The cigarette pack as image: new evidence from tobacco industry documents

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**Objectives:** To gain an understanding of the role of pack design in tobacco marketing.

**Methods:** A search of tobacco company document sites using a list of specified search terms was undertaken during November 2000 to July 2001.

**Results:** Documents show that, especially in the context of tighter restrictions on conventional avenues for tobacco marketing, tobacco companies view cigarette packaging as an integral component of marketing strategy and a vehicle for (a) creating significant in-store presence at the point of purchase, and (b) communicating brand image. Market testing results indicate that such imagery is so strong as to influence smoker's taste ratings of the same cigarettes when packaged differently. Documents also reveal the careful balancing act that companies have employed in using pack design and colour to communicate the impression of lower tar or milder cigarettes, while preserving perceived taste and "satisfaction". Systematic and extensive research is carried out by tobacco companies to ensure that cigarette packaging appeals to selected target groups, including young adults and women.

**Conclusions:** Cigarette pack design is an important communication device for cigarette brands and acts as an advertising medium. Many smokers are misled by pack design into thinking that cigarettes may be "safer". There is a need to consider regulation of cigarette packaging.

For most consumer products, packaging has become an important component of overall marketing strategy. Traditionally, the primary function of a package was to simply contain and protect the product. However, factors such as increased competition and clutter on the retail store shelf have meant that for most products, packaging must perform many sales tasks, such as attracting attention, describing the product, and helping to make the sale. The often cited "four Ps" of marketing—price, promotion, product, and place—are concepts that summarise the domains of marketing strategy. As a crucial part of the both the product and promotion, packaging assists consumers to select among other relatively homogenous products.

Cigarette packaging is no exception. In the case of cigarettes, however, packaging is even more critical for several reasons. Firstly, unlike many other products where the packaging is discarded after opening, smokers generally retain the cigarette pack until the cigarettes are used and keep the pack close by or on their person. Thus, cigarette packs are constantly being taken out and opened, as well as being left on public display during use. In this way, cigarette packaging can act as an advertisement. A previous front cover of this journal and accompanying cover essay underlined the importance of cigarette packs as advertisements for cigarettes, especially in the face of advertising restrictions. This high degree of social visibility leads cigarettes to be known as "badge products". The use of a badge product associates the user with the brand image, giving the user some of the identity and personality of the brand image. One cigarette package designer, John Digianni, states: "A cigarette package is unique because the consumer carries it around with him all day . . . it's a part of a smoker's clothing, and when he saunters into a bar and plunks it down, he makes a statement about himself." When a user displays a badge product, this is witnessed by others, providing a living testimonial endorsement of the user on behalf of that brand and product.

Secondly, cigarette brands enjoy the highest brand loyalty of all consumer products, with less than 10% changing brands annually. Brand choices are usually made early during the life of a smoker, with a high concordance between the brand first smoked and the brand eventually selected as a usual brand. Thus, once a consumer embraces a cigarette brand, it is quite unlikely that they will change. Tobacco company documents indicate that cigarette companies appreciate the significance of recruiting the young to their own brands. Brand choice has little to do with the actual cigarette, but with linking the cigarette to aspirations of the smoker or potential smoker. As explained by Thiboudeau and Martin in a recent book on cigarette packaging, cigarette brands "embody the qualities we wish we had, the lives we wish we could lead, the great escapes we wish we could make". Brand image is the factor that distinguishes between cigarettes and which is important for young smokers in making decisions about brand choice. As described by Pollay, this phenomenon essentially makes much of cigarette marketing all about a battle for brand share among the young. In this context, cigarette packaging can be a critical communication device for creating and reinforcing brand imagery.

Traditionally, advertising is used to establish brand imagery. Packaging reinforces that imagery, by either repeating design elements from advertisements on the package, or displaying features that are consistent with the image advertising. Thus, when a cigarette pack is displayed in a store, it is the sum of its contents, the pack, and its associated imagery, that is purchased by the consumer. However, when there is less opportunity to establish brand imagery through traditional methods of advertising, as is increasingly becoming the case as advertising restrictions come into force, packaging must play a more important role in establishing and driving brand image.

Despite its importance as part of marketing strategy, there has been a relatively small amount of pack related public health research. However, most of the public health gaze on tobacco marketing has focused on tobacco advertising, price, and more recently, product promotions, such as tobacco branded shirts, caps, and other items. For example, a search on PubMed for articles with abstracts from 1990, yielded only 11 English language articles under “smoking & product packaging”, compared to 298 articles for “smoking & advertising” and 157 for “smoking & price”. Of research papers on packaging published since 1990, most have focused upon health warnings and generic packaging. Countries who have sought to introduce policies to have warning statements or content information on cigarette packs have found that the
What packaging features most appeal to particular target groups of consumers—to select one brand over another? What role do colour, pack size, and pack construction, for example, play in influencing potential consumers—especially starter smokers, but also other sub-groups of consumers—to select one brand over another? What role does packaging play in helping to maintain brand choice about packaging and packaging research. Many documents outlined plans for, and the results of, consumer research on pack design modifications. Some research was qualitative in nature, where a small number of smokers were asked to compare and appraise different packaging configurations, while others were quantitative, reporting data on smoker’s responses to questionnaires about aspects of packaging. 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documents were returned in many search combinations and a minority of illegible documents were found.

RESULTS

The process of package design and modification is neither rapid nor simple. Typically, the process takes months to several years. In their book on package design, Myers and Lubliner explain that the process commences with a thorough analysis of the existing product category, which involves gaining an overview of how a range of cigarettes and other products are packaged for a particular target group. Second, an analysis of existing packaging and those of competitors is generally undertaken. This involves asking consumers to rate attributes of existing packs with those of competitors. Third, clear brand positioning objectives are established to communicate the brand’s “personality” and this includes looking at broader advertising and sales promotion plans for the brand. Fourth, identification of the product’s attributes needs to occur to help prioritise text and visual elements of the intended communication elements on the pack. Fifth, precisely targeted package design criteria are established, including recognition, image communication, and technical requirements. All of this research and decision making is pulled together to brief the package designer, who may either work within the company or within an advertising agency (for example, Philip Morris has used the Leo Burnett advertising agency).

From this information, a broad range of brand identity and package design explorations are developed, from which a smaller range are selected for further development and consumer feedback. Feedback from consumers generally occurs through focus groups or one-on-one interviews, and this research shapes decision making about the final concepts for further development. Three dimensional mock-ups are generally made of these designs for additional consumer feedback, after which full working models and specifications would be made for the artwork, production, and printing process. New packs may be subjected to a full scale test market, where sufficient quantities of the new packs filled with cigarettes are delivered to retailers, and records are kept of sales of the new packs, with due attention being paid to whether the new packs impact unfavourably on existing brands owned by the company. This process usually involves a lengthy period of time—several months to a year or more—to observe and monitor the movement of test packs. Documents pertaining to all of these stages of packaging research and design were found in tobacco company websites.

Role of packaging in tobacco marketing

Tobacco companies have long recognised the importance of packaging in complimenting and extending the imagery created by advertising. As early as the 1950s, some US$150 000 was spent on packaging research by Philip Morris, equivalent to around $1 million in today’s terms. To facilitate Marlboro’s advertisements, the company recommended that the company use the Leo Burnett advertising agency. A report by the company explained, this is especially the case at the point of purchase. As explained in a report commissioned by the Tobacco Institute, the primary job of the package designer is to create a desire to purchase and try. To do this, it must look new and different enough to attract the attention of the consumer. Repeat sales will depend mostly on acceptance of the product, although packaging features such as convenience in use and protection certainly play an important role.

As advertising restrictions increase, the cigarette pack becomes even more important as a means of communicating brand imagery. Where usual advertising channels are available, packaging works in concert with advertising imagery, complimenting the images generated by print or electronic advertising. However, in the face of advertising bans, documents show that tobacco companies realised that the pack would have to assume a much more prominent role in communicating differences between cigarettes and, particularly, brand imagery. In countries where advertising bans are comprehensive to the extent that point of purchase offers the only possibility for advertising, packaging is vital.

For example, in 1980, the senior vice president of marketing at BAT noted the dire importance of packaging where comprehensive bans on advertising were in place, as in Finland and Singapore, stating his belief that packaging would ultimately become the strongest communication device. “In a future where increasingly the product may have to sell itself through the pack, a fuller understanding of the way in which perception of such packs affects perception of their contents is desirable.”

In a speech given as part a Philip Morris international marketing meeting in Tampa, Florida in 1990, participants heard from the product innovation group in the European region that, since restrictions on conventional advertising media were forecast to increase, “our new product development programme must therefore focus on those areas of opportunity which do not rely on conventional media.” This included “new types and forms of packaging that can act as a means of communication” and also sponsorship involving “using a cigarette brand to sponsor cultural/social events so that the events together with the brand packaging become the means of communications”. The speaker went on to describe a proposed oval pack, which “projects a distinctive young masculine appearance” where concept study testing showed it to be “new, original, sensual, and striking. Test concluded: pack has tremendous appeal among young smokers.” A booklet pack and a pack shaped like a cigarette lighter were also featured. “As a conclusion, I think we have demonstrated that new cigarette products and brands have a future, even though our enemies want us to stop innovating the market. We shall overcome.”

In a highly competitive market, it is important that consumers can identify their preferred brand from among the range of brands that are available. As one BAT document explains, this is especially the case at the point of purchase. “. . . it is felt that given the consequences of a total ban on advertising, a pack should be designed to give the product visual impact as well as brand imagery . . . The pack itself can be designed so that it achieves more visual impact in the point of sale environment than its competitors.” Thus, cigarette packs that are easy to identify are ideal advertisements and
of themselves, and can be designed to achieve optimum salience when arranged on retail shelves. For example, companies have been redesigning packs so that brand families are sufficiently similar to indicate membership of the overall parent brand, and different enough to be able to distinguish between the variants. This is well reflected in an American Tobacco Company memo which advised that “An integrated package design can provide for a greater in-store presence. One package or carton color with integrated bull-eye design can better compete as a ‘family’ in today’s cluttered in-store environment.” In this way, the arrangement of packs at the point of purchase themselves become an advertisement for the brand family.

The Philip Morris’ Marlboro pack represents one of the most successful and most recognisable designs in cigarette packaging. Pack recognition research used by tobacco companies involved the use of a tachistoscope containing a visual field onto which stimuli such as packs were exposed for precisely measured durations under controlled illuminations. Using this instrument, each pack was presented to the consumer in a series of short regularly spaced exposures starting at subliminal levels and proceeding in sub-millisecond increments through the stages of partial recognition of information on the pack, to the stage of full recognition. The test then measured the mean recognition time for each pack. One BAT document describing results of pack testing using this procedure on BAT brands lamented the fact that “the performance of all the packs in the exercise is substantially outstripped by the Marlboro pack which delivers a 3.16 millisecond threshold.” This time to recognition was half the time achieved by any of the BAT brands. It goes on to say: “Consistent trends indicate that chevrons have high image prominence but with the tendency for upwards pointing chevrons to draw attention to themselves and downward pointing chevrons to draw attention to that at which they point [sic].”

A document from the Philip Morris site in 1970 which summarised the Marlboro packaging story explained how pack recognition research was conducted by using hidden cameras on unsuspecting consumers in retail stores. “As a prospective customer entered this area, he broke the photoelectric beam immediately setting in motion the concealed camera which recorded the movement of his eyes and the final selection he made. From the thousands of films, the designers, color experts and advertising men were able to determine which package, which design and what combination of colors had the most appeal and “purchase incentive—pick me up” for the consumer.”

The importance of pack graphics in recognisability is further underlined in a Leo Burnett office memo presenting the results of a pack recognition study, the prime purpose of which was to determine whether Philip Morris’ Merit pack with its logo had sufficient recognition to stand alone, to the extent that the name “Merit” was no longer required. Packs which had had the brand name masked were presented one at a time to “a general cross-section of smokers”. The study found that “the older, larger share brands gravitate to the top of the list, with Marlboro and Winston leading the charge . . . Marlboro Lights was the youngest brand in the top tier, obviously buoyed by the “roof” logo, which continues to attain extraordinary recognition whether in red or gold.”

Because smokers carry packs around with them, taking them out many times each day to complete the ritual of lighting up, and often leaving them in an exposed and within easy reach location, the pack itself, through its association with brand image, can communicate a lot about the person who smokes. Tobacco companies undertake a considerable amount of assessment before modifying pack designs, since it is so important that smokers feel comfortable carrying the pack around and uninhibited to take it out to light up. In a memo recommending the commencement of exploratory research for the Lucky Strike cigarette line, advice to the vice-president of brand management of the American Tobacco Company was that “focus groups have indicated that the green (Lucky Strike) pack would be well received by young adult males . . . they thought it was eye-catching and a different approach to packaging . . . specifically they stated, it would be great to put down on the bar.”

Thus, these documents reveal that packaging plays an important role in creating and reinforcing brand imagery. In the case of advertising restrictions, pack design assumes greater importance in driving brand imagery, and plays a key role in competing for potential consumer attention at the point of purchase.

**Pack design effects on perception of cigarette strength and taste**

With concerns about the health risks of smoking being aired in the 1950s, tobacco companies began to introduce filter cigarettes. In the 1960s and 1970s, this concern gained momentum with the publication of the first Surgeon General’s report and broadcasting of the first televised anti-smoking advertising, prompting the introduction of cigarettes that were claimed to be lower in tar, or “milder”. Research has demonstrated that these “lower tar” cigarettes did not in fact deliver lower tar when smoked, due to vent blocking and compensation through deeper inhalation. Further, research indicates that the use of terms such as “low tar” and “light” cigarettes were purposefully designed to mislead the consumer into believing that they were smoking a lower tar or safer product.

Aside from the brand name and descriptions, however, tobacco industry documents show that other aspects of pack design were purposefully used to communicate and reinforce the impression of lower tar or milder cigarettes. A wide range of colours and design configurations were market tested with consumers to determine designs that most led consumers to perceive that the cigarettes in the pack were “mild” or lower in strength. A common thread through all of this research has tobacco companies grappling with the difficulty of preserving taste satisfaction, while simultaneously reducing perceptions of cigarette strength.

Companies discovered that lighter colours on the pack appeared to promote perceptions of lower cigarette strength. For example, throughout 1979 and 1980, RJ Reynolds was testing packaging modifications to its Camel Filter brand, in an attempt to determine a design which was “able to reduce the communication of product strength among potential users of the brand while maintaining current satisfaction, taste and image perceptions.” The tests led to packaging changes which were summarised as follows: “refinements in the package consist mainly of increasing the amount of white space on the pack and lightening the brown color tones. While other changes were made these were essential to give the revised package the appearance of reduced strength.” Also, the colour of the word “Camel” on the pack was made a lighter brown.

The colour blue is often associated with low tar cigarettes. For example, results of a mall intercept survey of smokers’ responses to new packaging for Marlboro Ultra Lights found that both Marlboro and other brand smokers “felt that both the red and blue Marlboro Ultra Lights packs were lower in tar and milder in taste than the majority of other brands, although the blue pack was reported to be somewhat lower in tar and milder in taste than the red pack.” In a test later that year, Philip Morris marketing research department compared smokers’ responses to cigarettes packaged in a blue and a red pack. Despite the cigarettes being identical in composition, smokers appraised the cigarettes in the blue pack as “too mild”, “not easy drawing”, and “burn too fast”. Others felt the cigarettes in the red pack were “too strong” and “harsher.”
This example is one of hundreds of routinely used pack tests, which employ the principle of “sensation transfer” from pack to product to influence consumer’s perceptions of the smoking experience of cigarettes. "Lower delivery products tend to be featured in blue packs. Indeed, as one moves down the delivery sector then the closer to white a pack tends to become. This is because white is generally held to convey a clean healthy association.”

Soft packs were understood by tobacco companies to create the perception of stronger cigarettes than hard packs, as evidenced in this Philip Morris memo: “The absolute ratings of both cigarettes, in terms of mildness, may be higher (that is, the cigarettes may be perceived as less intense) when the cigarettes are presented in the box.”

Menthol cigarettes were first marketed as being good for a cold or flu, as health concerns grew over cigarette smoking. Menthol originates from the peppermint plant and packaging reflected concepts of freshness and mint flavour. Green colours in menthol packaging were predominantly used to influence expectations of menthol taste. As one of the first brands to promote menthol, RJ Reynolds’ Salem brand was promoted as being “as refreshing as all outdoors”.

**Pack designs for target groups**

Basic marketing principles advocate the use of market segmentation. Segmentation analysis recognises that potential consumers have diverse needs and wants, and that by carefully identifying and characterising these subgroups, product marketing can be tailored to elicit a more positive consumer response. Documents show that all of the tobacco companies use segmentation analysis as a strategy for assisting with decision making about pack design.

**Packaging to appeal to young adults**

Documents repeatedly show that tobacco companies are aware that brand choices are made relatively early in the life of a smoker and that packaging is an important ingredient in positioning brands to be attractive to youth. A Liggett and Myers document, for example, stated: “16–21—the formative years; smoking starts and brand preferences are developed.”

Tobacco companies constantly check with consumers to see whether cigarette packaging is perceived as old or outdated. This is especially important, when the age skew of the consumer is young, where fashions come and go so quickly. A market research presentation for Philip Morris notes the need for ‘new’ packaging to maintain appeal for young smokers. “Once exposed to ‘innovative’, especially young adults see their current packaging as dated and boring.” This document goes on to say that the value of “new” is that it “draws attention (jealousy) from others” and that “especially young adult consumers are ready for change in packaging.” Another report for Philip Morris mused that “...we hear from consumers that RJR’s foil wrap provides an example of something new, shiny, a little more contemporary to look at than other brands provide may be enough to tempt new smokers to try (sic).”

This concern with the importance of novelty for the young surfaces again in a Philip Morris report from its Research Center in Richmond, Virginia. The Center conducted a series of nine packaging preference studies up to June 1995 whereby smokers ranked a variety of new pack designs, with the final study recommending that “a plastic pack has particular appeal among the young, fitting their lifestyle of sports, outdoor activities and being ‘on the go’. Based on this information, we recommend that a plastic pack be pursued in future testing.”

In the 1970s young smokers were targeted with Lorillard’s Zack cigarettes in a denim package. In a Lorillard memo proposing tracking of consumer attitudes towards Zack cigarettes in August 1974, Walter Lancaster of Lorillard explained: “This new lo-fi entry is targeted at young smokers under 30 years old... Marlboro smokers are the brands prime target because of the young age skew of the brand... Zack’s strength in appealing to young adults is its unusual name, denim pack and graphic entity.” In focus group discussions the following year for Lorillard, a marketing executive from the Will Graham Company reporting back from focus group discussions concluded that “Zack is a perceived as a brand for open-minded free thinking people who are young in spirit, if not in fact”. This point was reinforced by an illustrating that “one teacher said Zack seems to be replacing Marlboro as the pack her students carry.”

A 1973 memo which proposed a possible “Turk” blend for Camel Filter brand designed to compete with Marlboro suggested that the company “continue to explore and evaluate the need for a dramatically redesigned package that would significantly increase the brand’s young adult image/appeal.” In market testing of alternative pack designs for Camel Lights, a market research report for the RJ Reynolds company asserted that “the alternative packs seem to fit better with present advertising and this advertising was, in turn, very consistent with role model and imagery desires of the younger smokers.”

A 1979 memo from Edward Ricci at MCA Graham Advertising to Tom Mau of Lorillard discussed the positioning of the Newport box package in the low tar market, explaining that “the Box is on target today in terms of drawing LT (low tar) prone Newport smokers and, more so long term, for attracting a greater percentage of young adult new entrants.” Some years later, as the Newport brand was increasing its market share, Philip Morris drew the same conclusion about the appeal of box packaging for younger low tar consumers as a strategy to win back young smokers. “A brand to compete with Newport targeted toward young smokers may have stronger impact on this market if packed in a box.”

A qualitative investigation of Old Gold Filters by Unisearch for Lorillard in 1978, “reaction to the prototype package appeared to be the following: class, expensive, elegant” but then reflected “Biggest problem: Is this a young adult package?”

**Packaging for women**

Packaging to appeal to women has been the subject of careful thought. Cigarettes for women are often packaged in slim, long packs, often with pastel or toned down colours, to meet perceived desires to appear feminine and sophisticated. “Some women admit they buy Virginia Slims, Benson and Hedges etc. when they go out at night, to complement a desire to look more feminine and stylish.” This report went on to say: Throughout all our packaging qualitative research, we continue to validate that women are particularly involved with the aesthetics of packaging... we sense that women are a primary target for our innovative packaging task, and that more fashionable feminine packaging can enhance the relevance of some of our brands.”

Philip Morris was exploring different ideas for packaging of Virginia Slims Kings. In describing these plans, a Philip Morris memo indicated that “recent qualitative research indicates that female smokers, particularly young adults, show great interest in new packaging designs. In fact, this group has indicated a desire for packaging revolution, rather than evolution.” In a two day workshop, Leo Burnett’s Idea Lab generated more than 60 new packaging ideas for Philip Morris, including—believe it or not—headbands, belts, and shoe attachments containing cigarettes. Ultimately the company conducted further research on three of these—a “Booklet” pack (opening like a booklet with three packs that could be separated) a “ComPack” (designed to replicate a women’s powder compact case), and an Oval Pack (a soft pack that could be squeezed at each end to access cigarettes).
Philip Morris also deliberated at length about revising the Alpine pack, which is a predominantly female brand. In March, 1994, Colmar Brunton conducted focus groups in Melbourne Australia for Philip Morris in order to “revitalise and strengthen the quality appeal of the Alpine brand in the 90’s”. The company’s brief was a to explore what kind of communication and packaging concepts would most appeal to women. It wrestled with the issue of “how to grab her attention amid the clutter?”. Ultimately, the company was very pleased with its new design, as shown in fig 1.

In a 1961 report on packaging conducted by the Opinion Research Corporation for Philip Morris, the researchers concluded that “there seems to be some evidence that packaging preference is sex-linked, with the hard pack identified as best for women . . . the cleanliness of the pack is its greatest attraction for the female smoker”.

**DISCUSSION**

It is well known that the tobacco industry is highly flexible and responsive in accommodating restrictions to its ability to advertise and promote cigarettes. Previous research has shown that the industry is able to compensate for its inability to advertise in one medium by transferring advertising dollars to other marketing activities. A recent analysis of data on 22 OECD (Organization for Economic Cooperation and Development) countries from 1970 to 1992 concluded that comprehensive bans on advertising/promotion significantly reduce cigarette consumption as such, similar to the image change that was achieved for cigars some years ago . . . Packs with a valuable appearance may contribute to this image shift. Tobacco trade and advertising magazine commentaries indicate that in order to be sure about the imagery created and reinforced by each cigarette pack, it is necessary to think about cigarettes that may be misleading (such as implying they are less strong or milder in some way), or minimise the salience of health warnings and contents information, and have conducted an enormous amount of consumer testing and research on all elements of pack design in order to be sure about the imagery created and reinforced by each cigarette pack. Thus, tobacco companies cannot reasonably claim that they are unaware of consumer perceptions associated with particular packaging features, or that these were unintentional. If packs are effectively acting as advertisements for cigarettes, if their design characteristics make them more attractive to teenage smokers, communicate information about cigarettes that may be misleading (such as implying they are less strong or milder in some way), or minimise the salience of health warnings and contents information, then pack design ought to be subject to regulation.

What this paper adds

Limited research has been conducted to date on how cigarette packaging might promote cigarette use or influence brand choice. A search of previously secret tobacco company documents showed that cigarette pack design is an important vehicle for communicating brand image, especially when conventional advertising is restricted. Documents show that careful packaging development leads smokers to perceive their cigarettes may be “safer”, suggesting that regulation of packaging is required.

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In a 1961 report on packaging conducted by the Opinion Research Corporation for Philip Morris, the researchers concluded that “there seems to be some evidence that packaging preference is sex-linked, with the hard pack identified as best for women . . . the cleanliness of the pack is its greatest attraction for the female smoker”.

A comprehensive ban on tobacco advertising therefore need to include some consideration of how pack design contributes to the size and salience of point of purchase displays, as suggested by “best practice” point of purchase regulation in Tasmania, Australia. The Australian experience has shown that where traditional advertising is banned at the point of sale, cigarette packs themselves can be used to make “pyramids, mechanical windmills, entire walls of display stock, designs and patterns on walls, ceilings, floors and anything else a creative advertising agency can dream up”. A comprehensive ban on advertising would mean that cigarettes need to be available only from under the counter, rather than being on display. On the other hand, the unappealing images now used on cigarette packs in Canada to warn consumers of health risks effectively represent a form of anti-smoking advertising and may lessen the need to withdraw cigarette packs from plain view in retail outlets.

Given this trend, regulation of cigarette packaging should be considered. One obvious policy option would be to require all brands to be packaged in a generic package. Without brand imagery, packs simply become functional containers for cigarettes, rather than a medium for advertising. Reports from Canada and Australia have commented upon how generic
packaging, which removes brand logos from packs, increases the prominence of health warnings and may increase the believability of health warnings.\textsuperscript{7,8} It is also important that consumers not be further misled into thinking that the cigarettes in the pack are in some way “safer” than others. There may be a case to be made for requiring tobacco companies to demonstrate that cigarettes that deliver the same amounts of tar and nicotine when smoked ought to be packaged similarly. These kinds of issues are raised for regulatory consideration in a briefing paper released by the Framework Convention Alliance as part of the Framework Convention on Tobacco Control.\textsuperscript{9} Public health research on adolescent’s pack recognition, and ratings of pack attractiveness to youth should be conducted to assist policy makers to deliberate further on these policy options. Regulatory attention also needs to be directed towards ensuring the way in which easily recognisable, pack derived brand logos without brand names, as has been used in sponsorships, including Formula 1 Grand Prix.

There have been some successful efforts by public health authorities to alert consumers to the fact that so-called “light” and “mild” cigarettes neither deliver lower tar when smoked, nor confer reduced health risks.\textsuperscript{10,11} These kinds of educational initiatives might also point out how tobacco companies carefully design packs to give the appearance of cigarettes lower in strength, through using the sensation transfer phenomenon as a routine part of their product development research. Youth oriented education and advocacy approaches that have sought to publicise tobacco industry marketing approaches might be useful for raising the public’s awareness of the way in which tobacco companies use packaging to entice young consumers to their brand.

This paper has focused upon particular aspects of pack design that contribute to brand imagery. However, there are other aspects of packaging that deserve future research. These include developing an understanding as to why cigarettes are packaged in different pack and carton sizes; exploring how price and packaging work in concert to drive brand selection, especially among low income consumers; studying the methods and results of tobacco company research designed to tailor packaging to appeal to potential consumers of different racial and ethnic groups; investigating whether any of the technical aspects of packaging, such as the substances and colourings added to the packaging material itself, might be harmful; and understanding how tobacco companies have worked to obscure required health warnings or contents labelling. Further research on all of these issues is warranted and would provide important evidence to guide regulatory initiatives.

ACKNOWLEDGMENTS

The research described in this paper was supported by grants from the National Cancer Institute CA7021-03, CA87696-01, and by Core Grant CA16056-26. The authors thank Richard Pollay for helpful comments on a draft of this paper.

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