

Who is the target? Package health warnings and the role of market segmentation

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Guidelines for implementation of Article 11 of the WHO Framework Convention on Tobacco Control recognise that 'it is important to assess the impact of packaging and labelling measures on the target populations,' yet how *target* populations may be identified is largely unspecified.¹ We have previously characterised that early tobacco control efforts are often implemented in a given jurisdiction with a mass market approach, where the total population is treated in its entirety and largely undivided, but market segmentation should be adopted over time.² Indeed, marketing strategists normally recognise the human diversity of consumers they are attempting to influence and a segmentation strategy involves the identification of well-defined consumer subgroups who share certain common characteristics to facilitate marketing communication that is more efficient, customised and personally relevant. When people find a message personally relevant, they are more likely to pay attention and process the message more thoroughly.³

The target market heavily affects communication decisions regarding *where* it will be said, *what* will be said, *how* it will be said, *when* it will be said and *who* will say it.⁴ Concerning *where* it will be said, decisions must be made about the medium of communication (eg, magazines) or the message channel of the traditional communication process.⁵ The cigarette package may also be regarded as a medium of communication for tobacco control efforts, with the cigarette brand serving to inform which health warnings and messages are most relevant based on the target consumer. A health warning that is more directly aimed towards women is more suitably placed on a Virginia Slims package in the USA.^{6,7} For health

warnings that aim to resonate with a younger age demographic, heavier placement is advisable on the cigarette packaging of Marlboro, Camel and Newport, which are brands particularly popular among younger smokers.^{8,9} Moreover, recent academic research suggests the message content that would be suitably placed on such brand packages: health warnings demonstrating the social risks of smoking or the harms of smoking on others, including children and animals, prompt comparatively stronger negative emotions among younger smokers than warnings placing emphasis on the long-term harms of smoking.^{10,11} The revelations of marketing planning documents from the tobacco industry, made public from litigation, can also be used to inform tobacco control efforts including the packaging and labelling of tobacco products.¹²

Market segmentation involves identifying target consumers for a product by dividing a mass market into subsets on the basis of demographics, geography, behavioural components or psychographics.¹³ Demographic segmentation accounts for dimensions such as age, gender, stage of the family life-cycle, education, socioeconomic status and occupation. Using gender and stage of the family life-cycle as an example, eight inserts are used in Canadian cigarette packages by Health Canada that aim to encourage cessation; one of the inserts poses the question, 'Thinking of having a baby?' and shows a pregnant woman and refers to 'your pregnancy,' which personalises the message but also places the spotlight on women contemplating having a child (and largely excludes men, partners or families from responsibility). Such an insert promoting cessation can generate attention, enhance message engagement and be influential, but seemingly is limited in its reach based on the proportion of smokers that would deem the message personally relevant.¹⁴

Geographic segmentation accounts for dimensions such as market density and regional differences of a domestic market. In Canada, the Mark Ten cigarette brand demonstrates strong sales on a regional basis, primarily in the province of Quebec. Consequently, health warnings placed on

the packages of Mark Ten might provide a testimonial or health effects information with particular regional or provincial relevance.

Behavioural segmentation involves dividing consumers into groups according to user status, usage situation, extent of use and product benefits sought. Social smokers, for example, often do not identify themselves as smokers and they may consequently be less motivated to engage in adaptive behaviour that minimises their health risks.¹⁵ Health warnings could be designed to enhance awareness that there is no safe level of cigarette consumption and that occasional smokers are not immune from the harms of smoking. Obviously, message content can be tailored accordingly to appeal to social smokers as opposed to those classified as experimenters or heavy users of tobacco products.

Psychographics is another commonly used segmentation approach in which the personality, activities, interests and opinions of the target market are considered. One strategic consideration for making messages relevant to target consumers is whether to create messages that are predominately visual or verbal according to the demonstrated preferences of the target market.^{16,17} Some people process information more cognitively and they tend to prefer verbal messages, whereas others tend to rely on how they feel when they process information and they are inclined to prefer visual messages.^{16,18} Moreover, consumers are different about how they process information regardless of the modality of information (ie, visual vs verbal information). Research, for example, has differentiated between visualisers, who are predisposed to process information with visual images, and verbalisers, who are predisposed to process information semantically without creating images.¹⁹

In this issue, articles by Lochbuehler and colleagues as well as Popova and colleagues address important aspects of text and visual health warning labels in the context of the US Food and Drug Administration's nine proposed pictorial health warning labels (PWL), which were meant to replace text-only warnings on tobacco products. Legal rulings prevented the installation of PWLs, however, in part due to the visual not being regarded as factual or informative.^{20,21} Lochbuehler *et al* found that the visual in the health warnings captured and held smokers' attention better than the text component. Additionally, smokers demonstrate better recall when visual and textual information

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is congruent rather than incongruent. They suggest that the text should be complemented with congruent visuals in health warnings. Meanwhile, Popova *et al* argue that the dichotomy of 'factual text and emotional pictures' is overly simplified. Their study reveals that there are no significant differences in perceived information between textual and pictorial warning labels: pictorial health warnings can be informative and factual, whereas text-based health warnings can evoke emotions. Given the aforementioned psychographic considerations, an implication from both articles is that text-only health warning messages, as currently observed in the USA, are not likely to be personally relevant to visualisers.

By identifying and understanding the idiosyncrasies, attitudes and interests of identified targets, marketing initiatives are far more likely to elicit favourable consumer responses, in contrast to a single undifferentiated effort towards the mass market. While the extant literature concerning health warnings on tobacco packaging is considerable, future research could further account for the role of market segmentation to evaluate which themes and message content appear most effective. One direction for future research is to examine the advised number of health warnings that should be rotated on tobacco packaging. Canadian regulations, for example, require the rotation of 16 warnings, which has facilitated the targeting of subgroups.²² Nevertheless, the inclusion of themes such as the financial costs of smoking would allow for the further targeting of subgroups, with the health warning being strategically aligned with brands and their pricing strategy.²³ Market segmentation principles also suggest rethinking the random rotation of health warnings. More research is needed that further builds upon the valuable contributions by Lochbuehler, Popova and their colleagues.

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REFERENCES

- World Health Organization. Guidelines for implementation of Article 11 of the WHO Framework Convention on Tobacco Control: packaging and labelling of tobacco products. In: *WHO Framework Convention on Tobacco Control: guidelines for implementation Article 5.3; Article 8; Article 11; Article 13*. Geneva: WHO Press, 2009:46.
- Dewhirst T, Lee WB. Social marketing and tobacco control. In: Hastings G, Angus K, Bryant C, eds. *The SAGE Handbook of Social Marketing*. London: Sage Publications, 2011:391–404.
- Petty RE, Cacioppo JT. The elaboration likelihood model of persuasion. *Advances in Experimental Social Psychology* 1986;19:123–205.
- Shapiro SJ, Wong K, Perreault WD, *et al*. *Basic marketing: a global-managerial approach*. (10th Canadian edn). Toronto, ON: McGraw-Hill Ryerson Limited, 2002.
- Anderson SJ, Dewhirst T, Ling PM. Every document and picture tells a story: using internal corporate document reviews, semiotics, and content analysis to assess tobacco advertising. *Tob Control* 2006;15:254–61.
- Toll BA, Ling PM. The Virginia Slims identity crisis: an inside look at tobacco industry marketing to women. *Tob Control* 2005;14:172–80.
- Dewhirst T, Lee WB, Fong GT, *et al*. Exporting an Inherently Harmful Product: The Marketing of Virginia Slims Cigarettes in the United States, Japan, and Korea. *J Bus Ethics* 2016;139:161–81.
- Pollay RW, Siddarth S, Siegel M, *et al*. The Last Straw? Cigarette Advertising and Realized Market Shares among Youths and Adults, 1979–1993. *J Mark* 1996;60:1–16.
- National Cancer Institute. *The role of the media in promoting and reducing tobacco use. Smoking and Tobacco Control Monograph No. 19*. Bethesda, MD: US Department of Health and Human Services, National Institutes of Health, National Cancer Institute, 2008.
- Gendall P, Hoek J, Gendall K. Evaluating the Emotional Impact of Warning Images on Young Adult Smokers and Susceptible Non-Smokers. *J Health Commun* 2018;**23**:291–8.
- Gendall P, Eckert C, Hoek J, *et al*. Estimating the effects of novel on-pack warnings on young adult smokers and susceptible non-smokers. *Tob Control*:tobaccocontrol-2017-053719.
- Ling PM, Glantz SA. Why and how the tobacco industry sells cigarettes to young adults: evidence from industry documents. *Am J Public Health* 2002;**92**:908–16.
- Kotler P, Armstrong G, Cunningham PH. *Principles of marketing*. (6th Canadian edition). Toronto, ON: Pearson Prentice Hall, 2005.
- Moodie C. Adult smokers' perceptions of cigarette pack inserts promoting cessation: a focus group study. *Tob Control* 2018;**27**:72–7.
- Luoto R, Uutela A, Puska P. Occasional smoking increases total and cardiovascular mortality among men. *Nicotine Tob Res* 2000;**2**:133–9.
- Burke MC, Edell JA. The Impact of Feelings on Ad-Based Affect and Cognition. *Journal of Marketing Research* 1989;**26**:69–83.
- Cacioppo JT, Petty RE. The need for cognition. *J Pers Soc Psychol* 1982;**42**:116–31.
- Schwarz N, Clore GL. Mood, misattribution, and judgments of well-being: Informative and directive functions of affective states. *J Pers Soc Psychol* 1983;**45**:513–23.
- Childers TL, Houston MJ, Heckler SE. Measurement of Individual Differences in Visual versus Verbal Information Processing. *J Consum Res* 1985;**12**:125–34.
- Lochbuehler K, Mercincavage M, Tang KZ, *et al*. Effect of message congruency on attention and recall in pictorial health warning labels. *Tob Control* 2018;**27**:266–71.
- Popova L, Owusu D, Jensen D, *et al*. Factual text and emotional pictures: overcoming a false dichotomy of cigarette warning labels. *Tob Control* 2018;**27**:250–3.
- Hammond D. Health warning messages on tobacco products: a review. *Tob Control* 2011;**20**:327–37.
- Dewhirst T. Price and tobacco marketing strategy: lessons from 'dark' markets and implications for the WHO Framework Convention on Tobacco Control. *Tob Control* 2012;**21**:519–23.

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