Setting the scene for paramedics in general practice: what can we expect?

Kamal R. Mahtani  
GP & Deputy Director, Centre for Evidence Based Medicine, Nuffield Department of Primary Care Health Sciences, University of Oxford

Georgette Eaton  
Senior Lecturer Paramedic Science, Department of Psychology, Health and Professional Development, Faculty of Health and Life Science Oxford Brookes University

Matthew Catterall  
Principal Lecturer & Programme Lead (Paramedic Practice), Department of Psychology, Health and Professional Development, Faculty of Health and Life Science Oxford Brookes University

Alice Ridley  
Specialist Paramedic, The Doctors House, Marlow Medical Group, Buckinghamshire

Address for correspondence  
Kamal R. Mahtani, Centre for Evidence Based Medicine, Nuffield Department of Primary Care Health Sciences, University of Oxford  
Email: kamal.mahtani@phc.ox.ac.uk

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Primary care services in England may be reaching saturation point. Demands to see a GP or practice nurse have increased substantially. Clinical complexity has also increased; patients are living longer, but with more multimorbidity.(1) These demands are mirrored by a decline in the GP workforce, despite political pledges to reverse this.(2)

New strategies are needed to tackle the current pressures in general practice and reduce the risks of harm to patients. The NHS England GP Forward View advocates investing and developing new models of care, including expansion of a multidisciplinary, integrated primary care team.(3) These recommendations reflect the findings of the Primary Care Workforce Commission, who highlighted the potential roles for clinical pharmacists, physician associates, and physiotherapists, all substituting into current GP care pathways.(4)

The Commission also recommended that general practices should consider more opportunities to use the skills of paramedics in primary care. Specific roles may include running clinics, triaging and managing minor illnesses, as well as provide continuity for patients with complex health needs. Further roles may include assessment and management of requests for same-day urgent home visits, as well as regular visits to homebound patients with long-term conditions. The commission highlighted that these innovative roles should be subject to further evaluation. Nevertheless, historical and current perspectives allow us to model how the role could be fully used.

**Paramedics as primary-care generalists**

Paramedics have a track record in providing flexible and innovative ways of delivering extended clinical care. Such developments have predominantly centred around enhancing practice in the ambulance service; such as using specialist paramedics to attend to patients calling 999 with apparent minor injuries or illness following call-taker triage. But innovations by paramedics are increasingly being recognised in other arenas. This is partly because of the expectation that a UK paramedic can provide generalist care as an autonomous allied healthcare professional, for which several advantageous have been identified, including reduced conveyance to emergency departments, increased patient satisfaction with paramedic care, and efficiency benefits.(5)

The profession is regulated by the Health and Care Professions Council and the College of Paramedics act as the professional body. The College in particular supports the extended provision of clinical service, alongside increased educational/professional preparation.(6) The College’s Subject Benchmark Statement (SBS) defines the expected competency from a paramedic graduate as “an autonomous practitioner who has the knowledge, skills and clinical expertise to assess, treat, diagnose, supply and administer medicines, manage, discharge and refer patients in a range of urgent, emergency, critical or out of hospital settings”.(7) Newly qualified paramedics are expected to provide care across all practice areas, and the undergraduate curriculum endorsed by the College of Paramedics is designed to ensure that paramedics have effective core skills in their generalist roles. Some graduates go on to develop further skills, taking on Specialist, Advanced, and Consultant Paramedic roles (Table 1).
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<th>Qualifications</th>
<th>Expected competencies</th>
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<td>Paramedic</td>
<td>Individuals hoping to gain entry to the paramedic register must undertake an approved education programme that demonstrates achievement of the standards of education and training and standards of proficiency for paramedics. There is no requirement to follow the undergraduate curriculum guidance issued by the College of Paramedics.</td>
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<tr>
<td>Specialist Paramedic (SP)*</td>
<td>Their post-graduate education is designed to develop knowledge, abilities, and clinical expertise to an enhanced level of practice, to allow complex decision making, competence and judgement in their area of specialist practice. In the workforce, SPs are used to provide additional assessments to enable diagnosis and treatment, which may include the administration of appropriate medications, including those from patient group directions (PGD).</td>
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<td>Advanced paramedic (AP)</td>
<td>Their knowledge base, clinical responsibilities, and leadership are most similar to those of advanced clinical practitioners in other professions, such as nursing, pharmacy, and occupational therapy. The ability to undertake independent prescribing is aimed at clinicians operating at this level and above. A change in legislation is being awaited to allow this to go ahead following recommendation by the Commission on Human Medicines (CHM).</td>
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Consultant paramedic  Clinical/Professional – Doctorate  HE – Level 8  
Capable of applying highly developed theoretical and practical knowledge over a wide range of clinical, scientific, technical, and/or management functions, which include; clinical/professional leadership; expert practice; policy and service development, research and evaluation; and education and professional development

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<th>Table 1: Paramedic skill mix (adapted from reference 8)</th>
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<td><em>Other names for this group of paramedics have emerged through different healthcare providers; they include emergency care practitioner, community paramedic, enhanced paramedic, paramedic practitioner, and specialist practitioner. We adopt the term Specialist Paramedic, as advocated by the College of Paramedics.</em></td>
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The generalist skill mix of the modern day paramedic creates possibilities for them to work in a range of domains. Primary care is one domain in which additional capacity is desperately needed. Both specialist and advanced paramedics can work in primary care with differing degrees of autonomy, decision making, and treatment options within their scope of practice. Early review pointed to paramedics being deployed into primary care roles that included centralised telephone triage, on-scene acute care delivery, and intermediate community care support schemes (9). However, there is now growing recognition that the generalist skills of the paramedic should be deployed into in-hours general practices.

Current and future implementation

The General Practice Forward View made a commitment to grow the wider workforce in general practice by a minimum of 5000 staff. However, there was no formal requirement that this workforce should include paramedics. Nevertheless, although absolute numbers remain small, between September 2016 and March 2017 the number of paramedics working in general practice doubled, increasing from 75 to 150.(10)

The NHS England GP Access Fund (formerly the Prime Minister’s Challenge Fund) served as a platform to test, and to some degree, evaluate how paramedics can be deployed in primary care. The scheme was specifically introduced to help improve access to general practice and increase innovation in primary care. The first evaluation report highlighted at least four sites, among the 20 awarded funding, who piloted a range of models in primary care working with the ambulance service and paramedics.(11) In the South Kent Coast, specialist paramedics provided home visit support and dispensed some acute medications to community based patients. The service reportedly saved 720 GP appointments. In Workington, Specialist
Paramedics were deployed into A&E departments to determine whether patients could have been more appropriately treated in a Primary Care Centre.

With a background as a paramedic, SPs are already experienced in assessing patients in their own home and SPs are also highly skilled at identifying care needs and directing these to other primary, secondary, or social services. A general practice SP should also be competent in assessing patients who present themselves to the surgery acutely unwell, including managing complaints such as chest pain, bouts of palpitation, abdominal pain, and breathlessness. One author (AR) currently works as an in-hours specialist paramedic in general practice, and here gives two anonymised case studies reflecting the type and context of care she provides (Table 2).

| Case 1 | All home visits are directed to the Specialist Paramedic (SP). The SP is managing an 87 year old lady with heart failure, atrial fibrillation, and depression. She lives alone. The SP has built a relationship with the patient through regular visits for INR monitoring and flu vaccination. However, over a period of a few weeks the patient's breathing has deteriorated, alongside her mobility and mental health. The SP conducts regular home visits, and these include a physical assessment which on this occasion leads to the patient being referred to the local day assessment unit and reviewed at the surgery multi-agency group meeting (including social services, the community physiotherapist, and the mental health team). The day assessment unit faxes across her discharge summary and the SP liaises promptly with the patient’s GP to ensure that the action points have been addressed. This includes referral for further scans and changes to her medications. The SP is in close communication with social services and the wider multidisciplinary team, so together they listen to the patient’s wishes and the patient is able to move to a local residential home, in the catchment area for the same GP surgery. The SP visits this residential home weekly, which allows for continuity of care. |
| Case 2 | A 64 year old man attends the same-day rapid access clinic (RAC) in the surgery. The RAC is run by a multidisciplinary team of a minor-illness nurse, a SP, and a duty doctor. The patient complains of chest pain and is assessed by the SP, who takes a comprehensive history and physical assessment and promptly records an ECG. The patient is given aspirin and glyceryl trinitrate spray. The SP rings the cardiac unit, and the patient is admitted to hospital. |

Table 2: Case studies of care provided by paramedics in general practice

Conclusions

The NHS GP Forward View and the Primary Care Workforce Commission have both recommended an increase in the number of GPs as well as the development of a
multidisciplinary primary workforce, which includes general practice-based paramedics. The NHS has already had a positive public response to proposals to introduce independent prescribing by paramedics, facilitating new roles in primary care (12). However, the empirical evidence base to support these roles is currently weak, and implementation is largely based on innovative case studies. The current opportunities for employment in general practices still requires careful evaluation for clinical outcomes, value, and satisfaction.(13) Consideration should also be given to growth of paramedics’ roles in this setting and the potential impact on ambulance services. Nevertheless, the scene is set for the general practice paramedic, and it seems highly probable that paramedics will become regular members of integrated multidisciplinary primary care teams of the future.

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References


