The impact of tobacco control research on policy: 20 years of progress

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ABSTRACT

Objectives To assess progress in tobacco control policy research and the relevance of research to policymaking.

Methods Over 100 experts were surveyed about their opinions on the body of research existing in 1992 and 2011 concerning 11 areas of tobacco control policy, the state of policy implementation in both years, the extent to which research has affected policy adoption and how experience with policy has influenced research. Case studies of how research and policy implementation have interacted were developed.

Results The body of research was not judged ‘substantial’ in any of the policy areas in 1992. In 2011, 6 of the 11 areas were evaluated as substantial. None ranked as substantial regarding policy implementation in 1992, but by 2011 half were so ranked for developed countries; in low-income and middle-income countries policy implementation moved from very low to moderate. Respondents judged the role of research in actual policymaking as ‘substantial’ regarding clean indoor air, taxation and cessation treatment policy. Case studies illustrate how research can directly affect policy (taxation), how policy and research can have iterative effects (clean indoor air), and how research and policy interact in the case of novel policies (graphic cigarette pack warnings). The role of research in the formulation of the Framework Convention on Tobacco Control is also examined.

Conclusions Policy research goals established in 1992 have been largely realised. For select tobacco control policies, research has made truly important contributions to saving lives. Evidence-based policy adoption will continue to be essential to minimising the toll of tobacco, especially in the world’s poorer countries.

INTRODUCTION

In the first issue of Tobacco Control in 1992, Dr Ronald Davis, the journal’s founding editor, identified ‘the tracking and evaluation of tobacco control policy and legislation’ as a journal priority. The journal’s first supplement, ‘Policy Research: Strategic Directions’ published that same year, described the state of the art in several areas of tobacco policy research and defined a research agenda for the coming decades. In the forward, John Pinney claimed that ‘there is a strong consensus within the tobacco control field that research that informs and supports policymakers and advocates can greatly enhance our efforts at preventing smoking and promoting cessation.’

With this anniversary issue of the journal, we consider how policy research has fared in the intervening two decades. Our objectives were (1) to assess progress in tobacco control policy research and the relevance of research to policymaking and (2) to examine how research and policy have interacted and influenced each other. We address the first objective by presenting findings from a survey of tobacco control experts regarding progress in research over the past two decades on a series of core policy areas. We also consider respondents’ assessments of progress in the adoption and implementation of these policies, the role of research in influencing policy adoption and how policy experience can influence research. We then consider the often-complicated relationships between research and policy in three policy domains. We conclude with discussion of the role of research in the Framework Convention on Tobacco Control (FCTC).

We define tobacco control policy research as research describing the nature, adoption, or consequences of tobacco control policies, commonly undertaken to inform or support policymakers and advocates, as Pinney observed. We exclude other forms of research that have had an enormous influence on tobacco control policy. The seminal epidemiological publications linking smoking to lung cancer ultimately motivated the first modern-era tobacco control policies. However, that research was undertaken to evaluate an exposure—risk connection, not to prompt policy development. Similarly, the original epidemiological research on the health effects of secondhand smoke (SHS) exposure played a critical role in the evolution of clean indoor air laws, but its goal was to determine if SHS exposure caused lung cancer. More recently, documents research on tobacco industry knowledge and behaviour has discredited the industry, thereby supporting policy development, though the analysis was not focused on policy per se. Similarly, tobacco litigation—and legal research related to it—has resulted in judgments and settlements that have achieved the status of policy. Epidemiology, non-policy tobacco document research and legal research illustrate the importance of forms of research not strictly defined here as policy research. Were we to include these as policy research per se, there would be no useful distinction between policy research and any other form of tobacco and health research.

SURVEY METHODS

Using Qualtrics survey software, we conducted an online survey to assess progress in tobacco policy research (a copy is available at https://sites.google.com/site/tcpolicyresearch/). We queried respondents about their opinions on: the quantity and quality of the research existing in 1992 concerning each of 11 areas of tobacco control policy; the quantity and quality of research on the same
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progress in policy research since 1992

Table 1 presents respondents’ rankings of the quantity and quality of the research pertaining to each of 11 policy areas in 1992 and at the time of the survey (April to May 2011). Our experts concluded that the bodies of research for nine of the policy areas were only ‘moderate’ in quantity and quality in 1992 (with an average score near 1.0, with the range being ‘non-existent or limited’, scored 0, to ‘substantial’, scored 2). The other two areas, illicit trade and tobacco product regulation, were regarded as having little to no significant research. The two strongest areas of research as of 1992 were public education and information, and school health education. In 2011, in contrast, six areas were evaluated as having a substantial body of research (in descending order from the highest score: clean indoor air laws and policies; taxation; warning labels; advertising and promotion bans; cessation treatment policy; and public education and information). The remaining five areas were considered to have a moderate body of research evidence. The areas evaluated as having the greatest growth in quality and quantity of research (defined as the difference in the 2 years’ average scores) were warning labels, which increased by nearly a full point (0.95), and clean indoor air laws and policies, up 0.82 points.

Progress in policy adoption since 1992

We asked respondents about the extent of policy adoption’ in the 11 policy areas in developed countries (DCs) and low-income and middle-income countries (LMICs) in 1992 and in 2011. The word ‘extent’ allowed respondents to consider how effectively policies were employed to achieve tobacco control. Thus, for example, respondents were certainly aware that virtually all DCs taxed cigarettes and required warning labels on packs by 1992. Yet they ranked the extent of policy adoption as less than ‘moderate’ for each (see table 2), likely reflecting the then weakness of text-only package warnings and the modest size of cigarette taxes.

For DCs, only live policies approached or achieved a ranking of ‘moderate’ in 1992. In descending order from the most extensively adopted, they are: school health education, public education and information, youth access laws, taxation and warning labels. None of the 11 policy areas came close to being ranked ‘substantial’. By 2011, however, respondents ranked policy adoption ‘substantial’ for half of the policy areas, with 82% ranking clean indoor air policy as ‘substantial’, 66% for warning labels and 60% for advertising and promotion restrictions and taxation. None of the policy areas was ranked as ‘non-existent or limited’ by 2011.

For LMICs, in neither year did respondents evaluate policy adoption as ‘substantial’ for any policy area. In 1992, respondents believed that tobacco control policy was extremely limited—perhaps virtually non-existent—in the world’s poorer countries. Only public education and school health education, and to a lesser extent taxation, scored discernibly above 0. By 2011, however, seven policies had risen to ‘moderate’, led by...
warning labels, advertising restrictions, clean indoor air laws and public education.

Role of research in policy adoption and vice versa
Respondents were asked 'To what extent has research played a direct role in leading to policy adoption' in each of the policy areas. Table 3 presents their assessments. In general they believe that research has had a significant impact on tobacco control policy adoption. They rank research as having had a 'substantial' impact on clean indoor air policy, taxation and cessation treatment policy, and a 'modest' effect on all of the other policy areas.

We also queried respondents as to what extent experience with policy has affected research on these subjects, and it has had a ‘modest’ impact (generally leaning towards ‘substantial’) in the remaining eight areas.

Conclusions regarding survey findings
The survey has clear limitations. First, respondents are not representative of the tobacco control community as a whole, nor necessarily even the community of tobacco policy researchers. Still, they constitute a highly knowledgeable and logical group to address questions about progress in tobacco control policy research. Second, survey findings may well reflect recall bias. Clearly it is easier to describe the state of research today than to recall it 20 years ago. We cannot ascertain whether this potential recall bias affects our findings, much less in which direction. A useful complement to the survey would be a detailed bibliographic analysis tracking the evolution of tobacco policy research over the 20-year period. Such a study would have the distinct advantage of accuracy with regard to the ‘size’ of the literature (ie, number of contributions). However, it would not necessarily be superior in evaluating quality.

Table 2 Survey respondents’ evaluation of the extent of policy adoption in each of 11 policy areas in developed countries (DCs) and low-income and middle-income countries (LMICs) in the years 1992 and 2011*

<table>
<thead>
<tr>
<th>Category Type of country</th>
<th>1992</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC (95% CI)</td>
<td>LMIC (95% CI)</td>
<td>DC (95% CI)</td>
</tr>
<tr>
<td>Advertising/promotion bans</td>
<td>0.63 (0.52 to 0.75)</td>
<td>0.08 (0.03 to 0.13)</td>
</tr>
<tr>
<td>Clean indoor air laws/policies</td>
<td>0.63 (0.50 to 0.75)</td>
<td>0.03 (0.00 to 0.07)</td>
</tr>
<tr>
<td>Illicit trade</td>
<td>0.16 (0.08 to 0.25)</td>
<td>0.04 (0.00 to 0.07)</td>
</tr>
<tr>
<td>Media counteradvertising</td>
<td>0.57 (0.46 to 0.69)</td>
<td>0.04 (0.01 to 0.08)</td>
</tr>
<tr>
<td>Public education/information</td>
<td>1.04 (0.94 to 1.14)</td>
<td>0.34 (0.25 to 0.44)</td>
</tr>
<tr>
<td>School health education</td>
<td>1.08 (0.98 to 1.20)</td>
<td>0.33 (0.24 to 0.42)</td>
</tr>
<tr>
<td>Taxation/price</td>
<td>0.86 (0.75 to 0.97)</td>
<td>0.27 (0.18 to 0.36)</td>
</tr>
<tr>
<td>Tobacco product regulation</td>
<td>0.29 (0.20 to 0.39)</td>
<td>0.02 (0.01 to 0.05)</td>
</tr>
<tr>
<td>Cessation treatment policy</td>
<td>0.46 (0.36 to 0.60)</td>
<td>0.07 (0.02 to 0.12)</td>
</tr>
<tr>
<td>Warning labels</td>
<td>0.75 (0.63 to 0.87)</td>
<td>0.17 (0.10 to 0.24)</td>
</tr>
<tr>
<td>Youth access laws</td>
<td>0.96 (0.84 to 1.08)</td>
<td>0.14 (0.07 to 0.20)</td>
</tr>
</tbody>
</table>

*Numbers shown are mean scores where a response of ‘non-existent or limited’ is scored 0, ‘moderate’ is scored 1, and ‘substantial’ is scored 2. (For a breakdown of the rankings, as presented in table 2, go to https://sites.google.com/site/tcpolicyresearch/.)

The complex relationships between research and policy
In the preface to the 1992 ‘Policy Research’ supplement, Drs Simon Chapman and Michele Bloch observed, ‘Political decisions to introduce tobacco control laws, regulations, policies and programmes often, although not always, reflect research findings. Publicity arising from research can inspire politically influential media and community debate about tobacco control policies as well as feed directly into particular decision-making forums.’

This statement begins to illustrate the complexity of the research–policy relationship. Research can influence policy
directly, supporting or even inspiring its development and adoption. It can be used by advocates, bureaucrats and legislators when it suits their pre-existing objectives, and ignored when it does not. As well, research can be misused or distorted by industry to promote or defeat a policy measure. Finally, the direction of causality can be the opposite: experience with policy can influence the nature and directions of subsequent research. Below we illustrate research–policy relationships in the three policy domains ranked highest in quantity and quality of research in 2011 by our survey respondents: taxation, clean indoor air policies and warning labels. We also consider the role of research in the formulation of the FCTC.

Research directly influencing policy adoption: the case of taxation

In 1981 and 1982, two seminal economic studies demonstrated that price affected cigarette consumption by children and adults. Technical analyses, this research was not accessible to the media, legislators, or the public health community. The Harvard Institute for the Study of Smoking Behaviour and Policy sought to remedy this with a 1-day conference on the effects of tobacco taxation. An analysis translating the findings from these studies was commissioned for the conference. The exercise was timely. Congress had doubled the federal cigarette excise tax from 8 cents per pack to 16 cents as an urgent revenue exercise was timely. Congress had doubled the federal cigarette excise tax from 8 cents per pack to 16 cents as an urgent revenue package, the legislation called for a return of the tax to its original rate of 8 cents on 1 October 1985. The paper demonstrated that up to 1 million young people would smoke who otherwise would not do so (ie, if the tax remained at 16 cents), with the smoking-produced death toll rising by hundreds of thousands. Distribution of the Harvard conference proceedings to members of the US Congress and presentation of the findings at a Senate hearing purportedly contributed to a return of the tax to its original rate of 8 cents on 1 October 1985. The paper demonstrated that up to 1 million young people would smoke who otherwise would not do so (ie, if the tax remained at 16 cents), with the smoking-produced death toll rising by hundreds of thousands. Distribution of the Harvard conference proceedings to members of the US Congress and presentation of the findings at a Senate hearing purportedly contributed to Congress’s decision to reverse its decision to halve the tax.

This highly visible translation of research and subsequent work contributed to the eventual widespread acceptance of the importance of taxation for tobacco control. Economists and activists collaborated on similar analyses to estimate how proposed tax increases in numerous countries would affect smoking, health and revenues. Analysts developed models that would allow activists to plug in their local data to estimate smoking and revenue consequences. The conclusions from a now-extensive body of research were enshrined in the World Bank’s 1999 report, Curbing the Epidemic: Governments and the Economics of Tobacco Control, which became a principal source of authoritative evidence during the negotiations on the FCTC. Scorned by the public health community three decades ago, taxation has become a first principle of tobacco control internationally. It remains the single best example of translation of research into effective tobacco control practice.

A cyclical pattern of policy and research interaction: the case of clean indoor air policies

The relationship between research and policy is often quite complicated, frequently reversing direction several times. Clean indoor air (CIA) policy constitutes a case in point. Significant scientific evidence on serious risks associated with SHS postdated the adoption of early CIA laws. In the USA, Arizona adopted the first statewide CIA law in 1973, with many states following suit over the next decade. By today’s standards (completely smoke-free workplaces), most of these early policies were ‘primitive’, merely requiring non-smoking sections in restaurants and other facilities. But they inaugurated what has become the hallmark of effective tobacco control: smoke-free indoor environments and the protection of non-smokers’ rights and health.

The first major research publication on the mortality implications of SHS did not emerge until Hiriyama’s landmark 1981 study of lung cancer in the non-smoking wives of smoking husbands in Japan. A voluminous body of research followed, establishing the lung cancer and heart disease mortality risks associated with SHS, as well as other risks (asthma, ear infections in children, and so on). As this literature evolved, the argument favouring limiting, or banning, tobacco smoke in indoor environments strengthened; the basis for the laws changed from who should have the right to indoor air—smokers or non-smokers—and from hypothesised health risks to demonstrated risks. Throughout the world, laws were increasingly enacted to provide stronger protection against SHS.

With the introduction of completely smoke-free workplaces (including restaurants and bars) in the 1990s, hospitality industry proprietors and their organisations agreed, often supported by industry-funded studies, that making their establishments go smoke free would cause their revenues to plummet. A brand new research literature emerged in response, evaluating the financial consequences of mandatory smoke-free policies to hospitality establishments. Initiated in 1994 and employing appropriate controls, studies demonstrated that restaurants in smoke-free communities did not lose revenue. A smaller literature on bar revenues found the same.

### Table 4

<table>
<thead>
<tr>
<th>Policy</th>
<th>Extent to which policy experience has influenced subsequent research</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advertising/promotion bans</td>
<td>Little or no effect (0) 51</td>
</tr>
<tr>
<td>Clean indoor air laws/policies</td>
<td>Little or no effect (0) 3</td>
</tr>
<tr>
<td>Illicit trade</td>
<td>Little or no effect (0) 20</td>
</tr>
<tr>
<td>Media counteradvertising</td>
<td>Little or no effect (0) 12</td>
</tr>
<tr>
<td>Public education/information</td>
<td>Little or no effect (0) 14</td>
</tr>
<tr>
<td>School health education</td>
<td>Little or no effect (0) 19</td>
</tr>
<tr>
<td>Taxation/price</td>
<td>Little or no effect (0) 0</td>
</tr>
<tr>
<td>Tobacco product regulation</td>
<td>Little or no effect (0) 15</td>
</tr>
<tr>
<td>Cessation treatment policy</td>
<td>Little or no effect (0) 17</td>
</tr>
<tr>
<td>Warning labels</td>
<td>Little or no effect (0) 3</td>
</tr>
<tr>
<td>Youth access laws</td>
<td>Little or no effect (0) 15</td>
</tr>
</tbody>
</table>

**Policy**

- Advertising/promotion bans
- Clean indoor air laws/policies
- Illicit trade
- Media counteradvertising
- Public education/information
- School health education
- Taxation/price
- Tobacco product regulation
- Cessation treatment policy
- Warning labels
- Youth access laws

**Extent to which policy experience has influenced subsequent research**

- Little or no effect (0)
- Modest effect (1)
- Substantial effect (2)
- Not sure

**Mean (95% CI)**

- 1.40 (1.29 to 1.51)
- 1.66 (1.56 to 1.77)
- 0.92 (0.78 to 1.05)
- 1.27 (1.14 to 1.40)
- 1.11 (0.98 to 1.23)
- 0.97 (0.84 to 1.10)
- 1.62 (1.52 to 1.71)
- 1.29 (1.15 to 1.43)
- 1.22 (1.08 to 1.37)
- 1.58 (1.48 to 1.69)
- 1.17 (1.04 to 1.31)
to tobacco smoke chemicals for workers in smoke-free environments.29 Approximately 30 countries are smoke free as of 1 July 2011.30

The most recent body of research on smoke-free laws relates to their impact on hospitalisations for heart disease. Beginning in 2004,31 multiple studies from around the world have demonstrated that hospitalisations for acute myocardial infarctions have fallen significantly following the adoption of smoke-free workplace policies,32 although there are contrarian views of the evidence.53 If this effect is real, it is hard to imagine a policy that could so easily and quickly have an important public health impact. In the cycle of research and policy, these studies seem likely to be highly influential in states’ and nations’ future smoke-free policy debates.

New evidence and policy action in a contemporaneous context: the case of large, graphic cigarette pack warning labels

No area of tobacco control policy is currently experiencing more interest and activity than health-based requirements regarding cigarette packaging. Over the past decade, over 50 countries have adopted large, graphic pack warning labelling policies.34 A. Australia has announced that it will require plain packaging.35

Our survey respondents rated the quantity and quality of research on warning labels as higher than all other policy areas except for CIA laws and taxation. A recent review identified 94 studies with original findings relevant to health warning labels, 69 published after Canada became the first country to implement graphic warning labels in 2001.36 Some of the earliest research on graphic warning labels may have promoted adoption of the policy in other countries. Policy practice has clearly influenced the nature of research as well. Much of the early research on health warning labels pertained to text-only labels. Research has evolved to more directly examine the impacts of graphic labels.

There are multiple policy objectives for warning labels, including increasing smokers’ and non-smokers’ knowledge of smoking’s health risks, increasing intentions to quit and reducing smoking initiation among youth. The evidence indicates that the new labels do communicate risks more effectively, increasing smokers’ intentions to quit and decreasing the appeal of smoking among young people.34 Graphic warning labels may be especially important in communicating health risks to vulnerable and illiterate populations, as in many developing countries.

Ultimately, the value of graphic warning labels lies in their potential to decrease actual consumption through quitting and non-initiation. To date, there is little relevant empirical evidence. The increasing number of countries implementing such labelling provides ample opportunity for further research, however. The large, graphic warnings thus illustrate how early generation research can inform policymakers about consumers’ self-reported reactions to new (or proposed) policy. However, determination of the ultimate impact on smoking per se must await the accumulation of evidence across multiple countries and its interpretation through sophisticated empirical research.

Research and the FCTC

The FCTC is quite fairly labelled an evidence-based treaty. The treaty’s raison d’être, to improve the health of the world’s population, derived from the voluminous research on the health consequences of smoking and of exposure to SHS. Most of the Articles in the FCTC36 derive from sound application of a well developed policy research evidence base. Provisions relating to taxation and price, smoke-free environments, advertising bans, cessation treatment and others directly reflect research findings. Delegates at the negotiating sessions referred frequently to the World Bank’s Curbing the Epidemic report23 in support of several of the treaty’s central provisions. (KW observed this personally, serving as the World Bank’s representative at four of the six negotiating sessions.)

The same cannot be said of all FCTC provisions, however. At least two do not follow logically from the research evidence. Article 16, prohibiting sales to minors, was a popular and, to many delegates, essential treaty component, the ‘right thing to do’ despite research that questions its worth, noted during the negotiations. In particular, research demonstrates that unless sales-to-minors policies are energetically enforced, the laws have little effect on smoking by minors.37

Implementation of a sales-to-minors prohibition could have a serious implication beyond its ineffectiveness: Unless vigorous enforcement generates substantial fines paid by law violators, enforcement efforts can absorb tobacco control resources, especially scarce in LMICs. Those resources would be more efficiently devoted to evidence-based interventions found elsewhere in the treaty. As such, implementation of this policy risks limiting the effectiveness of a country’s overall tobacco control efforts.

A second measure inconsistent with the research evidence was Article 17: Provision of support for economically viable alternative activities. The principal ‘alternative activity’ envisioned is governmental support to encourage farmers to grow crops other than tobacco. Curbing the Epidemic finds this and other supply-side measures wanting: there is little evidence that they deter either tobacco growing or tobacco consumption. When supply is artificially curtailed in one location (ie, through other than normal market forces), it emerges in another.

This approach has considerable political appeal. It allows countries’ leaders to publicly express concern for public health and for their farmers’ welfare: in theory, the approach would mitigate any damage that might accrue to farmers’ livelihoods as tobacco use declined. The approach can also serve as a mechanism to buy off farmer organisations’ opposition to the FCTC and to national tobacco control legislation—a significant factor in the FCTC negotiations.

The approach ignores the fact that even great success with tobacco control will reduce global demand for tobacco only very gradually, thereby having little short-term effect on the demand for farmers’ tobacco. In many LMICs, tobacco use is increasing, with successful tobacco control frequently meaning that the rate of growth will be curtailed (Mendez D et al, unpublished data, 2012). Because the demand for tobacco will increase or at best remain stable in such countries for the foreseeable future, farmers’ livelihoods are not in jeopardy and subsidising them to switch to alternative crops will not reduce aggregate tobacco supply nor tobacco product demand. Further, as with sales-to-minors laws, resources devoted to crop substitution will compete with other, more effective uses of scarce tobacco control interventions, and resources required for subsidisation of crop substitution could be substantial.

Not all delegations to the FCTC supported inclusion of Article 17. Some worried about the cost implications, while others appealed to the absence of supportive evidence. Negotiators’ lack of enthusiasm is illustrated by the ambivalence of the wording in the article and the fact that Article 17 is the shortest of all of the substantive articles in the treaty. Ultimately, however, the political rationale led to the Article’s inclusion. Thus, while research can play a role in policy debates, political considerations will often trump best evidence.
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The real import of the treaty, however, will be felt by countries’ implementation of the specific protocols being developed by the Conference of the Parties (COP), nations that have ratified the convention. The COP meetings have yielded quite specific protocols regarding several of the evidence-based articles, including those pertaining to exposure to tobacco smoke, packaging and labelling, and tobacco advertising and promotion. These constitute binding obligations for the 174 member nations. The Article 17 working group has not yet issued any COP recommendation that Parties support farmers in growing alternative crops. This, combined with the article’s weak wording, suggests that, at least for the near-term future, the COP will not impose any specific obligations to support this ineffectual supply-side policy. It’s plausibly, therefore, that the political considerations that led to the article’s inclusion may not translate into specific costly policy obligations.

Article 16, on sales to minors, is far more explicit in its apparent eventual imposition of obligations on the Parties. However, the COP has not yet acted on this Article, possibly reflecting its limited potential to significantly deter young people from starting to smoke. Further, provision 16.4 in the Article provides that ‘The Parties recognise that in order to increase their effectiveness, measures to prevent tobacco product sales to minors should, where appropriate, be implemented in conjunction with other provisions contained in this Convention’. Nowhere else in the FCTC is an equivalent provision found. This may indicate recognition of the limited potential of sales-to-minors laws by themselves. (We are grateful to a reviewer of the original submission to the journal for the insightful observations reflected in this and the preceding paragraph.) However, the Article does imply that eventually member nations will be expected to incur financial obligations to implement a policy not supported by the evidence.

CONCLUSIONS

According to our survey, the goals established by the authors of the 1992 Tobacco Control ‘Policy Research’ supplement have largely been achieved, if not completely. Survey respondents concur that the quantity and quality of policy research have grown substantially over the past two decades. A brief literature review will confirm the former (the number of new research contributions has grown rapidly since the early 1990s), and a more careful scrutiny of the papers’ contents will support the latter—the conceptual, methodological and empirical sophistication of recent research greatly exceeds that of the earlier period.

Respondents concur, as well, that research has made substantial contributions to policy development, adoption and implementation regarding clean indoor air, taxation and cessation treatment, with modest but real contributions in all of the other policy domains. The major policies have been adopted widely throughout the developed world. Although policy adoption is at an earlier stage in LMICs, the growth in policy in these countries since the early 1990s has been impressive and encouraging. Our respondents recognised reverse causality as well, agreeing that experience with policy in developed countries and LMICs has influenced the nature and volume of research pertaining to each policy area.

Three examples of the relationships between research and policy—taxation, clean indoor air and warning labels—vividly demonstrate the strength of the contribution that research has to offer to the development, adoption and evolution of tobacco control policy. As discussion regarding the FCTC demonstrates, however, research is but one of several important influences on tobacco control policy adoption. No policy observer would ever expect evidence to fully determine policy; the influence of economic and political interests necessarily and invariably plays an important role.

The cynical observer might conclude that economic and political interests constitute the only consequential influences. Our review suggests otherwise. We hearken back to John Pinney’s assertion in the 1992 ‘Policy Research’ supplement: ‘[T]here is a strong consensus within the tobacco control field that research that informs and supports policymakers and advocates can greatly enhance our efforts at preventing smoking and promoting cessation’. In developed countries, the tide has turned against tobacco. With the FCTC in force, the prospects for LMICs seem far brighter than at any time in the past two decades. Tobacco control policy research has made genuinely important contributions to public health. We anticipate more over the coming decades.

Competing interests None.

Provenance and peer review Commissioned; externally peer reviewed.

REFERENCES


What this paper adds

► While there is broad consensus within the tobacco control community that research has an important role in policymaking, the relationship between tobacco control policy research and policy practice across a range of tobacco control policies has not previously been examined systematically.

► Surveyed experts consider tobacco control research to have had the most substantial impact on policy with regard to clean indoor air, tobacco taxation and cessation treatment. They also report major growth in the quantity and quality of policy research and adoption since Tobacco Control’s inception in 1992.

► Case studies of select policy domains demonstrate the dynamic relationships that exist between tobacco control research and policy.