Comprehensive tobacco marketing restrictions: promotion, packaging, price and place

Lisa Henriksen

ABSTRACT

Evidence of the causal role of marketing in the tobacco epidemic and the advent of the WHO Framework Convention on Tobacco Control have inspired more than half the countries in the world to ban some forms of tobacco marketing. This paper briefly describes the ways in which cigarette marketing is restricted and the tobacco industry’s efforts to subvert restrictions. It reviews what is known about the impact of marketing regulations on smoking by adults and adolescents. It also addresses what little is known about the impact of marketing bans in relation to concurrent population-level interventions, such as price controls, anti-tobacco media campaigns and smoke-free laws. Point of sale is the least regulated channel and research is needed to address the immediate and long-term consequences of policies to ban retail advertising and pack displays. Comprehensive marketing restrictions require a global ban on all forms of promotion, elimination of packaging and price as marketing tools, and limitations on the quantity, type and location of tobacco retailers.

Tobacco industry marketing is one cause of the global spread of tobacco use and addiction. The content and quantity of marketing serve to promote experimentation with smoking, increase tobacco consumption, discourage quitting and encourage relapse.1 In addition, the industry’s systematic targeting of population subgroups fosters the socioeconomic and racial/ethnic disparities that characterise tobacco use patterns in many countries. For these reasons, WHO identifies bans on advertising, promotion and sponsorship among the steps required to address the global tobacco epidemic.2 By 2009, more than 100 countries had banned some form of tobacco marketing.3

This paper briefly describes the ways in which cigarette marketing is restricted and the tobacco industry’s efforts to subvert such regulation. In order to examine what is known about the efficacy of marketing restrictions, relevant literature was identified from a search of PubMed, PsycInfo and Web of Science using the terms advertising, labeling, marketing, outlets, packaging, price, point of sale, promotion, retailers, in combination with ban, policy, regulation or restriction, and with cigarette, smoking or tobacco. The results were limited to English language publications since 2000 and available for review prior to August 2011. This narrative review is organised according to four elements of an integrated marketing effort that should inform comprehensive regulation: promotion, packaging, price and place.4 Promotion refers to direct advertising (broadcast and print media, billboards/ outdoor and point of sale) and indirect advertising in the form of cigarette-branded merchandise, free tobacco products and sponsorship. Restrictions pertaining to ‘new’ media are described elsewhere in this special issue. Packaging refers to product presentation, including attributes of branding (logo, colour, descriptors) and functional design (size, shape, opening). Price refers to wholesale and retail pricing and, in this paper, includes strategies to reduce prices at the point of sale. Place refers to the distribution channels that tobacco companies use to make their products available to the public, primarily through retailers. Restrictions on promotion, packaging and price aim to reduce consumer demand for tobacco products. However, comprehensive marketing regulation should also address restrictions on place, which aim to reduce the supply and availability of tobacco products.

Analyses of internal industry documents reveal a standard set of tactics used to thwart marketing regulation: adopting weak voluntary advertising codes to avoid stronger measures, hiring consultants to discredit the evidence base for restrictions, using third-party companies to lobby against marketing restrictions, delaying or weakening their implementation with protracted litigation, and publicising imaginary barriers to enforcement in order to undermine public support and political will.5–7 In opposition to Australia’s plain packaging legislation, for example, transnational tobacco companies threatened protracted litigation for violation of international trade law and claimed that implementation would be burdensome for merchants and customers, increase opportunity for theft and diminish retailer profits. The industry uses these same arguments to oppose plain display bans.8–9 Singapore, the first country to restrict tobacco advertising, provides another illustrative example. In order to circumvent the restrictions, Philip Morris introduced a new cigarette brand by first promoting a wine cooler with the same name, and tobacco companies increased investment in Malaysian television advertising in order to reach consumers in Singapore.10 After Singapore limited retail displays to one pack front per brand variation, tobacco companies focused on special offers, novel packaging and innovative display units to maximise the remaining marketing opportunities at the point of sale. Indeed, wherever legislated bans are enacted, the industry exploits opportunities for crossborder marketing and shifts promotional efforts to unregulated channels, such as sponsorship, brand stretching and point of sale.11

PROMOTION

This section considers the impact of advertising bans on exposure to tobacco marketing and on
tobacco use. It also addresses what is known about the impact of the bans in relation to concurrent population-level policy interventions. Table 1 summarises the proportion of countries that ban various forms of advertising, promotion and sponsorship as reported by WHO. It also compares restrictions in the world’s largest cigarette markets, as well as Australia and the UK. As defined by the WHO Framework Convention on Tobacco Control (FCTC), a ‘comprehensive’ ban pertains to direct advertising (broadcast and print media, billboards/outdoor and point of sale), as well as indirect advertising, including distribution of free tobacco products (sampling), promotional discounts, non-tobacco products identified with tobacco brand names (brand stretching), tobacco products identified with non-tobacco brand names (brand sharing), industry-sponsored events and the appearance of tobacco products in television or films. WHO estimates that 19 countries and 6% of the world’s population benefit from a ‘comprehensive’ ban on tobacco marketing. Unfortunately, these are overestimates because so few countries ban pack displays at the point of sale, which are functionally equivalent to advertising and similarly influence smoking.

Two of the largest cigarette markets, Indonesia and the USA, have not ratified the FCTC. In Indonesia, weak regulation of tobacco marketing does not comply with FCTC guidelines regarding advertising, promotion and sponsorship. In the USA, the 2009 Family Smoking Prevention and Tobacco Control Act (FSPTCA) authorises the US Food and Drug Administration (FDA) to regulate tobacco products, including their marketing, regarding advertising, promotion and sponsorship. In some countries, the appearance of tobacco products in television or films is regulated by state and local governments to restrict the time, place and manner, but not the content, of tobacco marketing.

### Reducing exposure

Adult smokers’ awareness of tobacco marketing reflects objective differences in regulations between countries and is sensitive to policy change within countries. For example, months after the UK banned most forms of advertising, promotion and sponsorship, awareness of marketing decreased in the regulated channels, and more so than in Australia, Canada and the USA, where the ban was not enforced. Although the rate of decline tapered over subsequent years, the differences between marketing exposure among smokers in the UK and the other three countries persisted.

Adolescents’ exposure to tobacco marketing is also sensitive to policy change within countries and underscores the importance of including point of sale in comprehensive regulation. Like adult smokers, adolescents reported greater declines in awareness of marketing shortly after the UK ban, and more so in regulated than in unregulated channels, such as smoking in movies/television, cigarette-branded clothing, in-store advertising and displays. Just 2 years after Hong Kong supplemented a ban for broadcast media and billboards with a ban for print media, a smaller proportion of children (ages 8–10) recognised tobacco displays and free samples of tobacco products in facilities that restrict access to adults. Tobacco companies sought injunction for other provisions: limiting advertising to black-and-white text, requiring pictorial health warnings on advertising and prohibiting outdoor advertisements near schools and playgrounds (all pending appeal as of this writing). Further regulation may result from the expanded authority of state and local governments to restrict the time, place and manner, but not the content, of tobacco marketing.

Table 1 Restrictions on advertising, promotion and sponsorship compared for large cigarette markets and as a proportion of all countries. In some cases, a partial ban may reflect variation in subnational policies; for example, Australia and Canada banned retail advertising and pack displays at different times in different areas and in other cases, partial bans reflect limitations on content or placement, such as a prohibition on advertising in magazines with a large youth readership in the USA and Russia (see footnotes for specific examples).

<table>
<thead>
<tr>
<th>Restrictions</th>
<th>Countries</th>
<th>Complete ban defined by WHO</th>
<th>% of 194 countries</th>
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</thead>
<tbody>
<tr>
<td><strong>Advertising (direct)</strong></td>
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<tr>
<td>Television/radio, domestic</td>
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<tr>
<td>Television/radio, international</td>
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<td>Magazine/newspaper, domestic</td>
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<tr>
<td>Magazine/newspaper, international</td>
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<tr>
<td>Outdoor (billboard/transit)</td>
<td></td>
<td>○</td>
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<tr>
<td>Point of sale, advertising</td>
<td></td>
<td>○</td>
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<tr>
<td>Point of sale, pack displays</td>
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<tr>
<td><strong>Advertising (indirect)</strong></td>
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<tr>
<td>Branded merchandise</td>
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<td>○</td>
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<tr>
<td>Free distribution of tobacco</td>
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<td>○</td>
<td>○</td>
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<tr>
<td>Promotional discounts</td>
<td></td>
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<tr>
<td>Sponsored events</td>
<td></td>
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</tr>
</tbody>
</table>

○ = complete ban; □ = partial ban; ◯ = no ban; NR = not reported

Data sources are given in the reference list.

*Campaign for Tobacco-Free Kids (CTFK) regards Canada’s ban on point-of-sale advertising as a partial ban because the Tobacco Act permits signs in places where persons under 18 years are not permitted. Point-of-sale advertising is not allowed in other retail establishments.

†CTFK regards Canada’s ban on point-of-sale pack displays as a partial ban because it does not apply to tobacconist shops or duty free stores.

‡The ban on pack displays in the UK will be implemented in small stores by April 2012 and in large stores by April 2015.

§Australia and Canada permit financial sponsorship, but the public acknowledgement of that support is restricted. CTFK regards this as a partial ban.
brand names and logos; however, brand recognition remained prevalent (50% to 64% among children whose family were non-smokers) because point-of-sale advertising and sponsorship were not controlled.26 Two decades after Norway banned advertising in traditional media, adolescents' (ages 13–15) self-reported exposure indicated market penetration in multiple channels, particularly branded promotional items and point of sale.27 The persistent association of exposure and intention to smoke under legislated bans suggests that even limited exposure among adolescents remains a cause for concern.25 27

Other intermediate outcomes
Marketing restrictions are expected to benefit prevention and cessation efforts by reducing environmental cues to smoke and by altering the cognitive responses to marketing that predispose individuals to smoke.28 Exposure is an important marker of the success of legislated bans and it is one of the few intermediate outcomes measured in multicountry surveillance surveys (see Table 2).

Some intermediate outcomes change within a short time of policy enforcement. For example, evidence from longitudinal surveys suggests that within months after the UK banned advertising and Ireland banned advertising and pack displays, fewer adolescents (ages 13–15) overestimated smoking prevalence among peers.22 25 This and other perceptions and attitudes—receptivity to tobacco marketing, positive outcome expectations, perceived access and approval, as well as anticipated difficulty of quitting—should be addressed by global surveillance systems.

Table 2  Assessment of tobacco marketing exposure and other intermediate outcomes of marketing regulation in multicountry surveillance surveys

<table>
<thead>
<tr>
<th>Exposure measures</th>
<th>GYTS31</th>
<th>GATS32</th>
<th>ITC-433</th>
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</thead>
<tbody>
<tr>
<td>Advertising (direct)</td>
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<td></td>
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<tr>
<td>Television/radio</td>
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<td>0</td>
<td>1† ‡</td>
</tr>
<tr>
<td>Magazine/newspaper</td>
<td>2</td>
<td>0</td>
<td>1</td>
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<tr>
<td>Outdoor</td>
<td>2</td>
<td>0</td>
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</tr>
<tr>
<td>Direct mail</td>
<td>0</td>
<td>1</td>
<td>1†</td>
</tr>
<tr>
<td>Point of sale, advertising</td>
<td>0</td>
<td>1</td>
<td>1†</td>
</tr>
<tr>
<td>Point of sale, pack displays</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Advertising (indirect)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Branded merchandise</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Free tobacco products</td>
<td>1</td>
<td>1</td>
<td>1†</td>
</tr>
<tr>
<td>Sponsored events</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Price promotion</td>
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<tr>
<td>Coupons</td>
<td>0</td>
<td>1</td>
<td>1†</td>
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<tr>
<td>Discounts</td>
<td>0</td>
<td>1</td>
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<tr>
<td>Gifts with purchase</td>
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<td>1</td>
<td>1</td>
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<tr>
<td>Other intermediate outcomes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Difficulty of quitting</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Perceived access</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Perceived approval</td>
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<tr>
<td>Perceived prevalence</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Positive outcome expectations</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Receptivity to tobacco marketing</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Cell entries: 0—unmeasured, 1—discrete measure, 2—frequency measure.
*Television only.
†Radio only.
‡Measured for a subset of countries.
GYTS, Global Youth Tobacco Survey; GATS, Global Adult Tobacco Survey; ITC-4, International Tobacco Control Four Country Survey (Australia, Canada, UK, USA).

In developed nations, comprehensive, but not limited, advertising bans reduced per capita consumption by approximately 7%.29 34 In developing countries, comprehensive bans reduced per capita consumption by 24% and limited bans by 14%, which suggests that advertising bans could have a greater impact in developing countries than elsewhere.34

Smoking prevalence has generally decreased among adults and adolescents in developed countries that adopted advertising bans.35–37 In Brazil, decreases in lifetime smoking and heavy smoking among youth (ages 11–18) were observed in 8 of the 10 cities that were surveyed 2 years after the country banned advertising in all domestic media.37 Similarly, US restrictions on billboard and magazine advertising, branded promotional items and sponsored events coincided with declines in lifetime and past-month smoking by adolescents after 10 consecutive years of increasing rates.38 Of course, such ecological evidence cannot rule out the effects of other influences on smoking prevalence, including secular trends, economic changes, or concurrent policy interventions. Indeed, it is difficult to isolate the impact of marketing regulations because they are typically national in scope and implemented in concert with other measures, such as price controls, mass-media campaigns and smoke-free laws.

The few studies to address this topic suggest that strong advertising bans are second only to price policies in their impact on adult smoking.39 40 For example, a simulation model designed to explain change in smoking prevalence in Thailand attributed 61% of the decline in smoking among men to tax increases, 22% of the decline to a strong advertising ban, and the remainder to smoke-free laws, a media campaign and health warnings.40 Using a scoring system to rate the quality of tobacco control policies in 18 European countries, the study by Schaap et al suggested that price policies were the strongest correlate of overall quit ratios.39 In addition, stronger advertising bans were associated with higher quit ratios for gender and age groups with high education, and were the only policy correlates of quit ratios among men (ages 25–39) with low education.

A few studies of individual-level outcomes focus primarily on adolescent smoking in high-income countries, and provide little evidence as yet that existing bans are sufficient to reduce the odds of being a current smoker.42 43 The odds of regular smoking by 15 year olds in 29 European countries was not correlated with the strength of advertising bans, adjusting for other country-level policies and individual differences.44 In Australia, stronger restrictions on point-of-sale marketing predicted higher odds of past-month smoking by adolescents (ages 12–17).43 The authors noted that industry tactics to circumvent regulation, particularly the introduction of larger pack displays with more brand variations, could explain the counterintuitive finding.

In summary, a global marketplace for tobacco products and the industry’s hydra-headed strategy to circumvent regulation has made it impossible to extinguish exposure to all forms of advertising, sponsorship and promotion. Bans significantly reduced exposure among adult smokers and adolescents in regulated channels. Observed decreases in smoking prevalence and associations with quit ratios confirm the importance of strong advertising bans for tobacco control. Evidence suggests that these policies also could diminish some of the cognitive responses that predispose individuals to smoke.22 25

PACKAGING
Pack design serves a critical role in tobacco marketing, particularly as other channels are restricted.44 In order to communicate with current and future smokers, the tobacco industry exploits all elements of packaging, including the construction, outer film,
t朋友们对 further regulation is needed to eliminate the misconception used lighter pack colours to signify lower strength.50 In many countries from the brand information53 and experimental auctions to reviews elsewhere.46

Deceptive descriptors
A total of 91 countries, including the USA, prohibit the misleading terms ‘light’, ‘mild’ and ‘low tar’ on cigarette packaging, as required by the FCTC (Article 11) and the FSPTCA.3 18 Evidence from high-income and low-income countries describes significant declines in adult smokers‘ beliefs that ‘light’ cigarettes deliver less tar, are less harmful or easier to quit.47 48 In Thailand, the labelling restriction significantly reduced the proportion of adult smokers who agreed that ‘light’ cigarettes are less harmful, and the impact was most pronounced among the lowest socioeconomic group.48 Smaller reductions were observed in high-income countries, where false beliefs were lower to start, and the effects decayed over time.47 In spite of the labelling restriction, approximately 20% of adult smokers in high-income countries reported that ‘some cigarettes could be less harmful than others’.49 and 39% of adult smokers in Thailand reported that ‘light’ cigarettes were less harmful.48 In order to circumvent the regulation, tobacco companies replaced the banned terms with similarly deceptive words (eg, ‘smooth’) or numbers, manipulated the thickness of packaging to indicate that soft packs contained lighter/milder cigarettes than hard packs,48 and used lighter pack colours to signify lower strength.50 In many countries including the USA, tobacco companies substituted blue packaging for ‘mild’, gold for ‘light’ and silver for ‘ultra-light’ brands.50 51 It is evident that consumers accept colour variation and other cues as indicators of reduced risk 49 51 and that further regulation is needed to eliminate the misconception that some cigarettes are less harmful than others.

Plain packaging
Policies that seek to ban the use of trademarks, logos and other brand imagery from packaging would minimise tobacco companies’ ability to cultivate false impressions that any cigarette brand is less hazardous to health.52 With a standardised shape, method of opening and background colour, the only distinguishing feature of packs would be brand and product variant names in a uniform style, colour and position.8 Given the industry’s long-held objective to prevent plain packaging in any market, evidence about the anticipated benefits of plain packaging is primarily limited to experiments involving subjective ratings by young adult smokers and adolescents.8 52 Notable exceptions have used eye tracking to demonstrate increased visual attention towards the warning information and away from the brand information.53 and experimental auctions to assess the potential impact of graphic warnings on consumer demand.54 The adoption of plain packaging in Australia (anticipated in 2012) will create the first opportunity for policy evaluation. In addition, further experimental research that features autonomic responses and behavioural indicators of attention or implicit attitudes would be informative.

This section focused narrowly on regulation of packaging, but marketing restrictions must also address what comes inside the box. Indeed, the FCTC (Articles 9 and 10) restricts the use of flavoured additives in cigarettes and some other tobacco products.15 Although the FSPTCA restriction is limited to cigarettes and excludes menthol flavouring, the FDA should strengthen this regulation in order to protect the public.55 Other design features of tobacco products (eg, coloured cigarette paper, gold tipping, heart-shaped filters, novel filtration systems) and related marketing efforts have similar potential to encourage product trial and to attract specific target groups, especially youth.1 Enhanced surveillance is needed to identify new product designs and to inform more comprehensive marketing restrictions.
savings. With price cap regulation, differential pricing of cigarette brands would reflect the manufacturers’ production costs rather than audience segmentation strategies, thereby limiting the industry’s use of price as a marketing tool. Without additional restrictions on retail pricing, however, retailers could use discount offers to grow target markets and profits.

PLACE
This section considers the distribution channels for tobacco products, primarily bricks-and-mortar retailers, as well as vending machines and mobile vendors where they are allowed. Economically disadvantaged areas and individuals have greater access to tobacco retailers, although there is more evidence of this in the USA than elsewhere. Tobacco retailer density measures the concentration of places where tobacco products are sold, typically per area or per population. Higher tobacco retailer density is believed to promote smoking by making cigarettes more accessible and available and by increasing environmental cues to smoke. For example, the more tobacco outlets surrounding high schools in Ontario, Canada, the greater the likelihood that underage smokers purchased their cigarettes. Higher tobacco outlet density is associated with smoking by adolescents and adults, but the evidence is derived predominately from cross-sectional studies conducted in the USA. To few studies address tobacco retailer density as a deterrent to cessation or as a correlate of tobacco-related disease.

WHO identified restricting retailer density as an effective method to reduce alcohol consumption and alcohol-related harms, and interest in adapting this strategy to tobacco control is growing. Unfortunately, neither the FCTC guidelines nor the FSPTCA promote this strategy beyond restricting vending machines. Eliminating the sale of tobacco products in establishments where smoking is already prohibited, such as airports and hospitality venues, would complement smoke-free laws and reinforce social norms against smoking. Other recommendations to limit the quantity, location and type of tobacco retailers include establishing a minimum distance between them, as well as limiting their proximity to places frequented by children and to other locations such as hospitals, government buildings and places of worship.

Pharmacies represent a particularly important regulatory challenge. In addition to the symbolic reasons to ban the sale of tobacco products in pharmacies, it would reduce the number of tobacco retailers (by approximately 7% in the USA). Alternatively, pharmacies could be the only outlet where tobacco products are sold. Offering prescription-only cigarettes is consistent with policy objectives to regulate tobacco products like other addictive drugs, as well as to restrict youth access, limit exposure to marketing and reduce retailer density. A few US cities ban tobacco sales in pharmacies, but the FSPTCA prevents the FDA from banning tobacco sales in any particular type of retailer and requiring prescriptions for product purchase.

In order to achieve reductions in retailer density, policymakers should also consider incentives for retailers to stop selling tobacco products. More detailed knowledge of tobacco company contracts with retailers, and a better understanding of what motivates retailers to refuse or abandon the sale of tobacco products, would improve policy development.

IMPLICATIONS FOR POLICY AND PRACTICE
In spite of its importance to the industry, or perhaps because of it, point of sale is the least regulated channel for tobacco marketing. Existing bans on advertising and promotion are compromised as tobacco companies increasingly shift their marketing dollars to the point of sale. Fewer than 10 countries have passed legislation to ban visible pack displays. More effective regulation of the point of sale is essential to reduce demand for tobacco products as well as their supply. Genuinely comprehensive marketing restrictions require a global ban on all forms of promotion, elimination of packaging and price as marketing tools, and limitations on the quantity, type and location of tobacco outlets.

Accurate knowledge about the number, type and location of tobacco outlets is essential to monitor tobacco industry activity and to enforce comprehensive marketing restrictions. Although this knowledge is best obtained through retailer licensing, the FCTC does not address such regulation and too few countries require it. Subnational policies govern tobacco retailer licensing in Australia, Canada and the USA, and some jurisdictions issue licenses without a fee. Ireland established a national registry of tobacco retailers and requires a one-time fee (€50). Alternatively, a renewable license could require an annual fee that reflects the benefit of product sales to retailers as well as the costs to public health. For example, licensing fees could be proportional to tobacco sales revenue for each retailer and uniformly higher than the fee required to sell alcohol, which is comparatively less harmful to public health. License revocation is one possible mechanism to enforce other laws that apply to retailers (marketing, tax, price, sales to minors, smuggling), and should be considered an essential tool for comprehensive tobacco control.

Marketing expenditure data are also needed to enhance existing surveillance systems and to monitor trends in exposure opportunity. Although the largest US cigarette manufacturers are compelled to report annual expenditures for detailed marketing categories, the most recently available data are several years old and do not disclose spending for international markets. Governments should compel timely disclosure and reporting of industry expenditures for all forms of marketing, as required by the FCTC. In order to support global surveillance, these requests should address international expenditures, reported separately by country.

Comprehensive marketing bans would benefit from additional efforts to build global capacity for surveillance and enforcement. According to WHO, fewer than half of all countries with a ‘comprehensive’ ban have achieved high compliance, which suggests that more progress has been made towards enacting marketing restrictions than enforcing them. Poor compliance with marketing restrictions documented in the USA and other high-resourced countries illustrate significant challenges for tobacco control. For example, California pursued successful enforcement action against several tobacco company violations, such as distributing free tobacco products at sporting events where minors competed and mailing free cigarettes to individuals’ homes. The state’s tobacco control programme illustrates the importance of shared resources and technical assistance for consistent monitoring of tobacco marketing activities, legal action to deter marketing violations, and dissemination of educational materials and media campaigns to enhance public support and policy adoption.

IMPLICATIONS FOR FUTURE RESEARCH
Research is needed to encourage policies that address the strategic importance of point of sale, particularly to examine the long-term consequences of banning retail advertising and pack
displays. Longitudinal studies with larger representative samples are needed to examine how comprehensive regulation interrupts the direct and indirect effects of marketing exposure on adolescent and adult tobacco use. In the absence of comprehensive regulation at the point of sale, there is little evidence as yet that the relationships between marketing exposure, perceived prevalence and intention to smoke are either reduced or eliminated over time. In addition, such regulation could be expected to reduce craving and urges, particularly among smokers who are more sensitive to external cues.

More research is needed to address the impact of advertising bans in relation to concurrent policy interventions. Comprehensive marketing bans complement mass media campaigns to reduce the salience of pro-smoking cues and to increase anti-smoking norms. The combination may be particularly effective when intervention messages reflect and reinforce the same content, such as Australia’s graphic warning labels and its media campaign against smoking. Additional methods and measures are needed to capture the potential for synergy. For instance, ecological momentary assessment seems well suited to identify the mix and frequency of pro-tobacco and anti-tobacco messages to which individuals are exposed. A proportional measure or share of mind for pro-tobacco or anti-tobacco cues may better detect the result of industry marketing and tobacco control media campaigns that compete for individuals’ attention. Detailed scoring systems are also needed to describe substantial variation in marketing restrictions within and between countries and to illustrate the relative contribution of strong enforcement.

Too little is known about the potential for regulations to either reduce or exacerbate economic or racial/ethnic disparities in exposure to tobacco marketing and tobacco use. A systematic review of multiple population-level interventions concluded that advertising bans showed no differential effects on adolescent smoking by gender or age. However, the review identified only two studies that reported effects by any sociodemographic variables, and neither intervention regulated any aspect of point-of-sale marketing. More recently, the ITC Four Country Survey observed that adult smokers of different socioeconomic groups reported similar declines in awareness of marketing. However, most jurisdictions permitted point-of-sale advertising, price discounting or both over the survey years.

Finally, greater monitoring of tobacco marketing practices in low-income and middle-income countries is needed, as well as evidence of the impact of marketing restrictions. Recommendations to improve monitoring of exposure to tobacco marketing and to include other intermediate markers of marketing regulation in global surveillance surveys are consistent with the Millennium Development Goals. Because economically disadvantaged areas and persons have greater access to tobacco outlets, the potential exists for comprehensive restrictions that address promotion, packaging, price and place to reduce socioeconomic disparities in smoking within and between countries.

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