**Regulation of food marketing to children: are statutory or industry self-governed systems effective?**

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Extensive marketing of food and drinks high in fat, sugar, and sodium (HFSS) directly targeted to young people has contributed to the rapid rise in youth with obesity and increased lifetime risk for diseases such as diabetes, hypertension and cancer.[[1]](#endnote-1) Yet real progress towards tackling this problem has been slow[[2]](#endnote-2) and questions remain over the most appropriate and efficacious measures. This discussion often focuses on the relative merits of industry-initiated improvements versus statutory restrictions[[3]](#endnote-3),[[4]](#endnote-4). However, research has demonstrated limitations to both approaches, with similar types of loopholes that allow food marketers to continue to surround children with highly effective messages promoting HFSS products, including fast food restaurants, sugary drinks, candy, snacks, and sugary cereal.

Transnational industry stakeholders (e.g. food and beverage manufacturers) have acknowledged the potential harm of unhealthy food marketing and their role in addressing childhood obesity by enacting self-regulatory actions in major markets worldwide, typically in the form of multi-company pledges to advertise only nutritious options directly to children[[5]](#endnote-5). In most countries, governments have ceded the responsibility for improving marketing to children to these self-regulatory programs[[6]](#endnote-6). Although industry self-regulation could, in principle, help decrease children’s exposure, independent evaluations have demonstrated limited improvements in the nutritional quality of food and beverages marketed to children or reductions in children’s exposure to marketing of HFSS foods following implementation of food industry self-regulation.[[7]](#endnote-7) For example, the Children’s Food and Beverage Advertising Initiative (CFBAI) was launched in the United States in 2006. As of 2016, 18 of the largest food and beverage manufacturers and fast-food restaurants have pledged to “encourage healthier dietary choices” in advertising directed to children under age 12.[[8]](#endnote-8) However, children in 2015 saw just 3% fewer food ads on TV than they had in 2007, the first year that children’s exposure to food ads was lower than it had been before the CFBAI was implemented.[[9]](#endnote-9) Furthermore, 86% of food ads viewed by children promoted HFSS products in 2009 compared with 94% before companies enacted their CFBAI pledges.[[10]](#endnote-10) In addition, the nutritional quality of products advertised on children’s television remains worse than those advertised during programming for older audiences.[[11]](#endnote-11)

As a result, improvements in food marketing to children associated with industry self-regulation have been small and slow. In addition, there are obvious limitations to relying on industry to voluntarily make substantial changes to successful business models. Accordingly, public health experts have argued that government regulatory or legislative statutory actions will be the only effective solution4,[[12]](#endnote-12). The World Health Organisation (WHO) have given a mandate to act, via Resolution WHA63.14 (endorsed in May 2010), and have provided specific policy and technical guidance[[13]](#endnote-13),[[14]](#endnote-14).

In 2007, the United Kingdom was the first country to introduce statutory legislation specifically addressing food marketing to children, with the stated aim of “limiting the exposure of children to HFSS (foods high in fat, sugar, and/or salt) advertising on television, as a means of reducing opportunities to persuade children to demand and consume HFSS products [p3]”[[15]](#endnote-15). HFSS advertising (determined by nutrient profiling) was banned in and around programmes of particular appeal to children under 16 years, with additional ‘content rules’ prohibiting the use of some promotional characters among other components. Although the UK broadcast regulator reported that children saw 34% less HFSS advertising following the regulations[[16]](#endnote-16), academic evaluations suggest that reductions in exposure are likely limited to dedicated children’s programming[[17]](#endnote-17) or have not occurred at all - indeed, increases in relative exposure to HFSS advertising were found[[18]](#endnote-18). Furthermore, fast food restaurants have increased marketing of ‘healthier’ options that meet the nutrition criteria but allow restaurants to continue to market their brand to children[[19]](#endnote-19). It remains to be seen whether brand advertising (ads that do not depict foods at all) for other types of products have also increased over this period, another potential loophole for circumventing the regulations.

Few other statutory approaches have been evaluated. The Mexican government introduced regulations in 2015 to limit unhealthy food advertising to children on TV. However, these regulations are not expected to lead to substantial improvements in children’s exposure to unhealthy food advertising in Mexico due to two significant limitations. The nutrition quality standards in the Mexican regulations are weaker than the UK standards, and the regulations do not address advertising for HFSS foods during the majority of TV programming that children view[[20]](#endnote-20).

The WHO has identified three critical concepts that must be defined when crafting regulations addressing food marketing to children to help address the limited improvements resulting from both self-regulatory and statutory actions14.

1) The nutrition criteria used to identify “unhealthy” food and drinks that cannot be advertised to children. The UK approach – a nutrition profiling model, developed independently of the food industry and validated by nutrition professionals – has been successful at eliminating marketing of HFSS foods during child-directed programming. WHO Europe have also developed a nutrient profile model in collaboration with 17 countries across the region, and in-country pilot testing found the model to be appropriate and suitably strict.[[21]](#endnote-21) In contrast, industry self-regulatory approaches have focused on reducing sugar, fat, and/or sodium to amounts that vary by product category5,[[22]](#endnote-22), resulting in products marketed to children as “healthier” choices that contain lower, but not low, levels of sugar, fat, and/or salt and that may not provide any nutritional benefits at all. For example, CFBAI has established “category-specific uniform nutrition criteria,” whereby for each of ten categories maximum calories and nutrients to limit (saturated fat, sodium, sugar) are specified as well as some nutrients to be encouraged (e.g. whole grains, fortification with vitamins)8.

2) The age range for “children” who should be protected from unhealthy food marketing. Industry self-regulatory pledges all define children as individuals 11 years old or younger6. In contrast, the UK legislation defines children as youth under 16 years, while the United Nations defines a child as individuals under age 18[[23]](#endnote-23).

3) Types of marketing, including what qualifies as “child-directed,” that may not be used to promote HFSS food and drinks. Various approaches have been used to identify child-directed marketing. In Quebec, regulation of “child-directed” marketing bans advertising of products “exclusively designed for children or particularly appeal to children, when children consist of 15% or more of the total audience”[[24]](#endnote-24). Government and industry regulations in the UK and US respectively have focused on limiting television food advertising during programming where children are the primary audience, i.e. the proportion of children in the viewing audience is above a certain threshold. In the UK, the rules cover programmes in which the proportion of children (4-15 years) in the audience is at least 20% higher than would be found in the general population15. Most participating companies in the U.S. CFBAI define child-directed programming as those where children (2-11 years) make up at least 35% of the total audience. Both definitions have led to increases in advertising exposure during other types of TV programming that are widely viewed by children, such as family programming. Many in the UK have called for the use of a 9pm ‘watershed’ system instead, such that HFSS advertising would be restricted during viewing times popular with children similar to restrictions on other adult-only content (e.g. programming with violence or depictions of sex)[[25]](#endnote-25). In the United States, a national panel of experts recommended that advertising in media and other venues where children (2-14 years) make up 25% or more of the audience, as well as the use of marketing strategies, techniques, characteristics and venues suggesting that children are the target demographic, be considered child-directed marketing and covered by CFBAI pledges.[[26]](#endnote-26)

Furthermore, if regulating television advertising to children has been problematic, it now appears relatively straightforward in comparison to the complexities facing policy-making aiming to address digital marketing, such as social media, mobile apps, and games. US studies have demonstrated the omnipresence of unhealthy food marketing on food company websites used by over a million children each month and the detrimental effect of ‘advergames’ on children’s snack consumption[[27]](#endnote-27).

In the United States, public health experts have attempted to engage the food industry to address these limitations in self-regulation of food marketing to children through voluntary actions. In 2011, a U.S. government inter-agency working group proposed several principles for responsible food marketing to children that would support rather than undermine children’s health, including that foods marketed to children should contain a meaningful amount of nutrients that are beneficial for children (e.g., fruit, vegetables or whole grains); that regulations should limit marketing to children up to age 17; and that all forms of marketing to children (including in schools, character and toy cobranding, and product placements) should be covered[[28]](#endnote-28). However, the food industry successfully lobbied against these “voluntary guidelines” and they were never issued despite overwhelming positive support during the comment period[[29]](#endnote-29). More recently a national panel of experts developed specific definitions of responsible food marketing to children for companies to adopt, including defining children as up to age 14 and refining definitions of “child-directed” marketing to include media disproportionately viewed by children, venues that children are more likely to frequent (e.g., community recreation centres), and techniques that specifically appeal to children26. To date, the CFBAI and major food companies have not agreed to any of these proposed improvements in food industry self-regulation.

Recent government actions to strengthen statutory regulations regarding food marketing to children have had somewhat more success. A UK Government inquiry into childhood obesity recommended tougher controls on the marketing of unhealthy food and drink, including the implementation of a 9pm watershed to ensure that regulations apply to the programming that children are likely to watch, not just to children’s specific programming,[[30]](#endnote-30) although such changes did not appear in the subsequent childhood obesity plan25. In late 2016, the UK’s Committee on Advertising Practice announced new rules regarding HFSS advertising within non-broadcast media, intended to bring the regulations more in line with those that govern TV advertising from July 2017[[31]](#endnote-31). In 2015, Chile significantly strengthened its law regarding the nutritional composition of food and advertising to restrict all forms of food advertising aimed at children under 14, regardless of where it occurs[[32]](#endnote-32). The law also specifies that features of the advertisements, such as licensed characters, animation, toys, children’s settings and child voices, indicate that advertising is aimed at children and must comply with nutrition standards. Furthermore, Canadian Prime Minister Trudeau in 2016 mandated that the Minister of Health introduce “new restrictions on the commercial marketing of unhealthy food and beverages to children” as a top priority[[33]](#endnote-33).

Despite consensus on the need for regulations to limit HFSS marketing to children, many questions remain over the most successful actions and measures that can be taken to reduce the extent, exposure and negative impact of such marketing. As noted, there is evidence that statutory regulation can be effective (although close attention must be paid to the specifics and comprehensiveness of the legislation) but studies show that the impact of self-regulation is more variable. Hybrid co-regulatory or quasi-regulatory approaches have also been adopted for front of pack food labelling in some regions whereby national authorities are responsible for encouraging best practices and endorsing particular developments[[34]](#endnote-34),[[35]](#endnote-35). These approaches have not been used to regulate food marketing and there is limited evidence of effectiveness in other domains, but they could be considered. For example, a third party or regulatory agency would verify industry-developed codes or a government would require statutory regulation if certain goals are not reached by stakeholders within a specified timeframe.

The main difficulty with comprehensive statutory regulation across media platforms and with hybrid approaches lies in implementation. They both require both political will as well as a regulatory framework that allows for them, and neither are the case in the US at present. However, there is evidence of progress on statutory regulations. Canada and Chile are currently progressing with plans for comprehensive marketing bans. Specifically, implementation of Chile’s new law would see a ban on all “high in” food marketing on TV and cinema between 6am and 10pm (a notable improvement on current laws),[[36]](#endnote-36) and Canada is considering a ban on all commercial marketing to children aged 16 years and under in line with the 2014 Ottawa Principles[[37]](#endnote-37).

Regardless of approach, regular independent monitoring of the food industry is essential and it is notable that, both in the US and UK, there is an active advocacy community and robust academic research being conducted to ensure that food marketing does not simply slip under the radar. Good quality evidence – of marketing impact and robust evaluation of regulatory approaches – is essential to drive political will for change. Additional research on the impact of unhealthy food marketing on children ages 12 and older, as well as the impact of marketing beyond television advertising, would provide critical support for expanding protections provided by both statutory and industry-initiated regulations. With current rates of childhood obesity and the dire consequences for children’s health, there is no room to be complacent.

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