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Extended training to prepare GPs for future workforce needs: a qualitative investigation of a one-year fellowship in urgent care.

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18 **Abstract**

19 **Background:** It has been argued that UK general practice specialist training should be extended to
20 better prepare GPs for the challenges facing 21st century healthcare. Evidence is needed to inform
21 how this should occur.

22 **Aim:** To investigate the experience of recently trained GPs undertaking a one-year fulltime
23 fellowship programme designed to provide advanced skills training in urgent care, integrated care,
24 leadership and academic practice; and its impact on subsequent career development.

25 **Design and Setting:** Semi-structured interviews conducted longitudinally over two years augmented
26 by observational data. West Midlands, England.

27 **Method:** Participants were interviewed on at least three occasions: twice while undertaking the
28 fellowship, and at least once post-completion. Participants' clinical and academic activities were
29 observed. Data were analysed using a framework approach.

30 **Results:** Seven GPs participated in the pilot scheme. The fellowship was highly rated and felt to be
31 balanced in terms of the opportunities for skill development, academic advancement and
32 confidence-building. They experienced enhanced employability on completing the scheme, and at
33 follow-up were working in a variety of primary care / urgent care interface clinical and leadership
34 roles. Participants believed it was making general practice a more attractive career option for newly
35 qualified doctors.

36 **Conclusion:** The one-year fellowship provides a defined framework for training GPs to work in an
37 enhanced manner across organisational interfaces with the skills to support service improvement
38 and integration. It appears to be well-suited to preparing GPs for portfolio roles, but its wider
39 applicability and impact on NHS service delivery needs further investigation.

40 **Keywords:** General practice, vocational training, service integration, portfolio career, urgent care

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47 **How This Fits In**

48 New approaches to training are needed to better equip GPs for the challenges of 21st century
49 healthcare, but there is little evidence to inform how these should be designed. This study
50 investigated the experience of recently qualified GPs participating in a one-year fellowship that
51 involved structured placement-based learning together with a university-accredited educational
52 component. It was designed to prepare GPs to work at the interface between primary care and urgent
53 care services. The participants described numerous benefits in terms of academic, clinical and
54 leadership skill development, and subsequent employment opportunities. This model has the
55 potential to deliver significant benefits to the NHS and those entering the GP workforce, and could be
56 adapted for extended GP training.

57

58 Introduction

59 The health service in the UK is facing unprecedented difficulties reflecting the needs of an aging
60 population with increasing levels of complex multi-morbidity, budgetary constraints and changing
61 organisational arrangements. A workforce crisis is affecting general practice and emergency care,
62 with ever-increasing difficulty in recruiting and retaining staff¹. Growing numbers of GPs are
63 considering early retirement, career breaks, relocation or reducing their hours of working²⁻³.

64 It is argued that new models of care are needed, together with a workforce that is better equipped
65 for working in a more integrated health system⁴. The NHS Five Year Forward View anticipates
66 integrated networks of GP practices, nurses, community services and hospital specialists working
67 collaboratively to provide “joined up” care, supported by interface clinicians who have been trained
68 in one specialism but work across health economies⁵⁻⁷.

69 The emergence of new models of care and closer inter-agency service delivery are creating
70 opportunities for professional development and a need to re-think current arrangements for medical
71 education and training. The GP 5-Year Forward View⁸ and Primary Care Workforce Commission⁹
72 provided a policy framework for developing a primary care workforce that has access to enhanced
73 and extended training. GPs are needed with the skills to lead, change and coordinate services across
74 organisational boundaries and professional groups¹⁰⁻¹¹. The Shape of Training Report¹²
75 recommended greater workforce flexibility through the development of “*formal accreditation of*
76 *competences (which include knowledge, skills and performance) in a defined area of practice, at a*
77 *level that provides confidence that the individual is fit to practise in that area...*” Such credentialing
78 opens the doors for the development of enhanced competencies through educational programmes
79 (such as fellowships) based on service need.

80 In response to these challenges, a one-year fellowship programme was launched in the West
81 Midlands, England, with the aim of providing advanced skills training in urgent care, integrated care,
82 leadership and academic practice to GPs who are within two years of having gained their certificate
83 of completion of vocational training (CCT). Seven GPs completed the pilot for the scheme in
84 2014/15; here we report a longitudinal, qualitative evaluation of their experience and its impact on
85 their subsequent employment.

86

87 Method

88 Fellowship Design

89 The aims and intended outcomes of the programme are summarised in Box 1. The programme was
90 delivered through three complementary elements: 1) two days a week clinical attachments, each of
91 four month’s duration in an emergency department, a medical admissions unit and an ambulance
92 service; 2) two days a week within a GP training practice and 3) one day a week undertaking
93 academic study, which included a bespoke postgraduate certificate in Urgent and Acute Care and
94 participation in an action learning set.

95

96 Recruitment

97 GPs were recruited to the fellowship via national advertisement in two phases, with the first three
98 enrolling in January 2014 and a further four in August 2014. They were subsequently invited to take
99 part in the evaluation and received introductory information about the proposed methodology and
100 their consent to participate was sought.

101

102

103 Data Collection

104 Each fellow was interviewed on at least three occasions: twice while undertaking the programme
105 (during the first six months and again towards the end of the year), and additionally at six and 20
106 months' post-completion for the January 2014 cohort and at 12 months post-completion for the
107 August 2014 cohort.

108 Interviews were carried out by RR and FH (both of whom were independent to the fellowship scheme)
109 and arranged at convenient times, either face-to-face or by phone. They were semi-structured and
110 varied in length from 15-50 minutes. The first interview explored individual aims, expectations and
111 early experience of the fellowship, while the second covered the fellow's overall experience, with
112 particular attention given to working across organisational interfaces, service improvement projects,
113 academic development, leadership and future career plans. The interviews conducted after
114 completion of the fellowship explored how the training had influenced employment opportunities and
115 career intentions.

116 In addition, observational data was collected at each of the clinical settings of fellows' activities and
117 interactions in order to contextualise the interview data. Using an observation checklist, we recorded
118 evidence of teamwork, integrated care working, communication across settings, teaching and
119 academic activity.

120

121 Data Analysis

122 All interviews were recorded verbatim, transcribed and anonymised. To maintain anonymity, the
123 fellows were randomly assigned a unique identifier 1-7; qualitative quotes in this paper are attributed
124 to these identifiers. A framework approach¹³ was applied to analyse data. Two researchers (RR and
125 FH) listened and re-read audio transcripts familiarising themselves with the data. Data were then
126 coded using both a deductive and inductive method to allow for exploration of unexpected findings
127 coupled with pre-determined themes ensuring important aspects were not missed. Variation in
128 experience and views at one interview and subsequent interviews were noted. Any differences in
129 interpretation were discussed, reviewed and resolved, involving when required other members of the
130 research team. NVivo software (version 10) was used to interrogate the data and facilitate a
131 framework matrix. Qualitative quotes were identified to illustrate each theme.

132

133 Ethical Approval

134 University of Warwick's Biomedical Sciences Research Ethics Approval and NHS R&D approval were
135 obtained.

136

137 Results

138 All seven fellows participated in the evaluation, giving 24 interviews in total. The overarching
139 themes related to fellows' expectations; experience of professional development, academic training
140 and service integration and improvement; and subsequent career activity. With few exceptions,
141 fellows' views about the scheme were very positive and remained unchanged across the two
142 interview points during the fellowship year.

143

144 Expectations of the scheme

145 All participants described having been attracted to the fellowship scheme as an early career
146 opportunity to gain experience and skills that went beyond those obtained in vocational training,
147 particularly in relation to understanding the roles and expertise of primary care professionals

148 working across the urgent and emergency care system. Generally, this reflected personal ambitions
149 to develop a portfolio career within which urgent care would be a key aspect. The elements of the
150 programme were viewed as being varied and well-balanced in terms of developing a breadth of
151 competence and self-confidence.

152 *“.... potentially open up another scope of practice to me, to try and improve the chances of*
153 *working in an acute and urgent care environment.” (1)*

154 *“I have never worked with a paramedic before.....I wanted to find out what they do and what*
155 *barriers they have, what is their role, and see what I can do to make things better.” (5)*

156

157 **Experience of the professional development and service improvement activities**

158 *Service improvement and integration*

159 The fellows felt that they were benefiting patient care and contributing to service improvement and
160 integration in several ways: through the impact of their clinical work, the varied interaction with
161 colleagues in urgent/emergency care and primary care settings, and by undertaking service
162 improvement projects. They felt that the fellowship was changing the way that they worked, their
163 understanding of the healthcare system, and in particular their capacity to help patients receive care
164 in the community and avoid hospital admission.

165 *“It has had a huge impact on my practice. You see the total care. If you are just working in*
166 *isolation you don’t see it. [As a result of the fellowship] you get a better perspective on the services*
167 *and the care and what you can do.” (4)*

168 *“The impact was more on my own learning... and it has made a difference to my practice in*
169 *the community. An example of this is the way I see elderly patients in nursing homes and look after*
170 *the step-down patients just out of hospital - so the experience is helping to manage those patients.”*
171 *(7)*

172 *“I don’t have the data but my admission rate is lowest. It is quite a lot less than the other GPs*
173 *who work in the system who have not done the fellowship.... I think this is because we have more of a*
174 *360 degree perspective of working in medicine, A&E and the community.” (6)*

175 This fellow went on to explain that *“it is completely different working as a GP in A&E to working as a*
176 *trainee in A&E, it is completely different, and I think getting that experience on the ground is*
177 *invaluable really.... understanding the way that services are set up really helped me moving forward*
178 *with the things I am doing because now I have that understanding”.* (6)

179 They also had greater awareness of the barriers to delivering integrated care. For example, with the
180 requirement to treat patients within designated time frames, some fellows experienced
181 organisational barriers in emergency departments (EDs) when trying to implement alternatives to
182 patient admission.

183 *“In terms of the 4-hour target....they are more focused on that and they don’t see anything*
184 *outside that. So there were barriers me saying, ‘you know if you don’t do this, if you don’t admit*
185 *this patient, then the NHS has saved what a £1000 per night per patient, so why don’t you send them*
186 *home’.” (5)*

187 There were numerous examples of how the programme was felt to be helping patients to access
188 community-based and specialist services more efficiently, avoid attendance at EDs or unplanned
189 admissions, particularly when they were working with the ambulance service or out of hours.

190 *“Last night as an out of hours GP I had a confused old lady, lives on her own, no family*
191 *around, and a GP’s mind is ‘oh we’ve got no choice, we’ve got to admit the patient’. But having gone*
192 *through the fellowship it made me think laterally and, with access to all this knowledge, I was able to*

193 *get an emergency social worker, speak to the community emergency response team, we were able to*
194 *keep the patient at home” (3)*

195 The opportunity to facilitate more integrated care by applying their knowledge about community
196 resources and encouraging communication and working relationships across organisational and
197 professional boundaries was viewed as a significant benefit. We observed on several occasions that
198 medical staff in urgent care environments approaching fellows for advice about community and
199 primary care.

200 *“[...] I just say “pick up the phone”. They say “the named GP is almost never there” and I was*
201 *saying “don’t worry about their named GP, [the other GPs at the practice] will have access to the*
202 *same information.”(6)*

203

204 *Professional development and academic training*

205 The weekly academic days were felt to complement the clinical skills development and were valued
206 as providing practical, evidence-based learning opportunities and peer support. They provided an
207 opportunity to consolidate on experiences and build confidence. For some, the prospect of Masters
208 level academic training was a distinct attraction of the fellowship.

209 *“you cannot pin-point it to one thing, especially when comparing the academic with the*
210 *clinical days. It is a combination of both for success, as you learn on the academic day what you try to*
211 *apply in your clinical and vice versa.” (6)*

212 *“[The taught days] afforded us a lot more knowledge of how to manage sub-acute and acute*
213 *cases in the community. So we had teaching about diabetes, heart failure, acute MIs, orthopaedics,*
214 *musculoskeletal, which could sometimes present as an acute condition” (3)*

215 For some participants, there were gaps where it was felt more professional development would
216 have been of value, as reflected in the following comment.

217 *“What I think it lacks a little bit is the paediatric side of things when you are talking about*
218 *urgent care and I think that could be incorporated possibly a bit more.” (4)*

219 Working towards a Masters level award, writing assignments and making presentations about their
220 service improvement projects were among the most demanding aspects of the programme. The
221 projects enabled the fellows to explore how meet patients’ needs more effectively and efficiently,
222 and potentially contribute to longer term service improvement. They covered issues such as triaging
223 patients, patients’ attendance at ED during surgery hours, and the impact of advanced care plans for
224 nursing home residents on reducing emergency ambulance calls. One project involved writing new
225 guidelines for reviewing pregnant women who attend ED; this has now been implemented in the
226 hospital. Another involved the fellow creating a community resource pathway booklet for the
227 hospital; this has been made available on its intranet.

228 While most participants appeared to thrive on this, some found it difficult to balance within the
229 context of the clinical activities.

230 *“.... doing a sort of degree and doing the work, it’s just balancing that out, because it can*
231 *take over your life.” (5)*

232 *“I’d not done academic writing before. It was quite a steep learning curve for me.... It was*
233 *another challenge and opportunity. I don’t think I would have been able to do that doing a regular*
234 *job.” (2)*

235 The Postgraduate Certificate (PGCert) in Urgent and Acute Care was valued as an important element
236 of the scheme that demonstrated the application of reflective clinical, strategic and operational
237 thinking.

238 *“The critical appraisal of things, which is one of the skills we learn as well... this is what this*
239 *evidence says but is this really relevant in our setting? Having that perception shift that has been*
240 *really useful in the academic days.” (5)*

241

242 *Challenging negative attitudes*

243 Challenging the negative attitudes about general practice that are held in secondary care was
244 viewed as an unanticipated benefit of the scheme. The leadership training was felt to prepare them
245 for this, and their presence in acute care settings had led to secondary care colleagues becoming
246 more appreciative of the skillset of general practice.

247 *“Everybody is working in silos and we are actually just trying to bridge that gap ...you need*
248 *people to act as the ambassadors of each side to go to them and say ‘well this is what we do, do you*
249 *want to know more, we don’t bite, you can come and ask us questions you know’.” (5)*

250 *“I think changing attitudes was probably the biggest achievement for me of the fellowship,*
251 *and I think that was the case in every placement that we had.” (4)*

252 *“It was up to me to assert myself. Learning leadership helped. Being clear in your head what*
253 *your role is and conveying that clearly” (3)*

254 However, there were examples of acute clinical teams who were less receptive to the aims of the
255 fellowship scheme, sometimes seeing the GP as just “another pair of clinical hands”, and on
256 reflection all fellows felt this needed further attention.

257 *“She took me round and introduced me and said ‘this is our new GP’, but that was it because*
258 *she didn’t really understand.... ‘What are they going to do’ and ‘why are they here’ was missing...I*
259 *think they really struggled with the concept of who we are.” (4)*

260 As the fellowship became more established, measures were introduced to address this issue,
261 including a programme manual for all individuals who have responsibility for implementing the
262 fellowship within each clinical setting. In addition, the regional leads of the programme meet
263 regularly with all sites to facilitate the smooth-running of the placements.

264

265 **Impact on career opportunities and the GP workforce**

266 *Career opportunities*

267 The fellows described how their employment since completing the fellowship had been supported
268 by the knowledge, skills and experience gained from the training. They believed their skillset was
269 highly valued by potential employers. Three were now working part-time as GPs in ED roles in
270 addition to working sessions in general practice, one was appointed urgent and acute clinical lead
271 for a CCG and clinical lead for an ambulance service physician response unit, and three were working
272 in urgent care and walk-in services.

273 *“The fellowship has opened up different horizons and opportunities....the guy who hired me*
274 *knew about the fellowship, so he approached me because I was on the fellowship, it was definitely an*
275 *advantage.” (2)*

276 *“I am still in touch with many of the people that I worked with at the hospital. So even a few*
277 *weeks ago somebody emailed me about a vacancy that they had and that they were considering a*
278 *GP for and whether I knew somebody from the fellowship who would be interested in it.” (4)*

279 *“I was approached by various head hunters and locum agencies for salaried posts. I had quite*
280 *a few interviews as a result and my current post was offered to me based on the experience gained*
281 *during the fellowship.” (5)*

282 There were examples of how the fellows had already taken on leadership roles in relation to clinical
283 practice, commissioning and service development.

284 *"In my current role, [I am] lead clinician with a team of ANPs, trainee ANPs, shop floor*
285 *nurses, HCAs in a Minor Injury Unit / A&E."* (7)

286 *"I have taken the lead on the urgent care side in the practice, working with [CCG] looking at*
287 *developing things in different areas. I use a lot of what I have learnt and picked up whilst on the*
288 *fellowship. I have been working with the CCG on their urgent care schemes..... it's amazing how*
289 *natural it feels now."* (4)

290 Another fellow had taken on a lead role at CCG level.

291 *"I provide clinical oversight for the urgent care work that is done within [CCG].....The*
292 *fellowship helped, very much so. It gave me a good insight into the organisational structures within*
293 *acute care and the ambulance service. I certainly wouldn't be doing this job had I not done the*
294 *fellowship."* (1)

295 Two of the cohort had decided to continue their academic development, with one working towards
296 a Masters degree with the aim of becoming an educational lead and the other doing a postgraduate
297 diploma in diabetes in order to strengthen the delivery of diabetes care in the community.

298 *"I am doing a negotiated learning for 40 credits towards a Masters looking at care of*
299 *marginalised groups. That's building on the whole service enhancement theme that there was within*
300 *the fellowship....."* (4)

301 *"You see a lot of diabetes cases in A&E and in the community and they do contribute to a lot*
302 *of admissions. This is something that can be managed in the community very well, so that is what led*
303 *to my interest in it."* (6)

304

305 *Impact on the GP workforce*

306 The fellows described numerous ways in which they had found that the programme was attracting
307 interest from those undertaking vocational training.

308 *"We went there (VTS training days) and did a talk about clinical teachings and all that and*
309 *there were so many ST1s and ST2s who said they were interested in it and they said 'This is new, this*
310 *is so interesting, I would like to do that, it is exciting!'"* (6)

311 *"I have found it very positive and everyone who I have spoken to - whether that is potential*
312 *future employers, whether that is colleagues even friends who I have been telling what I have been*
313 *doing - have all found it really interesting and I have lots of interest. My inbox has been inundated*
314 *with 'when is the new one going to start'"* (4)

315 It was felt that the opportunity of undertaking extended training may influence medical students
316 and recently qualified doctors to consider GP vocational training by highlighting new career
317 opportunities associated with working at care interfaces.

318 *"People who feel like that they like acute care ... might then choose to do GP training whilst*
319 *they keep their feet in acute care. It will be more attractive because it is giving an extra option to*
320 *people."* (2)

321 *"So when you think general practice you think of a Monday to Friday job sitting in a surgery,*
322 *but the urgent care fellowship is a whole way of thinking, not just as a GP, but as a doctor that's an*
323 *interface position, working both primary and secondary care.... It breaks all boundaries, it breaks all*
324 *limitations, the world is your oyster."* (3)

325 The experience of being an independent GP before embarking on the fellowship was felt to be
326 important, particularly in terms of the value and impact of having a GP working within acute clinical
327 settings. Hence, some felt that the fellowship objectives would be compromised if it was embedded
328 into vocational training.

329 *“I would not have preferred it as another one year in GP training. I think it would make a big*
330 *difference being in the roles that we were, as a fully qualified GP compared to GP in additional*
331 *training.” (7)*

332

333 **Discussion**

334 **Summary**

335 Overall, the study found a high level of satisfaction with the fellowship scheme and the broad range
336 of opportunities and challenges that it offered participants. The fellows described numerous ways by
337 which the fellowship was felt to be enabling improved patient care, integration of care, admission
338 avoidance and service improvement in the clinical settings within which they were placed. They felt
339 that the scheme facilitated improved working relationship across the urgent care/primary care
340 interface, and challenged negative attitudes about general practice that are still present within
341 secondary care. The fellowship was experienced as addressing key professional development needs
342 relevant to the challenges of 21st century healthcare, which involve more advanced learning than
343 gained during vocational training. The fellows felt the programme was preparing them for clinical
344 and leadership interface roles, and at one year follow-up it was evident that this had been achieved.
345 The opportunity to undertake the fellowship was thought likely to make general practice a more
346 attractive option for medical students and recently qualified doctors.

347

348 **Strengths and limitations**

349 A strength of the evaluation is that all the participating GPs agreed to fully participate in interviews,
350 so allowing the collection of longitudinal data. This enabled description of fellows’ experience of the
351 scheme at different points in the year, as well as its impact on subsequent career opportunities.

352 However, the findings need to be interpreted in the context of a relatively small cohort of GPs
353 undertaking what was a pilot year of the scheme. The scheme was only open to a small number of
354 individuals, and it is possible that the seven who were appointed may have been atypical in terms of
355 interest, aptitude and commitment.

356 Shortcomings, such as staff in some settings not fully understanding the purpose of the fellowship,
357 were identified as early difficulties. Setting up the programme had been dependent on a high level of
358 enthusiasm and shared commitment from those providing clinical, organisational and academic
359 leadership. Such shared commitment may not be present in all areas.

360 It was beyond the scope of the study to undertake an economic evaluation of the scheme. While the
361 costs of running the fellowship scheme, including the leadership, administration and fellows’
362 employment costs can be readily identified, the benefits of the scheme are more complex to quantify
363 and cost. These include the impact of the service-related clinical and quality improvement activities
364 that the fellows undertook, together with the immediate and longer term impact of the scheme on
365 facilitating improved understanding, resource utilisation and communication at the urgent
366 care/primary care interface. In addition, an economic analysis would need to consider opportunity
367 costs, such as those relating to GPs taking on interface roles rather than working in mainstream
368 general practice.

369

370

371 Comparison with existing literature

372 The fellowship scheme provides a template for advanced training and professional development
373 combined with enriching the GPs' clinical experience that could be applied to other key interface
374 clinical areas, such as mental health. The findings also provide evidence to inform discussion about
375 extending general practice training to four years. The need for general practice to evolve is viewed
376 as essential to meeting the aspirations of the NHS Five-Year Forward View⁵, which include blurring
377 the boundaries between primary and secondary care, health and social care, physical and mental
378 health. The Shape of Training report¹² supported by the RCGP¹⁵ recommended that all specialist
379 training should be a minimum of four years, and newly qualified GPs are reported to feel
380 underprepared for independent practice¹⁶. An extra year of training is felt necessary to ensure the
381 increasingly complex demands of the NHS are met by a workforce with the skills and attributes to
382 meet them¹⁷.

383 A fourth year of training already exists in a few training schemes across the UK, with a variety of
384 academic and clinical contents. First 5 GPs have described opportunities that extended training
385 could provide as including strengthening of multidisciplinary relationships, widening managerial and
386 leadership skills focusing on commissioning work and increasing the variety of training settings to
387 develop generalist, transferable competencies that reflect those needed to work across the
388 boundary between primary and secondary care¹⁸. This fits closely with the opportunities that the
389 fellowship scheme offers participants. However, those participating in the scheme described here
390 felt that it was important to consider the fellowship as separate to vocational training, and
391 something to be undertaken post-CCT. The fellows were of view that the learning was at a more
392 advanced level than can be accommodated within vocational training, and in order to effect quality
393 improvement and change in secondary care settings the fellows needed to have completed their
394 certificate of training.

395 A key challenge will be the ability to deliver these type of training posts within the constraints of the
396 current hard-pressed NHS financial system. The recent emergence of Sustainability and
397 Transformation Plans (STPs) in England offer a significant opportunity to influence the development
398 of workforce programmes through the Local Workforce Action Boards (LWABs). The Royal College of
399 General Practitioners has already announced regional ambassadors who will work with STPs to
400 promote the voice of primary care¹³.

401

402 Implications for research and practice

403 The fellowship model provides a defined framework for training GPs to work in an enhanced manner
404 across primary, urgent and emergency care settings, with the clinical, academic and leadership skills
405 to influence service improvement and integration. It extends understanding of the care pathways
406 and resources available within the community beyond that gained during vocational training, and
407 facilitates awareness of community-based care within hospital and urgent care settings.

408 Whether such training should be provided as an optional additional year of vocational training or to
409 individuals who have already gained clinical experience following completion of vocational training
410 needs further evaluation, as does the transferability of the fellowship model to other clinical areas.
411 The scope to integrate elements of the fellowship scheme into the current GP training curriculum
412 also needs to be considered.

413 There is also a need to consider the impact of such schemes on the future GP workforce. While
414 undertaking the fellowship may support integration of care and open up career opportunities for
415 GPs, so making vocational training in general practice a more attractive option for newly qualified
416 doctors, there is a risk that in the short term such portfolio and interface roles will exacerbate the
417 workforce crisis facing general practice. Inevitably, undertaking a further year of training post-CCT
418 has an immediate impact on the frontline workforce, and additionally there may be a longer term

419 impact if such individuals take on future roles outside mainstream general practice. The NHS is
420 currently committed to creating an additional 8000 GP posts⁸ in order to address the requirements
421 of mainstream general practice, but the emergence of interface career opportunities may mean that
422 this figure needs to be increased. The sustainability of this fellowship model will depend on
423 addressing these wide-ranging workforce issues, as well as developing systems of funding that invest
424 in the academic, clinical and broader professional development of fellows in order to achieve service
425 improvement at the interface with urgent care.

426

427 **Authorship statement**

428 JD, MA and VW designed the study. RR and FH undertook data collection and data analysis
429 supervised by JD. JD and RR drafted the article. All authors revised it critically for important
430 intellectual content, and have approved this version for submission. All authors agree to be
431 accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity
432 of any part of the work are appropriately investigated and resolved.

433

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436

437 **Competing Interests**

438 MA is employed by Health Education England - West Midlands as Programme Lead for Urgent, Acute
439 and EM Workforce Transformation. VW is responsible for the design of the PGCert in Urgent Care.

440

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443

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502 **Box 1: Aims and learning outcomes of the fellowship programme**

Fellowship Aims	Intended Learning Outcomes
<ol style="list-style-type: none"> 1. To explore ways in which the skills and experience of the GP can be enhanced within urgent/emergency care teams. 2. To develop ways in which the GP can apply enhanced urgent and acute skills to support the development of alternative community-based care pathways. 3. To raise GP interest in hybrid emergency/urgent and primary care roles. 4. To support the national policy drive for integration of primary, secondary and social care. 	<ol style="list-style-type: none"> 1. To better understand the needs of patients, why they are attending ED and how the GPs role could be adapted to improve avoidance of hospital attendance and admission. 2. To develop innovative ideas / share best practice of meeting the urgent care / emergency medicine agenda in Primary care. 3. To successfully complete the Worcester University Post-Graduate Certificate in Urgent and Acute Care, demonstrating increased understanding and clinical skills in managing urgent care presentations, competence in critical appraisal of evidence and ability to formulate and implement care according to best practice.

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