

quality primary and secondary health care provided by the public sector in district settings can reduce the burden on tertiary hospital care by preventing the major causes of hospital admissions.

Third, simply increasing health sector allocations is not enough if services are underused or poorly managed. It is encouraging that the new Government of Pakistan has committed to improving governance. Although this will take time, the government should take steps in the immediate future and strengthen the district health system to increase the accountability of local health-care providers. The watchdog role of media and civil society is especially crucial at this level. Innovative implementation mechanisms such as Social Impact Bonds, adopted by some countries to implement social sector welfare programmes, could also be explored in the short run.

Fourth, the culture of patronage in politics must end. In the past, political interference, an absence of accountability, and failure to pay salaries to staff undermined the delivery of primary health care programmes. At the macro level, the practice of granting development funds to favoured individual ministers to spend in their own constituencies has been a hurdle to secure adequate funds for universal primary health care.

Finally, while Pakistan is a signatory to universal health care and the Declaration of Alma-Ata, it needs to recognise health as a human rights issue at the domestic level by granting it constitutional protection. While the 18th Constitutional Amendment inserted a new article

(26A) about the right to basic education, an opportunity was lost for inserting a similar article on the right to basic health. In moving forward to improve health and nutrition in Pakistan, implementation of integrated strategies that promote equitable access to services at primary care level must be the cornerstone of any new policy.

**Sadia M Malik, Zulfiqar A Bhutta*

Department of Economics, Faculty of Liberal Arts and Professional Studies, York University, Toronto, ON M3J 1P3, Canada (SMM); Centre for Global Child Health, Hospital for Sick Children, Toronto, ON, Canada (ZAB); and Center of Excellence in Women and Child Health, Aga Khan University, Karachi, Pakistan (ZAB) smmalik@yorku.ca

SMM declares no competing interests. ZAB is a member of the Government of Pakistan's Task Force for Health. The views expressed in this Comment are the personal views of SMM and ZAB.

- 1 UNICEF. Every child alive: the urgent need to end newborn deaths. New York: United Nations Children Fund, 2018.
- 2 National Institute of Pakistan Studies. Pakistan Demographic and Health Survey: key indicators report, 2017–18. Islamabad: National Institute of Pakistan Studies, 2017.
- 3 Akseer N, Kamali M, Arifeen SE, et al. Progress in maternal and child health: how has South Asia fared? *BMJ* 2017; **357**: j1608.
- 4 Government of Pakistan. Pakistan Millennium Development Goals report 2013. Islamabad: Planning Commission, Government of Pakistan, 2013.
- 5 World Bank. Health equity and financial protection report—Pakistan 2016. Washington, DC: World Bank, 2016.
- 6 Government of Pakistan. Ministry of Finance. Poverty Reduction Strategy Paper (PRSP) progress report FY2015–FY2017. http://www.finance.gov.pk/prsp_report.html (accessed Sept 27, 2018).
- 7 Government of Pakistan. National Health Vision: 2016–2025. http://www.nationalplanningcycles.org/sites/default/files/planning_cycle_repository/pakistan/national_health_vision_2016-25_30-08-2016.pdf (accessed Sept 27, 2018).
- 8 Bhutta ZA, Hafeez A, Rizvi A, et al. Maternal, newborn, and child health in Pakistan: challenges and opportunities. *Lancet* 2013; **381**: 2207–18.

Putting nursing and midwifery at the heart of the Alma-Ata vision



The Alma-Ata vision of a health system rooted in primary health care, which is person-centred and multisectoral, is as relevant now as it ever was. Nursing and midwifery can play a more central part in making this vision a reality. The health workforce has always been central to the 1978 Declaration of Alma-Ata that recognised the important role of health workers in achieving this vision.¹ More recently, the World Health Assembly adopted resolutions on the Global Strategy on Human Resources for Health in 2016² and the Working for Health 5-year action plan in 2017³ that committed countries to develop a primary health care

workforce responsive to population needs as part of universal health coverage.

Nurses and midwives are expected to assume a more extensive and influential role in the future.⁴ One reason for this changing role arises from epidemiological changes accelerating over the past 40 years. Ageing populations and the increase in non-communicable diseases requires a far more holistic and person-centred approach that fits well with nursing philosophy and practice. Epidemiological change is only one of many changes in every area of life over the past 40 years: in science and technology, politics, economics,

See [Editorial](#) page 1369

See [The Lancet Commissions](#) page 1434

See [Review](#) page 1473

demography, and the environment. All affect health and influence how primary health care can be delivered. We examine three of them here in relation to a nurse-based primary health care system suitable for the future.

First are the great opportunities for improving health that come with today's technology. Examples in primary health care include the Kenyan midwives who use point of care ultrasound in rural areas to identify risk factors in expectant mothers with support from radiologists and the ultrasonography team in a distant teaching hospital.⁵ The Apollo Hospitals Group in India has used technology for telemedicine services, which include providing support to clinicians and patients in remote areas. Elsewhere, a young primary care nurse in Australia, Nurse Robbie, has created a suite of tools to support self-care available free to the population and linked to his practice. Meanwhile, in the UK there are now virtual primary care practices. These few examples reveal something of the scale, diversity, geographical spread, and impact that new information and communications technology can have. Together with advances in the biomedical and other sciences, they can bring decision support for clinicians and treatment, information, and advice to patients in their own communities and homes.

Second is the greater understanding and recognition of the wider social determinants of health. The Declaration of Alma-Ata was ahead of its time in recognising the importance of both a cross-sectoral approach and the engagement of communities and citizens. It was not until 30 years later with the 2008 report of the Commission on the Social Determinants of Health that the social

determinants of health started to receive wider attention.⁶ Policy developments such as health in all policies⁷ and asset-based care⁸ reflect these ideas, although neither are yet central to policy making in most of the world.

Alongside these policy developments, there has been growth in many community-based projects, such as the St Paul's Way Transformation Project in London, UK, that bring together actors from all sectors with local residents to improve the area—with improved health as only one of the desired outcomes, alongside educational and economic development. Nursing Now Jamaica has targeted violence against women as one of the biggest issues it must confront in improving health for the country's population. Elsewhere, mothers2mothers in southern Africa has mobilised mothers with HIV to help HIV-positive pregnant women avoid mother-to-child transmission of HIV.

The third development is in human resources. There has been growth in community health workers building on the examples developed by pioneers such as Miriam Were in Kenya at the time of the Declaration of Alma-Ata.⁹ Community health workers are being strongly promoted as one of the best ways to bring health care to millions of people living in the most rural areas, as highlighted in the One Million Community Health Workers Campaign.

At the same time, nurses have expanded their practice considerably—eg, prescribing, managing non-communicable diseases, undertaking procedures, being first responders in emergencies.¹⁰ There are now studies that show how effectively nurses can deliver primary care services. A 2018 Cochrane review, for example, concluded that "Delivery of primary healthcare services by nurses instead of doctors probably leads to similar or better patient health and higher patient satisfaction."¹¹

In many parts of the world, nurses are the first, and sometimes the only, health professional that patients see. They work close to the community, are able to understand local culture, and influence behaviour. As the 2018 report from the WHO High-Level Commission on Non-Communicable Diseases stated: "nurses have especially crucial roles to play in health promotion and health literacy, and in the prevention and management of NCDs...nurses are uniquely placed to act as effective practitioners, health coaches, spokespersons, and knowledge suppliers for patients and families throughout the life course".¹² It is a statement in the tradition of Alma-Ata.



Medical practice, too, has changed in 40 years with far greater specialisation and a decline in the number of health professionals going into the general specialties. This trend seems set to continue: in the USA between 2001 and 2010, there was a 6.3% decrease in the number of graduate residents entering primary care, but a 45% increase in the medical and surgical subspecialties.¹³ In Egypt, India, Jordan, Tunisia, and Turkey, less than 10% of physicians choose family medicine.¹⁴

Taken together these developments suggest a model of primary health care with nurses at its centre, able to call on other medical and specialist support where necessary and refer on to more specialised facilities. In this model, nurses and midwives will provide much of the hands-on care, including the management of non-communicable diseases. They will coordinate, supervise, and support the work of community health workers. Finally, nurses will work with local people and local community groups, such as health coaches and knowledge suppliers, and support self-care, promote health, and prevent diseases.

Nigel Crisp, *Elizabeth Iro

Nursing Now, London W1G 0RN, UK (NC); House of Lords, Houses of Parliament, London, UK (NC); and World Health Organization, CH-1211 Geneva 27, Switzerland (EI)
iroe@who.int

NC is Co-Chair of Nursing Now. EI is WHO Chief Nursing Officer. We declare no other competing interests.

© 2018. World Health Organization. Published by Elsevier Ltd/Inc/BV. All rights reserved.

- 1 WHO. Declaration of Alma-Ata International Conference on Primary Health Care, Alma-Ata, USSR, 6-12 September 1978. http://www.who.int/publications/almaata_declaration_en.pdf?ua=1&ua=1 (accessed Sept 25, 2018).
- 2 WHO. Global strategy on human resources for health: workforce 2030. Geneva: World Health Organization, 2016. http://www.who.int/hrh/resources/pub_globstrathrh-2030/en/ (accessed Sept 25, 2018).
- 3 WHO. "Working for health": a five-year action plan for health employment and inclusive economic growth (2017-21). Geneva: World Health Organization, 2017. <http://www.who.int/hrh/com-heeg/action-plan-annexes/en/> (accessed Sept 25, 2018).
- 4 Crisp N, Iro E. Nursing Now campaign: raising the status of nurses. *Lancet* 2018; **391**: 920-21.
- 5 Vinayak S, Brownie S. Collaborative task-sharing to enhance the Point-Of-Care Ultrasound (POCUS) access among expectant women in Kenya: the role of midwife sonographers. *J Interprof Care* 2018; published online May 10. DOI:10.1080/13561820.2018.1470499.
- 6 Commission on Social Determinants of Health. Closing the gap in a generation: health equity through action on the social determinants of health: Commission on Social Determinants of Health final report. Geneva: World Health Organization, 2008. http://www.who.int/social_determinants/thecommission/finalreport/en/ (accessed Sept 25, 2018).
- 7 WHO. Health in all policies: framework for country action. 2014. <http://www.who.int/healthpromotion/frameworkforcountryaction/en/> (accessed Sept 25, 2018).
- 8 Rippon S, Hopkins T. Head, hands and heart: asset-based approaches in health care. A review of the conceptual evidence and case studies of asset-based approaches in health, care and wellbeing. London: Health Foundation, 2015. <https://www.health.org.uk/publication/head-hands-and-heart-asset-based-approaches-health-care> (accessed Sept 25, 2018).
- 9 Were M. Community health, community workers and community governance. In: Omaswa F, Crisp N. African health leaders: making change and claiming the future. Oxford: Oxford University Press, 2015: 109-24.
- 10 All-Party Parliamentary Group on Global Health. Triple impact of nursing. London: All-Party Parliamentary Group on Global Health, 2016.
- 11 Laurant M, van der Biezen M, Wijers N, Watananirun K, Kontopantelis E, van Vught AJAH. Nurses as substitutes for doctors in primary care. *Cochrane Database Syst Rev* 2018; **7**: CD001271.
- 12 WHO. Time to deliver: report of the WHO Independent High-Level Commission on Noncommunicable Diseases. Geneva: World Health Organization, 2018. <http://www.who.int/ncds/management/time-to-deliver/en/> (accessed Sept 25, 2018).
- 13 Jolly P, Erikson C, Garrison G. US graduate medical education and physician specialty choice. *Acad Med* 2013; **88**: 468-74.
- 14 Nair M, Webster P. Education for health professionals in the emerging market economies: a literature review. *Med Educ* 2010; **44**: 856-63.

Patient education and engagement in treat-to-target gout care

Gout is the most common inflammatory arthritis worldwide, affecting 4.0% of adults in the USA and 2.5% of adults in the UK.¹ The pathophysiology of this crystal arthritis is well understood, and inexpensive urate-lowering drugs that address the underlying cause of the disease are widely available. Yet gout remains poorly managed, with 70% of patients experiencing recurrent gout flares² and substantial burden from tophi and joint damage, which lead to functional limitations and diminished quality of life.

Patients with gout often have concomitant cardiovascular disease, renal insufficiency, and diabetes, making treatment of gout challenging. Compounding this complexity is the time-limited nature of visits with general practitioners (GPs) who provide most gout care in many countries. Moreover, management controversies have arisen due to discordance between recommendations for the management of gout.^{3,4} Guidelines from rheumatology organisations universally support a treat-to-target strategy that aims to lower



See Articles page 1403