Obesity science is also teaching us how biomedical interventions are unlikely to be sufficient to tackle this epidemic alone. The obesogenic environment – structural societal conditions including both our food system and our built environment – is an important driver of the rise in obesity levels in the past 40 years in SA and elsewhere.\[^{12-15}\] For example, the introduction of ubiquitous, cheap, highly and ultra-processed food and sugar-sweetened beverages, offered in slick venues and spaza shops accompanied by marketing campaigns often aimed at children, alongside a built environment that hinders sufficient physical activity, are major driving forces.\[^{13,14,16}\] Focusing on our food supply, facilitating access to a diversity of affordable fresh, healthy, unprocessed food and the means to prepare it, and ensuring that the public is aware of the dangers of highly processed and ultra-processed food, is a necessary step.\[^{17}\] It is highly unlikely that these systematic changes will be possible without firm government and regulatory intervention. Profit margins on heavily processed foods are far higher than on their less packaged counterparts, and powerful resource industries oppose such action, including opposition to even the most tentative steps around regulating sugary drinks and, more recently, promotion of food labelling.\[^{12,14-20}\] One chilling difference from HIV is that the viral vector did not have a massive unregulated marketing machine behind it. Distressingly, there has been little sign of urgency on the part of government to take up the issue of food advertising, quality and affordability, and some of these industries clearly have the ear of senior officials, as in other countries.\[^{18}\]

Debates on where to focus resources, programming, and attention on the prevention or treatment of clinical obesity are also reminiscent of the early HIV epidemic. Then, many prevention advocates regarded people with HIV as sad casualties of failed prevention programmes, too expensive and complex to treat. The language ‘medicalising a social problem’ has similarly started to creep into the discourse about obesity and its management, occasionally with a moral touch of ‘they brought it on themselves’.\[^{19}\] Allowing this language to persist would be a dreadful mistake. To destigmatise obesity, and effectively combat the obesity epidemic, it will be important to maximise the use of all prevention and treatment strategies simultaneously. The activist and medical communities were critical in advocating for the introduction of antiretroviral drugs and provision of healthcare that allowed individuals with HIV to live healthy, productive lives. We think that we have a moral imperative to advocate just as vigorously for individuals with obesity (Table 1).

It is past time for our government and medical community to develop a laser-like focus on responding to the disease of obesity. Doing this will require policy, legislation, programming, and funding actions that will both facilitate access to innovative medical tools for obesity and deliver these in an environment that promotes healthy food choices and active lifestyles accessible to all. SA’s HIV programme is often held up as the global model, thanks to decades of health activism, community engagement and science-based policy, along with government resources and commitment. Our established obesity epidemic now demands the same energy, commitment and focus from all of us.

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Table 1. Proposed approaches to address the obesity epidemic in SA

<table>
<thead>
<tr>
<th>Adopt strategies to address food supply healthfulness, affordability, advertising and labelling</th>
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</thead>
<tbody>
<tr>
<td>• Strengthen front-of-package warning label legislation</td>
</tr>
<tr>
<td>• Increase sugar-sweetened beverage tax to meet WHO recommendation (20%)</td>
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<tr>
<td>• Assess additional ‘sin tax’ approaches to fast food and all foods with a front-of-package label (e.g. ‘polluters pay’ approaches), and ensure that these benefit the ‘harmed’ population</td>
</tr>
<tr>
<td>• Regulate importation of ultra-processed foods further into the SA market</td>
</tr>
<tr>
<td>• Limit direct-to-consumer advertising by Big Food to youth</td>
</tr>
<tr>
<td>• Ban sale of ultra-processed or highly processed foods/sugary drinks at schools</td>
</tr>
<tr>
<td>• Subsidise production and distribution of healthy and unprocessed foods</td>
</tr>
<tr>
<td>• Address ‘food deserts’ through thoughtful policy and incentives</td>
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</tbody>
</table>

Advance a public health approach to weight management

| • Establish national obesity indicators and regularly assess progress, including monitoring and responding to food deserts where unprocessed food is unavailable and/or unaffordable |
| • Ensure that school food programmes are prioritised within education budgets, and healthy |
| • Establish primary care models of integrated holistic cardiometabolic healthcare |
| • Engage communities in design of primary care models of obesity care |
| • Establish a national research programme to address SA’s questions, priorities, and data gaps pertaining to the obesity crisis, that includes establishing better biomarkers and risk predictors beyond the BMI |

Promote accessibility and affordability of clinical interventions to support weight management

| • Propose and regularly update evidence-based guidelines for obesity management |
| • Specify an appropriate mix of medical and surgical interventions for public/private sectors in guidelines (prescribed minimum benefits) |
| • Include appropriate AOMs in the national formulary |
| • Promote generic manufacture of AOMs at scale |
| • Simplify AOM access requirements |

Address the built environment to promote increased levels of physical activity

| • Improve security and safety in communities to enable physical activity |
| • Propose city planning guidelines to ensure adequate safe public parks and spaces to promote physical activity for leisure and commuting |
| • Increase school-based physical activity programming |
| • Promote employer-based physical activity standards and/or incentives, including subsidised gym membership, equipment, bicycles |

Intervene for stigma reduction, community awareness and health professional education

| • Address cultural norms around ‘normal’ weight and body/health perceptions that may incentivise/disincentivise weight interventions, through education and advertising campaigns/public service announcements |
| • Support civil society initiatives that educate communities regarding food choices, stigma reduction |
| • Mandate healthcare provider continuing health professional curricula for obesity stigma reduction |
| • Regulate Big Food’s involvement and influences on health professionals’ attitudes to healthy lifestyles by banning contributions to conferences, research funding, educational activities |

SA = South Africa; WHO = World Health Organization; BMI = body mass index; AOMs = anti-obesity medications.
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