Since 1948 health care in the United Kingdom (UK) has been centrally funded through the National Health Service (NHS). The NHS provides both primary and specialist health care which is largely free at the point of delivery. Family practitioners are responsible for registered populations of patients and typically work in groups of 4–6 self-employed physicians. They hire nurses and a range of other ancillary staff, and act as gatekeepers to specialist care. Recent reforms include a wide range of national quality improvement initiatives and a pay for performance scheme that accounts for around 25% of family practitioners’ income. These reforms have been associated with some major improvements in quality, including improved chronic disease management and reduced waiting times for specialist care. The four countries of the UK differ in some important aspects of health care organization: proposed reforms in England would move towards a more market-driven system, with family practitioners acting as payers for specialist care and controlling 70% of the NHS budget. The other countries (Scotland, Wales and Northern Ireland) focus more on trying to create area-based integrated systems of care. (J Am Board Fam Med 2012;25:S6–11.)

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for more specialist care (for example, services for those who misuse substances). Using this income, GPs employ staff in any configuration they wish; GPs’ take-home pay is the practice’s profit. Currently, the average net pay of a GP is slightly more than the average NHS income of a specialist.

**Infrastructure**

*Workforce and Patterns of Work*

General practices remain small, physician-owned businesses, but there have been significant changes over the last 20 years. Practices have grown from an average size of 5726 patients in 2000 to 6610 patients in 2010, with the proportion of solo practices falling from 22.8% to 14.5% and the average patient panel per GP falling from 1795 to 1567 over the same period. Currently, the average net pay of a GP is slightly more than the average NHS income of a specialist.

**Information Technology**

In 1990, the introduction of payments for reaching cervical cytology and immunization targets required GPs to establish recall mechanisms. Many responded by buying computer systems; this was facilitated by the NHS, which covered 50% of the costs if the systems met government-defined standards. By the end of the decade, most GPs were using computers to print prescriptions and a substantial minority had made their own clinical record fully electronic. In 2004, the data requirements of QOF P4P system led most GPs to move to full electronic clinical records. The government at that time also moved to cover the full cost of GP computer systems. Because GP payment has virtually no fee-for-service element, clinical computer systems have been designed for clinical purposes and to measure quality rather than for billing. Many practices have now moved to fully paperless records. Because records follow the patient when they change practices and specialists routinely write to GPs after a visit or admission, primary care records, in principle, contain a lifelong record of patient’s medical care.

**Area-Based Primary Care Organization**

GPs are accountable for the care they provide through the contract they hold with the NHS. Local NHS administrative organizations, currently Primary Care Trusts in England and Health Boards in Scotland, have the responsibility for im-

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Table 1. United Kingdom General Practice Consultations, 1995 to 2008

<table>
<thead>
<tr>
<th></th>
<th>1995</th>
<th>2008</th>
</tr>
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<tbody>
<tr>
<td>Consultation rate per person registered</td>
<td>3.9</td>
<td>5.5</td>
</tr>
<tr>
<td>Clinician consulted (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GP</td>
<td>76</td>
<td>62</td>
</tr>
<tr>
<td>Practice nurse</td>
<td>21</td>
<td>34</td>
</tr>
<tr>
<td>Other</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Place of consultation (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Practice premises</td>
<td>86</td>
<td>82</td>
</tr>
<tr>
<td>Home visit</td>
<td>9</td>
<td>4</td>
</tr>
<tr>
<td>Phone</td>
<td>3</td>
<td>12</td>
</tr>
<tr>
<td>Other</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Average length of consultation (min)*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GP</td>
<td>8.4</td>
<td>11.7</td>
</tr>
<tr>
<td>Practice nurse</td>
<td>NA</td>
<td>15.5</td>
</tr>
</tbody>
</table>


GP, general practitioner; NA, not available.
plementing national policy, monitoring practices, and implementing local quality improvement and financial incentive schemes. Prescribing is an example of an area in which there has been long-standing engagement between practices and larger NHS organizations, starting with feedback of comparative prescribing cost data, which developed into regular educational outreach visits by prescribing advisers, and the creation and more recently incentivization of local prescribing indicators. In England, these organizations are subject to frequent politically driven reorganization that causes repeated disruption; this is sometimes termed reorganization.6,7

Creating and Sustaining Change/Transformation

Change in primary care continues to rely significantly on the entrepreneurialism and professionalism of GPs, although with the support and leadership from professional organizations such as the Royal College of GPs, which has historically led primary care standard setting and quality accreditation schemes. However, system-wide change is usually driven by national policy. Despite overall high standards, the gap between the least and most progressive practices remains wide. There are good examples of successful improvement in quality (refer to Quality and Safety), but 2 areas that have proved persistently problematic are out-of-hours (OOH) care and improving care coordination.

Out-of-Hours Care

Until 2004, GPs had 24-hour responsibility for the care of their registered patients. OOH care was at that time largely delivered by area-based cooperatives of GPs, which provided OOH care mainly through home visits. In 2004, the local NHS administrative organizations took over responsibility for OOH care. They most often contracted care to a commercial organization (sometimes run by local GPs) that employed doctors and an increasing number of nurses and that progressively provided care at purpose-built facilities rather than at the patient’s home. There has been considerable disquiet over the standard of OOH care under these new arrangements,8 particularly in England, where responsibility for OOH care will return to GP leadership in 2013, albeit as the responsibility of Commissioning Consortia rather than individual practices.

Care Coordination

In principle, GPs are responsible for coordinating the care of individual patients, which is facilitated by their gatekeeper role and by having a comprehensive patient record. International surveys suggest that UK primary care is rated high by patients in terms of coordination,9 but existing models of care do not always meet the needs of the increasing number of elderly, comorbid, and frail patients in the community. In response, policy has created new services for patients who are at particularly high risk of hospitalization, including the development of predictive risk models to identify patients for intensive care management (by “community matrons” in England). However, the evidence that these new services are effective is weak; continuity of care becomes more difficult as teams get larger,10 and there is a tension between providing rapid access and personal continuity of care.11 Integration across primary–secondary care and health–social care boundaries, and addressing the needs of increasingly elderly and comorbid populations, remain significant challenges.

Quality and Safety

Quality Improvement Initiatives (Including P4P)

In 1990, the United Kingdom introduced modest P4P in primary care in the form of payments for reaching target levels of childhood immunization and cervical cytology. This led to increased performance followed by a slower reduction in socioeconomic inequalities.12,13 In 1998, the NHS embarked on a widespread program of quality improvement under the general heading of “clinical governance.”14–16 This included the development of national clinical guidelines and national service frameworks to guide implementation of improvement activity; a body to make recommendations about cost-effective treatments in England (NICE, www.nice.nhs.uk); the introduction of annual appraisal for all NHS doctors; district-wide audits of clinical care, with identifiable data being shared with practices and sometimes with patients; and a range of local financial incentives schemes for quality improvement. These were associated with significant improvements in quality of care.17

In 2004, a new and much more ambitious P4P scheme was introduced in general practice, with 20% to 25% of GPs’ income dependent on a complex set of ~75 indicators relating to clinical care
and 75 relating to practice organization and patient experience (the QOF). Since 2004, new clinical topics have been introduced and payment thresholds have been raised gradually. An important feature of QOF is that GPs can exclude patients if they judge that incentivized care would be inappropriate for particular individuals. A scheme to tie GP payments directly to patient experience survey scores was introduced in 2008, but it proved problematic and was withdrawn in 2011. In general, QOF financial incentives have produced some increase in the rate of quality improvement for major chronic diseases, but this against a background of quality that was already improving rapidly. The introduction of QOF has been associated with reduced socioeconomic inequalities in the delivery of care and may in some cases have helped to reduce emergency hospital admissions. Public reporting of QOF results is likely to have contributed to quality improvements alongside financial incentives, and these were probably larger than they needed to be. P4P has changed both the organization of practices and relationships within them, and it has changed care in ways that sometimes have been unfamiliar to and unwelcomed by physicians. Measured negative impacts on nonincentivized conditions seem to have been small, but critics believe that QOF has introduced a negative “tick box” culture into primary care. Despite recent improvements, there remains a substantial gap between the best and the poorest practices and a range of areas where quality could still be improved.

Commissioning in a Health Care Market and Its Alternatives

Under proposals to be implemented in England by 2013, consortia of general practices (Clinical Commissioning Consortia) will be given control of two thirds of the entire NHS budget for specialist and hospital care for their patients, though the original proposals are to be modified as a result of professional and public concern. The government’s rationale for giving GPs such power is that they have responsibility for defined populations and are therefore the best placed to identify and meet those populations’ needs. This builds on previous experiments that gave GPs budgets to purchase hospital care (GP fundholding), which had some modest benefit although it may also have increased inequalities. In contrast to NHS England’s reliance on quasimarket mechanisms and strongly managed, centrally set targets to drive improvements in quality, the other 3 UK countries (Scotland, Wales, Northern Ireland) have chosen to focus on trying to create more integrated, area-based “single system working,” which relies on encouraging professionally led collaboration. The reforms in England remain highly controversial, partly because of the expanded role given to GPs with potential conflicts of interest between their twin roles as care providers and budget holders, and partly because of the increased opportunities for the commercial health care sector that the reforms introduce. It remains unclear which approach will deliver the best outcomes in the long run, but in all UK countries, past and present governments remain committed to keeping primary care central to the delivery of care in the NHS.

Key Lessons

The United Kingdom has health outcomes that are broadly comparable with other, more costly health care systems. There are, however, some areas of continuing concern, including mortality for conditions that are considered amenable to health care and for which the United Kingdom performs worse than many other European countries (though similar to the United States) and outcomes of cancer care. The NHS is generally highly regarded by the British public, who are largely accepting of the GPs gatekeeping role and surprisingly tolerant of system failures when they occur. Primary care remains at the heart of successive governments’ health care policies.

The core strengths of UK primary care remain universal registration with a primary care practitioner, relatively good access to primary care in terms of both distribution of GPs and speed of access, gatekeeping to specialist care, lifelong primary care records that follow the patient when they move practices and that are now almost always electronic, and care that is mostly free at the point of delivery.

That primary care practitioners have responsibility for a defined population enables them to be held accountable for the quality of care they provide. Quality of care in the United Kingdom has improved substantially in the last 10 years, most evidently in chronic disease management, which has been associated with multiple quality improvement strategies, including P4P. Nevertheless, as with all health care systems, there remain many challenges,
including providing comprehensive care with and continuity of care by a workforce that is increasingly part time. This is because of an increase in the number of both men and women who work part time and to the increasing size of general practices. At the same time, the need for continuous comprehensive care is increasing with a growing elderly population with multiple medical conditions.

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