Primary care and ophthalmology in the United Kingdom

S F Riad, J K G Dart, R J Cooling

The National Health Service is now primary care led. There are different definitions for primary care and in this review they are analysed and related to ophthalmology to produce a working definition for ophthalmic primary care, summarised as the provision of first contact care for all ophthalmic conditions and follow up, preventive, and rehabilitative care of selected ophthalmic conditions, in a variety of settings, by a diverse workforce. The attributes of primary care are first contact, accessibility, continuity, longitudinality, comprehensiveness, coordination, equity, and accountability. The delivery of ophthalmic primary care should be governed by these and evaluated accordingly. The clinical content of primary care consists of the first presentation of disease, the management of minor illness and trauma, the recurrence of disease, the follow up and support of some chronic conditions, and the delivery of preventive health care. Planning for ophthalmic primary care needs to take service requirements of these categories of disease into account. Primary care research is abundant in ophthalmology but needs to be more structured and targeted. Ophthalmic primary care itself is urgently in need of recognition and formal adoption by the profession.

In the United Kingdom, the National Health Service is now primary care led. This has prompted a widespread interest in primary care. The practice of primary health care parallels the organisation of the human race into communities, and ophthalmology has developed its own role in this field. The current approach to primary care is philosophical, systematic and policy oriented. This review summarises the concepts of modern primary care and relates these to ophthalmology.

The evolution of primary care

The global beginnings of structured primary care are traced to the United Kingdom following the National Health Insurance Act of 1911, when the arrangement of a community medical practitioner for first contact care was established. This system of medical care was consolidated with the NHS Act of 1946 and primary care was taken to indicate first contact care and a personal physician who is close to the patient and his family and can therefore coordinate the health needs of the patient, act as gatekeeper to the hospital service, and assist in the delivery of social care and public health.

In the mid-1960s, primary care became an issue in the United States, consequent to flourishing specialisation resulting in a rapid decline in the number of general practitioners (GPs). Policies to promote primary care at that time focused on the development of the specialty of family medicine. The tradition of regarding primary care as an initial level of clinical care was therefore confirmed in the United States.

In 1979, the World Health Organization (WHO), in its Alma-Ata Declaration, advocated the central role of primary care in the delivery of health care and defined it in terms of medical care that is closely related to the community and public health activities. Together, primary care and the public health services would deliver essential health care. Given that developing countries are the majority members of the United Nations, the WHO definition incorporated public health elements that are important to these countries, but perceived by developed countries as irrelevant to their needs.

However, the growing contributions of epidemiology and the social and behavioural sciences were drawing attention to the socioeconomic, environmental, and behavioural factors that affect the health of individuals and populations. The concept of community oriented primary care, therefore, started to gain ground in the United States and Europe.

The primary care movement remained inactive until the mid-1990s, when governments recognised the potential of primary care in strategies for the delivery of health care. In the United Kingdom, a policy of a primary care led National Health Service was declared.

An intensive debate followed. In the United States, where primary care was a relatively new concept, the debate focused on how to build the perfect primary care. In the United Kingdom, the emphasis was on reforming and expanding the existing system. As there was some interchange between the two debates, this review will refer to US input when relevant.

The definition of primary care

There is no one single definition for primary care. A study by the Institute of Medicine of the United States in 1996 found that since it was first used in 1961, the term primary care had been defined in various ways, using a number of elements in one or more combinations. They included the workforce, the activities, the level of care, the setting, and the desired attributes. It had also been defined as a strategy for organising the healthcare system as a whole.
Despite multiple definitions, two distinct approaches emerge.\textsuperscript{1, 2} The first is a broad public health type which stresses public health issues and the second is a narrower healthcare system approach, which stresses clinical care.

The public health approach is exemplified by the WHO definition, which defines primary care as “essential health care made universally accessible to individuals and families in the community by means that the community and country can afford. It forms an integral part both of the country’s health system of which it is the nucleus and the overall social and economic development of the community.”\textsuperscript{3} It provides promotive, preventive, and rehabilitative services which will include at least proper nutrition, safe water supply, basic sanitation, maternal and child care, immunisation, health education and, finally, the appropriate treatment of common diseases and injuries.\textsuperscript{4}

Primary care, which is defined using the above approach, is often referred to as “primary health care”\textsuperscript{5} or “community oriented primary care.”\textsuperscript{6}

In contrast, the healthcare system definition focuses on personal medical services for the individual. This is exemplified by the widely quoted Starfield and Institute of Medicine definitions, which although originating in the United States, have been adopted by working groups in the United Kingdom,\textsuperscript{7, 8} as a point of reference, in the debate on the development of the primary care led NHS.

The Institute of Medicine defines primary care as “the provision of integrated, accessible, health care services by clinicians who are accountable for addressing a large majority of personal health care needs, developing a sustained partnership with patients, and practicing in the context of family and community.”\textsuperscript{9} In the Starfield definition, “primary care is first contact, continuous, comprehensive and coordinated care provided to individuals and populations undifferentiated by age, gender, disease or organ system.”\textsuperscript{10}

In the United Kingdom, where primary care has been practised empirically since the Apothecaries Act of 1815,\textsuperscript{11} definitions have evolved from practice and focused on first contact with the patient, the workforce, the setting, and activities.\textsuperscript{12, 13}

The Royal College of General Practitioners defines primary care as “front line care in first contact with the public.”\textsuperscript{14} The Medical Research Council defines primary care as health services which provide the first (primary) point of contact for individual members of the public (in contrast to secondary [referral] services), although it accepts that some of these services are provided by hospitals. It also points out that primary care incorporates elements of social care, community care, and primary caring provided by families or unpaid individual members of the public.\textsuperscript{15}

In ophthalmology, workers who specialise in ophthalmology in developing countries appear to adopt the WHO definition, as exemplified by the work of Professor Barrie Jones\textsuperscript{16} and the Department of Preventive Ophthalmology of the Institute of Ophthalmology in London.\textsuperscript{17} Ophthalmic primary care in the United Kingdom has never been formally defined, but the literature suggests the healthcare system approach, with publications written by practitioners on primary care patients and services. There is however a considerable body of literature on ophthalmic primary care patients and the referral of cataract patients directly to the hospital.\textsuperscript{18, 19} Extending the optometrists’ role to treatment of disease and becoming the principal providers of primary care presents challenges that the quality of a primary care service is evaluated.\textsuperscript{18, 20}

### THE PRINCIPLES OF GOOD PRIMARY CARE

Publications emanating from the United Kingdom often refer to the above attributes, but the official UK view\textsuperscript{21} is that the principles of good primary care include (1) quality, in which professionals are knowledgeable about the conditions that present in primary care and the people to whom they are offering services and that services are coordinated with no service gaps, (2) fairness, in that those services should not vary widely in different parts of the country and that primary care should receive an appropriate share of NHS resources, (3) accessibility, in which services should be reasonably accessible when clinically needed regardless of age, sex, ethnicity, and health status, (4) responsiveness, in that services should reflect the needs and preferences of the people using them and the demographic and social needs of the area they serve, and (5) efficiency, in which services are based on scientific evidence and resources are used efficiently.

There is clearly an overlap between the UK and US approaches, but there are also differences which reflect the UK’s long experience in this area and its quest for reform.

### CHARACTERISTICS OF THE PRIMARY CARE LED NHS

Primary care, as described above, should not be confused with a primary care led NHS. The latter is a strategy for service delivery and the development of the former is important and inevitable for the successful implementation of this strategy.

The characteristics of the primary care led NHS include the shifting of some elements of care out of hospital, the proliferation of managerial staff to cope with increasing responsibilities as a result of expansion of services and governance, the availability of reliable, relevant information, the involvement of nurses and professions allied to medicine to lessen the doctor’s work load (skill mix), the adoption of a public health perspective by GPs, sustainability, and diversity in the nature, organisation, and operations of the different primary care providers.\textsuperscript{22}

Ophthalmology was one of few disciplines to have a formal community element in the NHS Act of 1946, with the formation of the “temporary” Supplementary Ophthalmic Services. These were subsequently found to be indispensable and were made permanent in the Health Services and Public Health Act 1968 and renamed the General Ophthalmic Services (GOS). Over the years, the responsibilities of the GOS were increased and they now include contact lens work, glaucoma screening,\textsuperscript{23, 24} selective diabetic retinopathy screening\textsuperscript{25, 26} and experimental trials of the follow up of glaucoma patients,\textsuperscript{27} cataract surgery,\textsuperscript{28} and the referral of cataract patients directly to the hospital.\textsuperscript{29} Extending the optometrists’ role to treatment of disease and becoming the principal providers of primary care presents challenges that the quality of a primary care service is evaluated.\textsuperscript{18, 20}

### THE ATTRIBUTES OF PRIMARY CARE

Most of the contributions on this subject came from the United States where it is proposed that in order to be designated as primary care, a service needs to be characterised by (1) first contact, (2) accessibility, both socio-economic and geographically, (3) continuity, where care is provided as an uninterrupted succession of events either by only one person being in charge or the continuous availability of medical records, (4) longitudinality, where individuals identify with a source of care as their own, (5) comprehensiveness, where a broad range of services for a broad range of problems is provided directly or elsewhere by arrangement, (6) coordination, which is the availability of information about previous problems and services, recognition of their significance in the current episode of care, referral, and the transfer of this relevant information to the other health professionals involved in the current episode, (7) equity, where care is provided to all individuals and populations without differentiation, and (8) accountability, where the service is accountable for the provision of all of the above and patients are accountable to sustain the relation, convey information, undertake preventive care, and participate in the treatment plan timely and accurately.\textsuperscript{30-32}

Although some of these attributes are applicable to other divisions of health care, they are mandatory in primary care and this is an important distinction. Indeed, it is by these attributes that the quality of a primary care service is evaluated.\textsuperscript{2, 18}
ophthalmic care in the community has been proposed and the prescription of therapeutic drugs by optometrists is being considered, but these suggestions have not been approved by the Royal College of Ophthalmologists.

Dart in 1986 suggested conducting weekly ophthalmic sessions in general practices and found that an ophthalmologist could meet the ophthalmic needs of a community, served by seven GPs, in one clinical session a week, when approximately 10 patients would be seen. This was the minimum size of practice in which such a service could be viable in terms of cost effectiveness. Gillam et al in 1995 investigated the benefits and costs of a similar model and found that it was popular with patients and GPs, but the unit costs per patient compared unfavourably with those of conventional outpatient treatment and its educational impact was limited. Chopdar in 2001 proposed a model in which a community ophthalmologist conducts clinics in primary care trusts and refers the more complicated cases to the local hospital eye service. Recently, Black suggested a community ophthalmic team in which all of the ophthalmic workforce would take part, but with some change in outlook. Ophthalmologists would need to acquire a greater awareness of community needs and obtain training in the leadership of a team of eye care professionals, optometrists would work as part of a community team, and orthoptists would expand their role outside ocular motility disorders. The role of the nurse practitioner would be further enhanced and charities would be associated with the team.

Skill mix in ophthalmology has been discussed as far back as 1986 when Jones et al described a role for nurses in an ophthalmic accident and emergency (A&E) department, showing that, in their series, nurses had treated and discharged 36.5% of patients and initiated treatment in 20.3% of patients. Oster et al explored the potential role for optometrists in the clinical appraisal of new referrals to the hospital and found a high level of diagnostic accuracy. The multidisciplinary model in hospital based ophthalmic primary care services has been reported to be in use in Warrington, Liverpool, and London. The Warrington study, although evaluating the model as a whole and not concentrating on its skill mix aspect, reported a maximum waiting time of 2 weeks, no unsatisfactory responses via a patient satisfaction questionnaire, a majority of GPs satisfied by the service to different degrees via a GP questionnaire, and considerable saving in consultant time in eliminating the need to allocate priority.

Aylward and Parmar described an ophthalmic electronic patient record which will enable the prompt exchange of information between primary care and the hospital as part of the NHS IM&T (Information Management and Technology) strategy. Murdoch demonstrated the potential value of telemedicine in the examination of ophthalmic patients in a number of primary care activities outside the hospital.

THE DELIVERY OF PRIMARY CARE

In the United Kingdom, primary care is delivered via a network of services to which general practice is central. It is delivered via the health services, social services, voluntary organisations, the private sector and unpaid carers, in a variety of settings including GP surgeries, health centres, hospitals, day centres, residential care units, schools, people’s own homes, pharmacies, and dental surgeries.

In the community, ophthalmic primary care is delivered in (1) general practice by GPs, (2) optometrists’ offices by optometrists or ophthalmic medical practitioners (OMPs), (3) homes and community centres where preschool children are visually screened by GPs, health visitors, or orthoptists, (4) schools where pupils are visually screened by medical officers, nurses, or technicians, and (5) pharmacies where individuals seek advice from pharmacists for minor eye conditions and are able to obtain a limited variety of over the counter products.

In the hospital, primary care is delivered in (1) general A&E departments by casualty doctors, (2) ophthalmic A&E departments by junior ophthalmologists, (3) hospital based primary care centres by ophthalmologists, nurses, optometrists, and orthoptists, (4) primary care outreach clinics in community hospitals with staffing similar to (3), and (5) outpatient departments by all grades of ophthalmologists.

The ophthalmic workforce also includes social workers and members of the public working in the ophthalmic related charities that provide support and counselling.

The capability and training of the different members of the ophthalmic primary care workforce has been discussed. Dart examined diagnostic accord between an ophthalmologist and GPs by comparing the diagnoses in a small sample of patients and found that conjunctivitis and cataract may be overdiagnosed by GPs. Sheldrick et al similarly found a small range of diagnoses and non-accurate in diagnosis in 42% of cases, but concluded that most cases of misdiagnosis have no serious consequences for the patient. The prescribing pattern of GPs has come under criticism in the debate surrounding topical steroids, and their over-prescribing and under-prescribing of topical antibiotics was also noted.

The period and content of undergraduate ophthalmology courses in British universities is regarded as inadequate for the skills needed in primary care. As a result, many GPs admit to lack of confidence in dealing with ophthalmic cases. Postgraduate courses are more satisfactory from the point of view of GPs but they have not been shown to alter facilities, confidence, or understanding. Ophthalmic posts during the vocational training of GPs appear to be the most satisfactory mode of training.

Lack of confidence was also found among casualty officers in a UK survey and patient assessment in a general A&E department was noted to be incomplete. However, in a detailed study of one unit over a 12 month period, Edwards found that the majority of patients were managed and discharged by the A&E medical staff with no serious pathology missed or hospital admission delayed.

Nurses were shown to be capable of managing minor conditions and successfully triaging patients in ophthalmic casualty departments and over the telephone. Although the diagnostic accuracy of optometrists appears to be variable according to the part of the eye examined, it has been shown that targeted training of optometrists for specific diagnostic tasks results in a high degree of accuracy.

The difference that orthoptists’ participation makes in the visual screening of children, in terms of specificity and sensitivity, and their ability to detect subtle conditions, has been demonstrated.

The current practices of ophthalmic primary care have never been evaluated in one coherent study or indeed has any model been evaluated in its entirety. Apart from the Dart, Gillam et al, and Warrington models, which examined more than one element, the rest of the studies focused on one particular aspect, as demonstrated by the various studies on the capability of the workforce.

CONTENT OF PRIMARY CARE

The Working Group on R&D in Primary Care for the NHS Executive categorised the clinical content of primary care as (1) the first presentation of most serious disease including recurrence of disease treated in hospital, (2) the treatment of most minor illness, (3) the treatment of some chronic illness, and (4) most preventive health care.

The disease content of general practices in the United Kingdom is periodically reported. These sources include data about eye conditions, but diagnosis is imprecise. The General Practice Research Database has been collecting records on general practice patients since 1990 and may include more
details, as record entry is episodic and includes management and hospital feedback. Clinical diagnostic series have been reported from almost all ophthalmic primary care settings. These include general practice,2 health centres,3 4 5 8 general A&E,10 ophthalmic A&E,12 16 18 19 20 hospital-based primary care,13 ophthalmic outpatient clinic,14 optometrist office from the viewpoint of an OMP15 and optometrist offices via national surveys.16–20 Authors attempted to cover the entire spectrum of primary care conditions by combining types and sources of patients. Significant contributions came from Jones et al.,21 when they included old patients in their casualty study, Shedrick et al.,22 when they used the concepts of demand incidence and episode rates by including all first contact settings in a defined population, and Bhopal et al.,23 who included different hospital settings in the same study.

While these studies clarify the content of ophthalmic primary care, especially in relation to patient characteristics and their relevance to diagnosis, the real clinical content of primary care, as categorised above, is not known.

**THE PRIMARY-SECONDARY INTERFACE**

Issues at the primary-secondary interface include variation in referral rates, appropriateness of referrals, decision to refer, outcome of referrals, and communication.24–30

In ophthalmology, there is a unique primary-primary interface between the optometrist and the GP. The primary-secondary interface is principally between the hospital service and the GP although optometrists may be involved.24–30 An additional primary-secondary interface exists between the primary care services within the hospital and the ophthalmic outpatient clinics. The interface most widely studied is that between the optometrists and the GP as part of the ongoing debate on direct referrals to hospitals by optometrists. Since the Opticians Act 1958 optometrists are required to notify the GP or refer the patient when an ocular abnormality is detected, as a legal requirement. The National Health (Primary Care) Act 1997 has relaxed this legislation and optometrists are now allowed to use their professional judgment under the regulation of the General Optical Council. Not all cases referred to the GP by optometrists are referred to the hospital eye service. Some are treated by the GP, referrals are deferred in some cases especially for cataract,24–31 and some cases are referred to non-ophthalmic departments—for example, neurological cases. Communication between the optometrists and the medical profession is usually via the GOS 18 (General Ophthalmic Services 18) form. There is no legal requirement for optometrists to use this form and research has shown that not all optometrists use it or enter information in detail.24–31 Similarly, it was found that only a small proportion of ophthalmologists return their findings to optometrists on the GOS 18.24–31

Kheterpal et al.32 examined letters of referral to the A&E department of a large regional ophthalmic unit and found that information was poorly recorded and that over half of the referrals did not constitute accidents or urgent conditions.

**THE HOSPITAL AND PRIMARY CARE**

The International Hospital Federation sponsored a British study on NHS hospitals and primary care,35 which found a diverse role for hospitals in this area. The Conference of Academic Organisations in General Practice included a role for the secondary services in which they would be in constant consultation with primary care and seeking to find the best way to support it.36 The role of the A&E departments of inner city hospitals in the provision of primary care was researched in a landmark project in King's College Hospital in London.37

Another hospital contribution is in the provision of specialist outreach clinics. Two models have been described—namely, one in which the specialist outpatient clinic is much the same as that in the hospital, but takes place in the community (the shifted model) and another in which there is collaboration between consultant and GP (the liaison attachment model).38 In shared care schemes, GPs and community health staff take on some or all of the routine management of patients that was traditionally done in outpatient hospital departments, according to an agreed protocol.39

The role of the hospital in ophthalmic primary care is central. The hospital delivers primary care in a number of ways as explained above. In addition, it participates in glaucoma shared care schemes as explained by Hitchings.40 Some of the results of the Bristol shared care glaucoma study to which he refers have now been reported. For the purpose of this review, two main issues stand out, firstly, that after 2 years, there are no statistically significant differences in outcome between patients followed up in the hospital eye service and by community optometrists41 and, secondly, that the cost of managing ophthalmic patients in the community needs to be examined carefully to establish whether it is economic,42 as also demonstrated on other occasions.43–45

The input into diabetic retinopathy screening by hospital based ophthalmologists was taking place for many years before routine screening became a reality.46 The literature has evidence of trials on combinations of tests, workforce, settings and procedures, initiated, assessed, and reported by hospital based ophthalmologists.47 The current debate on visual deficits in the elderly48 was initiated by the observations of hospital based ophthalmologists who pursued the subject until it gained its current prominence.49–56 In their review of screening for visual deficits in children in the United Kingdom, Rahi et al.57 stressed the importance of the input of the ophthalmic community and its position to take the lead.

In addition, the hospital eye service is the main setting for the training and continuous medical education of most members of the ophthalmic primary care workforce.

**Epidemiology, Public Health, and Primary Care**

Epidemiology and public health are population sciences. They are therefore closely related to primary care, as discussed above. In developed countries, these disciplines are concerned with issues relating to the planning of services, disease risk, sources of morbidity in the community, and equity. The latter includes the health of, and services for, isolated or underprivileged groups like the elderly, the socially deprived, ethnic minorities, and refugees.

There are many epidemiological studies in ophthalmology and reviewing them all is outside the scope of this work, particularly as many of diseases explored are the remit of the secondary services. We will concentrate on work relating to equity, because this is an important attribute of primary care. The presence of undetected ocular disease or uncorrected visual acuities among the elderly has been reported in community based studies, representing different types of community,46 47 and also hospital based studies on ophthalmic and non-ophthalmic patients.48 The quality of the visual screening of this age group in general practice was questioned.49 Hillman drew attention to the predicament of the elderly in keeping up with hospital appointments,50 prompting the reader to question whether this is a group for whom transfer of care to the community might genuinely be needed.

Recently, Fraser et al.51 demonstrated consistent evidence of the association between the late presentation of glaucoma and a lower socioeconomic status.

Epidemiological studies on ethnic minorities included the prevalence of eye disease and of age related cataract in Asians.

www.bjophthalmol.com
in Leicester,105 106 the prevalence of eye disease in Indians in Southall in London,142 and the prevalence and risk factors for hypertensive retinopathy107 and the risk factors for glaucoma in Afro-Caribbean living in London.108

There are few studies on the ophthalmic needs of refugees in the United Kingdom. In a general study of a Vietnamese refugee population living in Greenwich in London, it was reported that there was unfamiliarity with ophthalmic care,109 thus confirming isolation and lack of information about the health services, which were described among other difficulties experienced by refugees, in a review on their health needs.110

QUALITY AND PRIMARY CARE

Quality and primary care are associated in a number of ways—namely, (1) the question of whether good quality health care is attainable via a primary care focused health service,111 112 (2) the question of whether the above attributes of primary care are sufficient for promoting good quality primary care,113 (3) defining appropriate performance indicators and outcome measures for a particular primary care system,114 115 and (4) the feasibility of using the Donabedian classification (structure-process-outcome), which is a widely used method for assessing the quality of medical care,116 in the evaluation of primary care systems.117

Studies on the quality of ophthalmic primary care have mostly concentrated on specific services, training and performance of the workforce, and communication between them, as discussed above.

THE CLINICAL GOVERNANCE OF PRIMARY CARE

The principles of clinical governance apply in primary care.118 Audit, risk management and the practice of evidence based medicine in primary care have been adequately discussed in publications specifically written for general practice, but to our knowledge, there are no publications on the clinical governance of ophthalmic primary care.

OPHTHALMIC PRIMARY CARE—A DISCUSSION

We have so far summarised the debate on modern primary care, described the current scene in this area of ophthalmology and related them to each other, when possible. We have demonstrated that ophthalmic primary care in the United Kingdom has kept up with developments at both national and international levels.

However, it is noticeable that apart from the response from the Royal College of Ophthalmologists to suggestions for ophthalmic primary care regarded as unacceptable,119 120 there has been a conspicuous absence of ophthalmic representation in primary care forums.121 In addition, the National Research Strategy for Ophthalmology,122 published recently by the Royal College of Ophthalmologists, did not include primary care.

A change in outlook is needed because ophthalmology, especially in the United Kingdom, is distinguished by a number of characteristics that set it apart from other specialties in relation to the primary care debate. These include (1) the advanced technological skills and instruments needed for an initial accurate diagnosis, (2) the limited training in ophthalmology in undergraduate courses in British universities, (3) the frequent association of ophthalmic disease with non-ophtalmic conditions, (4) the strong presence of an optometry workforce in the community, (5) the surgical orientation of ophthalmic training, which does not match its huge outpatient load, (6) the association of much of ophthalmic disease with the elderly, and (7) the end point of failure of treatment is blindness and not death, with a few exceptions.

At this point, we propose the following working definition for ophthalmic primary care from which we will take our discussion forward.

“Ophthalmic primary care is the provision of first contact care for all ophthalmic conditions and the follow up, preventive, and rehabilitative care of selected ophthalmic conditions. It can be delivered in a variety of settings and by a diverse workforce, but in strict, efficient, and timely coordination, to attain the best clinical outcome possible for the patient. A service is designated as ophthalmic primary care, only if appropriately integrated with the patient’s main primary care provider, in order to ensure continuity, longitudinality, and comprehensiveness in the overall care of the patient. The primary care ophthalmic service itself should be accessible, equitable, knowledgeable, responsive, and efficient. In these aims, it is supported by the population sciences which identify the medical and service needs of the population served.”

Currently, ophthalmic primary care in the United Kingdom is practised in different settings and by a variety of practitioners who are interdependent, both in their expertise and their accessibility for the patient. This diversity is therefore inevitable. The challenge to those interested in reform is to bring together all the elements of the current scene into one coherent system, working in harmony, to deliver the best clinical outcome. This can be achieved by bringing all these elements together in one setting or by continuing with diverse settings but defining the role of each group of practitioners, according to their capability, and ensuring clear and timely communication between them, with no inconvenience or loss to the patient.

The above definition proposes that primary care services should be organised around delivering the best clinical outcome for the patient in his passage through primary care. It is our view that unless these outcomes are defined, for the relevant conditions, the practice of primary care cannot reach the desired excellence. The studies by Damato141 142 on the referral of patients with uveal melanoma to a tertiary centre partially illustrate this point. The question is “what does the hospital eye service, excluding its primary care services, expect of primary care, in order that, together, they could optimise the patient’s prognosis and the ophthalmic health of the population?”

This immediately defines a role for ophthalmology, for it is the ophthalmic profession that is responsible for clarifying the clinical details of this phase and directing ophthalmic primary care training, research, and planning towards them.

A number of parallel debates need to be initiated, interacting with each other and aiming towards one common agenda to include (1) a clinical debate, (2) a primary care models debate, and (3) a workforce debate. Some of these debates have already started in the literature, but they need to be targeted, intensive, dedicated, and taking place in a variety of forums.

CONCLUSION

Ophthalmic primary care, as a structured discipline, remains undeveloped, borrowing identity from other specialties, despite the presence of clinical ophthalmology at the heart of its services, with abundant relevant ophthalmic expertise. This may be because of the lack of glamour in what is a highly technical and surgically oriented profession, but ophthalmic primary care is a rich and rewarding subject awaiting recognition by ophthalmology’s leaders.

Authors’ affiliations
S F Riad, J K G Dart, R J Cooling, Moorfields Eye Hospital, City Road, London EC1V 2PD, UK

www.bjophthalmol.com
Primary care and ophthalmology in the United Kingdom

S F Riad, J K G Dart and R J Cooling

Br J Ophthalmol 2003 87: 493-499
doi: 10.1136/bjo.87.4.493

Updated information and services can be found at:
http://bjo.bmj.com/content/87/4/493

These include:

References
This article cites 91 articles, 34 of which you can access for free at:
http://bjo.bmj.com/content/87/4/493#BIBL

Email alerting service
Receive free email alerts when new articles cite this article. Sign up in the box at the top right corner of the online article.

Topic Collections
Articles on similar topics can be found in the following collections
Public health (479)

Notes

To request permissions go to:
http://group.bmj.com/group/rights-licensing/permissions

To order reprints go to:
http://journals.bmj.com/cgi/reprintform

To subscribe to BMJ go to:
http://group.bmj.com/subscribe/