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1 Frailty Nurse and GP-led models of care in Care Homes: The role of contextual factors impacting
2 Enhanced Health in Care Homes framework implementation

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16

17

18 **Abstract**

19 **Background**

20 The Enhanced Health for Care homes (EHCH) framework is an innovative response to provide more
21 proactive, preventative approaches to care for residents living in care homes. It involves co-producing
22 a shared vision with primary care. As part of EHCH a UK clinical commissioning group supported GP's in

23 two localities to implement their preferred delivery approach involving a new Frailty Nurse-led (FN-led)
24 model in care homes alongside an existing General Practitioner-led (GP-led) model. This paper focuses
25 on implementation of the new FN-led model.

26 **Methods**

27 A qualitative study design was adopted. Forty-eight qualitative semi-structured interviews were
28 undertaken across six care home sites in a Northern locality: three implementing the FN-led and three
29 engaged in an existing GP-led model. Participants included residents, family members, care home
30 managers, care staff, and health professionals working within the EHCH framework.

31 **Results**

32 Two overarching themes were generated from data analysis: Unanticipated implementation issues and
33 Unintended **consequences**. Unsuccessful attempts to recruit Frailty Nurses (FN) with enhanced clinical
34 skills working at the desired level (UK NHS Band 7) led to an unanticipated evolution in the
35 implementation process of the FN-led model towards 'training posts'. This prompted misaligned role
36 expectations subsequently provoking unexpected temporary outcomes regarding role-based trust. The
37 existing, well understood nature of the GP-led model may have further exacerbated these unintended
38 **consequences**.

39 **Conclusion**

40 Within the broader remit of embedding EHCH frameworks, the implementation of new FN roles needed
41 to evolve due to unforeseen recruitment issues. Wider contextual factors are not in the control of
42 those developing new initiatives and cannot always be foreseen, highlighting how wider factors can
43 force evolution of planned implementation processes with unintended **consequences**. However, the
44 unintended **consequences** in this study highlight the need for careful consideration of information
45 dissemination (content and timing) to key stakeholders, and the influence of existing ways of working.

46 **Keywords**

47 Enhanced health Care homes Frailty Nurse Model GP-led Model Implementation Recruitment

48

49 **Background**

50 Finding ways to meet the health and wellbeing needs of older people (aged over 65) of increasing
51 dependency is a major challenge worldwide (1-4). With aging populations globally (2, 5), policy makers,
52 commissioners of services and care providers are constantly exploring a range of models in an attempt
53 to enhance care (1, 6). Residential facilities such as care homes or nursing homes are one approach to
54 providing care for older adults who are no longer able to live independently, although the organisation
55 and resourcing of care homes may differ across countries(7-9). In 2021 figures showed 17,598 care
56 homes (residential and nursing) operating in the UK, with around 490,000 residents(10). The complexity
57 of health problems occurring in the aging population globally(9, 11) and in care home residents in
58 England and Wales has notably increased over the past twenty years (4), with around 75% of residents
59 admitted to care-homes in 2017 diagnosed with some level of cognitive impairment, multiple
60 morbidity, frailty, sensory impairment, and functional decline (12). However, a key priority remains the
61 reduction of quality concerns and enhancement of care provision in care homes (1, 7, 13, 14).

62 Care home residents rely mainly on General Practitioners (GPs), community nurses and therapists for
63 access to health care or referral to specialist services with such access mediated by care home staff (15,
64 16), however residents often report poor access to health services (17). While GPs are amongst the
65 most frequent health professionals to visit care homes and provide a key first point of contact for the
66 majority of residents health needs, they have highlighted the complexity and difficulties they face in
67 working to support older people in care homes (16). A key aspect of these difficulties relate to the
68 multiple relationships and wide network of people that GPs have to communicate with, compounded
69 by high turnover rates of care home staff which impedes relationship formation and continuity of care
70 (16).

71 In response to this situation, the ‘Enhanced Health in Care Homes’ (EHCH) framework was
72 implemented in 2016, across the UK, as part of the ‘Vanguards Programme’ emanating from the NHS
73 ‘Five year forward view’(18) . The overarching ambition was to create a more integrated and sustainable
74 health and social care system through new ways of working (18). Six EHCH vanguard sites were
75 commissioned across England (17). The EHCH framework was proposed as a strategic approach, aimed
76 at providing care home residents co-ordinated and proactive care, centred on the needs of individual
77 residents, their families, and care home staff (17). With seven core elements all requiring progress, the
78 framework purported to champion a whole-systems approach by co-producing a shared vision and
79 strong leadership (18, 19) .

80 In 2017, Baylis and Perks (17) explored learning from the pilot EHCH vanguards via interviews
81 with 30 individuals working across 15 local authority areas, reporting that the pilots prompted
82 development of multi-disciplinary teams, the training of care home staff by a range of primary health
83 care professionals, and promotion of integrated care . However, the need for a cultural shift to develop
84 an understanding of changing roles and shared ownership of responsibilities for the care of residents
85 was identified. Leadership, sensitivity to local contexts, care processes and relationships, delegation
86 and development of trust, and investing time in clarifying aims and objectives through an inclusive
87 process were highlighted as key areas (17). While Baylis and Perks (2017 p.56) recommended that ‘*all*
88 *areas of England should develop enhanced health in care homes because doing so can bring significant*
89 *benefits*’, they also noted that momentum would need to be maintained after the end of the vanguards
90 in 2018 (17).

91 While new and changing roles emerged as part of the EHCH vanguards, the introduction of a
92 new role in primary care is complex and intentions, involvement, communication, and acceptance are
93 key to the implementation process (20, 21). Furthermore in relation to the vanguards, Coleman et al.,
94 (2020) found inherent tensions between the bottom-up nature of the vanguard programme which
95 encouraged development of enhanced care home initiatives relevant to local contexts (such as new

96 roles), and the overall push for 'generalisable' frameworks suitable for wider roll out (18). They
97 suggested that the environment in which new initiatives are to be implemented should be considered
98 and shaped with realistic goals, with a need for desired outcomes to be clear at the outset (18). Indeed,
99 the effectiveness, barriers, and facilitators for interventions integrating health and social care, such as
100 EHCH, rely heavily on context (22), which it could be argued are complex and dynamic and ever-
101 changing, and requires a receptive environment (23). This resonates with much implementation science
102 literature which highlights context as a key issue in the introduction and embedding of new initiatives
103 in complex settings(24-26). While some research into the role of GPs in care homes (15, 16) has been
104 undertaken, there has been limited focus on the implementation of new ways of working and new care
105 models in care homes (18, 22, 23, 27-29). Against this backdrop the current study aimed to explore the
106 embedding in care homes of a new Frailty Nurse-led [FN-led] model of care, alongside an existing
107 General Practitioner-led [GP-led] model. This was prior to the subsequent implementation of Primary
108 Care networks.

109

110 **Methods**

111 **Design**

112 A qualitative design was adopted drawing on principles of interpretivism. This approach enables the
113 researcher to look beyond the descriptive to unpick and explore the process which emerge. This 18
114 month study is part of a larger project utilising a convergent parallel mixed-methods design (30). This
115 paper reports on the qualitative elements of the study only. This study was approved by the NHS IRAS
116 ethical approval committee (Reference: 262720).

117

118 Participants

119 This study is based in one Clinical Commissioning Group (CCG) area in Northern England. Four localities
120 within the area were given additional funding to implement the EHCH project. Two models were
121 proposed across the four localities to underpin the EHCH: FN-led and an existing GP-led model.

122 Both models were integrated as part of the local primary teams; the original FN model evolved into a
123 training post (TFN -see findings) with role holders reporting to the Frailty team on a weekly basis as part
124 of their training which also included studying appropriate modules at a local University (e.g. prescribing).
125 Therefore, until they gained relevant qualifications and/or confidence they contacted their assigned GP
126 practice for prescribing but carried out baseline observations as part of their diagnostics to inform GPs
127 as required.

128 In this study, the term 'care home' is used to describe both nursing and residential homes. The sample
129 of care homes for this study (N=6) from a total of 30 care homes participating. The six care homes were
130 purposively selected to generate variation in terms of model, size, and location of the care home (Table
131 1). All but one participating care home was dual registered (i.e., they were able accommodate both
132 nursing and residential residents) and one operated as a nursing home only. In summary, three care
133 homes from two localities volunteered to participate in implementation of FN-led model and a further
134 three care homes from two localities remained with their existing GP-led model.

135 Participants were eligible to take part in this study if they were: a resident or family member of a
136 resident, care home manager, care staff, health professional working as part of this structure (including
137 system leaders such as Directors, FNs, GP specialists, GP project support staff). Staff working in single,
138 or multiple care homes were eligible for participation. All participants were over 18, had capacity to
139 give full informed consent, and spoke/read English. Care home managers/staff identified participants
140 with capacity for the research team. A total of 47 individuals participated (Table 1).

141

142 **Table 1: Participant details**

Job / Role	Number of participants
System leader	4
Primary Care Team	2
Care home manager	4
Care home resident	7
Family member	6
Frailty Nurse	3
GP	3
Senior carer / carer	13

143

144 **Data collection**

145 Research information was mailed to Registered Care Home managers, followed by a telephone call
146 approximately seven days later, allowing researchers to explain details and answer questions.

147 Where Registered Care Home managers agreed for the home to participate, information was then
148 distributed to relevant staff, residents, family members, and health professionals. Care home
149 participation was separate to individual participation. All individuals were able to decline participation
150 without any impact on their work/care. Those indicating interest were sent consent forms and
151 interviews arranged. To develop a more detailed understanding of role development, FNs and FN Leads
152 were interviewed at three separate time points, beginning, middle and end across the project. This time
153 period allowed for FNs to build relationships and trust.

154 Drawing on existing literature, multi-disciplinary team expertise, and prior experience, a semi-
155 structured interview topic guide was developed for all stakeholders, consisting of several broad open-
156 ended questions covering; ongoing activity regarding the EHCH framework implemented in their care
157 homes; how this new way of working was organised; discussion of any changes to care (proactive and
158 reactive), exploration of benefits and barriers to the EHCH framework. Participants were encouraged to
159 talk freely and raise issues they felt were of importance. Most interviews were face-to-face (n=39) with
160 a small number via telephone (n=8). All interviews were audio recorded and transcribed verbatim.

161 Reflexive, inductive thematic analysis was undertaken following the steps outlined by Braun and Clarke
 162 (31-33). The analysis was informed by the seven key themes identified within the NHS framework(19).
 163 ZS analysed all transcripts. Initially, the analyst immersed themselves within the transcripts before
 164 generating initial codes and subsequent themes (31). Analysis aimed to go beyond simple description
 165 of participants experiences, to abstract and unpick the bigger picture regarding what happened during
 166 the implementation process. To enhance data analysis rigour, sample transcripts (n=6) were circulated
 167 to team members (ZS, AS, GWM) who undertook initial individual coding of transcripts taking into
 168 consideration the project aims, commonalities, discrepancies, unusual and unexpected issues. This
 169 was followed by two meetings to discuss and agree codes which were reapplied to all transcripts by
 170 one team member (ZS). A final team meeting discussed, interrogated, and agreed the final themes. All
 171 methods were carried out in accordance with relevant guidelines and regulations.

172

173

174 **Results**

175 Two themes were generated from the data analysis: Unanticipated implementation issues and
 176 Unintended consequences, each with two sub-themes (Table 2).

177 **Table 2: Summary of Results**

Unanticipated implementation issues	Recruitment challenges Additional support and education
Unintended consequences	Misaligned role expectations Trust and relationship building

178

179 **Unanticipated implementation issues**

180 *Recruitment challenges*

181 A key part of the EHCH implementation process was recruitment of staff to the newly developed FN
182 role. However, stakeholders found themselves facing unanticipated challenges in recruiting staff at the
183 desired level (UK NHS Band 7 level) and failed to fill these advertised roles.

184 *'We advertised for [x number of] nurses...but it very quickly became*
185 *apparent that the workforce wasn't there, at that band seven, community*
186 *matron-type level. ... then over a shortish period of time we went out for*
187 *further recruitment'* (FN-led Model, Participant 1: System Leader)

188 Consideration of these recruitment issues, alongside local budgets, and programme timescales,
189 resulted in a strategic decision to re-advertise as 'Trainee' Frailty Nurse (TFN) posts at a lower level (UK
190 NHS Band 6). Thus, the posts evolved to be training positions in which appointees could develop and
191 grow to fit the local context. These unanticipated contextual factors changed the model from a FN-led
192 model to a TFN-led model and prompted a series of unintended programme **consequences**.

193 Senior care staff and care home managers recalled receiving information about the implementation of
194 EHCH and the planned appointment of FNs. They were enthusiastic, viewing the FN-led model as a
195 positive change.

196 *'We had great expectations, because we were finding a lot of problems*
197 *with contacting doctors'* (FN-led Model, Participant 15: Care Home
198 Manager)

199 However, care staff seemed unaware of the subsequent change from FNs to TFNs and the additional
200 educational element to the role that was needed because of these changing posts. This 'mismatch' of
201 information disseminated originally and the evolution of the role to a training position led to
202 unintended consequences, uncertainty, and confusion regarding the role parameters of TFNs. There
203 was also a perception that recruitment of staff to TFN roles could have involved greater targeting of
204 existing staff from within the care homes themselves.

205 *'Whoever thought of the scheme, should maybe have gone round all the*
206 *trial homes that they're trying out in, and saying have you got anybody*
207 *that you think fits the bill, that might like to do this role?'* (FN-led Model,
208 Participant 15: Care Home Manager)

209

210 *Additional support and education*

211 Due to the evolution from the FN-led to TFN-led model, various support mechanisms were implemented
212 to assist the new trainees in gaining relevant skills and knowledge and in developing the role. Extra
213 support was instigated both in practice settings and through access to university courses leading to the
214 required qualifications.

215 GP frailty specialists and specialist frailty leads were recruited as part of the TFN support team and
216 facilitated individual personal development plans, peer support mechanisms alongside delivering
217 weekly education sessions to the TFNs. Whilst undertaking this training, TFNs were limited in the clinical
218 activity, such as assessments, they could undertake.

219 *'Once I've done my clinical skills – my skill level will be higher than that*
220 *of the current nursing staff. And I will then go and listen to the chests*
221 *and say, yeah, I'll get the GP to prescribe some antibiotics. But, at the*
222 *minute, I don't have any more skills than the nursing staff'* (FN-led
223 Model, Participant 9: TFN)

224 TFNs were regularly mentored and for the first six months, were supported by the FN Lead to develop
225 their role in context. This was also linked to preparing for future statutory national drives regarding
226 specialty care requirements for the ageing cohort these nurses were working with. This support was
227 helpful to all TFNs and the wider team, given they came to the posts without formal frailty training.

228 *'...Only one of them was from that [frailty] background. But they all have*
229 *been looking after older people ... It was getting one-to-ones, getting*
230 *team meetings... Making them be safe from a nursing perspective. And...*
231 *the way that they worked in this medically driven primary healthcare*
232 *federation world'* (FN-led Model, Participant 11: Primary Care Team)

233

234 **Unintended consequences**

235 *Misaligned role expectations*

236 The evolution of the 'trainee' role led to misalignment and confusion regarding what the FN role
237 entailed, leading to temporary unintended **consequences**. There was a general uncertainty about the
238 TFN role, which was often compared to a GP role. The narratives below illustrate staff perceptions
239 regarding role expectations and TFN duties, and it is interesting to note that the care home manager in
240 the second quote seems not to understand, or is unaware, that the TFN is already a registered nurse:

241 *'The very first time I [met the FN I] didn't really understand what [the role]*
242 *was. The next time I think it was... She explained what it is... that it's not a*
243 *GP, but it's sort of a high... Like, she used to be a nurse... But then they do*
244 *something like 98% of what a GP does or something'* (FN-led Model,
245 Participant 22: Care staff)

246

247 *'[The FN] cannot put in any real input into the home...It's a misleading*
248 *perception to everybody...Frailty Nurses...The contents don't do what the tin*
249 *says. And for me... I find it misleading because if you went into a hospital and*
250 *someone had on their badge that they were a nurse, and they were actually a*
251 *carer... You know, they were working towards being a nurse, and you thought*

252 *that person was a nurse - how would you feel about that?'* (FN-led Model,
253 Participant 15: Care Home Manager)

254 Care staff from the TFN-led model felt misinformed about the role, remit, and responsibilities of the
255 TFNs, which made them feel less trusting of decisions and judgments regarding residents' care. Staff
256 were mostly unaware of the educational and developmental requirements within the trainee's role,
257 and this led to unintended consequences of uncertainty and confusion. Some care staff expressed a
258 preference for a GP-led model, as they perceived GPs as having the ability to provide immediate
259 treatment and being unable to refuse requests to visit residents.

260 *'I don't think [the FN has] relieved us from doing anything. Now, I think*
261 *if we had a GP coming into the home every day - oh, what a fantastic*
262 *difference that would make to us. Because we could say to them, oh,*
263 *we've got so-and-so, who we think is a bit poorly... Can you have a look*
264 *at them? Now, I think that would be fantastic'* (Participant 16, Care
265 Staff: FN-led Model)

266 The lack of understanding led to unintended consequences of mistrust regarding the (T)FN role, despite
267 efforts of system leaders to provide a dedicated team to train the TFNs and disseminate information
268 about their remit and development. Conversely, positive experiences of the existing GP-led model were
269 perceived to be directly linked to GP credibility and familiarity with the GP role.

270

271 *Trust and relationship building*

272 Relationship building was pertinent for resident care, staff development, and multi-agency
273 relationships. Many stakeholders felt that the overall EHCH framework (covering both FN-led and GP-
274 led models) helped to facilitate relationship building through (optional) care home alignment, i.e.,
275 supporting care home residents in each care home to join a specific GP practice. Its advantages included

276 consistency of the FNs, GPs, or Practice Nurses visiting care homes, although this alignment took
277 commitment from all stakeholders to execute.

278 *'I know my client group. I know when they're well, and I know when*
279 *they're not well. And because I know them and their family, I think I'm*
280 *better positioned than the GP so that I can feedback'* (FN-led Model,
281 Participant 9, FN)

282 *'I can see if somebody is deteriorating. You know, if somebody with*
283 *dementia is getting suddenly more confused - a GP that doesn't know*
284 *them might think, oh, they're just getting worse dementia. Whereas I*
285 *would know that probably there's a delirium there. And... And it may*
286 *need to be actioned with some investigations or, you know, sort of,*
287 *checking things out. It's great continuity. It means we can, as we've*
288 *been saying, be more proactive with care'* (GP-led Model, Participant
289 25, GP)

290 Whilst the EHCH framework supported consistency through GP alignment, some inconsistencies were
291 still experienced, particularly when GPs visited care homes on an ad-hoc basis.

292 *'Because we used to get various GPs, and they didn't know who the*
293 *individual [resident] was....So, now we've got a regular GP, we're all on*
294 *the same wavelength'* (GP-led Model, Locality B, Participant 37: Care
295 Staff)

296 Care staff, residents, and their families felt that relationships were developed because of regular and
297 consistent visits made by the TFNs or GPs in each model.

298 Alignment to GP practices was encouraged but was not mandatory and it was sometimes difficult for
299 care staff to engage with those 'outlying' GP practices where residents had not moved to the aligned

300 Gp practice. Care for these residents was particularly difficult as aligned GP practices were unable to
301 access patients records if that resident was not registered in their practice.

302 *'Not all of the residents are part of the surgery who's aligned to us. So,*
303 *we've got three other surgeries who... We find very difficult to get them*
304 *to come in'* (GP-led Model, Locality B, Participant 12: Care Staff)

305 Relationship building was also central to staff development through improved information sharing and
306 proactive care; central components of the EHCH framework. In the narrative below a TFN explained
307 how their alignment to one care home enabled them to make change and reduce falls. This was made
308 possible through familiarity with the care home, its staff, and residents.

309 *'You can see through the investigation of them if there's any recurrent*
310 *places that they fall. Or recurrent reasons. And the lounge was one of...*
311 *It tended to be one of the main areas... And made the biggest*
312 *impact...stuff'* (Participant 9, FN-led model)

313 Not all information sharing was positive, sometimes a lack of consistency in communicating information
314 which was felt to impact resident care negatively.

315 *'If [the FN] doesn't document, then that could lead to problems. So, I*
316 *think she needs to keep up with documentation when she's done*
317 *anything at all, to writing the doctor's notes, the MDT notes... the family*
318 *notes. Or if there's something she needs to handover – put it in the book*
319 *for the nurse. Or leave a note for the nurse. You know if it's not written*
320 *down, it's not done'* (Participant 15, Care Staff: FN-led Model)

321 This documentation was critical for residents' care. As part of the GP-led model, GPs also suggested
322 that frequent care staff changes, including Registered Managers, negatively impacted establishing key
323 information about residents, for example, in Emergency Health Care Plans (EHCPs). It was felt that this

324 was due to a lack of time care staff had spent with residents and this was why some care staff could
325 not provide a comprehensive account of resident issues.

326 In relation to the existing GP-led model, the care staff felt they had strong relationships with GPs,
327 residents, and their families, and the regular visits empowered staff. For example, care staff were
328 trained to adhere to the *'watch and wait'* policy and take responsibility for closely monitoring residents
329 and recognise illness early.

330 *'[The watch and wait policy] quite a complex issue, the carers wouldn't*
331 *recognise early illness. So, then, the person would be quite poorly by the*
332 *time they got a GP to come out and visit them'. (Participant 10: FN, FN-*
333 *led model)*

334 Relationship building across the multi-disciplinary team also strengthened communication with
335 residents and their families, as they fulfilled their requirements to complete EHCH documentation e.g.,
336 end of life care plans. There were reports of enhanced care for residents within both models. Care staff
337 explained that a close working relationship with GPs helped them to understand their roles and
338 responsibilities, but more significantly they were preparing observations and acting sooner to resident
339 care needs because they were aware of GPs visiting regularly.

340 *'So, working with them a bit closer, and more regular, it makes you*
341 *understand what they're do and what they can and can't do' (GP-led*
342 *Model, Participant 37: Care Staff)*

343 Unlike with the existing GP model, an issue that impacted relationship building and affected trust was
344 the misalignment of the TFN role, as discussed above. Despite wider strategic efforts to promote
345 preventative care and support TFNs within care homes, care staff were uncertain, and somewhat
346 untrusting, of the trainee role. Judgements were questioned, and this created tensions between the
347 care home and TFNs.

348 *'Yes, because we know what's going on... But she seems to be looking*
349 *after the wrong ones, instead of concentrating on the ones that are*
350 *really poorly, you know. I don't know what more I can say, really,*
351 *because...'* (Participant 21, Care Staff: FN-led Model)

352 Uncertainty and mistrust were exacerbated by a lack of awareness or understanding regarding the
353 evolution from the autonomous FN role initially portrayed to that of trainee.

354 Despite the ongoing issues, the operationalisation and implementation of both models aimed to
355 support proactive care through alignment that ultimately led to relationship building. As a GP describes
356 below, the benefits outweighed the weaknesses in the framework because they were developing a
357 close working relationship with the care staff through policy, education, and guidance.

358 *'I think the staff really appreciate it. And there is an opportunity for a*
359 *bit of education and support of them. Because they have a very heavy*
360 *burden as well. You know, they're dealing with some very poorly*
361 *patients'* (GP-led Model, Participant 25: GP)

362

363 Discussion

364 This qualitative study aimed to explore the **embedding** of EHCH framework via the development of an
365 FN-led model, however unanticipated contextual and relational issues impacted on the process and
366 outcomes. Implementation and quality improvement science approaches acknowledge the importance
367 of context in complex settings such as care homes, offering useful lenses for considering findings (13,
368 26, 34-37). Normalisation process theory (NPT)(35, 38) has been widely used to illuminate process and
369 context issues in the implementation of new practices (35, 39, 40) including in care homes(41). NPT
370 consists of a framework of four constructs core to normalisation: Coherence-sensemaking; Cognitive
371 Participation-working out participation; Collective Action – doing it; and Reflexive Monitoring-
372 appraising the effects(35). The Alberta Context Tool (42) which measures organisational context via 8

373 domains (including resources, communication patterns and interactions) has also been used to assist
374 mapping of contextual elements influencing the implementation of care delivery initiatives(34).

375 A challenge to implementation of the new FN model was recruitment of staff at the desired level (UK
376 NHS Band 7) because of a lack of sufficiently experienced or skilled applicants. Therefore, the initiative
377 evolved with the role being revised to a 'training' position FN-TFN (UK NHS Band 6) necessitating
378 development of a support package for the TFNs. Although in a different context, Nancarrow et al.,
379 (2015) identified several mechanisms to facilitate the implementation of a trainee role with positive
380 outcomes. These mechanisms included supporting existing staff, clearly defined role and delegation
381 boundaries, consultation and engagement and a targeted recruitment approach via a traineeship
382 approach (30). This 'traineeship' approach, supported by the Frailty Capability framework (50) may be
383 a useful consideration for others.

384 The change from qualified FN to trainee also led to confusion for some key stakeholders as information
385 had already been disseminated regarding appointment of fully qualified FNs, thus raising expectations.
386 In addition, the FN-TFN role was implemented alongside an existing GP-led model, which may have
387 exacerbated a 'rippling effect', regarding role expectations, relationship building and trust issues. Thus,
388 for some the project perhaps no longer made sense or had 'coherence' and their cognitive participation
389 may have waned(40). Such confusion may have also prompted a sense of conflict between their
390 understandings of the original goals of a FN post and those of the trainees who were appointed.
391 Consistent understanding of goals (i.e. coherence around roles and responsibilities) may result in higher
392 levels of work engagement (collective action) and increase work motivation and job satisfaction (43). It
393 is also crucial to recognise role assimilation to better align staff with goals and increase the commitment
394 (and collective action) needed to enable role stability (44, 45).

395 Coleman et al (2021) used Matland's (1995) ambiguity-conflict model to explore large scale top-down
396 policy implementation with a focus on Vanguard research, concluding that the model indicates the
397 need for programme goals and potential conflicts to be raised and considered(18). We suggest that

398 Matland's model could provide a useful tool in identifying and accounting for would-be conflicts when
399 developing goals (e.g. between expectations for fully qualified vs trainee posts) (18). In addition,
400 drawing on the ACT tool and stakeholder consensus groups, Bunn et al (2020) recently analysed
401 research from Vanguard areas and developed a ten-question framework for promoting conversations
402 between stakeholders around implementation of interventions in care homes(34) which may also be
403 useful in future initiatives. A 'launch' strategy to factor in 'timing and content' of information and the
404 feasibility of delaying information dissemination until recruitment is complete could be also considered
405 when introducing new roles and may mitigate unintended consequences.

406 As seen in this study unintended implementation issues can impact on relationships and trust, as
407 information 'trickles down' amongst care home management staff through formal and informal
408 interactions (42). Perceptions of insufficient communication after the decision to change the role
409 definitions to that of trainee appeared to create tensions between professional boundaries(21).
410 Interpersonal trust is reciprocal and may be difficult to re-gain once broken and is therefore important
411 to consider. Trust is informed through relationships, however as Bunn et al (2020) noted, relational
412 working requires support and time to develop(35). Another structured process that may support such
413 challenges and improve trust are quality improvement collaboratives (QICs); these bring together
414 multidisciplinary teams in a structured way to improve care quality. For example, in a study by Devi et
415 al., 2021 care staff stated that that people did not take notice of what they had to say because they
416 were not employed by NHS staff. Thus recruiting collaborative members experienced in working in care
417 homes to team meetings and discussions may support goal clarity (coherence), relational working and
418 reduce conflict (13), thus potentially mitigating challenges such as those faced by TFNs. The use of
419 implementation models may have also helped to establish key challenges and plan mitigation measures
420 from the outset.

421 Although introduction of the FN can be viewed as an example of direct role substitution (13, 18, 46, 47)
422 modifying the role to that of trainee altered intended skill mix dynamics. While skill mix can enhance

423 quality of patient care it takes effort to implement and maintain(21, 46, 47). This highlights the
424 difficulties for strategic leaders and commissioners who may wish to appoint to a new role but cannot
425 completely know the pool of staff from which they are trying to recruit, or all the nuances of the wider
426 workforce context. The shortage of supply of experienced, qualified nurses and high turnover of nursing
427 staff in adult services are longstanding issues (48), however this should not preclude the development
428 of new roles and models of care such as the EHCH framework. Indeed, despite the initial setbacks a skill
429 mix can enhance the quality of patient care (19, 21, 30). New roles such as the FN may be attractive to
430 staff looking for new challenges or career change. Whilst previous vanguard studies also report
431 specialist primary care role developments have been challenging (19), we were unable to find studies
432 that report on recruitment difficulties, making this study distinctive.

433 Despite the implementation issues **this study has indicated, in** line with the EHCH (19) aims, that the
434 regular **weekly** visits from the TFNs and GPs in the care homes (including staff, residents, and their
435 families) allowed for consistent and continuous care of residents, particularly proactive care, continuity
436 of care, and **advance** care planning, due to a better understanding of the resident health needs. Two
437 further core elements were identified as being effective in the EHCH framework (19) from national
438 vanguards: *“Joined-up commissioning of health and social care, and collaboration across the health and
439 social care system (as well as between individual care homes, GP practices and community teams)”* and
440 *“workforce development, including consideration of training needs and new roles working across
441 organisational boundaries”* because of care home alignment. This is a common theme across multiple
442 vanguard evaluations which supports the importance of multidisciplinary, partnership working and
443 good relationships between care home staff and other professional groups (16, 49). Cook *et al.*, (2017)
444 reported the importance of relationship building between care home residents and staff, as staff used
445 multiple forms of information to inform decisions about the management of residents’ care(50). This
446 baseline understanding of the person as a whole, and intuition of changes, enabled individuals to
447 provide proactive care (51). In addition, providing nurturing opportunities to new roles, for educational

448 purposes, building social capital may result in better outcomes for key stakeholders involved (52)
449 highlighting that the project team effectively responded to the changes.

450

451 **Conclusion**

452 The EHCH framework ensures care home residents receive co-ordinated, proactive care, centred on
453 the needs of individual residents, their families, and care home staff. This framework was implemented
454 and evaluated in this current study with a view to reflect on future commissioning intentions and
455 national developments with the advent of Primary Care Networks (date). The findings highlighted the
456 complexity of the EHCH framework focussing on the new TFN role model, and its implementation
457 strengths and weaknesses. Unanticipated implementation issues, namely recruitment challenges and
458 additional support and education were identified. In addition, unintended consequences were
459 identified as a result, misaligned expectations and trust and relationship building. Despite these
460 challenges, data from this novel 18 month study illustrated that over time, as relationships seemed to
461 develop between TFNs and care staff, the role and associated remit became more accepted and
462 understood and enhanced quality of care for care home residents.

463

464 **Declarations**

465 **-Ethics approval and consent to participate:**

466 Informed consent was obtained by all participants in the study. Ethics approval obtained from Social
467 Care Research Ethics Committee.

468 Address: Health Research Authority, 2 Rednan Place, Stratford, London, E20 1JQ.

469 NHS IRAS ethical approval reference 262720.

470 **-Consent for publication:**

471 Not applicable

472 **-Availability of data and materials:**

473 Data can be made available if someone request the data from this study. Please email

474 zeb.sattar@northumbria.ac.uk

475 **-Competing interests: There are no competing interests**

476 -Funding:

477 Not applicable

478 **-Authors' contributions:**

479 ZS prepared the main manuscript text and prepared tables 1 and 2. ZS, AS and GM sampled transcripts.

480 All authors reviewed the manuscript.

481 **-Acknowledgements:**

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483

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