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Unequal weight: equity oriented policy responses to the global obesity epidemic

The health professions need to spearhead a concerted intersectoral response to obesity, say Sharon Friel, Mickey Chopra, and David Satcher

Obesity is a global problem, unequally distributed between and within countries. In affluent societies excess weight is more common among socially disadvantaged groups, but the inverse is true in low-income countries (fig 1).

Obesity and its unequal distribution is a consequence of the complex system operating at global, national, and local levels, shaping how we trade, live, learn, and work. Focusing only on direct action to make people eat more healthily and be more physically active misses the heart of the problem: the underlying unequal distribution of factors that support the opportunity to be a healthy weight. Unless this oversight is addressed the obesity epidemic and its inequities will persist and possibly increase.

A change in diet towards highly refined foods and meat and dairy products containing high levels of saturated fats has been occurring globally since the middle of the 20th century. This, together with marked reductions in energy expenditure, is believed to have contributed to the rise in levels of obesity. Of concern in this paper are the causes of, and solutions to, these large scale changes in diet and physical activity and their unequal social distribution.

Who cares?
Dealing with inequalities in obesity requires a different policy agenda from the one currently being promoted. Action is needed that is grounded in principles of health equity. Not infrequently the medical community operates as a vanguard for progressive changes in health and social policy—for example, the US surgeon general’s call in 2001 to prevent and decrease overweight and obesity was driven by physicians. Similarly, key ingredients for success of the Framework Convention on Tobacco Control included leadership from clinicians, the World Health Organization, and the BMA.

What’s causing the energy imbalance between and among societies?
The conditions within which people trade, live, and work affect health, partly through their influence on behaviour and weight. The epidemiological pattern of obesity implies that the structures in society affect the unequal distribution of weight (fig 2).

Food systems and behaviour
The increased availability of dietary energy, globally, is due to many factors. Liberalised trade opened many more countries to the international market. Food subsidies have arguably distorted the food supply in favour of less healthy foodstuffs such as those high in saturated fat, and transnational food companies have flooded the global market with cheap to produce, energy dense, nutrient empty foods. Supermarkets and food service chains have displaced small, family run stores or stalls, encouraging bulk purchases, convenience foods, and supersized portions. Energy density and fat intake have increased in both high income and “transitioning” countries. Although global food prices have dropped,
on average, in rich countries the foods recommended in healthy eating guidelines are often more expensive than the less healthy options. Targeting community and personal norms and preferences, food advertising through television, which is omnipresent in rich countries and ever increasing in developing economies, aims to persuade individuals—particularly children—that they desire foods high in saturated fats, sugars, and salt.

**Built environment and behaviour**

Research, mainly in high income countries, indicates that local urban planning and design can influence weight in several ways. The density of residences and the mix of land uses, together with connected streets and the ability to walk from place to place, are directly related to increased physical activity. Provision of and access to local public facilities and spaces for recreation and play are directly correlated with individuals’ levels of physical activity. The increasing reliance on cars is an important influence on shifts towards physical inactivity in both developed and developing countries. Low income groups are thought to be affected more by their built environments because their activity spaces are smaller, they are more constrained by lack of transportation, and opportunities to buy healthy food are lacking in lower income neighbourhoods.

**Social conditions and behaviour**

Working and living conditions, such as having enough money for a healthy standard of living, underpin compliance with national health guidelines. Employment conditions can affect weight, although the evidence remains sparse. Current precarious employment conditions are related to sedentary work, disinclination to use active transport, and ready access to energy dense foods. More fundamentally, these labour market conditions mean increasingly less job control, security, flexibility of working hours, and access to paid family leave—thereby undermining the material and psychosocial resources necessary for empowering individuals and communities to make healthy living choices.

**Unequal society, unhealthy weight**

A person or group’s place in the social hierarchy influences behavioural choices, which are governed by the material and psychosocial resources provided by the complex system consisting of the food, built, and social environments. Unequal exposure to health protecting or health damaging aspects of these environments adds health disadvantage to disadvantages of wealth, power, and prestige. These underlying structural inequities are likely to be responsible for the unequal distribution of obesity.

**Addressing the global epidemic: the approach so far**

Traditionally, interventions to prevent obesity took a direct approach, focusing on behaviour change through developing personal skills and enhancing the local environment. They were relatively effective in the short term, but most of these interventions focused on individuals have limited evidence for sustainability and transferability to other settings. Their uptake is generally greater in higher social status groups, arguably helping perpetuate the social gradient in obesity.

More recently, wider policy action on the social determinants of the obesity epidemic has been called for. WHO’s global strategy on diet, physical activity, and health focuses on developing national food and agricultural policies that are consistent with promoting public health and multisectoral policies that promote physical activity, and providing information. In the recent European charter on obesity, ministers have committed to balancing responsibility between individuals and society. The recent UK Foresight Report makes clear the complexity of drivers that produce obesity; it highlights that most are societal issues and therefore require societal responses.

**A new policy agenda: obesity prevention through an equity lens**

Despite these efforts the global obesity epidemic continues and its social gradient persists. Missing in most obesity prevention strategies is the recognition that obesity—and its unequal distribution—is the consequence of a complex system that is shaped by how society organises its affairs. Action must tackle the inequities in this system, aiming to ensure an equitable distribution of ample and nutritious global and national food supplies; built environments that lend themselves to easy access and uptake of healthier options by all; and living and working conditions that produce more equal material and psychosocial resources between and within social groups. This will require action at global, national, and local levels.

**Global response**

At the global level, international trade agreements offer opportunity for many people to benefit. However, the nature of these agreements and the effect on health inequities between and within countries provoke concern. The experience of the Codex Alimentarius Commission (www.codexalimentarius.net) highlights the challenges. Codex is designed to help governments protect the health of consumers and ensure fair trade practices in the food trade. However, currently industry representatives hugely outnumber representatives from public interest groups, resulting in an imbalance between the goals of trade and consumer protection. This imbalance must be redressed.
Another concern is that international agreements restrict the policy space of national governments. This can be good for health, as in the case of the Framework Convention for Tobacco Control, where the global treaty is designed to narrow the policy space of governments, guiding them in a direction that is positive for health. However, WHO and other international agencies need to ensure that they have sufficient capacity and expertise, including legal expertise, to ensure that countries can implement international policy prescriptions, as well as provide technical guidance and support with respect to ensuring health concerns are represented at the international level. Building on the WHO global strategy of diet, physical activity and health, further collaboration with other UN agencies is needed to create a more extensive evidence base for understanding issues related to governance and healthy behaviours.

Ensuring that global food marketing does not target vulnerable societies requires binding international codes of practice related to production and marketing of healthy food, supported at the national level by policy and regulation. Regulating television advertising of foods high in fat or sugar to children is a highly cost effective upstream intervention. However, reliance on voluntary guidelines may result in differential uptake by better-off individuals or institutions and provides little opportunity for public and private sector accountability. Such global or national regulations must be developed by a consortium of public-private institutions and adhere to criteria for good governance.

National responses

It is possible to intervene at the national level in the structural determinants of healthy food, including matters such as domestic subsidies for healthy food production. For example, Norway successfully reversed the population shift towards high fat, energy dense diets by using a combination of food subsidies, price manipulation, retail regulations, clear nutrition labelling, and public education focused on individuals. Few developing countries have interventions that have been evaluated, but Mauritius provides an example of a relatively successful programme that includes price policy, agricultural policy, and widespread educational activity in various settings. Both the Norwegian and Mauritian programmes produced positive dietary changes in the population at large, but relatively little is documented about the effect on health equity.

Much can be achieved through good governance at the national level, particularly when basic public goods such as transport infrastructure, clean water, and electricity remain elusive. At the heart of good governance lies the challenge of ensuring coherence between different ministries and levels within governments and between different agencies to enable the necessary intersectoral action. One of the few evaluated examples of such an approach is Healthy Food for All (www.healthyfoodforall.com), an all Ireland multi-agency, equity oriented initiative seeking to promote access, availability, and affordability of healthy food for low income groups.

SUMMARY POINTS
The global obesity epidemic is unequally distributed within and between countries. It is being fuelled by economic and psychosocial factors as well as increased availability of energy dense food and reduced physical activity. Tackling it requires concerted action at national and international level to promote a more equal distribution of affordable nutritious food, and improved, more equitable, living and working conditions.

Local responses

National and regional action is needed immediately to increase the opportunity for exercise within the environment and reduce the time spent in cars. The Brazilian population-wide Agita Sao Paulo physical activity programme successfully reduced the level of physical inactivity in the general population by using a multi-strategy approach of building pathways; widening paths and removing obstacles; building walking or running tracks with shadow and hydration points; maintaining green areas and leisure spaces; having bicycle storage close to public transport stations and at entrances of schools and workplaces; and implementing private and public incentive policies for mass active transport. Local, community based initiatives can promote equitable access to healthy food. The city of Sam Chuk in Thailand restored its major food and small goods market with the help of local intersectoral action including architects. The London Development Agency plans to establish a sustainable food distribution hub to supply independent food retailers and restaurants. The lack of systematic evaluation of initiatives, particularly with an equity focus, makes it difficult to generalise policy solutions in this field. In general, urban design and planning would be greatly aided by routine assessment of the impact on health equity of where food retail outlets are placed and how easy it is to get to them. Schools are another setting where inequities are reinforced. Schools can make money through placing soft drink vending machines on school property and by subcontracting lunch programmes, which encourage the sale of high profit, low quality foods, including fast food. If schools offer physical education, large class size and lack of equipment present barriers to participation. Effective interventions in schools are those that make healthy options available while also restricting the availability of competitive foods and options for inactivity.

Conclusion

Many drivers of the obesity epidemic are shaped at the international level, but how the food system interacts with the built and social environment to affect obesity often depends on context—hence we see differing directions in the obesity gradient in low and high income countries. This must be considered in policy development and implementation, from global to local level.

The interconnected nature of the determinants of obesity implies the need for an integrated response comprising community level action and political will and investment. This requires joined-up action at global, national, and local levels, bringing together the capacity of multiple sectors. The key to that dynamic relationship is stewardship by the health sector.

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