Home blood glucose monitoring in type 2 diabetes

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many curriculums, both in medical schools and in postgraduate training. Evidence based textbooks have been written for the Brazilian context. Additionally, post-residency training is now offered in more than 300 masters or doctoral programmes in health related fields throughout the country, representing a major resource for capacity building and research.

To align academic medicine more directly with the SUS, the Ministry of Health has instituted regional centres for training within the new primary care model; redirected residency slots to family medicine; expanded in-house training for core personnel of the health system at local, state, and national levels; and funded programmes to help medical schools to make their curriculums more relevant to practice within the SUS. National funding for research and prizes for academic excellence are increasingly awarded to work that will help solve the problems faced by the SUS. The national health service now depends on academic support to develop and identify innovations that should be translated into effective health actions, to crystallise the state of the art into clinical and public health guidelines, to monitor the provision of care, and to evaluate health system initiatives. Academic input also buffers the system against undue alterations resulting from shifts in the prevailing political winds, parties, and players.

Yet improving population health in Brazil will demand even greater academic participation. Can academic medicine meet these challenges? Only through change. Our experience is that change from within the academic structure is painfully slow in coming, making external incentives from the government and other key institutions vitally important.

In this regard, the pharmaceutical and technology industries provide incentives through funding research, medical gatherings, and other forms of continuing medical education. Their frequently massive commercial expenditures, however, often overwhelm more rational approaches to healthcare provision. In countries like Brazil with still limited governmental action and expertise in technology assessment, it is vital that academic medicine continues to question the ground rules for its partnerships with industry while strengthening its partnerships with the national health system.

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Regular monitoring is necessary only in some situations

Home blood glucose monitoring is a big business. The main profit for the manufacturing industry comes from the blood glucose testing strips. Some £90m was spent on testing strips in the United Kingdom in 2001, 40% more than was spent on oral hypoglycaemic agents. New types of meters are usually not subject to the same rigorous evaluation of cost effectiveness, compared with existing models, as new pharmaceutical agents are.

Practice varies among healthcare professionals with regard to the recommended frequency of home blood glucose monitoring, but proponents argue that it empowers people with type 2 diabetes. For example, people who monitor themselves may observe the effect that eating and exercise have on their blood glucose concentrations, and this information may help promote alterations in diet and physical activity. Yet some evidence exists that home blood glucose monitoring is necessary only in some situations.
Aspartame and its effects on health

The sweetener has been demonised unfairly in sections of the press and several websites

The European population of 375 million consumes about 2000 tonnes annually of aspartame (NutraSweet, Canderel) an artificial sweetener, which contains two amino acids— aspartic acid and phenylalanine. 1 It is 180-200 times sweeter than sucrose, and almost half a million extra tonnes of sugar would therefore be needed to generate the same sweetness. Was the world screaming for all this sweetness, and what has it done to us? Anyone searching the web on aspartame, launched in 1981 by Monsanto, the manufacturer of NutraSweet, will find a vast catalogue of frightening personal accounts attributing multiple health disasters to exposure to aspartame. 2 Although no orchestrated public outcry about aspartame has taken place, much sensationalist journalism has been published mostly on websites (for example, www.holisticmed.com/aspartame/). In contrast, aspartame marketing implies that it embodies a healthy way of life and avoids obesity. Are these claims subject to the same rigorous evaluation of cost effectiveness as is applied to pharmaceutical agents?

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