



The epidemic of childhood obesity

It is paradoxical that children in South Africa are at risk of developing one of two diametrically opposed diseases, either undernutrition or overnutrition. The scourge of undernutrition has been well described, but health care authorities have only recently acknowledged the imminent health threat posed by overnutrition. Obesity is now recognised as a chronic disease, with approximately half of the world's adult population being affected by either overweight or obesity (i.e. body mass index (BMI) > 25).¹ Of particular concern is the rising incidence of obesity among children under 5 years of age. The World Health Organisation (WHO) recently issued a warning statement that immediate action is required to stem the escalating pandemic of overweight and obesity. With 1.5 billion people overweight worldwide, millions of people are at risk of developing obesity-associated co-morbid diseases.²

It is evident that a passive approach towards the obesity epidemic can no longer be tolerated, but to lobby adequately for the introduction of interventions aimed at reducing childhood overweight and obesity, we first need to acknowledge the magnitude of the local epidemic. The 1999 National Food Health Consumption Survey revealed that the national prevalence of overweight (weight/height > 2 standard deviations (SDs)) among children aged 1 - 9 years was 6%, with the province of Mpumalanga having the highest figure (17%). In contrast, only 5% of children were 'wasted' and approximately 25% 'stunted'.³ Risk factors for the development of obesity include low birth weight, urbanisation and poverty, conditions not uncommonly experienced by many South African children.⁴ The presence of increased body fat, especially when occurring in patients with a low birth weight and/or childhood stunting background, has been shown to compound failing beta-cell reserve, worsen relative insulinopenia and add to the development of glucose intolerance.⁵ Recent studies revealed that the increase in childhood obesity is associated with an escalation in the incidence of type 2 diabetes by a factor of 10, hence the new term 'diabesity'.^{6,7} Childhood obesity is also directly linked to abnormalities in blood pressure and lipid profile, which when combined with aberrant glucose homeostasis, substantially increases the risk of coronary artery disease in adulthood.^{8,9} Overweight and obese children are also at risk of developing the psychological and mechanical effects of obesity, and although not life-threatening, these complications impact heavily on their quality of life.

To date, the prevention of childhood obesity has eluded our grasp. The primary causes of the acceleration in obesity worldwide include sedentary lifestyle and the increased consumption of high-fat energy-dense diets (the 'nutrition transition'). Although it is possible to treat obesity, it is extremely difficult to maintain weight loss. Effective long-term

strategies require both large financial resources and highly motivated children, supported by a compliant and knowledgeable family.^{10,11}

One possible interventionist strategy aimed at reducing the high incidence of obesity and its co-morbid medical conditions is the central manipulation of food consumption patterns. Policies to influence food prices are not new in South Africa, as health authorities have long recognised the need to reduce undernutrition through subsidy and the fortification of staple foods. The WHO has called for obesity policies to go hand in hand with strategies to prevent undernutrition.² However, regulating the nutritional inadequacies of staple foodstuffs to which undernourished children are exposed proves less emotive than addressing the consumption of high-fat energy-dense foodstuffs. A precedent was set by certain countries such as New Zealand and the UK where attempts have been made to introduce 'fiscal food taxes', but these campaigns have been characterised by a large public outcry, and the benefits of such interventions have yet to be seen.^{12,13}

Arguments raised against introducing a fiscal food tax include a lack of evidence that this intervention results in dietary change, that this form of taxation is often inequitable, and that it may further erode the individual's personal freedom.¹⁴ In order to strengthen the lobby for the introduction of a fiscal food tax, we still need to answer some questions, many of which are peculiar to developing countries where food security may be compromised. Reliable data concerning the consumption of energy-dense foods across all economic groups are required, as foodstuffs that are considered a luxury to some may be essential to others. An informed approach is therefore needed when targeting specific food groups, as we are not yet certain if targeting high-fat food groups will be safe or effective.¹⁵⁻¹⁷ In addition, the availability of appropriate and affordable alternatives is imperative if the nutritionally vulnerable are not to be compromised further. Cow's milk, for example, is high in fat but an affordable foodstuff, and an important source of calcium for children.

Another strategy aimed at reducing the intake of high-fat energy-dense foodstuffs involves the regulation of food marketing, as children are vulnerable consumers and susceptible to the marketing strategies employed by the food industry. This is superbly demonstrated by the recent marketing ploy of a popular brand of 'crisps' through the use of a collector 'disc' in each packet. When the novelty and sales impact of the initial discs wore off, a sequel was soon launched, only to be replaced by trading cards displaying Soccer World Cup icons. It is a sad irony that in the face of an obesity epidemic, a health-promoting event such as the Soccer World Cup is used to boost the sales of high-fat energy-dense crisps (containing 36 g fat/100 g). Such aggressive marketing is



reminiscent of the ruthless advertising campaigns previously employed by the tobacco industry. Legislation introduced to curtail the tobacco industry marketing campaigns serves as an example of what can be achieved through sustained pressure from concerned health care workers. Such protests seem appropriate when one considers the recent statement of the American Surgeon General, which says 'overweight and obesity may soon cause as much preventable disease and death as cigarette smoking'.¹⁸

With clearer data to highlight the direct impact of high-fat energy-dense food consumption on the health of South African children, we will be better able to address the modern scourge of obesity. The South African Society for the Study of Obesity (SASSO) is of the belief that these interventions may indeed be effective, and should form part of a broader campaign aimed at the primary prevention of obesity. In addition to controlling the sale and marketing of energy-dense high-fat foodstuffs, we also need to lobby for the creation and maintenance of child-friendly exercise facilities, and all schools should offer physical education as part of the curriculum. Basic lifestyle changes are most successful if implemented at a young age.¹⁹ These lifestyle changes should include an increase in daily activity, regular exercise, altering high-risk eating habits and reducing time spent watching television.²⁰⁻²² Although these interventions have not yet had a significant impact on the obesity epidemic (partly due to the lack of aggressive promotion thereof), they are, at the very least, healthy goals to strive for and unlikely to do harm. While it seems reasonable to suggest that we concentrate on these strategies, the conduct of well-designed studies to gather information on parenting practices, the school environment and global demographic factors leading to childhood obesity should remain a priority.

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SOUTH AFRICAN MEDICAL ASSOCIATION CODE OF CONDUCT

The South African Medical Association believes that doctors should

In terms of their commitment to social responsibility:

1. Use their knowledge and skills to promote and benefit humankind.
2. Promote health for all by sharing responsibility and fostering good relationships with stakeholders for the health and health education of the nation.
3. Strive to ensure that everyone has equal access to affordable quality health care, by
 - 3.1 striving to provide medical care to disadvantaged and vulnerable groups
 - 3.2 striving to improve standards and quality of health services in the community.
4. Adhere to the principle of non-discrimination in medical care.
5. Not condone or participate in torture or any other form of cruel, inhuman or degrading procedure towards any person.
6. Treat persons held in custody in the best interests of their health and with the same concern as other patients and report maltreatment or refusal of medical services to the relevant authorities.
7. Endeavour to influence non-medically qualified practitioners to adopt safe practices.

In terms of their commitment to appropriate patient relations:

8. Foster good relationships with their patients based on mutual respect, communication and trust.
9. Allow the natural process of death to follow its course in the terminal phase of sickness when the patient requests this, thereby respecting the desire of a patient to die in dignity and comfort.
10. Ensure that patient management is not being influenced by undue pressure from third parties.
11. When determining professional fees, consider the financial position of their patients and discuss the financial implications of treatment options.
12. Maintain their clinical independence and be vigilant in situations of dual loyalty and inform relevant professional bodies and patients accordingly.

In terms of their commitment to patients' rights:

13. Respect the rights of patients, including the right to informed consent, which includes discussion and information relating to their condition so as to assist informed decision-making.
14. To provide to a patient, upon request and in terms of relevant legislation, access to medical information in the possession of the doctor.
15. Respect the confidentiality of information entrusted to them, unless legislation or an unequivocal ethical duty compels disclosure.

In terms of their commitment to maintain professional relations with colleagues:

16. Recognise their own limitations and recommend to a patient that other opinions and services be obtained when this is considered in the best interests of the patient or when requested by a patient.
17. Make all relevant information available to the colleagues concerned, unless expressly prohibited to do so by the patient after providing the patient with information regarding the desirability of continuity of care.
18. Report their findings and recommendations back to the referring colleague when asked to consult about a patient.
19. Take reasonable steps to consult with the doctor in charge of a case before superseding that doctor.
20. Conduct themselves in a professional manner that is beyond reproach, and take any necessary steps to correct unethical behaviour by colleagues, including reporting impairment as required by the Health Professions Council of South Africa.

In terms of their commitment to professionalism:

21. Ensure that they are familiar with the latest requirements set in terms of ethical behaviour by relevant professional bodies and effect changes through participatory and democratic means.
22. Ensure that they maintain their professional independence and integrity when entering into any contract regarding professional services; recognise that they remain personally responsible to their patients for health care; and ensure that the terms and conditions of contracts entered into are fair.
23. Ensure that information about themselves given in the course of presenting medical topics to the media or to audiences does not imply that they are the only, the best, or the most experienced practitioners in a particular field. Doctors should also avoid activities which could be regarded as canvassing or touting for patients.
24. Issue certificates that are in line with the requirements set by the Health Professions Council of South Africa and that constitute a fair reflection of their professional evaluation of a patient.
25. Be aware of instances of perverse incentives so as to benefit from such consideration. Doctors must recognise and disclose instances of conflict of interest.

In terms of their commitment towards science and continuing medical education:

26. Participate in continuing professional development in order to improve the standard of medical care.
27. Uphold scientific standards, promote research and create new knowledge within the frameworks of acceptable international and national standards of ethics.