

Childbearing women's experiences of midwives' workplace distress: Patient and Public Involvement

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4 Abstract

5

6 Background

- 7 Some midwives experience work-related psychological distress. This can reduce the quality
- 8 and safety of maternity services, yet there are few interventions to support midwives.

9 Aim

- 10 Our aim was to explore and voice the perceptions of new mothers in relation to the barriers to
- 11 receiving high-quality maternity care, the psychological wellbeing of midwives and the
- 12 development and evaluation of an online intervention designed to support them. GRIPP2
- 13 reporting checklists are also used to demonstrate how Patient and Public Involvement (PPI)
- 14 works in research.

15 Methods

- 16 We used a co-design approach within a discussion group to collect qualitative data from 10
- 17 participants. A framework approach was used for analysis.

18 Findings

Unique findings include midwives crying, becoming emotional and seeking support from
service users. Overall, seven PPI outcomes relating to intervention development and data
collection were identified.

22 Conclusion

23 Maternity service improvement strategies may only be wholly effective once they appreciate24 an equal focus upon effective midwifery workplace support.

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62 The authors have no conflicts of interest to declare.

63

64 Introduction

The wellbeing of healthcare staff can be linked with the quality and safety of healthcare
services(The Royal College of Physicians 2015, Hall, Johnson et al. 2016). Midwives in
particular can experience a range of work-related psychological distress and are more likely
than other healthcare staff to report feeling pressured at work(Cumberlege 2016, Pezaro,
Clyne et al. 2015). The significance of this issue has been recognised, as midwifery and
maternity workforce research is now listed as one of the most prominent global research
priorities for the international midwifery community(Soltani, Low et al. 2016).

In light of this, any work-related psychological distress which may be affecting the quality 72 73 and safety of maternity care must be explored and addressed. Psychological distress can be defined as a unique, discomforting, emotional state experienced by an individual in response 74 75 to a specific stressor or demand that results in harm, either temporary or permanent, to the person (Ridner 2004). In the case of defining work-related psychological distress, we propose 76 that the 'specific stressor' would therefore need to be work-related. A recent report from the 77 78 National Childbirth Trust (NCT) has explored women's experiences of maternity services and recommended that staff burnout be prevented and addressed(Plotkin 2017). However, 79 women's experiences in relation to work-related psychological distress in midwifery 80

81	populations specifically has yet to be explored for a deeper understanding of this
82	phenomenon as a research problem in need of an evidence-based solution.
83	It has been well established that co-designing such research with patients and the public
84	benefits the project, the service user and the organisations involved(Bradwell, Marr 2017,
85	Steen, Manschot et al. 2011). This is because the patient is the key stakeholder in their own
86	care, and their potential contribution to the quality and safety of services in research is widely
87	recognised(Vincent, Coulter 2002). Such patient and public involvement (PPI) can bring
88	value to a research project in terms of providing a qualitative description of context,
89	experiential knowledge and insightful contributions to the research agenda(Staley 2015,
90	Boote, Telford et al. 2002).
91	Traditionally, the involvement of patients and the public in research has been reported
92	inconsistently within the literature(Brett, Staniszewska et al. 2014, Mockford, Staniszewska
93	et al. 2011). It has been suggested that such poor reporting can result in a weaker
94	understanding of the evidence base, making it more challenging to implement the findings of
95	studies in terms of best PPI practice(Brett, Staniszewska et al. 2017). Consequently, new
96	GRIPP2 reporting checklists for PPI in research have been developed to enhance the quality,
97	transparency, and consistency of the PPI evidence base(Staniszewska, Brett et al. 2017). This
98	has resulted in more recent publications using the GRIPP2 reporting checklists to more
99	consistently and accurately report how their PPI activities have contributed to the design of
100	new research in healthcare (Morgan, Thomson et al. 2016, Andrews, Allen et al. 2015).
101	Similarly, this article uses the long GRIPP2 reporting checklist to report how PPI activities
102	have been used to co-design a research proposal with new mothers as members of a project
103	steering group. We used the definition of PPI as proposed by INVOLVE: Research carried
104	out 'with' or 'by' members of the public rather than 'to', 'about' or 'for' them(Involve 2012). In
105	line with Steen and colleagues, we defined co-design as creative cooperation during the

106	process of designing research(Steen, Manschot et al. 2011), in this case a research proposal.			
107	The research proposal in question outlines plans to develop and evaluate an online			
108	intervention designed to primarily support midwives in work-related psychological			
109	distress(Pezaro 2016). The complete evidence and theory-based design of this			
110	intervention draws inference from the revised transactional model of occupational stress and			
111	coping presented by Goh and colleagues(Goh, Sawang et al. 2010). It has been published in			
112	full elsewhere(Pezaro 2018). The aim of this research proposal, guided by the Medical			
113	Research Council's (MRC) framework for developing and evaluating complex			
114	interventions(Craig, Dieppe et al. 2008), is to address the research problem of work-related			
115	psychological distress in midwifery populations. Therefore, these PPI activities also looked to			
116	explore the perspectives of new mothers in relation to this topic. To our knowledge, this is the			
117	first publication to report these unique areas of enquiry concomitantly.			
118	Principally, this PPI was instigated in light of the fact that the voices of new mothers have yet			
119	to be explored or incorporated into such future research planning. Consequently, the aims of			
120	this PPI were:			
121	• To establish whether the amelioration of work-related psychological distress in			
122	midwifery populations should be a research priority.			
123	• To gain a deeper understanding of this research problem (work-related			
124	psychological distress in midwifery populations) from the perspectives of new			
125	mothers.			
126	• To establish whether work-related psychological distress in midwifery populations			
127	impacts upon the experience of maternity care from the perspectives of new			
128	mothers.			
	 To introduce a research proposal to a PPI project steering group for appraisal. 			
129	• To introduce a research proposal to a FFT project steering group for applaisal.			
130	5			

In order to meet these aims, the PPI questions associated with these activities were: 131 132 1. What are the perceptions of new mothers in relation to the barriers to receiving 133 high quality maternity care? 134 2. What are the perceptions of new mothers in relation to the psychological 135 wellbeing of midwives working in maternity services? 136 137 3. What are the perceptions of new mothers in relation to a research proposal outlining the development and evaluation of an online intervention designed to 138 139 support midwives in work-related psychological distress?

140 Methods

141 Design

142 These PPI activities take a co-design approach, focussing upon qualitative data to explore the perceptions of new mothers in relation to the barriers to receiving high quality maternity care, 143 144 the psychological wellbeing of midwifery populations and a research proposal outlining the development and evaluation of an online intervention designed to support midwives in work-145 146 related psychological distress. The Guidance for Reporting Involvement of Patients and the 147 Public (GRIPP2) long form was used to support the reporting of this work(Staniszewska, Brett et al. 2017). In line with current recommendations, PPI activities were conducted at the 148 earliest conceptual phases of developing a research proposal prior to submitting a funding 149 150 application, as a preliminary activity to meaningfully inform the direction of planned future research(Involve 2012, Buck, Gamble et al. 2014). Ethical approval was obtained for this 151 152 PPI work prior to it taking place.

153 **Participants**

154 New mothers, including pregnant women with experience of using the maternity services of155 the United Kingdom (UK), within the 12 months prior to this PPI, were eligible to participate.

In this case, non-English-speaking mothers were excluded from participation. A self-selecting
sample was recruited via TwitterTM, academic blogs, 'The academic midwife' Facebook
page, and mother and baby groups. Participants received refreshments and £20 in gratitude
for their time.

160 **Procedure**

All PPI activities were undertaken during a 2-hour face-to-face discussion group in a local community centre and were led by the first author. Firstly, the role of PPI was introduced, and participants were invited to become members of the project steering group should the research proposal be successful in securing research funding. Subsequently, all provided their informed consent to participate in the data collection aspect of this PPI session. This informed consent was required to share the voices of these new mothers more widely via publication.

Subsequently, participants were introduced to and asked to reflect upon a lay summary of 168 proposed research outlining the development and evaluation of an online intervention 169 designed to support midwives in work-related psychological distress, which is standard PPI 170 171 (Morgan, Thomson et al. 2016). A background to the proposed research was also provided, so as to place the proposal in context with the phenomenon under study. Participants were then 172 173 invited to complete a feedback form. This feedback form prompted written responses in 174 relation to the appearance and significance of psychological distress in midwifery populations, the potential consequences of work-related psychological distress in maternity 175 services, the value of psychological support in the maternity workplace and the development 176 177 and evaluation of a confidential and anonymous online intervention designed to support midwives in work-related psychological distress. Participants were also invited to write 178 179 down their reflections as discussions evolved. These methods were chosen as free-writing can enable participants to reflexively consider new meanings and internal dialogues in relation to 180

the topic under discussion(Elizabeth 2008). Discussions were digitally recorded and
transcribed verbatim. Field notes were also taken by the first author throughout.

At the end of this PPI session, the first author recapped the perspectives expressed by participants during the session in order to clarify the accuracy of interpretation. This permitted participants to revise and clarify any contributions made. The names of any individual midwives and/or maternity services disclosed were omitted from the analysis of results.

188 Data analysis

All qualitative data were analysed together using the five-stage framework analysis in excel
software(Ward, Furber et al. 2013). This type of analysis was chosen due to it being a
deductive form of thematic analysis designed to pragmatically answer the PPI questions
presented. All data and generated themes were given equal weighting.

The final framework was developed by identifying recurrent and important themes which corresponded with the perceptions of new mothers regarding the maternity services, the phenomenon of work-related psychological distress in midwifery populations and the proposed research plan to support them via an online intervention. To enhance the rigor and trustworthiness of this analysis, the process of developing and refining these themes was peer reviewed by co-authors(Fernald, Duclos 2005). Furthermore, a reflexive process of writing, peer review and discussion was employed throughout (Greene 2014).

200 Findings

10 new mothers who met the inclusion criteria were recruited for this PPI. No demographical
information was requested due to the fact that these were PPI activities. However, some
participants disclosed that they had received a variety of antenatal, intrapartum and postnatal

- 204 care from maternity services based within the London, South East and East Midlands areas of
- 205 England. Figure 1 provides an overview of all results.

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209			
210			

211 Figure 1. Overall findings

212			
213	What are the	What are the perceptions	What are the perceptions of new
214	perceptions of new mothers in relation	of new mothers in relation to the psychological	mothers in relation to a researc proposal outlining the
215	to the barriers to receiving high quality	wellbeing of midwives working in maternity	development and evaluation of an online intervention designed
216	maternity care?	services?	to support midwives in
217	Barriers to high-quality		work-related psychological distress?
218	maternity care include:	Midwives appear: -Stressed	
219	-Service constraints	-Rushed	The perceived support needs of midwives in work-
220	-Inconsistencies -Poor communication	-Crying/emotional -To have no control.	related psychological distress
221	-Poor workplace	Consequences include:	-Workplace support is
222		-Lack of compassion -Poor workplace behaviours	currently perceived to be absent for midwives
223	PPI outcomes	-Substandard care	-Midwives appear to look to service users for support
224	understanding of this research problem from	-Demoralisation	-Psychological support for midwives in work-related
225	the perspectives of new mothers	PPI outcomes	psychological distress is important
226	- Validation of the direction of future plans	-A deeper understanding of this research problem from the	-The development and testing of a confidential and
227	for research	perspectives of new mothers	anonymous online intervention designed to
228		- Validation of the direction of future plans for research	support midwives and others in work-related psychological
229		-Planned retrospective data collection on perceived confidence in the profession	distress would be significant
230		-Planned retrospective data collection on the percieved	PPI outcomes

experience and quality of

-Planned correlational data

collection on the occurrence of workplace errors with the

maternity care

-A deeper understanding of this research problem from

-Validation of the direction

the perspectives of new

mothers

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238 Four themes and sixteen subthemes were identified regarding the perceptions of new mothers in line with the framework analysis approach(Ward, Furber et al. 2013). Theme one 239 240 summarises the perceptions of new mothers in relation to barriers to receiving high-quality care in maternity services, theme two presents the perceptions of new mothers in relation to 241 the psychological wellbeing of midwives working in English maternity services, theme three 242 243 collates the perceived consequences of work-related psychological distress in midwifery populations and theme four reports on the support needs of midwives in work-related 244 psychological distress from the perspective of new mothers. These results are reported in a 245 way which maximises the number of perspectives heard in the process of improving the 246 quality of women's health research, in line with best practice(Moss, Daru et al. 2017, NIHR 247 248 2015).

In summary, these new mothers saw poor workplace practices, poor communication, service 249 constraints and inconsistencies as barriers to them receiving high-quality care. They also 250 251 observe that midwives appear stressed and rushed on occasion and seem to have no control. Three participants had also seen midwives cry or become emotional. The consequences 252 associated with work-related psychological distress in midwifery populations are perceived 253 254 by these new mothers to be a lack of compassion from staff, poor workplace behaviours, substandard care and demoralisation within the midwifery profession. Furthermore, midwives 255 256 appeared to look to service users for support in some cases as there was a perceived lack of

staff support in place. Nevertheless, this group of new mothers believe that the provision of
psychological support is important for midwives in the workplace, and that the development
and testing of a confidential and anonymous online intervention designed to support
midwives and others in work-related psychological distress would be significant.

261 Theme One: Perceived barriers to receiving high quality care in maternity services

As participants began to reflect upon their own experiences within the maternity services, they began to share what they perceived to be barriers to receiving high-quality maternity care. These barriers included service constraints, inconsistency, poor communication and poor workplace practices.

266 Subtheme one: "Midwives are not able to do the job they want to do"

Here, participants largely reflected upon their experience of staff shortages, and how this
made it more challenging for midwives to provide high quality care. Whilst it was recognised
that midwives wanted to deliver high quality care, the working nature of maternity services
made this seemingly impossible to achieve.

271 "Midwives are clearly overworked, there is a huge shortage of them in hospitals leading to272 units being closed for short periods of time" – Feedback form response.

273 "I never felt that the midwives involved were to blame and felt bad for them at the time as

they were clearly too busy to do what they needed for each patient, but the lack of

staffing/resources was very apparent, and I do feel it affected my care and outcome in very

276 significant ways." – Written participant contribution.

277 Subtheme two: "I had no consistency"

Polar experiences in maternity care were described throughout the maternity services. Somenew mothers also reported a lack of continuity in both their carer and maternity care. It was

also suggested that midwives seemed less 'stressed' whilst working away from the labourward setting.

²⁸² "I had no consistency, I saw a different face every time" – Discussion group participant 5.

283 "Midwives share their own opinion – there is no collective voice" – Notes taken from284 discussion.

285 Subtheme three: "I never knew her name"

Poor communication was recognised by these participants as a barrier to the delivery of high

287 quality maternity care. However, this poor communication was reported to occur among staff,

and between service users and staff.

289 "It seems to be that there is a lack of sharing best practice, getting together as midwives

290 collectively and speaking about different approaches, research, new understandings, new

techniques just what works... just seems that everyone is working in their own little siloes...

especially the community midwives" – Discussion group participant 8.

²⁹³ "I did note a lack of communication" – Feedback form response.

294 Subtheme four: "There is poor management"

- 295 Some participants reported that midwives seemed to be poorly managed. There was also
- seemingly a lack of team work apparent. For these new mothers, such poor workplace
- 297 practices were perceived to obstruct the delivery of high-quality care.
- ²⁹⁸ "I did note a lack of comradery between areas." Feedback form response.
- 299 "More support across the teams needed" Written participant contribution.

300 Theme Two: The perceptions of new mothers in relation to the psychological wellbeing

301 of midwives working in maternity services

302 Whilst reflecting on midwives' psychological wellbeing in the maternity workplace,

303 participants began to report a variety of incidents where midwives openly appeared to

304 experience work-related psychological distress. Participants often described this as the

midwife seeming 'stressed' or 'rushed', yet some also alleged that midwives were seen to

306 'keep calm and carry on'. Midwives were also sometimes seen to appear crying, or to have no

307 control. Only a minority of data analysed from qualitative survey responses reported that

308 some individual midwives did not appear to experience any work-related psychological

309 distress at all.

310 Subtheme one: "The midwife was clearly stressed"

Participants described how midwives appeared to be 'stressed' in the midwifery workplace
whilst caring for them. However, some new mothers expressed how midwives carried on
caring for them regardless.

314 "They hid it well – occasionally cracked" – Feedback form response.

315 "The midwife was clearly stressed" – Discussion group participant 6.

316 Subtheme two: "The midwife always seemed to be rushing"

317 Here, participants described midwives appearing to be 'rushed'. This was often described as

318 midwives 'cramming' in work rather than being able to spend adequate time providing

319 quality maternity care.

320 "She didn't have enough time, she didn't have enough to go through things properly, it was

all a bit rushed and a bit sort of whizzed through" – Discussion group participant 7.

322 "The midwife always seemed to be rushing between places and didn't really know who was

supposed to be coming" – Discussion group participant 1.

324 Subtheme three: "Midwives cry"

- 325 Within this subtheme, midwives were seen by some participants crying or becoming
- 326 emotional in the maternity workplace. These displays of emotion were attributed to various
- 327 experiences of work-related psychological distress.
- 328 "Midwives can get emotional due to stress" Notes taken from discussion.
- "She said...'labour ward is closed, there is not enough staff' ... 'I am with a woman who is
- 6cm and I can't leave her for more than a couple of minutes'... and then she got emotional" –
- 331 Discussion group participant 4.

332 Subtheme four: "No one was in control"

- Not only did participants express that at times, midwives appeared to have no control over
- 334 clinical situations in maternity services, they also perceived midwives to have no control over
- some of the decisions taken in the maternity workplace.
- "She just lost control of the situation" Discussion group participant 3.
- 337 "In my labour experience, the midwife was under lots of stress from the work load, other
- 338 midwives and how the situation was developing. This led to her losing control of the
- 339 situation" Feedback form response.

340 Theme Three: Perceived consequences of work-related psychological distress in

341 midwifery populations

- 342 Whilst exploring their own insights in relation to the psychological wellbeing of midwives,
- 343 participants began to reflect on what they perceived to be the consequences of work-related
- 344 psychological distress in midwifery populations. Here, participants largely referred to a
- 345 perceived lack of compassion, poor workplace behaviours, substandard care and
- 346 demoralisation within the maternity services.

347 Subtheme one: "My midwife was not sympathetic"

348 Participants described how midwives displayed a lack of compassion towards both service

349 users, and each other. From the perspective of new mothers, these displays of compassion

- 350 fatigue were regarded as a consequence of work-related psychological distress.
- 351 "The midwife was clearly stressed, she was really impatient with me" Discussion group

352 participant 6

353 "Stressed midwife was quite impatient and mean" – Feedback form response.

354 Subtheme two: "There is a lack of kindness shown between staff"

- 355 Here, participants described how they had witnessed incivilities between midwifery staff.
- Largely, these episodes included undermining and bullying behaviours. Some midwives were
- also seen to openly blame other midwives and behave competitively in the workplace. There
- 358 was also a lack of kindness noted between midwifery staff.
- 359 "They both spend a lot of time visiting me ...telling me how they do it better than the other
- 360 midwife" Discussion group participant 10.
- 361 "I can see the senior midwives coming in to perform the procedures which she was failing to
- do, rolling their eyes" Discussion group participant 9.

363 Subtheme three: "Midwives were making mistakes due to stress"

- Both specific and nonspecific episodes of substandard care were observed by this group of
- 365 participants in the midwifery workplace. Here, work-related psychological distress in
- 366 midwifery populations was linked to increased levels of pain and delays in pain medications.
- 367 Mistakes were also attributed to high levels of work-related psychological distress. Specific
- 368 mistakes of note included medication errors and breeches in confidentiality.

- 369 "She wasn't keeping up with checking the baby's heart rate which had been made clear in
- 370 front of us by a senior midwife." Feedback form response.
- 371 "Forgetting basic things e.g. tea and medication" Written participant contribution.

372 Subtheme four: "...Instantly makes you lose confidence."

- 373 Here, participants described how midwives appeared to be unsupported by others within their
- 374 profession. Moreover, participants also described how they began to lose faith in the midwife
- 375 providing their care under work-related psychological distress.
- "Inexperienced midwives have no support lose confidence they need their hands holding"
- 377 Notes taken from discussion.
- 378 "This led me not trusting her again." Feedback form response.

379 Theme Four: The perceived support needs of midwives in work-related psychological 380 distress

381 Within this theme, participants reported how support seemed to be absent for midwives in the

382 workplace. In some cases, participants also described how midwives in work-related

383 psychological stress appeared to seek support from service users. Participants also reflected

384 on the importance of psychological support and the significance of a confidential and

anonymous online intervention designed to support midwives in work-related psychological

386 distress.

387 Subtheme one: "There is clearly nowhere for midwives to go"

388 It was the clear perception of some participants that midwives did not have access to389 psychological support in the workplace. Here participants expressed both concern that there

390 was seemingly nowhere for midwives to seek help safely, and that the provision of any

391 structured support for midwives was seemingly absent.

- 392 "There clearly wasn't anyone for her to go to comfortably" Discussion group participant 9.
- 393 "She didn't have any support from anyone" Discussion group participant 3.

394 Subtheme two: "Midwife shared she was struggling"

- In some cases, midwives appeared to seek psychological support from those in their care.
- 396 Some participants reported how this involved the midwife complaining of work-related

397 psychological distress openly. Others reported how midwives actively sought comfort from

- them during the course of their maternity care.
- 399 "They need to be supported from within they can't be reliant on the birthing mothers to hold
- 400 their hands and pat them on the back..." Discussion group participant 10.
- 401 "The midwife let me know how stressed she was 🔅" Written participant response.

Subtheme three: "it is important that we support their mental and physical health as much as they support ours."

- 404 Unanimously, participants highlighted within this theme how important psychological
- 405 support would be for midwives in work-related psychological distress. Here, participants also
- 406 noted how such support could be expanded to support a range of healthcare professionals.
- 407 There was also recognition of how the quality of maternity care may have been improved had
- 408 midwives been having a 'good day' in the workplace.
- 409 "If she was having a good day I would have felt calmer in the situation and probably
- 410 wouldn't have needed an epidural." Feedback form response.
- 411 "NHS workers have such important job and can be very emotionally taxing" Feedback form
 412 response.

413 Subtheme four: "Midwives should be able to gain help without their workplace

414 knowing."

Having reviewed a lay summary of proposed research to develop and evaluate an online 415 intervention designed to support midwives in work-related psychological distress, this group 416 of participants were keen to see this planned research progress. Whilst some participants 417 noted that they may personally prefer to seek face-to-face support, they also recognised that 418 419 midwives may need access to flexible, anonymous and confidential support online. Overall, the proposed development and evaluation of the online intervention was unanimously 420 421 endorsed by this group of new mothers. 422 "PTSD must affect a lot of midwives" - Feedback form response.

423 "Hours could make it difficult to seek counselling but can access online support at all times"
424 – Feedback form response.

425 **PPI Outcomes**

The findings of these PPI activities have led to seven PPI outcomes. Firstly, these findings 426 provide a deeper understanding of this research problem from the perspectives of new 427 428 mothers and validate the direction of plans for research. Additionally, as this group of new mothers have linked the appearance of work-related psychological distress in midwifery 429 populations with a reduced confidence in the midwife, ongoing research will now plan to 430 431 assess any future changes in these perceptions via post-intervention qualitative research. Similarly, as some participants linked the appearance of work-related psychological distress 432 in midwifery populations with reduced quality and a poorer experience in maternity care, 433 434 planned future research will also now reassess these perceptions within a post intervention 435 study.

Furthermore, this group of new mothers attributed a range of mistakes to the appearance of 436 work-related psychological distress in midwifery populations. Consequently, planned 437 438 ongoing research will now usefully correlate the occurrence of workplace errors with the psychological wellbeing of midwives. As this group of new mothers have also endorsed the 439 provision of anonymity and confidentiality for users of the proposed online intervention, 440 prototypes of the intervention will be made anonymous and confidential for users. Lastly, 441 442 future prototypes of the intervention will also be inbuilt with the capability to support other professional groups, as this participant group have suggested that this may be useful for 443 444 future evaluations, implementation and distribution.

445 Discussion

The overarching aims of these PPI activities have been met by examining the perspectives of 446 new mothers in relation to the phenomenon of midwives in work-related psychological 447 distress and the development and evaluation of an online intervention designed to support 448 449 them. This PPI has also established that work-related psychological distress in midwifery populations can impact negatively upon the experience of maternity care from the 450 perspectives of these new mothers. In relation to the research plan shared with this group of 451 new mothers, participants gave their full support to the proposal, and recognised the need for 452 midwives to have access to flexible, anonymous and confidential support online. These 453 particular findings emulate the discoveries of other research, where workers describe how the 454 flexible and anonymous provision of online mental health support in the workplace would 455 facilitate increased rates of engagement (Carolan, de Visser 2017). 456

Whilst the research team had been aware of some of the more sensitive issues raised in ourfindings beforehand, current understandings have been expanded by some inimitable

findings, particularly in relation to trust and confidence in the midwifery profession. As well

460 as addressing the three PPI questions presented here, our findings also lead to seven PPI

461 outcomes which establish a clear contribution to a larger research project. These more
462 specifically relate to the particulars of intervention development and new long-term plans for
463 retrospective data collection. These outcomes in relation to data collection particularly
464 exceeded our initial expectations and brought new insights to the research team in planning
465 beyond the scope of the original research proposed.

466 The findings of this PPI corroborate previous research which has established that midwives can sometimes attempt to mask the negative effects of work-related psychological 467 distress(Pezaro, Clyne et al. 2015). However, in contrast to this, a unique finding of this work 468 is that midwives can also sometimes seek support from women utilising the maternity 469 services. Here, findings also echo those of other studies where the consequences of work-470 related psychological distress were also found to include a lack of compassion(Sorenson, 471 Bolick et al. 2016), poor workplace behaviours(Lombardo, Eyre 2011), reduced quality of 472 473 care(Krämer, Anna Schneider et al. 2016) and workplace errors(Hall, Johnson et al. 2016). 474 Furthermore, the findings of this PPI emulate those highlighted within the recent national maternity review 'Better Births' (Cumberlege 2016), which likewise established links 475 between poor teamwork, poor professional cultures, poor communication, inconsistency, low 476 477 morale, poor management, a lack of support and poor maternity care. Following on from the Better Births review, a new A-EQUIP model of supervision will incorporate restorative 478 479 clinical supervision for midwives in the workplace (Petit, Stephen 2015). However, the impact of this model is yet to be evaluated. 480

481

The broader qualitative findings presented here offer a strong rationale for the development and evaluation of the proposed intervention, given the impact that work-related psychological distress seemingly has upon the quality of maternity care. This impact is demonstrated by one particular instance where a participant suggests that she "probably wouldn't have needed an

486 epidural" had her midwife been having a good day. As such, future research could usefully
487 explore the depth of this relationship between the quality of maternity care and the
488 psychological wellbeing of midwives.

489

Whilst recent publications highlight maternity staff shortages(Palmer, Brackwell 2014), a 490 paucity of evidence-based support available to midwives(Pezaro, Clyne et al. 2017) and the 491 492 reality of work-related psychological distress in midwifery populations(Coldridge, Davies 2017), this PPI explores how new mothers perceive the reality of these issues at the point of 493 494 receiving maternity care. In addition to this, our findings demonstrate that new mothers would be supportive of a confidential and anonymous online intervention to support 495 midwives in work-related psychological distress. This contribution to knowledge is 496 497 particularly interesting to note, as previous research has highlighted how some professionals may be reluctant to allow the inevitable amnesty which anonymity and confidentiality would 498 permit for midwives seeking support(Pezaro, Clyne 2016). As such, there is now an 499 opportunity to develop, test and evaluate a confidential and anonymous evidence based 500 online intervention to support midwives in work-related psychological distress in line with 501 proposed research plans, and with the validation of maternity service users. 502 As this PPI was qualitative in nature, the research team initially considered employing the 503 Consolidated Criteria for Reporting Qualitative Research (COREQ)(Tong, Sainsbury et al. 504 505 2007). However, the needs, aims and scope of PPI are not the same as for qualitative research alone. For researchers, there is also a dichotomy between simply describing the perceptions 506 of a PPI group within a larger study and publishing these as standalone findings which add 507 new and valuable knowledge to the field. However, it is important to share PPI activity in 508 order to comprehend 'how it works' (Staley 2015). It is also vital to wholly appreciate the 509 perceptions and contributions of PPI groups in order to understand what value these add in 510

shaping the design of future research. In this case, the valuable perceptions of new mothers
have been used to inform future research planning in relation to the development of a
confidential and anonymous online intervention for midwives to be evaluated via an initial
feasibility study and potentially, a future adequately powered trial. Crucially, this PPI has
also been reported so as to maximise the number of perspectives heard.

516 PPI was particularly valuable to this research, as it enlightened the research team to the profundity of the research problem from the perspective of service users. As such, these 517 insights can now be embedded throughout the entire future research programme. Overall, the 518 amelioration of work-related psychological distress in midwifery populations is perceived to 519 be required by this group of new mothers for the benefit of midwives, maternity care and 520 maternity services. Both national and international strategies and frameworks relating to 521 healthcare services tend to focus on putting the care and safety of patients first(Mallari, Grace 522 et al. 2016). Yet these findings suggest that in order to effectively deliver the best care to new 523 524 mothers, the care of the midwife must equally be prioritised. Future research could also usefully replicate this PPI as a qualitative study with mothers from other countries across a 525 range of healthcare settings to assess the transferability of these findings. 526

527 Strengths and Limitations

528 Overall, our aim to include the perspectives and experiences of new mothers in future 529 research and decision making worked well and was carried out in accordance with the principles and indicators of successful PPI involvement in National Health Service (NHS) 530 531 research(2006). In our opinion, the involvement of new mothers to explore their perceptions and in the development of this research proposal was useful and meaningful. Therefore, as 532 guided by the long GRIPP2 checklist(Staniszewska, Brett et al. 2017), the definition of PPI 533 used here was deemed to be appropriate, without need of any changes. However, in inviting 534 new mothers to contribute, the researcher was challenged with trying to engage participants 535

in meaningful and uninterrupted conversations with infants present. As such, noise levels
compromised some audio recordings, leading the researcher to rely on field notes taken
during the group discussion at times.

At this early stage of planning future research, this PPI group may have benefitted from more comprehensive research training to support their decision-making processes in this context. The impact of PPI in this case relates to the voice of new mothers being heard in relation to a unique research problem. This has meant that new research plans will be shaped in line with what matters most to new mothers. Additionally, the impact of this PPI also means that the research, midwifery and healthcare communities are now better placed to improve maternity services in light of new knowledge shared in relation to the perspectives of new mothers.

Two authors (SP and EB) are registered academic midwives. GP is a British Psychology
Society (BPS) Chartered Psychologist, methodologist, and a researcher in co-creation and
patient involvement. In using our multidisciplinary backgrounds to approach this PPI
dynamically, we have been able to strengthen the academic discussions apparent within this
work. However, potential biases may have arisen from personal experiences of psychological
distress in the midwifery workplace and a desire to pursue this line of research further.

552 Whilst this PPI has provided unique insights into the perspectives of new mothers, it is limited by the recruitment of a small homogenous sample, from which it is challenging to 553 554 draw generalizable conclusions. Moreover, these participants have been encouraged to 555 discuss and reflect upon the phenomenon under study in order to pragmatically answer precise PPI questions where they may not otherwise have done so. However, a key strength 556 557 of this PPI is that it has been able to give a voice to new mothers and include this voice within the planning of future research. These voices have also given the research team a far 558 greater understanding of the phenomenon under study, which may be a far more significant 559

problem for maternity services than initially thought, considering some of the unique findings
unearthed here, such as midwives seeking solace in service users. Such discoveries may not
have been realised had midwives or potential end users of the proposed online intervention
been invited to join in PPI activities instead.

INVOLVE briefings state that there is an important distinction to be made between the 564 565 perspectives of the public and the perspectives of people who have a professional role in health and social care services(Involve 2012). As midwives are not considered to be patients 566 under this guidance, we have been unable to include midwives within these particular PPI 567 activities. Yet whilst it may be new mothers who may benefit from psychological support in 568 the maternity workplace, it is also the midwives in work-related psychological distress who 569 could directly gain from an increased quality of life. In this sense, we argue that healthcare 570 professionals should not necessarily be excluded from PPI activities simply because they treat 571 572 patients, especially when they are the direct beneficiary of a certain treatment or intervention. 573 In the context of developing an online intervention designed to support midwives in workrelated psychological distress, the midwife could also usefully be considered to be either a 574 patient or a member of the public in line with more recent guidance(Greenhalgh 2017). 575 Nevertheless, this dichotomy lends itself to further academic discussion. 576

577 Conclusion

These are the first PPI activities to explore the perspectives of new mothers in relation to the barriers to receiving high quality maternity care, the psychological wellbeing of midwives and the provision and evaluation of online support for midwives in work-related psychological distress concomitantly. Here, we have given a voice to new mothers to ensure that their perspectives are heard by the wider research community and incorporated into future research. We have also been able to identify seven PPI outcomes which provide a deeper understanding of the research problem from the perspective of new mothers.

There has been great value in sensitising the research team to the effect that work-related 585 psychological distress in midwifery populations has upon new mothers and their newborns 586 prior to conducting further research in this area. The experience of childbirth should be a 587 positive one. Yet in the eyes of these new mothers, some positive experiences in English 588 maternity services are clearly obstructed by the phenomenon of midwives in work-related 589 psychological distress. The challenge will be to address this problem via future workforce 590 591 research and examine whether the perceptions of new mothers change in light of an effectively supported midwifery workforce. There is therefore a need for future workforce 592 593 research to develop and evaluate an online intervention designed to support midwives in work-related psychological distress considering the PPI findings reported here. Should the 594 results of this research represent broader perspectives, both national and international 595 strategies and frameworks designed to improve maternity care could usefully prioritise the 596 support needs of midwives when prioritising the needs of maternity services users in equal 597 598 measure.

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