Primary Care in the world of Integrated Care Systems: Education and Training for General Practice

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Introduction

The landscape of healthcare in the UK is undergoing seismic shifts as we navigate the evolving working conditions of a rapidly aging and expanding population, coupled with an increasing prevalence of chronic diseases and clinically complex patient cases.[1] Developing a system that prioritises efficiency and value in healthcare delivery, while simultaneously enhancing patient experiences and outcomes has become crucial. In response, governing bodies have adopted integrated care as a fundamental principle to enhance coordination and continuity within and between heath sectors.[1] However with over 175 documented definitions of integrated care, and no single model proven to suit all circumstances, grasping the precise meaning of "integrated care" and operationalising it is problematic. Coming from the perspective of a group of GP educators, this article describes an aspirational integrated healthcare service for patients, some current educational initiatives supporting the required skills, and considerations for additional educational measures to meet the evolving roles of GPs and other clinicians within integrated care systems (ICSs).

What is the current system?

ICSs, a key component of the NHS Long Term plan,[2] offers a vehicle for delivering integrated care, aiming to unite primary, secondary, social care and local government.[3] Statutory ICSs comprise of two key connections; integrated care boards (ICBs) and integrated care partnerships (ICPs).[3] ICBs play a pivotal role within ICSs as the architects of healthcare plans to meet the needs of the population, while ICPs comprise statutory committees which unite broader systems (e.g. local government and NHS organisations). While the literature broadly explores the principles and structure of ICSs,[3] there is no blueprint for defining the specific operational responsibilities of individuals and providers, nor the mechanisms which enable effective connectivity.

What needs to change because of integrated care needs?

Much like a coastline, external forces create constant shifts to the shape, map, and content of any integrated healthcare system. With every shift, healthcare practitioners within and across sectors are also expected to adapt their skillset. As such with the introduction of ICSs across England in July 2022, there is a pressing need to ensure GPs and other healthcare professionals are well-prepared, at both undergraduate and postgraduate levels, to be competent to deliver the evolving integrative working practices.

Overcoming the barriers that currently hinder the connection between primary and secondary healthcare requires more than just increasing the supply of GPs and other healthcare professionals- a key aim of the NHS workforce plan.[4] A paradigm shift is required, moving towards incorporating secondary care specialists into community roles, but also instilling the necessary mindset and skills in all healthcare professionals, to embrace actively and contribute to integrative healthcare practice. Fostering this collaboration between primary and secondary care also relies on cultivating mutual respect. Historically and currently, achieving parity of esteem poses a particular challenge for GPs where their roles and competence may not be fully understood and so susceptible to undermining in secondary care,[5] damagingly witnessed by undergraduate and postgraduate learners. Bridging this gap requires prioritising work to create mutual understanding as well as addressing parity of status.

The RCGP are in the process of agreeing a new definition of general practice (currently going through the RCGP Council),[reference/RCGP council video] which encompasses the extended role of general practice envisioned in an ICS, importantly emphasising the parity of esteem required between different specialties through renaming GPs as Consultants in General Practice. Ideally, ICSs would facilitate the seamless provision of medical care for patients across and between primary (providing expert generalist care)[6] and secondary care (providing expert system-specific care). In order to achieve this, hospital consultants would deliver care in the community, collaboratively with general practice consultants, and other practitioners. This enhanced advanced generalist role is championed by recently qualified GPs

who advocate for population health, sustainability, and leadership as key tenets of a reformed postgraduate training curriculum.[7]

The role of medical generalism is becoming increasingly crucial in reshaping healthcare to meet the changing demands of an aging population dealing with multiple chronic conditions. Medical generalism in primary care represents an approach to healthcare delivery that goes beyond the actions and thought processes of healthcare professionals; it encompasses their broader perspective on the world.[8] One essential trait of medical generalists is their ability to view their patients and their health concerns through the comprehensive lens of the patient's life, acknowledging and embracing the diverse ways in which these lives unfold, all while maintaining a holistic perspective on the individual. This approach demands a particular set of knowledge and competencies including consultation, physical examination, clinical reasoning, and clinical management.[6] Instilling the values and competencies of medical generalism into both undergraduate and postgraduate GP training is an important consideration, particularly to provide students with a profound understanding of patients' experiences with illness, the influence of social determinants on health, the spectrum of diseases and their natural progression, as well as a deep appreciation of the biopsychosocial dimensions of health issues and the art of clinical consultation, in which generalists excel.

In addition to adapting their scope of clinical practice within ICSs, GPs are well placed to utilise their expert generalist clinical skills and take on clinical leadership roles, collaborating closely with their secondary care colleagues to share clinical accountability and co-pilot ICBs to shape comprehensive care strategies and lead initiatives that transcend organisational boundaries. Effective leadership, and the involvement of experts in continuous care is paramount to steer the system towards success, and GPs, being expert providers of generalist continuous care, are well-positioned for this responsibility.

The characteristics of GPs desired by patients is an important consideration within ICSs, and may well vary significantly depending on the patient demographics. When investigating patient consultation behaviour using cross-sectional surveys,[9] it becomes apparent that patients seek a GP whom they can see rapidly and

conveniently. However, most patients express a preference for consulting with a GP of their choice, even if this entails a longer wait, particularly for older patients and those with chronic conditions.[10] It is evident that the interpersonal aspect of continuous care takes precedence,[11] and correlates to person-centred care, quality of care and patient empowerment.[12] Therefore an emphasis on continuous, patient centred care is a further pivotal training consideration.

What would a new integrated care GP training programme look like?

As we consider the changing roles of GPs within ICSs, there arises a question about the sufficiency of current undergraduate and postgraduate education provision for the anticipated responsibilities demanded by these new care systems. Traditionally, medical training for GPs followed a 'trickle down' model, assuming that secondary care experience will be valuable for generalists in the community, mirroring traditional, but increasingly outdated, models of healthcare practice. Whilst exposure to the sizeable volume of cases, and pathophysiology found in patients being cared for in hospital does develop confidence in disease recognition and management,[13] care needs to be taken to ensure that not too many of the hours in traditional secondary care specialist posts are of limited value to generalist doctors in the community – such as 'theatre' hours and delivering interventions not used in primary care.

In our efforts to train the workforce for working in ICSs, we can draw valuable insights from past organisational integrations e.g., Primary Care Trust clusters. These experiences highlight effective leadership and professional relationships as fundamental factors in achieving success.[14] As such, to prepare GPs (and Specialists) adequately for operating within ICSs, it is crucial to prioritise the development of collaborative skills,[15] an area that currently lacks sufficient emphasis in medical education.[16] The foundation of collaborative practices in the workplace relies on health workers who have undergone comprehensive training in interprofessional working, including education. Collaborative training also offers the opportunity to develop a new mutual understanding of the complexity, value and impact of all roles within a multidisciplinary complex healthcare community.

i) Integrated care in undergraduate medical education

Over the past two decades, education and training in undergraduate primary care have seen significant expansion. There has been a notable shift away from isolated, late-onset, and observational primary care placements to early, integrated, and learner-centred community healthcare experiences. The collaborative efforts to integrate community-based teaching into undergraduate medical education have yielded considerable success,[17] not only in providing early exposure to primary care, but also in offering substantial educational value and fostering opportunities for inter-professional learning.[18] One example of this is the development of longitudinal integrated clerkship (LICs),[19] where students follow patients across the healthcare system, developing learning relationships with patients and clinicians across multiple disciplines. LICs expose students to continuous and patient-centred care, whilst also meeting core clinical competencies outside of learning within speciality silos.

However, despite these endeavours, existing medical school training programmes have yet to adapt fully to the evolving healthcare agenda. They fall short in adequately preparing future doctors for effective collaboration, lacking emphasis on cross-organisational and cross-disciplinary training, and an understanding of population health, with uncertainty on how best to implement this.[20] As we continue to navigate the landscape of ICSs and role changes for GPs and other healthcare professionals, it becomes evident that a paradigm shift in primary care undergraduate education is necessary. We must move away from the traditional model of training undergraduates to deliver transactional care and shift towards embracing collaborative and advanced generalist medicine,[21] disrupting the educational juggernaut.

Obstacles also exist that hinder integrated working practice in undergraduate training, including a curricular focus on disease/system-specific aspects of patient care, reinforced by the content of undergraduate assessment, including the new National Medical Licensing Assessment,[22] which in its current format fails to represent primary care adequately. In addition, there remains a heavy emphasis on specialist teaching in secondary care environments, and minimal opportunities for

collective teaching as a multidisciplinary team. Community training hubs for non-medical professionals are evolving strong inter-disciplinary training in the community,[23] and facilitative work needs to support medical undergraduate engagement with this. Apprentice type medical training may prove to strengthen these aspects of undergraduate training, but if focused within secondary care, these could just replicate the problems of more traditional MBBS courses.

Consequently, curricular innovations involving authentic collaborative experiences are essential, e.g., experiential learning through designing and implementing authentic workplace-based integrated care projects that cross the primary and secondary care boundaries. Students can gain valuable clinical experience and an early introduction to leadership skills whilst enhancing their understanding of integrated care principles. It is also essential to enhance students' exposure to authentic primary care experiences including opportunities to explore the dynamic, flexible, and attractive range of career options available in general practice, and to the unique primary care skills often overlooked within undergraduate training such as holism, leadership, service improvement and continuity. By incorporating dynamic and innovative primary care placements, such as those within ICSs and academic primary care roles, students can develop a comprehensive understanding of the complexities and diversity of primary care beyond managing unfiltered need, now triaged to alternate sources of advice and management – both digital and clinical. This first-hand experience allows students to witness the leadership, management, sustainability, quality improvement, and population health considerations associated with primary care roles within integrated care. However, challenges arise due to the current instability and funding limitations of these roles, which often result in a restricted capacity to accommodate the required numbers of students.

ii) Integrated care in postgraduate GP training

The literature, though limited, highlights postgraduate medical training as an effective platform for the inclusion of integrated care.[24–27] 'Training the future GP',[28] an extensive blueprint, encompasses various strategies for achieving this, such as extended time spent in primary care, the introduction of integrated posts, and the provision of targeted knowledge and skills training to meet the demands of ICSs.

This also includes roles beyond traditional GP practice, such as GPs with special clinical interests (GPSCI), rapid response services, and chronic disease intermediate care teams.

The 'Learning Together' programme is an educational intervention offering to facilitate joint learning among doctors. As part of this, GP registrars conduct joint clinics in primary care with speciality registrars e.g., paediatrics and psychiatry, embodying the mantra, 'those who learn together, work better together'. This aims to enhance generalist and specialist trainees' understanding of the principles and benefits of integrated care, while fostering teamwork, communication, and a patient-centred approach. This collaborative working experience, though not currently widespread (56 GP practices across London and surrounding areas),[29] has proven to be cost-effective,[30] and positively impactful to trainees' learning and patient satisfaction.[31]

Despite the expectation for trainees to excel in integrated and collaborative healthcare systems, their education predominantly occurs in segmented services that prioritise specialised knowledge within specific disciplines. To bridge this gap, integrated training posts (ITPs) have been introduced to provide a more comprehensive approach. Through ITPs, GP trainees divide their time between general practice and other clinical specialties in diverse settings, including community and hospital settings, as well as opportunities for education, research and leadership. This integrated approach better prepares GP trainees for General Practice in the wider career setting and for integrated roles.[32,33]

As we envisage GPs leading change within ICBs, developing leadership skills is crucial. 'The Big GP Consultation' also emphasised the value that GPs place on developing these skills,[7] particularly to have a meaningful voice to shape ICS delivery. While the current GP training programme lacks capacity to fully address this, The General Practice Fellowship Programme introduced as part of the NHS Long Term plan aims to equip newly qualified GPs with the necessary skills,[2] knowledge, and leadership capabilities to work effectively within ICSs. The fellowship programme emphasises continuous professional development and provides opportunities for GPs to contribute to strategic planning and decision-making.

However, capacity of the programme, the logistics of commitment time and career structures remain uncertain. Clinical leadership commitments for GPs, though necessary, take time away from direct patient care, exacerbating the existing workforce crisis. This can impede meeting the clinical needs of the community, especially for complex co-morbid patients in need of continuous care.

iii) The future of integrated care within postgraduate GP training

While many of the emerging postgraduate GP training activities described garner collaborative working and leadership skills in preparation of ICS working, the traditional training programme has been driven by the ongoing recruitment and retention crisis for general practice.[34] With one of the shortest GP training programmes amongst advanced economies, three years (whole time equivalent) is no longer sufficient to cover the breadth of skills, experience and knowledge required for the new GP. The RCGP presented a proposal to extend training in 2012,[35] but this has not materialised owing to financial and organisational barriers highlighted in the Greenaway report 'Shape of Training'.[36] The aspiration to longer training now seems more important than ever to meet the additional demands of ICSs. Newly qualified GPs have expressed their concerns with feeling underprepared for the increasing complexity of patients,[37] and new roles within ICSs.[7] By extending the training duration, trainees could gain both generalist and enhanced skills (e.g., leadership and management), a long-term investment. However, currently investment in GP training remains a large barrier, particularly during a time of deep austerity.

Academic primary care offers a further valuable avenue to enhance GP training for ICS working, driving system development and evaluation. Initiatives like Wise GP and the CATALYST programme exemplify this approach,[38,39] providing platforms for GPs to engage in expert knowledge acquisition, research, and leadership skill development within primary care. These initiatives champion the integration of scholarship into daily general practice. This is especially relevant when considering the context of secondary care, where clinical scholarship is more commonplace, and the pursuit for higher degrees, such as MDs and PhDs are encouraged in order to secure competitive training and consultant positions, as seen in fields like

neurology.[40] Although primary care has made significant strides in academic growth,[41] its expansion has been hindered by capacity and funding constraints. Compared to other specialties, academic training and employment opportunities for GPs remain relatively limited. Furthermore, the appetite to engage in research experience is not there amongst GP trainees,[42] and trainers feel inadequately equipped to provide such opportunities. Wise GP and the CATALYST programme are examples that pave the way as we work to address this gap, cultivating opportunities for collaborative scholarship in the integrated healthcare workspace.

The NHS workforce plan also outlines strategies to strengthen postgraduate training for integrative practice such as the inclusion of general practice placements for all foundation doctors,[4] aiming to shed light on the dynamics of primary care and encourage a culture of collaboration. However, as additional plans are already underway to implement medical degree apprenticeships, expand the Additional Roles Reimbursement Scheme (ARRS), and allow GP trainees to practise solely in primary care during their three-year training, the demand for qualified GP supervision is higher than ever before. The prioritisation and availability of placements for medical students, GP trainees, and apprentices are unclear especially since the publication of the workforce plan.[4]

Conclusion

As we embrace a new era of integration within the NHS, the role of GPs is undergoing significant transformations to align with the demands of ICSs. A key challenge is developing a synergy between system innovation and workforce development. External forces, whether related to specialty shortages, climate, sustainability, disease, or economic environments, often drive changes in the system, and these changes can occur far ahead of workforce and system preparedness. The Covid-19 pandemic showed the best and worst of how a system can undergo rapid change and innovation, with acute gains and chronic losses, and how the workforce needs to be able to follow the needs of the system. How we can promote and support a workforce with the energy for continuous development and change is not yet clear, though the Pandemic and beyond has shown us how to do the opposite. Working conditions, pay, and providing a system with sufficient human

and fiscal resource to avoid moral distress during care, are basic necessities for attracting learners and retaining highly trained staff, with excellent continuing professional development following close behind these basic provisions.

Importantly, it is crucial to acknowledge that the progression towards fully integrated healthcare systems may inadvertently result in fragmentation in other areas.[43] This concern assumes greater significance as we embark on this transformative journey amidst a backdrop of political uncertainty, economic instability, prolonged waiting times for treatment, industrial actions by healthcare professionals, and staff shortages. While integration is pursued, patients may well encounter and perceive elements of fragmentation, emphasising the necessity to collaborate with key stakeholders, including patients themselves, in the co-construction and evaluation of interventions and practice changes that lie ahead.

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