ABSTRACT

Objectives To identify the learning needs and preferred learning methods of First5 general practitioners (GPs) in National Health Service (NHS) Scotland.

Design Qualitative research study using grounded theory methods. First5 GPs were interviewed in small focus groups or individual interviews in-person, or over the telephone depending on their preference.

Setting General practice in NHS Scotland.

Participants GPs, within the first 5 years of completion of GP training, who were working in NHS Scotland.

Results Thirty-eight First5s were recruited to the study. Participants recognised that gaps in their GP training became apparent in independent practice. Some of this related to NHS appraisal and revalidation, and with the business of general practice. They were interested in learning from an older generation of GPs but perceived that preferred learning methods differed. First5 GPs were less reliant on reading journals to change their practice, preferring to find learning resources that allowed them to gain new knowledge quickly and easily. There were considerations about resilience and of the challenges of learning in remote and rural areas of NHS Scotland. This related to travel costs and time, and to accessibility of learning courses. Participants appreciated collective learning and commented about the logistics and costs of learning.

Conclusions Preferred learning methods and learning resources differ with First5 GPs compared with those who have been in practice for some years. Learning providers need to recognise this and take these differences into account when planning and preparing learning in the future.

INTRODUCTION

Mirroring the approach of other UK countries, the Scottish Government’s healthcare strategy has encouraged healthcare to be delivered at home by primary healthcare teams, reducing hospital admissions whenever possible. This strategy is reliant on a stable and secure primary healthcare workforce. The UK has experienced considerable difficulties over many years with the recruitment and retention of general practitioners (GPs) for its National Health Service (NHS). The NHS needs half of new medical graduates to enter a career in general practice but it is known that fewer than 20% made this choice in recent years.

There are problems at both ends of the GP career path: older GPs are retiring early or reducing their clinical commitments; newly qualified GPs are choosing locum work or portfolio careers in preference to permanent GP partnership. Working less than full time is common. Various reasons have been given for this: low morale, increased workload and work intensity, and pension changes. The UK has attempted to recruit GPs from abroad to address the deficit but large international campaigns attracted fewer than forty GPs rather than the target of 500. A number of organisations predict that, by the middle of the 2020s, the NHS will be short of thousands of GPs.

GPs within the first 5 years of completion of training have been called First5s by the Royal College of General Practitioners, which has called for additional resources to support them so that they will be retained and flourish as practitioners.
to education and learning in the initial years of clinical practice.\textsuperscript{10,11} Shiner and Howe found that newly qualified GPs wanted to be independent practitioners, but recognised they still gained from contact with their peer group, and valued discussions with more experienced GPs.\textsuperscript{12} They found that newly qualified GPs working as locum practitioners were isolated from the rest of the practice and from their peers. Torry,\textsuperscript{13} called for action that encouraged a sense of community of practice for newly qualified GPs, and which promoted support and discussion among them to reduce isolation. Other research has focused on extending GP training and providing more educational resources during the transition to independent practice.\textsuperscript{14}

It is important to plan educational endeavours and support systems with the involvement of First5 GPs and to identify their learning needs and learning method preferences. Thus, this study had the following research question: What are the learning needs and preferred learning methods of First5 GPs in NHS Scotland?

**METHOD**

A qualitative research approach using grounded theory methods was used to explore the perceptions and experiences of First5s in relation to their learning needs and preferred learning methods. A qualitative approach was considered appropriate as it would allow the research team to question participants and identify their reasons for their perceptions and experiences. This would not be possible using data collection instruments such as questionnaires. The study design consisted of a recruitment stage, data collection and data analysis, undertaken by four researchers. The first author is an experienced qualitative researcher and GP. The second author is a GP medical education fellow in NHS Education for Scotland (NES) and a First5 GP. The third and fourth authors are First5 GPs with some experience of qualitative research work.

**Recruitment**

First5s who were working in NHS Scotland and had completed GP training within sixty months of the beginning of the research period were included in the study. A purposive sampling strategy was adopted to maximise diversity of perceptions and experiences. A sampling grid was constructed that included remote and rural (R & R) GPs, those working in areas of deprivation, and the 14 territorial boards in NHS Scotland. First5s were contacted by email by one researcher and invited to take part in a focus group or one-to-one interview determined by their preference. Participants were sent a study information sheet giving details of its aims. They signed a consent form giving permission for their discussion to be audio-recorded and transcribed. An assurance was given that discussions would be confidential and transcriptions anonymised. A professional fee of £75 was offered to compensate for loss of earnings in recognition that some

**RESULTS**

Thirty-eight First5s were recruited to the study. Eleven were interviewed individually using three methods: in person, by telephone, or using videoconferencing technology. Four were interviewed in two paired interviews, and 23 were interviewed in seven focus groups ranging in size from three to five participants. Twenty-eight were female and ten were male. Participants were drawn from 10 of the 14 boards in NHS Scotland and table 1 gives details of participants and their NHS board location. Thirteen were from R & R areas and five worked in areas of deprivation. Seventeen participants described themselves as being salaried, six were locums and 13 were partners, with one partner working additionally as a salaried GP in another practice. Interviews started in November 2018 and ended in February 2019. All interviews (apart from two focus groups) were conducted by CW, LY and
Perceptions of gaps in GP training

Participants perceived the focus of training was to cover the curriculum and pass the Member of the Royal College of General Practitioners (MRCGP) examination. Some considered this encouraged broad learning, others perceived it was detrimental to their current learning needs, which were more focused and primarily determined by the needs of their patients and practice.

Because when you’re an [GP]ST, you’re studying in a way to pass exams. Your learning is more focused on that. Whereas now, it’s actually on what you need to do day-to-day, and what’s most useful to you and your patients. (Participant 31)

Several referred to the short duration of training and the difficulties of learning everything that GPs may encounter. Some recommended that training should be extended with more time spent in general practice.

I feel, probably, that the bare minimum of GP training is done, in terms of actually time in a GP practice and learning what a GP does. (Participant 27)

Others suggested that increasing the number, quality and relevance of secondary care posts would be beneficial. Most participants perceived that training was focused on clinical learning, leaving knowledge and skills of business, leadership and practice management as important learning needs for the first 5 years.

We don’t really get taught the business side of general practice, and we don’t really get taught leadership skills and I think that’s so important if you are becoming a partner. I think there’s not anything about the business of general practice in training and I think that’s wrong and I think if I was changing one thing it would be encompassing a bit of leadership skills. (Participant 5)

Some considered these topics should be taught more thoroughly during training but others suggested they were more relevant after training:

As an ST3 I had like a tutorial just with the practice manager who went over the running [of the practice] and finance side of things, but it was pretty much all over my head! (Participant 12)

Appraisal and revalidation were important learning topics not covered during training and were common learning needs for newly qualified First5s.

I don’t really understand appraisal yet, I don’t really know what I’m supposed to do for it. (Participant 18)

Experienced First5s were more familiar with appraisal and revalidation, but considered the processes often detracted from useful learning, with the challenges of documenting evidence of learning activity for appraisal.

I’m using NICE CKS [National Institute of Clinical Excellence—Clinical Knowledge Summaries] every day but I’m not able to log that because it’s so much just part of my working day. I’m not going to log every 20 minutes or half-hour that I spend looking at something. And maybe I should be, but there isn’t an easy

<table>
<thead>
<tr>
<th>Table 1</th>
<th>Participants and NHS board location</th>
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<tr>
<td>NHS board</td>
<td>No of participants</td>
</tr>
<tr>
<td>NHS Ayrshire and Arran</td>
<td>5</td>
</tr>
<tr>
<td>NHS Dumfries and Galloway</td>
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<tr>
<td>NHS Fife</td>
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<td>NHS Forth Valley</td>
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<tr>
<td>NHS Grampian</td>
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<tr>
<td>NHS Greater Glasgow and Clyde</td>
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<tr>
<td>NHS Highland</td>
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<td>NHS Lanarkshire</td>
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<td>NHS Lothian</td>
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<td>NHS Tayside</td>
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NHS, National Health Service.
way for me to do it at the moment, so I can’t log that stuff. (Participant 21)

**Transition to independent practice**

The transition from supervised trainee to independent practitioner was a time of challenge. Loss of dedicated supervision from their trainer and wider training practice, isolation from training peers, and adapting to work in a new practice or unfamiliar working environment, were common concerns. Participants recognised their limited opportunities to ask colleagues for advice compared with training.

As a qualified GP, if I’m unsure about something, I probably am more likely to phone secondary care for a discussion with a specialist rather than, as a trainee, I might have spoken to my trainer because you have those sessions. (Participant 15)

You may even be single-handed in a practice which is such a steep learning curve coming out of ST3. You might be the only person in a practice, doing home visits completely on your own and not really having anyone to talk to, it’s like: ‘Argh!’ (Participant 16)

Participants identified learning needs arising from reflections about patient encounters and perceived gaps in knowledge. Some had a personal interest in a topic and a desire to remain up to date. Fear, clinical uncertainty and lack of confidence were motivators for learning.

I try and choose things that I… that is likely to walk into my consulting room in the next week. Things that are common and relevant to my own practice, even if it’s something that I’m not that interested in, but it’s something I maybe should know. (Participant 26)

Participants used a variety of learning resources with many keen to learn from the knowledge and experience of colleagues, secondary care specialists, and from reading accessible reference guidelines and online resources. Most felt it was important to attend courses which were valued when they consisted of a variety of short clinical updates reflective of the breadth of general practice work. Learning should be easy, convenient and quickly obtained, and relevant to clinical work.

I just come across stuff and realise I don’t know it, or I need to know more about it, and then find out the answers. I’ve never found a more structured way that I can find what I need. I guess I like to have that immediacy to it. (Participant 23)

**Intergenerational learning**

Intergenerational learning was beneficial for some participants. Contrasting learning approaches were attributed to different ages of practitioners and seen as a barrier to effective interactions between First5s and older GPs. Older GPs were considered less likely to learn using technology and more reliant on printed resources like books and journals. First5s read journals infrequently which accumulated at home unopened in their wrappers.

My training practice had a few older GPs and their rooms were full of books and the reason for that is the internet didn’t exist [when they were a GP trainee] so they had to go to a book to read it. (Participant 5)

Got a healthy stack of BMJs [British Medical Journal] still in their packets. (Participant 18)

Older GPs were considered confident to learn through experience. First5s valued experiential learning but expressed reservations and preferred more formal learning.

I think they [experienced GPs] are more likely just to do things, to learn by doing it, whereas we’d be wanting to learn more about it first. They are more likely just to have a go at something. (Participant 7)

Participants suggested that changes in training influenced differences in learning styles between older and younger GPs. They preferred to learn with people who shared their approach to continuing professional development (CPD), influenced by recent training and the eportfolio system.

It’s a bit difficult because there’s been a bit of a sea change in GP education. I think, certainly the ten year age gap makes a bit of a difference in terms of how people approach things. So yeah, it might be nice if there were more younger people. (Participant 24)

First5s preferred to learn with their peers, particularly in settings such as Practice-Based Small Group Learning (PBSGL), where professional socialisation and group learning were valued. More experienced First5s valued CPD with senior colleagues as they gained confidence.

When you are first qualified, the first couple of years it can be quite intimidating going to stuff with a lot of older GPs. Like: ‘Oh, gosh! I am just the newbie here! ’ Then, I think now it wouldn’t really bother me and you would probably learn lots from them. (Participant 12)

**Resilience**

Resilience was considered by many participants, who discussed factors reducing their ability to remain resilient, including heavy workloads and professional isolation. These influenced the content, format and timing of CPD undertaken by participants. Several discussed their lack of experience of clinical presentations despite having finished training and judged clinically competent. Maintaining a work–life balance, and incorporating CPD into this was important to participants, particularly those with families. Most considered that CPD required protected...
learning time (PLT) within the working day, separate from clinical duties and home life.

I think sometimes if there’s a dedicated time and place to be that you have cleared your decks and that’s where you are for that time and therefore you know you’re not necessarily gonna get disturbed by other things. (Participant 19)

Learning to be resilient and avoiding burnout were considered difficult, as learning needs varied from person to person. Common themes included practising realistic medicine, the management of challenging patients with complex social and mental health problems, and managing time and patient demand.

How to say no to patients, how to… We’re taught as GP trainees to be so lovely and understanding and listen to every single problem but in real life that is gonna burn you out so a way to sort of be nice but be firm. (Participant 3)

We can end up taking on lots and lots and lots, and that’s often the kind of mentality of people who go into medicine and general practice anyway. So, something to kind of push people away from that. They’re like: ‘We don’t actually have to do that. Just do your job and think about who can do that bit of your job’. To me, that’s what resilience is. To me, that’s really helpful to be reminded of that every so often… I think there is a skill to that as well, isn’t there? You can say yes to everything and burn out by the time you’re 40, or you can start to teach people about where the boundaries are for you in a nice way that doesn’t ruin your relationship with them. (Participant 21)

Self-care, emotional intelligence and maintaining good mental health were important. Participants were conscious they were beginning a long career and would be practising for decades.

I went to a talk that actually a CBT [cognitive behavioural therapy] therapist was at and she was explaining what advice she gives to patients, you know, when they go with anxiety and all this and it was really relevant actually to GPs managing life in general, like their own life and their own work load. (Participant 3)

Access issues centred around cost, including travel and accommodation, and time away from practice and family.

The ** courses [commercial CPD organisation] are £100 to £200 and they start at what, 8:30, 9:00 in the morning? So, you’re going to have to stay the night before. And then you do the whole course the whole day, they’re quite tiring, so you might want to stay the night after as well. So, you’ve got to have dinner and you have to pay for parking and the costs really do add up. (Participant 21)

Professional socialisation of attending courses was viewed positively by R & R participants, with the exchange of ideas valued by those who were relatively isolated.

You get the option to meet people outside who you normally work with. You can actually find out what other practices are doing, or what the rest of the world is doing, because it can get quite small otherwise, if you’re just in your wee town on the **** coast miles away from everywhere else. (Participant 25)

Funding of travel expenses for R & R GPs was discussed as a way to encourage course attendance. There was a suggestion that isolated GPs would benefit most from learning with others, and that dedicated funding could support this.

There’s not really much allowance in GPs contracts for fixing a kind of funding formula where it encourages or at least creates a level playing field for rural GPs to access things even though they are the people that benefit from it the most. So yeah, if I was doing something, I would create some sort of rural general practice learning fund. You could identify two days of learning a year with your appraiser, and then, rather than NES paying for the course, they could fund the practice’s locum fees for you to go on the course for two days or something like that. (Participant 23)

Some R & R participants considered their learning needs were different compared with urban colleagues with more focus on acute presentations of serious illness and injury.

I think you just need to learn to manage things quite differently. The acute obstetrics, query ectopics, [possible ectopic pregnancy emergency] things like that, sick children, all of that has to go down the road which is two hours/two and a half hours on a good day. You need to make the decision of: ‘Do they need to go today or not?’ Because equally it’s a terrible road, terrible weather conditions, you won’t always get an ambulance. (Participant 19)

Acute care and prehospital care courses were essential for R & R participants. Those who completed them had to self-fund, leading to resentment about covering gaps in GP training.
I think the funding side of it grates a little bit. I did choose to work rurally I suppose and in many ways these courses aren’t specified as being necessary. However, working here I think they are necessary and I think particularly close to CCT in those First5 years I think some of these things are not really covered within, you know, they’re not really covered as well perhaps during the curriculum. (Participant 19)

This suggested that R&R practice was more challenging for First5s due to their inexperience. First5s sought out learning to counter this and reduce concerns about clinical uncertainty. Concerns were raised about providing services to Police Scotland particularly assessing patients in police custody with no prior training or supervision in this work.

I just think it’s a national scandal really. There’s so little regulation and there’s so little training. I really don’t think we should be able to be a police surgeon without having done at least a weekend competency course or something like that. (Participant 23)

Some reconsidered their future in rural practice because of a lack of police work training.

I’ve really had to reflect on whether or not I want to continue working in this area because of the police surgeon role. And I’ve argued for...if there’s not any national level training then at least it needs to be ****** [name of locality] wide training at out of hours meetings and things. They’re very good at seeming to take you on board and writing down in the minutes, say: ‘We’ll get back to you.’ And then nothing’s happened after a year. I’ve got no hope of them doing anything locally. (Participant 23)

Participants appreciated webinars: they were low cost learning methods which could be attended in the evening and from home. Their short, interactive nature was in keeping with participants’ preferred learning methods.

Collective learning
Different formats and benefits of collective learning were identified. Interactive case-based learning was attractive and helped engagement in the topic. It increased understanding by learning how others pragmatically applied guidelines to real-life scenarios.

I find PBSGL specifically really useful from a kind of reflective point of view, so speaking to other GPs in my group about cases that are relevant to the topic and kind of just exploring the difficulties that we’ve had within our own practice and almost like [a] kind of Balint group talking about communication that way. I think that’s quite supportive, particularly given that I’m locuming at the moment so I don’t necessarily have that relationship with the kind of senior GPs in the practice, although I do to some extent but I’m just not there all the time. So it is nice to have it out with the practice as well. (Participant 1)

The value of PBSGL was dependent on the group’s dynamics. Some struggled to keep their group going after training and others considered they would benefit from having experienced colleagues join their group. A few had difficulty joining established local groups.

I think it would be quite a reason not to join one—‘cause you might be a bit socially intimidated from it, from meeting all these people, you know, it’s a big jump isn’t it? It’s like going to a gym class the first time, putting yourself out there. (Participant 3)

Interprofessional learning either within a practice or with primary or secondary care colleagues increased participants’ understanding of others’ perspectives and roles in patient care. Regular discussions strengthened relationships and improved confidence with colleagues.

I think it’s [PBSGL] good especially with pharmacists and nurses because they look at it in a different way. They quite often know different things about conditions and management and can help you understand things better. (Participant 34)

Learning with the wider primary care team may be less useful as learning needs differed with individual’s roles. Learning from secondary care needed to have a primary care perspective to ensure relevance for GPs.

There is a big difference between the ones who - consultants - who just tell you about the topic, and the ones who tell you about [it] from a GP point of view, and it definitely has to be from a GP point of view now. If they come in and tell us about all these fancy, exciting new things that are hospital-only then we don’t get much out of it. But if it’s really like: ‘As a GP this is what you should do when you see someone with this.’ You know that would be great. (Participant 6)

Social media such as Facebook and Twitter were sources of easily accessible learning. Viewing the posts of others or posing questions, either within private
GP groups or from own their own accounts to their followers, were valued. Some were concerned about information being correct and confidential and that posts could be taken out of context or shared beyond a private group.

I have used Twitter a little bit for just asking clinical questions: ‘Has anyone done this?’ That kind of thing and I collected Twitter people that must use it. Yes, so it’s quite good. (Participant 36)

I think I find those make me feel anxious because it is unfiltered, and you don’t actually know who you are actually speaking to or how highly qualified they are. (Participant 37)

Logistics of learning

Cost was the most cited barrier to attending learning events. Most found that costs were high with some arguing that specific funding should be available. This related to event fees and travel, subsistence, accommodation and additional childcare costs. Locum GPs cited potential loss of earnings when attending weekday courses.

The cost of that and having to take a day off work or use annual leave as well as paying a significant amount of money to go, it’s sometimes just: ‘Ah, I won’t bother, I’ll do something else.’ (Participant 3)

Timing and accessibility were major issues with participants divided on the optimum timing for learning events. Some viewed weekends or evening meetings as the most convenient as it did not involve taking time out of practice.

I know if I can come on a weekend and I don’t need to worry about getting time off or getting a locum or taking study leave. (Participant 3)

I don’t mind doing the odd evening if it is a topic that, I really have, I have a particular interest in. Every once in a while I will do an evening because I would prefer to give up an evening than a weekend but that’s just personal preference. (Participant 13)

In contrast, participants with young families or those based outside cities, preferred to learn during the working week, keeping their evenings free for family life, or limiting driving to urban locations for an evening meeting.

I don’t really like going from work and not seeing the kids, maybe not getting home until quite late. So, timing is a big thing. (Participant 11)

I worked rurally for two years and it was difficult because a lot of the update things would all be in the city and then you maybe have got an hour and a bit drive to get to that in the evenings. And certainly that could quite limit your access unless you are taking whole days off. (Participant 38)

There were several reasons for the different timing preferences for learning events. Partners and salaried GPs cited high workload and difficulty obtaining study leave or locum cover to attend during the working week.

It’s far more difficult to take time away from your normal working day as a partner than it has been ever before. (Participant 27)

Locum GPs had fewer opportunities to learn from practice and from colleagues and had to spend time learning outside working hours to compensate.

I think that’s where it’s a little bit more difficult being a locum, because I will go back to the practice and actually see myself, going back to patients I’ve seen before to try and work out what’s happened. Whereas someone that may be salaried, would be seeing these people back and reflecting on what you’ve done last and what you should do next, so it’s definitely more difficult in that respect being a locum. (Participant 16)

DISCUSSION
Main findings

The aims of this study were achieved. Participants recognised that there were gaps in their GP training that became apparent in independent practice. They were interested in learning from an older generation of GPs but perceived that preferred learning methods differed between them. There were considerations about resilience and of the CPD challenges in R & R areas of NHS Scotland. Participants appreciated collective learning and commented about the logistics and costs of learning. The study had aimed to identify the learning needs and preferred learning methods of the first5 GPs but in addition, we identified the challenges faced by these GPs in their learning activities.

Strengths and limitations

The study had a number of strengths. Participants were diverse and held contrasting opinions producing rich data. They worked in urban and R & R areas, as well as in areas of deprivation, and were drawn from 10 of the 14 boards in NHS Scotland. They were recruited from a range of experience in the first 5 years since GP qualification: some recently finishing training whereas others had worked as GPs for just under 5 years. Participants held diverse roles including partners, salaried GPs, locums and some had portfolio careers. Some held leadership and representative roles in national general practice and medical organisations.

Data saturation was achieved and confirmed by the last two interviews. The data were collected and analysed by researchers who were primarily First5s and thus close to the data and subject area. Each transcript was analysed by two researchers adding a sense of confirmation to the findings. Discussions at research meetings and the writing and sharing of memos deepened analysis.

There were limitations to the research. No participant took part from the three island boards in NHS Scotland and they may have held different views from mainland GPs. Researchers were based in NES which provides GP education and this may have biased the recruitment of participants and data analysis. Furthermore, as three
of the four researchers were First5 GPs and acquainted with some of the potential participants, this may have influenced who responded to the invitation to participate, and what was said at interview. Details of individual participant’s length of experience and of any leadership and representative roles are not included to protect the anonymity of participants.

Comparison with existing literature
Taylor et al surveyed the learning methods of First5 GPs in 2010 and found that 56% of respondents read medical journals often or very often.11 Our qualitative results, although not directly comparable with survey methodology, suggested that learning by reading journals had fallen out of favour with our participants. Taylor’s survey agreed that First5s cited the business of general practice as being a common learning need—this too was identified by participants in our study as being an important learning need.

Dowling et al have undertaken research in Ireland which has a broadly similar population and demography to that of Scotland. Their research has shown that CPD involving small group learning is well-received in Ireland and it is considered a supportive learning resource by GPs in R & R practice.17 This was comparable to our findings related to acceptability and appreciation of the Scottish PBSGL programme which involves small group learning. Dowling et al’s assessment of learning needs of GPs in Ireland found similar needs between urban and R & R GPs, apart from prehospital care of emergencies which was a need identified by R & R GPs.18 These learning needs were identified by our study with the addition of learning needs related to police surgeon work which may be peculiar to R & R areas in Scotland in contrast to other countries of the UK.

The Shape of Training Review led by Greenway in 2013 suggested that time spent in GP training may need to be longer.19 This would benefit First5 GPs, particularly those who continue their careers in R & R areas, where the need for broad medical care may require a longer time in training.

Implications for further research and change in practice
The Scottish Government is investing in general practice and primary care, and the launch of a new contract for CPD is one of the actions.20 First5s need additional investment in the provision and support for CPD particularly in R & R areas. This could include the development of small group learning and other resources that encourage discussion and professional socialisation—key needs for First5s. PLT is an important issue for First5s who are keen to separate learning from work and family life. NHS boards need to invest more in this area. First5s were keen to learn using technology such as webinars and podcasts and GP CPD providers may need to offer more of these to engage with younger GPs. This may be appropriate and safer in a post-pandemic world. Those who are charged with providing CPD may come from a different generation from First5 GPs and need to take into account that learning experiences and preferences may be different.

Declaration of interest
DC is an assistant director within NES and provides CPD resources (including PBSGL) to GPs and their teams in Scotland. CW was a medical education fellow within NES. All authors are practising GPs in the West of Scotland.

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Contributors
DC conceived the study, recruited the research team and searched the existing literature. DC, CW, JK and LY collected the data and analysed it. DC, CW, JK and LY contributed towards the results and discussion sections of the manuscript. DC wrote the introduction and methods sections. DC, CW, JK and LY edited the manuscript.

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Competing interests
DC works for NHS Education for Scotland (NES) and LY and CW were medical education fellows for NES.

Patient and public involvement
Patients and/or the public were not involved in the design, or conduct, or reporting, or dissemination plans of this research.

Patient consent for publication
Not required.

Ethics approval
Under UK ‘Governance Arrangements for Research Ethics Committees’, ethical research committee review is not required for service evaluation or research which, for example, seeks to elicit the views, experiences and knowledge of healthcare professionals on a given subject area. Similarly ‘service evaluation’ that involves NHS staff recruited as research participants by virtue of their professional roles does not require ethical review from an established NHS research ethics committee.

Provenance and peer review
Not commissioned; externally peer reviewed.

Data availability statement
Data are available on reasonable request. Data include transcripts of audiotaped interviews and regarded as being confidential. Participants did not consent to this data being shared.

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