Surveying, shoring, strengthening: rebuilding medical morale from its foundations

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ABSTRACT

Significant uncertainty surrounds the sustainability of healthcare services in which junior doctors work. It is essential that student and foundation doctors (SFDs) are actively engaged if workforce morale is rebuilt. This narrative review explores the evidence driving the individual work-streams of the Royal College of Physicians' newly formed Student and Foundation Doctor Network. Undergraduate and postgraduate training reform has coincided with concerning feedback from newly qualified doctors. System-level efforts to address this include a focus on extra-contractual matters, where small, sustainable changes could address training and work issues.

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Introduction

In April 2016, the NHS in England endured the first all-out 'junior doctor' strikes (encompassing both elective and emergency services) in its history. While contractual negotiations sparked the decision to ballot junior doctors, pre-existing and longstanding problems with junior doctor morale exacerbated the dispute. This distinction is particularly pertinent given that the terms and conditions of service for junior doctors in England is currently being reviewed by the British Medical Association and NHS Employers. Undergraduate medical education in the UK is between 4 to 6 years in length. Prior to specialty training, UK medical graduates also complete a 2-year Foundation Programme (FP) that rotates trainees through placements, delivering a broad curriculum predominantly through experiential learning. While this period cements trainees’ continuing postgraduate development, these doctors represent the foundations of the profession’s future.

With uncertainty around what their future professional working lives in the NHS will resemble, student and foundation doctors (SFDs) may feel justified in considering their commitment to a long-term career in healthcare. It is imperative that they are actively engaged and consulted if morale is to be rebuilt and whatever ‘fractures the relationship between physicians and the state’ is to be addressed.

Recently the Royal College of Physicians (RCP) established its Student and Foundation Doctor Network (SFDN). Representatives from across the UK meet regularly to discuss pressing issues affecting SFDs and how the RCP could address them. There are three work-streams: working lives, to survey the challenges within the foundations of junior doctor morale; careers development, to shore up these foundations; and local engagement and communication, to strengthen them for the future.

In this narrative review, we explore the evidence behind these goals. The review will explore recent reforms, successful solutions employed locally or in other sectors. We also illustrate the value SFDs can provide to policy by outlining a SFDN project.

SFDs’ working lives

The past 15 years have seen major reforms to undergraduate and postgraduate training, including Modernising medical careers (MMC) which saw changes to specialty registrar training, first year of medical practice (pre-registration house officer) and the senior house officer system. The latter two changes resulted in the genesis of the FP (Table 1).

Critics argue that MMC has resulted in a more inflexible training structure which contributes to trainee attrition. Many also argue that it has resulted in the weakening of informal support networks through the loss of the firm and diminishing use of the mess. Solutions to address this have been varied and have included placing some postgraduate responsibilities on medical schools. Similarly, the Shape of Training review and a subsequent General Medical Council (GMC) report draw attention to the effect...
of recent reforms on trainee experience, training quality and workforce retention.8–10
Undergraduate curricula and its delivery have also been progressively modified in line with sequential GMC guidance –from ‘Tomorrow’s doctors’ to Promoting excellence: standards for medical education and training.11,12 Most notably, practical skills training has shifted from a ‘see one, do one’ format to initial simulation and/or clinical skills laboratory training followed by competency-evidenced skill practice. This, in part, reflects changing sector-wide approaches to safety.13
However, these reforms have coincided with concerning feedback. The GMC surveys cite that reported preparedness for practice of new doctors rose from 26% in 1999 to 58% in 2005. After the introduction of the FP, improvements stagnated, with only 49% of 2009 graduates feeling that medical school had adequately prepared them for practice. A more in-depth study found further evidence of poor self-reported preparedness. Graduates, in addition to supervisors, reported that up to 28.3% of foundation doctors “failed to cope with the transition from medical school. 14
Conscious of this, some of which are outlined in Table 2. These findings also demonstrate that training reforms often fail to take a holistic view of the pressures experienced by FDs, with recent reports identifying that these are linked to worsening workforce retention. 15 Curricula and programme design would be enriched by a greater awareness of these pressures, some of which are outlined in Table 2.
Recent system-level efforts to address these challenges include the 2016 terms and conditions of service in England and the ongoing FP review.26 Key stipulations, including improved limits on safe working hours, a system to report deviations from planned rostering arrangements as well as the creation of the ‘guardian of safe working hours’ role, are designed to address issues surrounding overtime and missed breaks. Provision of hot and cold sustenance and facilitating rest breaks for doctors on long shifts are examples of the eight high-impact actions published by NHS Improvement, recommended as enhancements to the working environments of junior doctors in line with the widespread recognition of the benefits of such provisions in other sectors.45
Recognising these challenges and the efforts to address them, the SFDN established a working lives work-stream focusing on extra-contractual matters, where small, sustainable changes could address training and work issues. The work-streams’ activities have all been mapped to documented issues that SFDN faces, solutions

This highlights the difficulty of the sharp transition from medical student to practising physician with frequent rota gaps and often scarce senior availability.27 These findings also demonstrate that training reforms often fail to take a holistic view of the pressures experienced by FDs, with recent reports identifying that these are linked to worsening workforce retention. Curricula and programme design would be enriched by a greater awareness of these pressures, some of which are outlined in Table 2.
Recent system-level efforts to address these challenges include the 2016 terms and conditions of service in England and the ongoing FP review. Key stipulations, including improved limits on safe working hours, a system to report deviations from planned rostering arrangements as well as the creation of the ‘guardian of safe working hours’ role, are designed to address issues surrounding overtime and missed breaks. Provision of hot and cold sustenance and facilitating rest breaks for doctors on long shifts are examples of the eight high-impact actions published by NHS Improvement, recommended as enhancements to the working environments of junior doctors in line with the widespread recognition of the benefits of such provisions in other sectors.

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Table 1. Examples of challenges of previous pre-registration house officer and senior house officer grades with relevant changes included in the Foundation Programme to address these.

<table>
<thead>
<tr>
<th>Challenges of the PRHO/SHO system</th>
<th>Change built into Foundation Programme</th>
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<tbody>
<tr>
<td>Short, stand-alone SHO placements with no overall co-ordination of training</td>
<td>Coordinated set of three to six placements designed to provide a balanced learning experience</td>
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<td>No common competencies across placements</td>
<td>Nationally agreed curriculum with minimum common competencies</td>
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<td>Lack of standardised end-of-placement assessment</td>
<td>Standardised end-of-placement reviews conducted through e-portfolios</td>
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<tr>
<td>Local, varying and often duplicated application process; requirement to apply for each SHO job every 4–6 months</td>
<td>Single centralised, national, standardised application process allocating 2 years of placements; occasional deaneries require selection of F2 placements based on F1 portfolio score</td>
</tr>
<tr>
<td>Service delivery and training imbalance with little accountability of training quality</td>
<td>Aim to readjust this through mandatory, weekly teaching requirement with specific national feedback surveys on training quality</td>
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<tr>
<td>Numbers of jobs based on local junior doctor need rather than workforce demands</td>
<td>Numbers nationally agreed, based on predicted workforce requirements</td>
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<tr>
<td>Placements not allowing for specialty-specific competencies</td>
<td>Focus in Foundation Programme on broad-based, generalisable skills as per General Medical Council’s duties of a doctor</td>
</tr>
<tr>
<td>Lack of formal career advice</td>
<td>Requirement for formal careers advice and access to services</td>
</tr>
<tr>
<td>Disparity between PRHO year reviewed by medical schools but trusts acting as PRHO employer</td>
<td>F1 sign off by postgraduate dean, assessment based by Foundation Programme director in trust</td>
</tr>
<tr>
<td>Limited placements variety with excessive focus on secondary care</td>
<td>Broader range of available placements with recent commitment to ensure more foundation doctors undertake a community placement</td>
</tr>
<tr>
<td>Variable and often lacking supervision</td>
<td>Requirement to have allocated clinical and educational supervisor; national surveys assess level of day-to-day supervision</td>
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F1 = foundation year 1; F2 = foundation year 2; PRHO = pre-registration house officer; SHO = senior house officer
### Table 2. Current challenges to the wellbeing and morale of student and foundation doctors

<table>
<thead>
<tr>
<th>Issue</th>
<th>Brief examples</th>
<th>SFDN response</th>
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| Poor mental health support | Variable access to support systems for SFDs. Fears of implications for progression of career if distress is acknowledged. \cite{6}  
Limited time outside work to engage in stress-reducing activities. \cite{1,18,19}  
Negative stigma attached to mental health difficulties. \cite{6,20}  
SFDs experience, like other NHS staff, higher levels of stress and ill health compared to other professions. \cite{21}  
Stress and associated mental health difficulties result in impaired concentration. \cite{22,23}  | Showcasing local and national examples of innovative initiatives that have improved SFDs’ wellbeing.  
Highlight the feasibility of wellbeing initiatives and the tangible benefits for SFDs and, in turn, medical schools, trusts and health boards, and empower SFDs to become involved in finding practical solutions.  
Presenting a narrative review of student support systems at the Royal Society of Medicine’s Student Policy Initiative.  
Guides are being developed to give members direct experiential advice from SFDs. |
| Financial stress           | Increased tuition fees from £1,000 per year to £9,000 per year, required self-funding of transport to placements and of professional development training required for career progression. \cite{19,24}  
On average, F2s spend £1,854 (5% of their basic annual pre-tax salary) and at most £3,500 on career development courses and examinations. \cite{25}  
Higher relative cost of living, below inflation pay rises and loss of employment packages such as free on-site accommodation and subsidised catering and rising cost of mandatory training courses. \cite{24}  | ‘How to…’ and experience guides promoting the importance of holistic wellbeing, practical peer-written guides on how to navigate situations that can negatively impact on physical health and promote openness, acceptance and recognition of the fact that SFDs will encounter physical stressors. |
| Physical stress            | Ignoring basic needs for food, drink, rest and toilet breaks, to fulfil service pressures. \cite{18,26,27}  
Unwritten rules such as not sleeping on night shifts, irregular hours of work. \cite{28–31}  
Twenty-one per cent of the 2018 national training survey respondents state that working patterns mean that they feel regularly short of sleep and in 2017 that limited access to food onsite affected trainee morale. \cite{16,32}  
Trainees have also stated work patterns led to poor quality learning within workplace and voluntary self-study in personal time. \cite{33}  
Stress reduces physical endurance, immunity and is linked to increased risk for chronic diseases. \cite{34–37}  | Providing guidance on aspects key to maximising wellbeing such as time management; how others have found a balance and a sense of peace / ways to decompress outside work; strategies to ‘fill’ the ‘resilience tank’. |
| Limited spare time         | Undergraduate training requires extensive self-directed study, with more online accountability via monitoring systems embedded into e-learning platforms.  
Both the 2017 and 2018 national training surveys found >50% of junior doctors work overtime due to service delivery demands and reduced staffing numbers; \cite{16,32}  
Portfolio and specialty application preparation requiring investment of time outside of work. \cite{33}  
FDs use an average of 8.1 days of annual leave for voluntary, self-funded educational reasons while 85% of F1s and 100% F2s engaged in voluntary e-learning outside of work to supplement work-based training. \cite{27}  
Reduces resilience and time available to consistently recharge mental and physical batteries and to address personal stressors. \cite{27,33}  | Providing guidance on aspects key to maximising wellbeing such as time management; how others have found a balance and a sense of peace / ways to decompress outside work; strategies to ‘fill’ the ‘resilience tank’. |
| Frequent location changes  | For both medical students and FDs – requiring variable, often lengthy commutes to placement sites compounded by removal of on-site accommodation. \cite{38}  
Location changes often not available well in advance, affecting planning of personal circumstances and life events. \cite{33}  
Location changes removing SFDs from support network.  | Providing peer-authored resources about how to maximise opportunities and overcome challenges associated with location changes.  
Showcasing examples of where undergraduate and postgraduate centres have developed schemes designed to reduce stress of location changes. |
Table 2. (Continued)

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<tr>
<td>Transition from medical student to FD</td>
<td>Translating theoretical or observed knowledge into practice, so feeling ‘unprepared for practice’.</td>
<td>Providing peer-written pieces on key practical and emotional challenges to help bridge the gap between student and FD. Engender a sense of a virtual community, reducing isolation. Pieces that encourage SFDs to articulate their challenges and find constructive solutions. Representing the position of SFDs such as in the recent Royal College of Physicians’ junior doctor prescribing report.</td>
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<tr>
<td>Imbalance between service provision and training</td>
<td>High work intensity, large volume of administrative tasks, rota gaps and reduced opportunities for on-the-job learning. Frequent changes in shift pattern affect protected teaching time and time available for study outside of working hours. Work intensity and shift patterns reduce motivation to study. In the 2016 junior doctor review, junior doctors stated that there was little interest in their own personal development, often due to frequent placement changes. Forty-one per cent of the 2018 national training survey respondents stated workload was heavy or very heavy. Almost 50% of trainees reporting having to work over rostered hours at least once a week. Thirty per cent of trainers felt unable to use the time allocated to them for education for this purpose and 28% stated they did not have enough time for education built into job plan. 32.3% of trainees and 28% of trainers who responded stated educational/training opportunities were being lost due to rota gaps.</td>
<td>Providing advice from SFDs about managing time and projects. Providing personal experiences of SFDs to engender a sense of a community and camaraderie, and tangible pieces of advice and support. Sharing best practice of flexibly delivered postgraduate teaching that combines training requirements with service provision needs.</td>
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<tr>
<td>Qualification and training programmes</td>
<td>Frequent assessments for students, FDs having to spend many off-duty hours on portfolio to complete work based assessments, mandatory audits and evidence competencies. Forty-four per cent of the 2017 national training survey respondents stated that mandatory training was subtracted from study leave allowance.</td>
<td>Advice on managing multiple commitments, personal stories about facing and surviving stressful training/assessment situations. Campaign challenging perfectionist culture by highlighting ‘failure’ as strength.</td>
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<td>Burden of career development placed on trainee</td>
<td>Mismatch between specialty person specifications and FP requirements result in FDs undertaking required professional development in personal time. Ninety per cent of FDs feel the need to develop their curriculum vitae further via voluntary educational activities.</td>
<td>Promoting professional development by co-hosting poster presentation. Providing ‘How to…’ guides and experiences written by SFDs about topics such as how to manage one’s time, meet career development needs while leading fulfilling lives, maintaining good health.</td>
</tr>
<tr>
<td>Poor morale</td>
<td>Prevailing culture prizing perfectionism, studying and working in an overburdened system. More than 50% of F2s in 2017 reporting ‘burnout’ as reason for taking a career break. In 2018, the highest numbers of trainees reporting burnout were F2s at the end of their FP training. Difficulties in FDs’ ability to arrange annual leave when needed, or of sufficient continuous length to provide meaningful rest. Isolation – placement location changes move SFDs away from support network, demonstrates lack of control trainees have over lives. Lack of receptiveness and flexibility of systems such as work/placement rotas. Rigid training structures mean SFDs face stressful challenges and guilt when juggling caring/family responsibilities.</td>
<td>Through providing resources that give constructive solutions and also challenge isolationism, reject perfectionism and recognise burnout, sharing peer and near-peer experiences and advice to provide a sense of community and break down isolationism.</td>
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FD = foundation doctor; FP = Foundation Programme; F1 = foundation year-1 doctor; F2 = foundation year-2 doctor; SFDN = Student and Foundation Doctor Network; SFDs = student and foundation doctors

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for each of which are supported by evidence and/or membership feedback. These are outlined in Table 2.

**SFD career development**

Only 37.7% of foundation year-2 doctors who completed their FP in 2018 immediately commenced specialty training; down from 66% in 2012. Reflecting this, unfilled vacancies increased by 31% since 2016. This trend results in increasing NHS agency staff spend and risks providers’ ability to provide sustainable, good-quality care.

Discussions with FDs have revealed that the likely reasons to delay formal training include gaining experience in different specialties and overseas healthcare systems, and acquiring qualifications not possible in structured training programmes. Interestingly, FDs also placed importance on developing ‘soft’ skills such as time management and networking, as well as being able to pursue elements of a portfolio career which they felt enabled to do outside training.

FDs are typically expected to apply for specialty training programmes shortly after beginning their second year of postgraduate training, often not experiencing their specialty of interest due to limited control over rotation selections. In order to demonstrate commitment to a highly competitive specialty, trainees must plan their application and tailor their curriculum vitae (CV) years in advance. This can result in significant time and financial pressures at a career stage where financial resources are already limited.

Contribution to this issue is the fear of significant difficulties induced by choosing the ‘wrong’ specialty, and eventually needing to switch training programme via a system that does not comprehensively recognise transferrable skills. This is heightened by an increasing rigidity in medical career paths, new contractual terms in England decreasing the potential to receive pay-protection, and the disadvantage that may face candidates with a CV focused on a different specialty. This is also an issue which the GMC is attempting to resolve.

To address these issues, the SFDN established a careers development stream to compile resources to facilitate informed career decisions for SFDs.

This includes ‘How to…’ guides to plan electives – an undergraduate placement, often abroad, with the aim of giving students a different experience of medical practice from their medical school; and ‘taster weeks’ – short postgraduate placements offering insight into specialties outside of an FD’s allocated rotations. Further guides will focus on topics often not formally taught at medical school, such as conference presentations, peer-reviewed research and undertaking quality improvement projects. These resources are aimed to help SFDs to realise their professional and personal goals while contributing to a system-wide effort to tackle unfilled vacancies.

**Year-out-of-training: more than a ‘gap year’**

A major contributor to NHS service provision, the insight that FDs provide goes beyond morale and career issues. One of the SFDN’s focuses is to address a growing workforce challenge – FDs taking time out of training (TOT), often informally named an ‘F3 year’. The number of FDs taking TOT increases year upon year. At present, the majority of these FDs eventually return to take up specialty training posts in the UK. There is little research-based evidence to explain the underlying reasons for this, but theorised reasons are outlined in Fig 1. The richest source of data thus far highlights three broad groups of

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**Fig 1. Proposed underlying reasons for foundation doctors to take a year out of training.**

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motivating factors for deciding on a TOT/F3 year; health and wellbeing, specialty and future career, and training environment dissatisfaction.  

Junior doctors highlighted lack of autonomy, inability to explore future specialty careers, a need to develop non-technical skills and qualifications they felt unable to do in a formal training programme as additional driving forces for taking TOT. 

A recent Scotland-wide survey of FDs examined factors that affected the likelihood of FDs pursuing an F3 year. This study identified five factors that influenced the decision to continue formal training:

- geographical location
- supportive working and learning environment
- good working conditions
- opportunities for professional development
- familiarity with specialty.

Potential earnings did not affect the decision to continue formal training; however, quality of professional development opportunities was a significant factor. FDs who opted for an F3 year placed greater weight on supportive culture and good working conditions than those who applied for further training.

In the interests of workforce planning, it is imperative to examine how the NHS can utilise TOT doctors and facilitate their return to training as well as how to enhance the development of these doctors.

As outlined in Fig 1, many motivations for TOT are pastoral. Enabling these doctors to return to training with enhanced skills and broader experience upsills the workforce and reduces future deficits in middle grade and senior rotas while preventing additional delays in training progression.

More than half of post-FP doctors chose to undertake TOT. Over 90% return to UK training within 3 years. More guidance and advice to enhance the developmental value of this time is in the interests of both FDs and the NHS.

Through signposting and tailored guidance, the SFDN can support easier access to personal and professional development opportunities which are not possible while in full-time training such as research or education qualifications and fellowships, leadership roles or developing new clinical competencies (eg ECHO qualifications). This would allow FDs to pursue professionally enriching experiences without detriment.

In acknowledgement of this, the SFDN is working to address some of these key issues. Actions and outputs include:

- case studies of previous F3 experiences to reflect the diverse possibilities available, particularly valuable to doctors who undertake TOT for pastoral reasons
- guidance for how an F3 year can enhance a doctor’s portfolio and illustrate how these experiences benefit the health service on return to training
- advice on planning an F3 year that incorporates personal and professional development, including the appraisal process.

The SFDN will highlight the unmet needs of these doctors, open discussions about the professional development of doctors who undertake TOT and provide informative, accessible resources. This project should make a tangible and directed difference to those FDs aspiring to improve their experience and development through an F3 year.

Local engagement and communication with SFDs

There is growing evidence of how different teaching methods are more appropriate for different learning requirements. To help improve the influence of the SFDN’s work and engage SFDs with the RCP’s services, activities and work, the local engagement and communications work-stream will be drawing on this evidence pool to deliver its content to members.

Outside the clinical settings, most notably through Schwartz rounds and action learning sets, sharing of ideas and learning with each other in a safe environment helps address the non-clinical demands of working and studying in the NHS, such as emotional and social stress. As discussed earlier, these elements of medical practice are often overlooked despite being a significant contribution to poor morale and burn-out.

Previously, SFDs relied on word of mouth within a close-knit medical firm for extra-contractual and non-clinical information. With the loss of firm-based working, junior colleagues are now more likely to seek advice from unverified online sources. Even with advances in information sharing, reputable, evidence-based answers to key questions are challenging to locate. Historically, the royal colleges have provided professional guidance and the SFDN will offer a natural extension of that role by signposting SFDs to credible relevant resources.

Original content is written by current SFDs using a peer-to-peer framework, a model with a burgeoning amount of evidence, particularly for topics within the ‘unwritten curriculum’. Near-peer and peer-to-peer training supports both engagement and promotion of effective learning. Peers and near-peers have had recent experience of the challenging situations and aspects of training so can offer realistic advice, without the conflict of being involved in the SFDs’ assessments.

As these services are joined by others provided by the SFDN, the value of a dedicated local engagement and communications work-stream will continue to increase. Integrating this from the outset of the network’s activities ensures a clear strategy on both the production and dissemination of resources for SFDN members.

Conclusion

SFDs are faced with an increasing number of challenges across domains including training, career progression and morale. Many of these are based on long-standing problems although some have been exacerbated by recent trends within healthcare and wider society.

As the group that will face the greatest impact from future training and healthcare reforms, it is important that SFDs are involved as partners in future change and that their unique insights are integrated as part of holistic solutions. Furthermore, as a major component of current and future NHS service provision, it is imperative that measures to improve their engagement, morale and retention within the NHS are considered seriously and given sufficient resources.

Multiple bodies already have dedicated groups for addressing SFD issues. However, recent junior doctor industrial action has shown that the royal colleges can play a different role in brokering constructive solutions to workforce problems. As part of the RCP, the SFDN with dedicated work-streams for working lives, career development and local engagement and communication can offer positive, informed solutions.
References

Rebuilding medical morale from its foundations


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