

Developing more detailed taxonomies of tobacco industry political activity in low-income and middle-income countries: qualitative evidence from eight countries

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ABSTRACT

Introduction Historical evidence, predominantly from high-income countries (HICs), shows that the tobacco industry uses a recurring set of arguments and techniques when opposing tobacco control policies. This data formed the basis of a model of tobacco industry political activity known as the policy dystopia model (PDM). The PDM has been widely used in tobacco control research and advocacy and has subsequently been shown relevant to other unhealthy commodities industries in both HICs and low-income and middle-income countries (LMICs). Before it can be validated as a generic tool for researching corporate influence on policy, one needs to determine whether the PDM successfully captures contemporary corporate political activities in LMICs.

Method We conducted semistructured interviews with 22 LMIC-based advocates and used the transcripts as the primary data source. The discursive and instrumental taxonomies constituting the PDM served as the starting point for the coding framework. Using thematic analysis, we combined deductive and inductive coding to ensure we captured all strategies from the PDM and the interviews.

Results This study found that the tobacco industry uses a set of discursive and instrumental strategies that is largely consistent across LMICs and with the PDM. We identified several minor contextual nuances absent from the PDM. Some of these nuances were characteristic to individual countries, while others to LMICs more broadly. They included the argument that tobacco control policies unfairly punish reputable tobacco industry actors, and an emphasis on instrumental strategies centred around maintaining a good image, rather than rehabilitating a tarnished image as emphasised in the PDM.

Conclusions Allowing for the nuances identified in this study, the PDM has been found to be fit for purpose. The revised model should now be tested through in-depth LMIC case studies and could be used to facilitate comparative studies of unhealthy commodity industries' political activities.

INTRODUCTION

Over recent decades, significant progress has been made in understanding and exposing

Key questions

What is already known?

- Historical evidence, predominantly from high-income countries (HICs), indicates that the tobacco industry has repeatedly used a similar set of arguments and techniques when opposing tobacco control policies.
- Based on this evidence, a model of tobacco industry political activity known as the policy dystopia model (PDM) was developed and has been used in tobacco control and in research on other unhealthy commodities industries.

What are the new findings?

- This research shows the PDM effectively captures corporate political activities in low- and middle-income countries (LMICs), while also identifying context-specific variations in arguments and techniques the tobacco industry uses.
- Context-specific arguments identified across multiple LMICs included claims that tobacco control policies would negatively impact development, and tobacco farmers, were not in the national interest but driven by a foreign agenda, and that policies used in HIC-settings may not work in LMICs.
- Looking at the techniques, we found that reputation management emphasised building and maintaining a favourable image rather than the image rehabilitation seen in HICs, and that the industry sought to build long-term relations with media professionals and intimidate advocates.

What do the new findings imply?

- The PDM provides an appropriate tool for studying, predicting, and countering tobacco industry political activity across countries of all incomes, but it requires some flexibility to capture context-specific strategies.

the corporate political activities of unhealthy commodity industries; activities which pose a substantial obstacle to advancing public health policies.^{1–8} This research is furthest

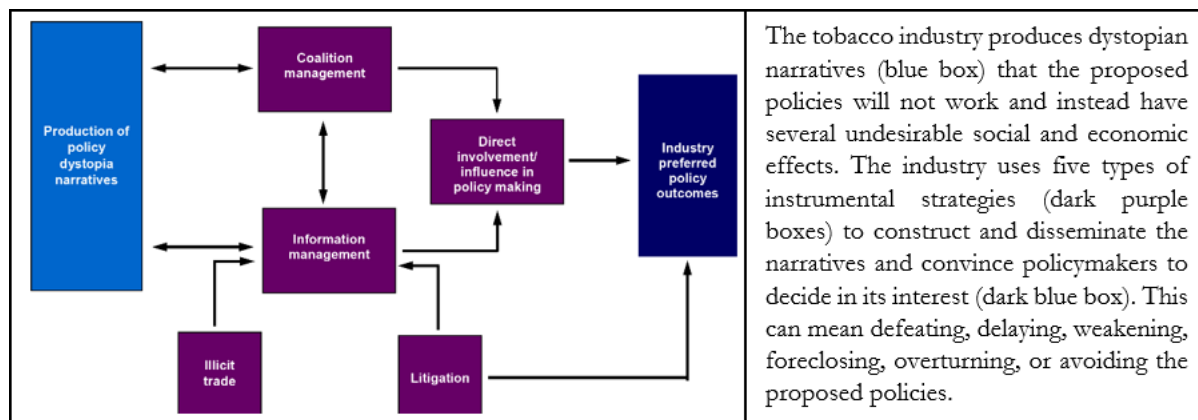


Figure 1 Policy dystopia model.¹²

advanced in tobacco control in part due to the release of millions of pages of internal tobacco industry documents through litigation.⁹

To make sense of this growing literature which primarily took the form of country-specific or policy-specific case studies, we previously conducted two systematic literature reviews, one on tobacco industry influence on tobacco taxation¹⁰ and one on tobacco industry influence on marketing regulation.¹¹ These showed that the industry consistently uses the same strategies to influence policy. The two reviews were used to create an evidence-based model of tobacco industry political activity known as the policy dystopia model (PDM).¹² The purpose of the PDM was to enable to predict, pre-empt and counter tobacco industry efforts to influence tobacco control policies and to facilitate comparative research on other unhealthy commodity industries.^{12 13}

The PDM conceptualised a dynamic model of political influence with five discursive (argument-based) and five instrumental (action-based) strategies. All of these were found to act synergistically to achieve the industry's preferred policy outcomes (see figure 1).

The PDM's ongoing relevance to contemporary tobacco industry influence in high-income countries (HICs) has been established^{14 15} and research using the PDM and the previous reviews also showed that alcohol, food and gambling companies use broadly similar strategies.¹⁶⁻²⁴ However, a potential weakness remains that the PDM mostly draws on evidence from HICs. Eighty per cent of the papers (52 papers) included examined corporate political activities in HICs, and less than 8% (five papers) focused on low-income and middle-income countries (LMICs) (the remaining eight papers had a regional or transnational focus), reflecting the literature base at the time. Further, all the LMIC-based articles were published before 2010 and often described corporate political activities before 2000.

While two recent studies using the PDM to code corporate political activities of the tobacco industry in Nigeria and Brazil found broadly similar tactics,^{25 26} there remains a need to validate whether the model successfully captures contemporary tobacco industry political

activities in LMICs, particularly given structural changes to the tobacco industry.²⁷ Such work is particularly urgent since 80% of all smokers live in LMICs,²⁸ and because the adoption and implementation of the Framework Convention on Tobacco Control (FCTC) tends to be slower and weaker in those countries.^{29 30}

This study examines the tobacco industry's political activities in a diverse set of LMICs using insights from tobacco control advocates. It aims to answer the following questions:

- ▶ What discursive and instrumental strategies does the tobacco industry use in LMICs?
- ▶ Do the strategies used by the tobacco industry vary by individual country and context?
- ▶ Do these strategies vary from those used in HICs?
- ▶ To what extent does the PDM provide a suitable tool for studying and predicting tobacco industry political activities across countries and income contexts?

A better understanding of tobacco industry political activities globally can help strengthen tobacco control and support advocates' efforts to pre-empt and counter industry activities.³¹ It can also facilitate comparative studies on the tobacco industry and other unhealthy commodity industries.

METHODS

Sampling and recruitment

We purposively selected eight LMICs which had recently adopted or consulted on a key tobacco control policy. These included comprehensive regulations (Ethiopia, Uganda, Zambia), health warning regulations (Bangladesh, India, Sri Lanka) and tobacco tax increases (Colombia, Ukraine) (table 1). Since we sought to record experiences from a diverse group of countries, the eight LMICs are located in four WHO regions and represent the three LMIC income-economy groups.

Participants had to have at least 3 years of experience in tobacco control advocacy at the national level. They were also required to be fluent in English, which limited the pool of potential interviewees, but helped avoid challenges of working with multiple interpreters.³²

Table 1 Selected countries' income group and recent policy

Country (region)	Income-economy type	Type of policy	Policy
Bangladesh (South-East Asia Region)	Lower middle income	Health warning regulation	The Smoking and Tobacco Products Usage (Control) Rules 2015
Colombia (Region of the Americas)	Upper middle income	Tax increase	Broad fiscal reform package approved by Colombia's Congress in 2016
Ethiopia (African Region)	Low income	Comprehensive regulation	Food and Medicine Administration Proclamation No. 1112/2019
India (South-East Asia Region)	Lower middle-income	Health warning regulation	G.S.R. 727(E) (2015) G.S.R. 739(E) (2016) G.S.R. 331(E) (2016)
Sri Lanka (South-East Asia Region)	Upper middle-income	Health warning regulation	The National Authority on Tobacco and Alcohol (Amendment) Act (2015)
Uganda (African Region)	Low income	Comprehensive regulation	Tobacco Control Act 2015, implementing regulations from 2019
Ukraine (European Region)	Lower middle income	Tax increase	2017 budget approved by Parliament, submitted by the Ministry of Finance
Zambia (African Region)	Lower middle income	Comprehensive regulation	Zambia Tobacco and Nicotine Products Control Bill (Draft Bill being considered by Line Ministries at the time of data collection)

Sources: WHO Region,⁶⁸ income-economy group,⁶⁹ information on health warning and comprehensive policies,⁷⁰ information on tax increases.⁷¹ For a more detailed table, see ³¹

To document varying perspectives from each country, we sought to include two to four participants from at least two civil society organisations (CSOs) per country. We focused on CSOs rather than on non-governmental organisations (NGOs), as it is a broader category that includes, among others, NGOs, charities and professional bodies³³ and hence more adequately reflects the landscape of tobacco control organisations.

We identified potential participants in and through our networks of tobacco control advocates and researchers, followed by snowball sampling. We approached potential participants with an information sheet via email.

Data collection

We developed a semistructured interview guide to explore participants' experiences of the discursive and instrumental strategies the tobacco industry used in their country. The questions were openended but we also probed important elements of the PDM if they had remained unmentioned. The interview schedule also explored participants' accounts on countering corporate political activities and what would facilitate these efforts; those data form part of a separate study.³¹ We piloted the guide with a tobacco control advocate and researcher who was, as most participants, not an English native speaker. All interviews were conducted in English, recorded with participants' permission, and subsequently transcribed.

Data analysis

Thematic analysis, facilitated by NVivo 12, was used to identify patterns across the interview transcripts.³⁴ The taxonomies of the PDM¹² served as the starting point for the coding framework (see online supplemental tables 1

and 2). In addition, we used an inductive approach to identify strategies not included in the PDM.

BKM led the coding and KL and MZ second-coded 50% of the transcripts each. BKM met regularly with ABG, KL, MZ and LR to discuss key findings. To ensure the validity of our results, we compared the newly identified strategies with academic case studies of tobacco industry political activity in LMICs.

All participants gave consent to participate.

Patient and public involvement

No patient or public involvement.

RESULTS

Sample

Between June and October 2019, we conducted 20 interviews with 22 participants from eight countries and 18 different organisations. Five interviews were in-person; 15 took place online, using Microsoft Teams; 2 interviews

Table 2 Distribution and IDs of interviewees

Recent tobacco control measures	Countries (no of interviewees)	Interviewee IDs
Comprehensive bills/laws	Ethiopia (3), Uganda (3), Zambia (4)	
Health warning regulations	Bangladesh (2), India (3), Sri Lanka (2)	P1-P22
Tax increase	Colombia (3), Ukraine (2)	

involved 2 participants. The average duration per interview was 90 min. Table 2 summarises the distribution of interviewees by type of change and country.

Discursive strategies

Consistent with the PDM, advocates' accounts suggest that the tobacco industry's overall approach was to create a comprehensive and convincing narrative which proposed that tobacco control policies are undesirable by exaggerating their potential costs and dismissing potential benefits.

Exaggerating costs of the proposed policy

The most important and commonly mentioned arguments: illicit trade and farming

Participants consistently identified the claim that the proposed policy would increase illicit tobacco trade as the tobacco industry's preferred argument. The industry would use this argument to fight a range of proposed measures, including taxes, health warnings and plain packaging. As one participant put it, 'they were very comfortable with the argument of smuggling. They use it for everything' (P15).

In countries where tobacco farming takes place, participants consistently reported that the industry argued the policy would hit tobacco farmers and farming communities, often claiming that farmers would struggle to switch to other crops or activities. This argument went beyond job losses and highlighted the impact of the policy on farmers' livelihoods more broadly. When farmers' groups appeared, for example in a public hearing, they would emphasise the impact of the proposed policies on their communities 'they said you can't stop tobacco, our school fees come from tobacco, our food comes from tobacco' (P3). The industry portrayed tobacco farmers as victims of tobacco control policies and in some countries, it even claimed that tobacco control measures led to suicides among farmers.

Other commonly mentioned arguments: economic impact and legal concerns

Two more arguments were common across the studied countries but were mentioned less frequently and seen as somewhat less critical by the interviewees. First, the industry often referred to potential job and income losses in the retail sector as a result of the proposed policy. Such claims were often repeated by organisations which participants identified as industry front groups, including retailer associations. The industry also highlighted the potential damage the proposed policies would cause to the country's economy and development. This argument was particularly emphasised when the industry tried to target ministries of finance. In one example, a participant recalled that a business group, which was perceived as a tobacco industry front group, held a meeting that 'was really aimed at looking at the FCTC and how it was going to damage the economy' (P22). The Minister of Finance attended this meeting.

The second argument related to legal concerns that the proposed policies would be unconstitutional or that the relevant public body does not have the power to adopt them. Participants reported that such arguments often formed the basis for legal actions (see instrumental strategies—litigation). The unconstitutionality claim was supported by a range of arguments, including that policies would violate individual rights and the industry's right to trade or practice free speech. In one country, interviewees recalled that the industry claimed that the Minister of Health would not have the power to issue the regulation; the legal actions initiated by the industry delayed the implementation of the regulation by years.

A prevalent argument focusing on the industry's role: penalisation of a reputable industry

Participants consistently reported that the industry often highlighted its beneficial contribution to the country's development. It argued that proposed tobacco control measures would unfairly penalise the tobacco industry, a legitimate and reputable actor.

[They say] that we [tobacco control community] want to kill the industry that gives working places, that gives money to [country name] and to the government and so on. (P16)

This argument is multifaceted and was reported in reference to the tobacco industry being a major taxpayer, engaging in Corporate Social Responsibility (CSR) activities or purporting to lift farmers out of poverty. Participants reported that such claims appeared to carry weight and were repeated by policy makers, especially those from ministries of finance and agriculture.

A relevant context-specific argument: national interest

Participants from one country reported that the industry claimed the proposed policy was not in the national interest and that a foreign agenda was driving tobacco control.

[They said] these NGOs [with external funding] are trying to do aggressive tobacco control, which is aimed at destroying the domestic tobacco industry, so that the foreign tobacco industry, which is basically multinational companies, can come and establish their market. (P12)

This argument was perceived as impactful as it was accompanied by efforts to stop state funding for tobacco control groups (see instrumental strategies—coalition management).

Containing and denying benefits of the proposed policy

Consistent with the PDM, the interviewees indicated that the industry tried to deny the public health benefits of the proposed policies. At the same time, it sought to avoid any discussions of the costs the policy would impose on the industry. Instead, as outlined above, the industry focused its arguments on the potential costs for other groups, including farmers and retailers.

A tobacco industry claim mentioned by participants from all countries was that the proposed policies would

not work. The industry used several lines of arguments to support this claim. In the case of health warnings, it argued that it would not have sufficient time to prepare for the changes or that it would be impossible to implement them ('they argued that they didn't have any machinery to print graphical health warning on the pack' (P6)). To prevent a tax increase, participants reported that:

They said that if you continue to tax cigarettes, people will switch to cheaper forms, [country name] has cheaper forms of tobacco available. (P9)

Across policies, the industry emphasised the difference between HICs and LMICs ('the industry said this works for the developed, but not in a developing country' (P20)). In one country, the industry linked this argument explicitly to the evidence base for tobacco control:

[They said] we really don't have adequate evidence to say that tobacco causes cancer in [country name], the studies are from other countries [in the Global North]. (P21)

Finally, another LMIC-specific justification for why the policy would not work linked to a lack of state capacity in implementing and enforcing regulation ('they said (...), the government is weak on implementation. So, it doesn't affect our market.' (P11)).

Instrumental strategies

Consistent with the PDM, participants reported that the tobacco industry employed a range of instrumental strategies to construct and disseminate its dystopian narratives and convince policy makers to decide in its interest.

Direct involvement and influence in policy

Interviewees viewed the tobacco industry's direct involvement in the policy arena as the most important strategy through which it sought to influence policy. Public hearings were one easy way for the industry to access the policy-making process. Sometimes, the industry spoke for itself ('I've seen four or five of their top officials attending the public hearing, and they were actively defending their interests.' (P10)). However, in several cases, the industry used front groups to defend its interest, for example, farmers. 'They bring farmers [to the public hearing] who clearly indicate if this law is ratified their livelihood would be significantly affected.' (P11)

Participants also frequently mentioned that the industry exerted influence on governmental decision making in less formal ways ('It mostly happens behind the doors, not through any public hearing.' (P9)). The lack of transparency of this approach was seen as particularly problematic: 'We don't know for instance, who they meet in the Ministry of Finance... we really have suspicions that there is a lot of underground influence.' (P3).

Furthermore, participants shared suspicions of how the industry used incentives and threats to secure influence but admitted that they were frequently unable to find concrete evidence. A common suspicion was centred around financial incentives ('They gave bribes to politicians who are moving our bill.' (P2)). In some instances,

financial incentives were perceived as part of longer-term strategies aiming at securing wide support and building networks of influence: '[The tobacco industry] has a lot of influence in terms of sponsoring candidates for elections. [Company name] also funded political parties.' (P18)

Participants also recalled that the industry put policy-makers under pressure. In several instances, companies threatened that they would leave a country if taxes increased or if 'you [the government] continue giving us a very difficult legal environment' (P19). Although no examples of industry following through on such threats were identified, the industry was thought to have successfully used them to avert undesired policy outcomes. One participant reported that the industry had temporarily stopped production in their country after health warnings became mandatory. 'But the health minister didn't really budge so then they resumed the production and went back to normal.' (P14)

Finally, interviewees suggested that individual policy makers, for example, parliamentarians leading on tobacco control legislation, had experienced intimidation from the industry. '[The industry] would go and intimidate his [MP leading the bill] voters, and intimidate him through his voters. So the voters would say "you're killing our livelihood, we will not give you a vote".' (P2)

Information management

Participants detailed the industry's widespread use of information management strategies, which in the PDM include producing and amplifying industry-favourable data or evidence while suppressing public health evidence; concealing industry links to evidence; and engaging in reputation management.

Of these, reputation management was most widely mentioned by our interviewees. Participants from half of the countries recalled the tobacco industry working with PR firms, and all participants detailed numerous CSR activities.

Table 3 lists the CSR activities reported by participants. Each participant mentioned at least one example.

While most CSR activities were reported to occur countrywide or focus on specific vulnerable groups, some participants suspected that 'they claim that they are doing CSR for all, but actually they are doing CSR for their own contracted farmer' (P6).

Participants also reported that the industry sought to establish itself as a trustworthy government partner by offering support in difficult times.

One of the things they've done successfully... trying to show that they are a legitimate company... that is good to society... that they are authentic. (P9)

This was considered highly impactful in facilitating access to policy makers, especially those from ministries of finance and agriculture who would often repeat such narratives. Participants consistently raised concerns about the lack of tobacco industry denormalisation and

Table 3 CSR activities reported by interviewees

Sector	No of countries	Examples reported by participants
Health	7	Building hospitals/ cancer wards/ health facilities (generally and in farming areas specifically), funding health programmes such as screening for cancer, hypertension and diabetes
Education	6	Building schools (generally and in farming areas specifically), providing scholarships
Environment	5	Planting trees, recycling and waste management
Tobacco farming and communities (overlapping with health and education)	5	Providing seedlings and technical support for farmers, building solar plants, water plants, health facilities and schools, and offering scholarships
Communities (not explicitly referring to farming communities)	4	Building a public library, providing chairs for a community hall, providing umbrellas and stationery
Local authorities	4	Renovating and painting local police stations, building a library for a local court, providing drinking water at the district administration
Sports	4	Sponsoring local sports teams, sponsoring football matches and tournaments, sponsoring sports news
Culture	2	Sponsoring art exhibitions, funding a music centre, giving awards to artists
Religion	1	Sponsoring a religious festival

how this rendered the policy environment favourable to the industry.

Simultaneously, the industry sought to publicly discredit opponents by questioning advocates' motives ('[they claim] we are you know recruited and financed by other vested interests' (P10)) and practices ('[they say] we are not professionals' (P16)).

The industry has been able to effectively portray the tobacco control community as people who are against farmers, against economic development and that they are in fact against the national interest. (P14)

The industry also built relationships with media professionals to facilitate the amplification of industry-friendly information. Participants noted that the industry would offer financial and in-kind incentives to media professionals, run training and study tours for local journalists.

One participant shared that

I used to work for these economic magazines, and we got the order from the editor was 'you don't change this', this came straight from the tobacco company's PR people and was directly printed as a regular article. (P15)

Interviewees pointed out that often newspaper articles that fitted this pattern did not mention industry links. The same lack of transparency applied to reports which skewed evidence to promote arguments against proposed policies. The industry was reported to pay think tanks, market research companies and professional service providers to produce such reports including 'jacked up numbers' (P9).

Participants reported that industry actors and front groups would amplify that information through the media and use it when accessing policy-makers. In at least

one instance, the government was reported as drawing uncritically on industry data. The industry also occasionally contested public health evidence, in one case even questioning the claim that smoking causes cancer—however, this was not a widely used strategy according to participants.

Coalition management

It was clear from the interviews that the industry made significant efforts to build a broad coalition to support its political activity. As in the PDM, this included forming coalitions between the major tobacco companies, collaborating with smaller companies (eg, bidi producers), working with umbrella industry organisations, as well as looking for allies in broader constituencies (eg, chambers of commerce, farmers' associations, retailers' associations, manufacturers' associations, printing business associations, law societies and think tanks). However, participants reported a lack of evidence on these relationships.

In tobacco farming countries, farmers' and tobacco growers' organisations were crucial supporters of the industry's cause. Interviewees recalled that while in some cases such organisations were long-standing, others appeared suddenly to coincide with a policy debate. Where formation of associations was prohibited, the industry would recruit individual farmers. Participants suspected the industry provided in-kind and financial benefits or put farmers under pressure.

We can put two and two together... I mean, there was a poor farmer and you're talking [about] the [luxurious hotel], a two day meeting, and he was booked. (P1)

A common concern was that farmers' associations did not include or represent tobacco farmers working small plots, but middlemen or 'big commercial farmers, who are real friends to industry' (P22).

Participants also reported significant efforts to undermine the public health constituency, including through intimidation against advocates. For example, 'they [tobacco industry] started working through other ministries, trying to cancel their [tobacco control organisations'] foreign funding and trying to make things difficult.' (P9). Or, in relation to prominent advocates, 'it was like people following you, an anonymous letter reaching your office, anonymous phone calls.' (P4).

Litigation

Legal action was another ubiquitous strategy used by the tobacco industry to prevent policies from being adopted or entering into force—especially when other strategies had failed. Participants from all countries reported that the industry took legal action, in some countries extensively ('Every single measure has been sued.' (P13)). Participants also recalled industry coalition members filing lawsuits.

Illicit trade

In almost all countries, interviewees suspected tobacco industry involvement in illicit tobacco trade, but reported challenges in obtaining evidence for it. One participant suggested a direct link between a period of surge in illicit trade and a concrete upcoming policy event:

It's very hard to claim. But the level of illicit products circulating 90 or 120 days before the adoption of the law was significant in [capital city]. Every street vendor had at least two illegal products. (P12)

Context-specific factors shaping corporate political activities

Despite considerable consistency across the countries included, this study uncovered some context-specific variation in industry strategies. We identified several factors which may shape these differences and can help explain differences between countries:

1. **Corruption and conflict of interest.** In countries with high levels of reported corruption, the industry's emphasis was on informal access strategies. In over half of the countries, participants reported that there were public bodies whose mandates conflict with tobacco control, and which could therefore provide easy routes for industry influence. Examples included a government owning tobacco industry shares, and ministries of agriculture and commerce establishing public bodies to promote tobacco growing and manufacturing. Several participants also shared examples of policy-makers with conflicts of interest (owning shares in a tobacco company, having a family business in the sector) and cases of industry staff taking up government positions.
2. **Economic structure.** In tobacco farming countries, the industry focused much political activity around farm-

ing—it claimed negative impacts on farming and farmers as a key argument, built coalitions with farmers and farmers' organisations and targeted farming communities with CSR efforts. Furthermore, in a country with a sizeable domestic tobacco industry, the industry repeatedly used the argument about tobacco control constituting a foreign agenda.

3. **Political institutions.** One advocate reported that the industry targeted key members of government but no members of parliament since the latter would all be from the governing party and following the government agenda. In another country, where parliamentarians were perceived as very active in initiating legislation, they were reported to be a key industry target.
4. **Social norms and beliefs.** Participants reported that where most people's religious beliefs prohibited smoking tobacco, the tobacco industry's strategies did not focus on building public pressure but on influencing policy stakeholders directly.
5. **Industry's recent experiences in the country/region.** Where the industry recently had a legal challenge overturned in a neighbouring country, it was less likely to use legal threats.

DISCUSSION

Key findings and links to the broader literature

Our findings from eight LMICs suggest that the tobacco industry uses a set of discursive and instrumental strategies that is largely consistent across LMICs and with the PDM and its taxonomies¹² (which mainly drew on evidence from HICs). However, we identified specific nuances suggesting that the detailed arguments and techniques within the overarching strategies vary somewhat not only depending on the country's income group but also other contextual factors—economic, political and social. This is consistent with the LMIC-focused tobacco control literature emphasising that the industry tailors its approach to specific contexts.^{35–39} With this caveat in mind, our findings suggest that the PDM provides an appropriate tool for studying and predicting tobacco industry political activities across countries of all incomes.

In the case of discursive strategies, there was remarkable consistency across the included LMICs and with the PDM's taxonomy (see online supplemental table 3). Notably, the overall approach was to claim the policy was unnecessary and undesirable by exaggerating its costs and dismissing its benefits. All but one strategy (benefits for undeserving groups) of the discursive strategies described in the PDM were detected in this study, with each mentioned by at least four participants. However, we identified a few new detailed LMIC-specific arguments within these broader strategies. For example, when suggesting that the policy would negatively impact on the country's economy, the industry would frequently claim a negative impact on development and, where relevant, on farmers and farming. Under the politics and governance domain, a new argument was that the policy was

not in the national interest. Perhaps most importantly, we identified one additional discursive strategy—the industry's claim to be a good and reputable actor that is unfairly punished by tobacco control policies. This was closely linked to a widely used instrumental strategy—reputation management. Finally, social justice arguments which are prominently used in HICs⁴⁰ were of minimal prevalence in our data, potentially because the industry did not expect them to gain traction.

In the case of instrumental strategies, there was again considerable consistency across the LMICs and with the PDM's taxonomy (see online supplemental table 4). All key instrumental strategies identified in the PDM were used, although two specific techniques (intelligence gathering and fronting) were mentioned by fewer than four participants. However, there was variation in the use of individual techniques across LMICs and with the PDM. This appeared to reflect the context in which the industry operated, notably levels of corruption and the progress towards tobacco industry denormalisation.

Four findings relating to specific techniques are particularly important. First, reputation management was key in the countries included in this study, while little emphasis was placed on producing misleading evidence—a dominant strategy in contemporary industry activity elsewhere.^{41–43} Our participants described reputation management as far wider-reaching than rehabilitating the industry's image, as emphasised in the original PDM and research on HICs.⁴⁴ We found that the tobacco industry's image was still largely positive in the included LMICs and that the industry spent much effort maintaining this reputation through CSR and public relations. While CSR covered a range of areas, a health focus was most frequent, which is consistent with evidence that the tobacco industry uses corporate philanthropy to distract from its harms.⁸ The participants also emphasised how successful such strategies were for the industry in times of crisis when resources and capacity are scarce. Given the tobacco industry's intensified CSR efforts during the COVID-19 pandemic this is an important warning to the public health community.⁴⁵

Second, direct access to policy-makers was identified as the dominant strategy while less direct approaches, including the use of front groups, were less prominent. This finding contrasts with the increasingly prevalent use of front groups in HICs, where opportunities for direct access appear more limited.^{46 47}

Third, the industry's close links to, use of, or even control over media content was another crucial activity accented more in this study than in the original PDM. The emphasis was on building long-term relationships with editors and journalists. Recent evidence from HICs suggests that there still remains a need to further tobacco industry denormalisation among journalists and editors.⁴⁸

Finally, one technique identified in this study that was not entirely captured by the PDM was the intimidation of advocates. Although forms of intimidation that are

included in a PDM technique (discrediting public health organisations and advocates) have been documented in the academic literature, mostly focusing on HICs,^{49–52} the examples found in this study were more informal and covert. This resonates with LMIC-focused newspaper articles on this topic.⁵³ Given the serious implications of such activities, more research is needed to further explore instances and types of such intimidation.

Strengths and limitations

As the first paper on tobacco industry political activities that draws on interview data from a range of LMICs, its key strength is that it includes voices from a diverse set of countries. These represent four WHO regions, three income groups (low, lower middle, upper middle) and three areas of tobacco control (comprehensive policies, health warnings, taxation). Our interview data offer unique insights into how advocates report and understand industry interference, including the language advocates use. Such knowledge and input from advocates will be essential to maximise user-friendliness and impact of any advocacy tool informed by the study's findings.

A methodological limitation is that we required our participants to speak English in order to avoid working with multiple interpreters.³² Another limitation is that most participants were not native speakers of English. We mitigated this by refining the interview guide following a pilot interview with a non-native speaker. Despite these limitations, there were no clear gaps compared with the PDM that are not anticipated given the context. Interviewees suspected, for example, informal links or involvement in illicit trade, yet they reported a lack concrete evidence. Similarly, evidence on intelligence gathering would have been hard for participants to identify. The absence of such evidence cannot be taken to indicate that the industry does not employ such techniques but simply that advocates do not have insights into some areas of corporate political activity. To this end, and given that the papers included in the PDM mainly draw on internal tobacco industry documents which do provide such insights, the consistency of our findings with the PDM and the more recent literature on tobacco industry political activities in LMICs^{25 26 30 54–58} is remarkable. For instance, existing literature^{37 59} presents evidence for industry involvement in illicit trade that was suspected by participants. This consistency also suggests that other potential limitations of qualitative research^{60 61}—the potentially limited generalisability of participants' experiences and participants' recall bias—do not apply and affirms the 'fittingness'⁶² of our findings.

Implications for research and practice

Given our ultimate aim of using the PDM to develop tools for advocacy and research, the next step is to test the slightly revised taxonomies (online supplemental tables 3 and 4) through in-depth case studies using diverse sources of data.⁶³ This will ensure that the evidential

standards on which the original PDM¹² was based on are maintained.

Our findings suggest that advocacy tools need to be flexible, 'living' resources, open to include new and context-specific industry strategies. This is not only in line with the literature on tobacco industry interference^{35–39} but also with research on the corporate political activities of other unhealthy commodities industries.^{64–66} Since the relevance of the PDM to alcohol, food, and gambling has already been identified,^{16–22 24} we see great potential for using the model to facilitate cross-industry comparisons.

Looking at practical implications, this research illustrates the informal and covert nature of tobacco industry political activities in LMICs and the frequent lack of transparency in how policy-makers engage with the industry. This underscores the importance of governments introducing mechanisms ensuring transparency in their contacts with the industry, of the continued work exposing tobacco industry misconduct,⁵⁵ and pushing for the denormalisation of the tobacco industry in LMICs to ensure that any form of engagement with the industry is deemed unacceptable.⁶⁷

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SUPPLEMENTARY FILE

Table 1: Original PDM – Discursive strategies (examples are drawn from the literature and interview data)

Discursive strategy	Domain	Argument	Examples
EXPANDED/CREATED			
Unexpected costs to the economy and society	The economy	The policy will lead to lost sales/jobs.	For example, "Restaurants will lose business if they implement smoke-free policies", "Individual retailers will lose customers if plain packaging or point-of-sale display bans are introduced", "Sellers will lose jobs."
		The policy will lead to lost /unreliable tax revenues.	For example, "The policy will negatively affect the budget", "(Potential) public revenues will be lost".
	Law enforcement	The policy will increase illicit trade.	For example, "The policy will increase tobacco smuggling."
		The policy will criminalise the public.	For example, "The policy will increase illicit purchases and tobacco theft", "The policy will criminalise small businesses."
	The law	The policy breaks intellectual property laws.	For examples, "The policy violates the intellectual property rights of the tobacco company "
		The policy breaches a trade agreement.	For example, "The policy is inconsistent with international trade agreements."
		A public body is acting beyond the jurisdiction.	For example, "The policy is unconstitutional", "The Minister does not have the competence to issue this regulation."
	Politics/Governance	The government is anti-free enterprise.	For example, "The policy will curtail innovation", "The policy restricts freedom of companies."
		Nanny state/slippery slope	For example, "What product next – plain packaging for soft drinks or alcohol?", "Will cigarettes soon be banned altogether?"
		The government is unreasonable/unaccountable.	For example, "Government is acting irrationally."
	Social Justice	The policy is unfair for smokers.	For example, "The tax burden is unfair on smokers", "The policy will lead to unfair dismissal of smokers for smoking at work."
The policy is regressive.		For example, "Policy will have a greater adverse effect on low-income populations."	
Unintended benefits for undeserving groups	Smugglers will profit from the policy.	For example, "Criminals will benefit from higher tobacco taxes, leading to increased illicit sales."	
	Big business will profit from the policy.	For example, "Taxes will result in undeserved extra income for already wealthy doctors, hospitals, and insurance companies" (US context)	
Unintended costs to public health	The policy will be counterproductive.	For example, "The policy will increase smoking", "Plain packaging and increased illicit trade will force companies to compete on price, pushing prices down."	
CONTAINED/DENIED			
Intended public health benefits	There is not enough evidence.		For example, "There is no evidence from our country that supports the policy."
	The policy will not work.		For example, "The policy will not work in LMICs", "The policy will not work as there is limited state capacity". "The policy cannot be enforced as there are no resources", "The policy is unimplementable in the country."
	The policy is not needed.		For example, "The tobacco industry fulfils corresponding requirements through voluntary codes", "We just need better compliance with existing law."
	The policy will lead to reduced sales/jobs		<i>The industry does not make this argument.</i>

Expected industry costs	Cost of compliance will be high.	<i>The industry does not make this argument.</i>
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Table 2: Original PDM – Instrumental strategies (examples are drawn from the literature and interview data)

Instrumental strategy	Technique	Examples/Description	
Coalition management	Constituency recruitment (Building a coalition with other tobacco companies or tobacco industry associations and other existing organisations)	The tobacco industry coalition can involve different tobacco companies, sometimes working through/with national, regional or international tobacco industry associations. The tobacco industry also seeks to recruit a broad range of other organisations as supporters. Examples include trade unions, trade associations (retail, tobacco growers), civil society organisation such as women's associations or individual business owners.	
	Constituency fabrication (Working through front groups, including pre-existing and newly created ones)	The industry uses front groups, which appear as organisations with an agenda but in fact, serve the interest of the industry. The industry tried to hide its sponsorship. By this, it seeks to remove its fingerprints from arguments. Front groups include astroturf which industry-sponsored campaigns set up to appear as grassroots movements.	
	Constituency fragmentation (Fragmenting and weakening the public health coalition)	The industry attempts to fragment the public health coalition. It might co-opt other organisations. The industry or its coalition members can also support other policies diverting and dissipating efforts and resources of the public health coalition.	
Information management	Production	Producing a skewed evidence base underpinning projected policy failure	The industry provides evidence support its arguments about the proposed policy by itself or facilitates the evidence production by hiring individual researchers, think tanks, market research companies or professional service providers. Third parties or front groups can also produce the evidence.
		Intelligence gathering	The industry collects intelligence, for example, surveys on public attitudes, information on policy makers, public health activists and (other) opinion leaders and monitors tobacco control activities and policies.
	Amplification	Wide dissemination of industry-sponsored information/evidence	The industry seeks to spread the information and evidence it sponsored widely. Industry actors can do it themselves or use third parties or front groups. They also employ multiple channels, including traditional media (newspapers, magazines, radio) and new media (social media)
		Disseminating misleading/confounding information	The industry seeks to confuse by sharing misleading or confounding information. Industry actors or front groups can share such information, often using multiple channels.
	Suppression	Contesting public health information/evidence	The industry challenges public health information/evidence, for example, by questioning the relevance and applicability of international information/evidence and methodologies and rigour of local studies.
		Suppressing dissemination of public health information/ evidence	The industry tries to prevent the spread of public health information/evidence. Industry actors might, for example, pay media editor and buy articles out of being published.
	Credibility	Fronting: Concealing industry links with information/evidence	The industry sponsors research, but these links are unmentioned in published reports or related articles. This category also includes cases where items from the industry are released as news articles or similar without mentioning the source.
	Reputation management	Rehabilitating industry reputation	The industry hires, for example, professional PR firms to rehabilitate their image or strengthen their reputation Image campaigns, which can be run with the help of a PR firm but also by the company's PR department, are a common technique.
Discrediting public health advocates		This industry seeks to tarnish the image of their opponents with public statements (written or oral) discrediting them, for example, questioning their motives and practice.	
Direct involvement and influence in policy	Access (to policy makers)	The industry seeks informal connections with policy makers which is less visible than the formal engagement. The aim is that the policy makers support or push for what is in the industry's interest. These include establishing (longer-term) networks, and the revolving door is a facilitating mechanism.	

	(Use of) incentives and pressures (to influence policy makers)	<p>The industry offers incentives in return for support. They often offer financial incentives, but can also provide in-kind benefits. They can target key policy makers, but also use it as a longer-term strategy, for example, when financing electoral campaigns or political parties.</p> <p>The industry puts policy makers under pressure. They can, for example, threaten the government to leave the country if the policy is adopted, or intimidate the members of Parliament, especially those in critical positions.</p>
	(Getting involved as an) actor in the legislative process	<p>Examples of the industry directly engaging in the legislative process include speaking on its behalf in public hearings in Parliament or submitting consultation responses (if these are part of the legislative process). The industry can also get involved indirectly when others are influencing the process on the industry's behalf. Others can be front groups or other coalition members but also a firm hired to lobby parliamentarians.</p>
	(Getting involved as an) actor in government decision-making	<p>Examples of the industry directly engaging in government decision-making include seeking involvement in government committees or working groups but also writing letters to decision-makers. This industry can also get involved indirectly when front groups or other coalition members influence the process on the industry's behalf.</p>
Litigation	Engaging in legal action to contest/obstruct legislation/regulation	<p>The basis for the legal claim that a (proposed) policy or its adoption process violates legal provisions (can be the Constitution, other national or international law, trade agreements, investor agreements, etc.). Industry actors and its coalition members may file lawsuits at different levels. The industry can engage simultaneously in lawsuits at different levels of the judiciary (local, national, international)-</p>
Illicit trade	Facilitating/conducting smuggling	<p>The industry engages in illicit tobacco trade to maximise its profits; the majority of illicit products comes from transnational tobacco companies. Historical examples show that the industry oversupplied products in the knowledge that many of these will end up on the illegal market.</p>

Table 3: Revised PDM – Discursive strategies and arguments reported by participants

Discursive strategy	Domain	Argument (reported by participants)
EXPANDED/CREATED		
Unanticipated costs to economy and society	The economy and development*	The policy will lead to lost sales/jobs.
		The policy will lead to lost/unreliable tax revenues.
		The policy will damage the country's economy/development.
		The policy will worsen the situation of farmers.
	Law enforcement/tobacco smuggling	The policy will increase illicit trade.
		<i>The policy will criminalise the public.</i>
	The law	<i>The policy breaks intellectual property laws.</i>
		The policy breaches trade agreement(s).
		A public body is acting beyond the jurisdiction.
	Politics and governance	<i>The government is anti-free enterprise.</i>
		<i>Nanny state/slippery slope.</i>
		<i>The government is unreasonable/unaccountable.</i>
Social Justice	The policy is not in the national interest.	
	<i>The policy is unfair for smokers.</i>	
Unintended benefits for undeserving groups	<i>The policy is regressive.</i>	
	<i>Smugglers will profit from the policy.</i>	
Unintended costs to public health	<i>Big business will profit from the policy.</i>	
	<i>The policy will be counterproductive.</i>	
Penalisation of a reputable/ legitimate industry	This policy penalises a reputable and legitimate industry that creates jobs, invests in the country, is a crucial taxpayer, helps farmers, etc.	
CONTAINED/DENIED		
Intended public health benefits	There is not (good) enough evidence. (LMIC-specific reason: The evidence comes from the Global North.)	
	The policy will not work. (LMIC-specific reasons: It might work in a developed but not in a developing country; low state capacity)	
	<i>The policy is not needed.</i>	
Expected tobacco industry costs (<i>not mentioned by the industry</i>)	The policy will lead to reduced sales.	
	The cost of compliance will be high.	

Table 3. New arguments in bold and rarely mentioned (<4 participants)/unmentioned arguments from the PDM in italics. *In the PDM, this domain was called *the economy*, we added development since this was key in the data.

Table 4: Revised PDM – Instrumental strategies and techniques reported by participants

Instrumental strategy		Technique (reported by participants)
Coalition management	Building an industry-supporting coalition*	Constituency recruitment (Building a coalition with other tobacco companies or tobacco industry associations and other existing organisations)
		Constituency fabrication (Working through front groups, including pre-existing and newly created ones)
	Managing public health coalition*	Constituency fragmentation (fragmenting/weakening public health coalition)
		Intimidation of public advocates and organisations
Information management	Production	Producing a skewed evidence base as corroboration for projected policy failure <i>Intelligence gathering</i>
	Amplification	Wide dissemination of industry—sponsored information/evidence
		Disseminating misleading/confounding information
	Contestation	Contesting/suppressing public health evidence
		Silencing public health opponents
	Credibility	<i>Fronting: Concealing industry links with information/evidence</i>
Managing longer-term media relations	Building/maintaining favourable relations with media professionals/outlets	
Direct involvement and influence in policy	Access to policy makers*	Gaining/maintaining access/links to/with policy makers in Parliament and government
	Use of incentives and pressures to influence policy makers*	Offering financial and other incentives to government, individual policy makers and political parties
		Exercising pressure on government and individual policy makers, including threatening them
	Actor in government-decision-making*	Getting involved as an actor in government decision-making
Actor in legislative process*	Getting involved as an actor in the legislative process	
Litigation		Engaging in legal action to contest/obstruct legislation/regulation
Illicit trade		Facilitating/conducting smuggling
Reputation and image management**	Building, maintaining and rehabilitating industry reputation/image*	Working with PR firms/running image campaigns
		CSR activities
	Discrediting public health organisations and advocates*	Supporting/ partnering with government in difficult times
		Publicly discrediting public health organisations and advocates*

Table 4. New techniques in bold and rarely mentioned (<4 participants)/unmentioned tactics from the PDM in italics. *We added sub-categories and some detail to clarify the content. These changes did not alter the PDM. **In the original PDM, is a sub-strategy of information management.