Fit for purpose? The appropriate education of health professionals in South Africa

Sixty years ago Sidney and Emily Kark had a vision to make health care accessible to all South Africans, particularly those in rural and under-served areas. They established a comprehensive primary health care model that was replicated in over 40 rural communities before the apartheid government abolished their plan. In the light of these historic initiatives, what have health sciences training institutions achieved in the past 50 years to address the health care priorities of South Africans who are most in need?

In 2008 there were approximately 250 000 health care professionals employed in South Africa, with a calculated shortage of about 80 000 in the public sector and vacancy rates for doctors in excess of 30% in several provinces. There is a serious overall shortage of health care personnel and the maldistribution of the health workforce between the public sector and private sector is great. At least 70% of all doctors work in the private sector, leaving only approximately 10 600 doctors to provide service for the 85% of South Africans who do not have private health insurance. While the public-private health care situation is far from equitable, the situation in the rural areas of South Africa is appalling. At least 46% of South Africa’s 49 million rural residents are served by only 12% of our doctors, mostly from the public sector, and 19% of our nurses. Not only are the public health services grossly insufficient and inequitable, but some of our medical schools have the greatest proportion of emigrating health care professionals in the world. The facts speak for themselves – we need to train more health care professionals, improve the retention of health care personnel in South Africa, improve doctor-to-population ratios in public health care facilities, and distribute doctors better so as to address the health care needs of marginalised communities.

Several government initiatives have been implemented to address these health workforce needs. All new graduates complete a year of community service after internship, about half of which are in rural or under-served communities. Although this step has made some impact on the shortage of doctors in the public sector, it is not an effective retention strategy. For continuity it is better to have one doctor in a post for 5 years than five doctors for 1 year each. Furthermore, it appears that obligatory service may have negative unintended consequences, and it could be seen as ‘immunising’ young graduates to further work in the public service. A study of community service doctors showed that 18% of them indicated an interest in working in a rural area after they had completed their obligatory time, whereas much fewer actually do. Furthermore, the government offers additional financial remuneration for health professionals working in rural areas. Although this may influence the short-term career choices of up to one-third of health professionals working in rural areas, financial remuneration is not the only factor influencing career choices. Equally important motivators are factors such as job satisfaction, career advancement, work conditions and educational opportunities.

While these measures go some way to addressing the public-private and urban-rural inequalities of health care, we need more health care professionals in total if we are to come close to addressing the country’s needs. The National Human Resources Plan for Health, published in 2006, indicated that we need to double the number of South African medical graduates from 1 200 to 2 400 by 2014. This cannot take place within the current framework for health sciences training, and serious consideration must be given to developing another health sciences training institution in South Africa. Since evidence indicates that medical schools situated in rural areas are more likely to produce graduates who work in rural areas, it seems appropriate that an additional training institution should be located in a province with a large rural population without a medical school, such as Mpumalanga.

What should medical schools do to address these needs? Firstly, local and international evidence indicates that students of rural origin are more likely to return to rural practice after graduation. It is therefore appropriate that applicants of rural origin be prioritised for admission to health sciences faculties in South Africa today. A recent review found that less than one-third of medical students trained in South Africa are of rural origin. Innovative programmes to recruit such students to urban medical schools are in place at some centres and other innovative ways of achieving this goal should be developed. In addition to admission criteria, it is essential that recruitment processes are suitably adjusted to cater for students from disadvantaged backgrounds.

Shortly after the election of a democratic government in South Africa, a new Health Act was promulgated, which emphasised the need for a primary health care based approach to the delivery of health care at all levels. These principles must therefore form the foundation of health sciences curricula and be made explicit to students at all stages of their undergraduate education. The primary health care discourse has found expression in numerous ways in individual curricula around the country. The paper on medical curricula in this issue of the journal suggests that it needs to be made more explicit all the way from the mission statement of the university to the bedside where students are taught.

Another evidence-based aspect of health sciences education that has been addressed to a variable extent is the introduction of medical students to rural clinical practice during their undergraduate years. While all faculties offer short placements of between 2 and 8 weeks, longitudinal placements extending up to a year are being implemented in some faculties. Serious consideration needs to be given to this strategy given the preliminary evidence emerging from Australia, USA and Canada regarding the outcomes of ‘longitudinal’ clinical clerkships. In addition to enhancing the integration of knowledge and skills, longitudinal placements of one year or more appear to increase the likelihood of choosing a rural career.

Major challenges must be overcome to successfully deliver health sciences education at the level of community and district health care services in South Africa. These include physical teaching space in clinics not designed to accommodate students, heavy clinical workloads of health care workers seeing large numbers of patients each day, and academics willing to teach and work in primary care settings. We need to address these limitations to take students to the appropriate levels of health care service delivery in a sustainable manner which is also beneficial to the communities we serve.

It is well recognised that ‘assessment drives learning’, and the importance of primary health care needs to be emphasised by making it a fundamental component that is integrated into assessment processes in undergraduate education. Assessment practices clearly indicate to students what is valued by the faculty and so the implication is obvious: assess what is important, and students will adopt the values held in high regard by the faculty. A further concern about current assessment practices is that we aim to teach students in district-level facilities, but they return to tertiary teaching hospitals to be examined on learning experiences gained in district hospitals and community-based clinics. Such practices ultimately undermine the message about the importance and relevance of primary care.
Finally, the question of programme evaluation must be addressed. There are limited data on the key outcomes of our academic endeavours, for example the type and location of clinical practice of our graduates. We need more programme evaluation and research to endorse the major curriculum changes we have undertaken and are undertaking. The ultimate and overarching question we need to answer as we enter the next decade is whether our graduates are ‘fit for purpose’ in the context of the gross inequities in the health sector in which we find ourselves.

Vanessa Burch  
Department of Medicine  
Faculty of Health Sciences  
University of Cape Town

Steve Reid  
Primary Health Care Directorate  
Faculty of Health Sciences  
University of Cape Town

Corresponding author: S Reid (steve.reid@uct.ac.za)

References