to participate
936	No ethical appr	oval was required for this study
937		
938	Consent for pub	blication
939	Not applicable	
940		
941	Availability of a	lata and materials
942 943	The datasets us author on reaso	ed and/or analysed during the current study are available from the corresponding onable request.
944		
945	Competing inte	rests
946	The authors dec	clare that they have no competing interests
947		
948	Funding	
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956

957 *Authors' contributions*

PvdG, RK, HS, JL conceived the idea for the study, developed the study design and applied for
funding from NIHR SPHR. Data collection and analysis were undertaken by PvdG, NH, RK, HS and JL.

- 960 Data interpretation was supported by all authors (PvdG, RK, HS, JL, NH, MC, DW, JC, SM). The paper
- 961 was drafted by PvdG and was commented on by all authors PvdG, RK, HS, JL, NH, MC, DW, JC, SM).
- 962 All authors read and approved the final manuscript (PvdG, RK, HS, JL, NH, MC, DW, JC, SM).
- 963

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968 Appendices

969 Appendix 1. Story line topic list for interviews

970 Narrative accounts of co-production in Collaborations for Leadership

- 971 in Applied Health Research and Care (CLAHRCs)
- 972

973 Introduction

- We are a small working group with members from five NIHR-funded Applied Research
- 975 Collaborations (ARCs), who share an interest in co-production. We want to understand the overall
- 976 narrative around co-production and capture the learning from previous CLAHRCs before developing
- 977 further work in this area.
- 978 We have approached you because you worked in a previous CLAHRC (Yorkshire & Humber, Greater
- 979 Manchester, East Midlands or South London), were involved in some way with co-production and
- may be able to provide a comprehensive overview of co-production and key learning within yourCLAHRC.
- 982 Please try to answer the following questions in as much detail as you can, keeping in mind a broad
- 983 definition of co-production. For example, it may have been implemented as an entire methodology,
- 984 or at defined time points and could have been applied in a range of circumstances including projects,
- 985 events, training or funding applications. We are particularly interested to know about applied health
- 986 research and complex intervention research that used co-production.
- 987 Thank you for taking time to complete these questions. If you are providing a written account,
- 988 please expand the boxes below as needed.
- 989 The Cross-ARC working Group on Co-production

990 Questions

1. Please can you briefly describe your CLAHRC and its approach to co-production?

For example: To what extent did the CLAHRC engage with 'co-production'? What was the rationale for using co-production? To what extent was co-production applied intentionally/ according to known principles? Was the approach to co-production coherent across the CLAHRC?

2. Who were the main people involved in this work within your CLAHRC?

Please tell us about: Who led on this work in your CLARHC? Which stakeholder groups were included in the co-produced projects (e.g. public, organisations, providers etc)? Is there someone else we can contact for additional information about the co-production work within the CLAHRC?

3. How did you apply your co-production approach across the CLAHRC?

For example: How was co-production applied in projects, events, training and funding schemes? Was the application uniform across the CLAHRC?

4. What learning did you take away from using co-production in your CLAHRC?

For example: What worked well, what didn't? What were the main challenges? What would you say about the impact of the co-produced work within your CLAHRC? Did the understanding of, or competence in co-production, change over the period of the CLAHRC award?

5. What can ARCs do to make more use of co-production going forward?

For example: What should the ARCs do more of? What should the ARCs do differently to the CLAHRCs? What do you think are the upcoming priorities for using co-production within ARCs?

6. Which co-production projects from your CLAHRC would be worth following up if you had to select two?

Please give as much detail as you can: Title, project lead, contact details? Are there any publications or reports available in the public domain?

7. What was your role in the previous CLAHRC? And which CLARHC did you work within?

991	
992	THANK YOU
993	

994

995 Appendix 2. Resource pack for interactive workshop

996 **Pre-discussion resource pack for authors**

997 **Instructions**

- 998 Our emerging analysis identified six tensions that were apparent when applied health research was co-
- produced within the CLAHRCs. We'd like your comments and suggestions for each of the findings, so that we
- 1000 can refine them for the journal paper we will write together. Please use the table below and the cut and re-
- arrange exercise to capture your thoughts about the findings. Please bring your ideas and suggestions to our
- 1002 group discussion on [insert date and time].

YOUR comments here please

ANY other comments or suggestions?

Please cut out the six tensions cards below	Blank cards Use these to re-phrase or add new tensions
1 Idealistic, tokenistic vs realistic narratives	1
2 Power differences and (lack of) reciprocity	2
3 Excluding vs including language and communication	3
4 Research vs non-research activities	4
5 Traditional academic ways of working vs new ways of generating and disseminating evidence	5
6 Strategic leadership vs capacity on the ground	6



1016 Manuscript abstract

1017 Working title: Practical insights on doing co-production: reflections on co-produced research
 1018 projects in five UK collaborative research partnerships between 2008-2018

1019 Summary of the paper

1020 Background

1021 Despite a growing enthusiasm for co-production in healthcare services and research, research on co-1022 production practices is lacking. An abundance of conceptual frameworks, guidelines and principles is

available but little empirical research is conducted on the 'how to do' co-production of research

1024 evidence to improve health care services. This paper brings together leadership insights from

1025 collaborative research partnerships in the UK on practicing co-production with the aim to inform

1026 practical guidance for new partnerships facilitating co-production of applied health research.

1027 Methods

- 1028 Using an auto-ethnographic approach, experiential evidence was elicited through collective sense
- 1029 making from conversations between the research team and leaders of five collaborative research
- 1030 partnerships. This approach applies a cultural analysis and interpretation of the leads' behaviours,
- 1031 thoughts and experiences of co-production between 2008 and 2018 in relation to the academics,
- 1032 health practitioners, policy makers and local communities/ third sector organisations involved in co-
- 1033 produced research projects within the collective research partnerships.

1034 Results

- 1035 The findings highlight a variation of practices across CLAHRCs with the context in which co-
- 1036 production occurs largely determining the nature of the process and outcomes. We identified six
- 1037 tensions in doing co-production, such as 1) idealistic, tokenistic vs realistic narratives, 2) power
- 1038 differences and (lack of) reciprocity, 3) excluding vs including language and communication, 4)
- 1039 research vs non-research activities, 5) traditional academic ways of working and publishing vs new
- 1040 way of generating and disseminating evidence, and 6) strategic leadership vs capacity on the ground.

1041 Conclusions

- 1042 To overcome identified tensions in practicing co-production of research, NIHR ARCs need to be
- 1043 explicit about the tensions, be pragmatic about how to tailor co-production to their context and
- 1044 enact it at their lowest level. Imposing one model for co-production needs to be avoid in favour of
- 1045 identifying relevant levers for change in each context. Therefore, we propose a matrix of co-
- 1046 produced activities to enable leads in these collaborations to match context, actors and purpose
- 1047 with appropriate co-production activities. Based on this matrix we provide practical guidance on
- 1048 how best to support co-production in different structures and projects.
- 1049
- 1050
- 1051
- 1052

1053 Supplementary Files. Case studies of the four tensions.

1054

1055 1) Idealistic, tokenistic vs realistic narratives

1056 Case study CLAHRC SY/YH: Getting Research Into Practice (GRiP)

1057 CLAHRC partners in Yorkshire and Humber could apply for funding to undertake a Getting Research 1058 into Practice (GRiP) project by submitting a written proposal of maximum four pages. The funding 1059 supported the release of staff from Sheffield Teaching Hospitals NHS FT to conduct a research 1060 project on an aspect of care provided to patients that could be improved through implementing 1061 evidence into practice. GRIP projects were supported by members of the Translating Knowledge into 1062 Action theme of NIHR CLAHRC Yorkshire and Humber, with up to three projects funded per year and 1063 a maximum of £12,000 for each project. A case book was produced at the end of the CLAHRC to 1064 highlight various GRIP projects and the impact they had on practice.

One of the GRIPs projects explored ways to promote exercise in stroke survivors living in Sheffield,
using co-production workshops to better understand support from the service users' point of view.
The multi-disciplinary project team, composed of health professionals and designers, used
storytelling and visuals to explore myths around exercise after stroke, and to identify key barriers
and enablers of services provided in Sheffield. They also co-facilitated a series of five workshops to
develop design briefs for creating an ideal service, with support from product design course students
at Sheffield Hallam University, who were paired with stroke survivors and healthcare professionals.

1072This resulted in briefs for a communications campaign to counter myths and promote physical1073activity, a staff training package to help the consistent delivery of information regarding exercise1074after a stroke, and the creation of a stroke survivor's 'passport', giving them access to relevant and1075customised information and keeping their medical information in one place. Briefs were shared with1076teams across the world to seek funding for developing a prototype to test in stroke wards. For more1077information about GRiP, please see: https://clahrcyh.wordpress.com/2016/03/03/getting-research-1078into-practice-grip-2016-sheffieldhosp-shcfundraising/

1079

1080 2) Power differences and (lack of) reciprocity

1081 Case study CLAHRC South Yorkshire/Yorkshire and Humber: Power differences between academics 1082 In the CLAHRC South Yorkshire a Knowledge Mobilisation theme was led by a senior academic, while 1083 another theme was led by a trialist medic. Both were senior professors in their field; very much 1084 driven and fashioned by their considerable experience: one through positivist and 1085 experiment(induction); the other driven by theory application (deduction). They respected each 1086 other (based on their perceived places in respective hierarchies) and understood that their ways of 1087 knowing were different. However, the introduction of collaborative co-production and critical 1088 theory/ creative design approaches working was a step too far. They just did not get it and did not 1089 use the KM theme's expertise, as they did not consider it as real research. 1090 There were also power differences within themes. For example, in the CLAHRC's Obesity theme. We 1091 wanted to develop priorities for the theme and do this with services. The priority setting groups 1092 included surgeons and public health practitioners. The first group wanted to prioritise tertiary gastric 1093 bands and gastric balloons and evaluate this. The second group wanted to look at true prevention,

1094 such as sugar tax and changes to the obesogenic environment. Both groups could not compromise

1095 1096	and there were real tensions and power issues amongst these stakeholders. In the end we developed collaborative groups working at different stages of prevention to separate the tensions.
1097	
1098	3) Excluding vs including language and communication
1099	Language and communication
1100 1101	Case study CLAHRC Yorkshire and Humber: importance of collaborative agreements between researchers and industry partners
1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115	As an example of research co-production challenges, CLAHRC YH undertook the implementation and evaluation of a project known as the Enhanced Community Palliative Support Service (EnComPaSS), working with the voluntary sector, commissioners and an industry partner. This workforce transformation project in end-of-life care was coproduced from its inception with shared decision-making between knowledge users and researchers, centred around mutual learning and respect (Ariss et al 2021). The success of this project partly lay in the ability of our industry partners to be nimble and responsive to changes in the digital platform requested by clinical teams. However, at times the expectations of both with regards to the feasibility of changes was unreasonable and expectations had to be carefully managed. For example, the need to be clear about foreground and background IP were crucial for new pathway models and novel workforce developments when undertaken in a co-produced way. We learnt the importance of collaborative agreements between our industry partners and all other collaborators in this project. For more information about GRiP, please see: https://clahrcyh.wordpress.com/2016/03/03/getting-research-into-practice-grip-2016-sheffieldhosp-shcfundraising/ .
1116	
1117	Notivation versus skins
1118 1119 1120 1121 1122	The CLAHRC South Yorkshire developed a three-monthly reporting system that asked theme leads to report on what they were undertaking within their theme based on our principles, with one being co-production. The reporting system worked as a mechanism to share and learn from one another in using co-production skills.
1123 1124 1125 1126 1127 1128 1129	In addition, the CLAHRC South Yorkshire used their Research Capacity Funding to encourage cross fertilisation of ideas and undertake joint projects together. Themes that were experienced in co- production had an opportunity to use these skills with other research themes. This was sometimes successful, leading to more sustained partnerships, but also sometimes did not work. For more information on the CLAHRC South Yorkshire approach to co-production, please see: <u>https://www.researchgate.net/publication/237151605_NIHR_CLAHRC_for_South_Yorkshire_Interna</u> <u>I_Evaluation_Report_November_2011_Executive_Summary</u> .
1130	
1131 1132	Case study Fuse: AskFuse, a responsive research and evaluation service for public health practitioners and policy makers
1133 1134 1135 1136	In June 2013, after extensive consultation with local stakeholders and partners, Fuse launched AskFuse: a rapid response and evaluation service to provide decision makers and practitioners with an easy-to-access portal for public health evidence in the North East of England. The service aims to respond to a broad range of research requests from the health, well-being or social care sectors.

1137 1138 1139 1140 1141 1142 1143	The post of AskFuse Research Manager was created to provide a single point of contact for all AskFuse enquiries and to coordinate this service for each client from start to finish. In an initial conversation, the partner's needs are explored; the nature and timescale of any further work is then agreed over a few meetings (with no obligation or fee), resulting in a research brief for researchers. The costs of any work agreed, and outputs, will be discussed at this stage. The Research Manager then liaises with Fuse senior investigators and staff at the five universities in the North East of England to identify capacity and skills to develop, commission, lead and undertake research projects.
1144 1145 1146 1147 1148 1149 1150 1151 1152 1153	Between June 2013 and January 2022 over 400 enquiries have been supported by the service resulting in more than 150 collaborative research projects and various co-produced knowledge exchange events. However, the knowledge brokering process facilitated by the service has not been without its challenges. For instance, considerable time is often needed to turn enquiries into a format which is 'researchable', in part because of unreal expectations. Secondly, local funding for agreed research projects was generally limited, while academic enthusiasm for supporting these projects was sometimes dampened by a lack of institutional incentives to engage in knowledge exchange. Finally, developing AskFuse proved particularly challenging in a time of significant system upheaval in the NHS. This also changed the types of evidence that were valued by enquirers, with more emphasis being put on implementation advice from qualitative or realist designs.
1154 1155 1156 1157	For more information on AskFuse, please see: Van Der Graaf P, Shucksmith J, Rushmer R, Rhodes A, Welford M. Performing collaborative research: a dramaturgical reflection on an institutional knowledge brokering service in the North East of England. Health research policy and systems. 2019;17(1):1-9. Or visit: www.fuse.ac.uk/askfuse .
1158 1159	4) Individual motivation vs structural issues
1160 1161	Case study Fuse: community-centred approaches to public health/ Impact of Universal Credit in North East England: a qualitative study of claimants and support staff
1162 1163 1164 1165 1166	The need for the study emerged from embedded research undertaken by an academic researcher within Fuse working with local community groups in Gateshead and drawing on their priorities and experiences. Keen to explore the potential health and social impact of Universal Credit (UC) on residents, Gateshead Council commissioned the study. Local stakeholders were involved in the conduct of the study and in the dissemination of findings.
1167	
1168 1169 1170 1171 1172 1173	33 UC claimants with complex needs, disabilities and health conditions and 37 staff from local government, housing, voluntary and community sector organisations were interviewed and took part in focus groups to share their accounts of the UC claims process and the consequences of managing on UC. The findings add considerable detail to emerging evidence of the deleterious effects of UC on vulnerable claimants' health and wellbeing with evidence suggesting that UC is undermining vulnerable claimants' mental health, increasing the risk of poverty, hardship, destitution, and suicidality.
1168 1169 1170 1171 1172 1173 1174 1175 1176	33 UC claimants with complex needs, disabilities and health conditions and 37 staff from local government, housing, voluntary and community sector organisations were interviewed and took part in focus groups to share their accounts of the UC claims process and the consequences of managing on UC. The findings add considerable detail to emerging evidence of the deleterious effects of UC on vulnerable claimants' health and wellbeing with evidence suggesting that UC is undermining vulnerable claimants' mental health, increasing the risk of poverty, hardship, destitution, and suicidality. The resulting findings were presenting in person to the House of Commons Work and Pensions Select Committee and were cited in a report calling on the Government to provide financial support to people waiting for their first Universal Credit payment.