A Research Agenda to Inform a “Sinking Lid” to End Tobacco Sales in New Zealand

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Background
In New Zealand (NZ) many tobacco control organisations,1 researchers2 and some Māori political leaders,3 have promoted the goal of ending tobacco sales or making the nation tobacco-free. A recent Select Committee Inquiry in NZ on tobacco issues, was presented with arguments for such a phase-out over various time periods.

One policy to ensure such a phase-out would involve setting an annual absolute reduction in the supply of smoked tobacco products reducing to nil over a 10 year period (Figure 1), effectively ending the commercial sale of tobacco. This could involve the periodic auctioning by government of a diminishing supply of tobacco product quotas to manufacturers/importers, while allowing quota trading. Here we aim to provide an initial set of research topics around this “sinking lid” policy.

Top five research priorities

1) Identifying NZ-specific historical lessons: NZ has achieved successful endgames in terms of leaded petrol (Figure 2), asbestos imports, and second-hand smoke inside public places.5 Some diseases have also been eliminated (eg, polio,6 hydatids and brucellosis).7 Further study of the lessons from these endgames is very likely to be informative.

2) Identifying international lessons: To inform a “sinking lid” policy, research should cover the sulphur dioxide cap and trade system in the USA and the evidence for its effectiveness8 (Figure 3). Similarly, for the largest multi-country, multi-sector greenhouse gas emission trading system in the world (ie, for Europe9). In the resource management area, research could examine the issues around the management of fisheries via quotas.10

Figure 1: Model for a “sinking lid” on tobacco sales as an endgame policy. (The blue line shows a simple 10% per annum decline in supply. The thinnest pink line shows what might happen to price if a range of adjunct measures are also put in place to reduce demand for retail tobacco eg, intensive mass media campaigns.)

Figure 2: A previous end-game success: lead levels in NZ petrol from time of first public concern in 1974 to January 1996 (sales banned in September 1996)

Figure 3: Reductions in sulphur dioxide (SO2) as an air pollutant associated with annual “allowances trading” in the USA (programme implemented in 1995

3) Identifying factors relating to support: a “sinking lid” endgame policy would require long-term political and public support, research could examine: (i) policy-makers’ views (including key drivers or barriers for support); (ii) any changes in public support using both quantitative and in-depth qualitative methods; (iii) the nature and extent of media reporting; and (iv) the optimal design of mass media campaigns (ie, that both inform the public and build/support political will).

4) Identifying policies to minimise black-market risks: We have started to consider these issues elsewhere,11 but further research to clarify the need for law changes (reducing the limits on personal tobacco growing), and implications for Police and Customs activity is desirable.

5) The role of supplementary measures: How worthwhile and cost-effective are various supplementary interventions such as additional mass media campaigns, retail supply restrictions, provision of less harmful forms of nicotine, banning tobacco additives, and reducing nicotine levels in tobacco (which has already been modelled in the NZ setting12 and is considered further in companion work13)? Furthermore, what is the best mix of such supplementary measures?

Conclusions

Enough is already known to implement the early stages of a “sinking lid” endgame policy in NZ, but a research agenda is highly desirable for refining and improving it as the policy unfolds. The ideas presented here may also be relevant to those other nations which are best placed for developing tobacco phase-out plans: those that have minimal smuggling problems, good border controls, and low levels of corruption.

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References