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RESEARCH PAPER

Tobacco industry consumer research on socially acceptable cigarettes

P M Ling, S A Glantz

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Objective: To describe tobacco industry consumer research to inform the development of more "socially acceptable" cigarette products since the 1970s.

Methods: Analysis of previously secret tobacco industry documents.

Results: 28 projects to develop more socially acceptable cigarettes were identified from Philip Morris, RJ Reynolds, British American Tobacco, and Lorillard tobacco companies. Consumer research and concept testing consistently demonstrated that many smokers feel strong social pressure not to smoke, and this pressure increased with exposure to smoking restrictions. Tobacco companies attempted to develop more socially acceptable cigarettes with less visible sidestream smoke or less odour. When presented in theory, these product concepts were very attractive to important segments of the smoking population. However, almost every product developed was unacceptable in actual product tests or test markets. Smokers reported the complete elimination of secondhand smoke was necessary to satisfy non-smokers. Smokers have also been generally unwilling to sacrifice their own smoking satisfaction for the benefit of others. Many smokers prefer smoke-free environments to cigarettes that produce less secondhand smoke.

Conclusions: Concerns about secondhand smoke and clean indoor air policies have a powerful effect on the social acceptability of smoking. Historically, the tobacco industry has been unable to counter these effects by developing more socially acceptable cigarettes. These data suggest that educating smokers about the health dangers of secondhand smoke and promoting clean indoor air policies has been difficult for the tobacco industry to counter with new products, and that every effort should be made to pursue these strategies.

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Concern about the dangers of secondhand smoke (SHS)—both among smokers and non-smokers—has been critically important to the tobacco industry for decades.¹ The industry responded with efforts to undermine the science on the dangers of SHS,²⁻⁷ campaigns to fight clean indoor air policies, and efforts to portray those who wished to address secondhand smoke from a public health perspective as extremists.⁸⁻¹² Tobacco companies also promoted "accommodation programs" as an alternative to clean air policies, which had some success in delaying clean indoor air legislation in some parts of the world.¹¹⁻¹⁵ At the same time, the tobacco industry launched major product development and marketing efforts to address smokers' and non-smokers' concerns about SHS. One of the strategies to "solve" this problem was to develop more socially acceptable products that would mask or eliminate SHS.

Since the 1970s, tobacco companies developed, tested, and marketed a myriad of cigarette products designed to increase the social acceptability of smoking. None of these "low odor", "low sidestream" or "good smelling" products held a significant market share in 2003.¹⁶ In the late 1990s, tobacco companies started to offer "potentially reduced exposure products" (PREPs) which claimed to offer benefits to the non-smoker as well as the smoker, such as Omni (which claimed fewer carcinogens in its mainstream and sidestream smoke) or Eclipse (which claims potentially reduced harm, less sidestream smoke, and no lingering odour).¹⁷⁻¹⁸ There has been much prior research on how "light" and "mild" cigarettes provided reassurance to smokers about the health risks of smoking.¹⁹⁻²⁴ While the technological development and use of additives to create some of these products²⁵ and some studies on the health effects of SHS and testing of low smoke products²⁶ have been described, there has been little focus on the marketing of these products and the consumer

research used to develop them. The consumer research on socially acceptable products provides important insights into smoking behaviour and how social pressures motivate smokers.

The tobacco industry documents reveal that substantial segments of the smoker population are very concerned about the social acceptability of smoking. These smokers also tend to be very supportive of smoking restrictions. Many smokers were very interested in the concept of a socially acceptable cigarette, such as a cigarette with no sidestream smoke, no odour, a pleasant aroma, or a product that improved breath/clothing/household odours for smokers. However, tobacco companies failed to develop products that could actually deliver on the concept. Most smokers were unwilling to compromise "taste" for such a product, because the benefit (less sidestream smoke) offered was for someone else, not the smoker. In addition, smokers knew that cigarette smoke is so noxious to non-smokers that no less than a 100% reduction in sidestream smoke or odour was likely to yield a more acceptable product. With a few exceptions,²⁷⁻²⁸ these products failed in test markets. In the 1990s, tobacco companies started to bundle product benefits together; as of 2005, most of the cigarette products that claim to have "less smoke" offer both reduced harm for the smoker and less sidestream smoke to affect the non-smoker. This research underscores the importance of educating smokers and non-smokers about the dangers of SHS and promoting smoke-free policies.

Abbreviations: BAT, British American Tobacco; FDA, Food and Drug Administration; PREPs, potentially reduced exposure products; RJR, RJ Reynolds; SHS, secondhand smoke

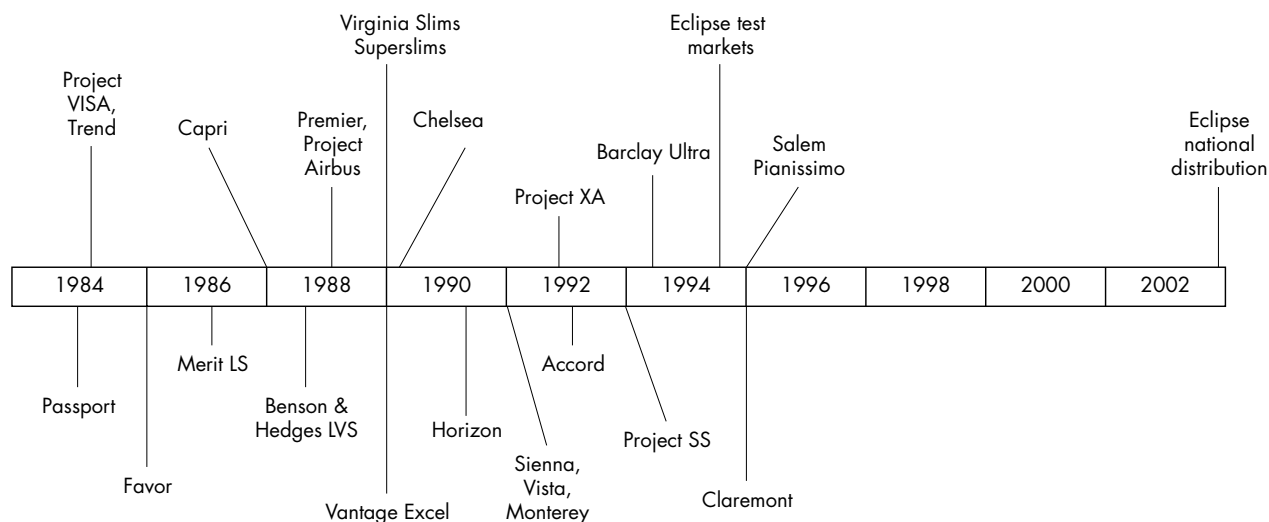


Figure 1 Timeline of introduction of potentially more socially acceptable cigarette products.

METHODS

We analysed tobacco industry documents focusing on the tobacco industry's attempt to "solve" the problem of social acceptability by developing new products. To address these issues, we collected marketing research on social acceptability, consumer concept testing of socially acceptable product concepts, consumer testing of prototype socially acceptable products, the history, success, or failure of these products in the marketplace, and strategic plans addressing social acceptability future strategies in this arena.

Initial searches were performed using tobacco industry document archives from the Legacy Tobacco Documents Library (legacy.library.ucsf.edu) and the British American Tobacco Documents Archive (bat.library.ucsf.edu) at the University of California, San Francisco. Tobacco industry documents internet sites (Phillip Morris, www.pmdocs.com; RJ Reynolds (RJR), www.rjrtdocs.com; Lorillard, www.lorillarddocs.com), Tobacco Documents Online (www.tobaccodocuments.org), and the Minnesota Select Set (outside.cdc.gov:8080/BASIS/ncctld/web/mnimages) were searched for supplemental information.

Searches were conducted between June 2003 and October 2004. Initial search terms were related to social acceptability, such as "social accept*", "less smoke", "low sidestream", or "low odor", combined with search terms that identify research, such as "study", "research", or "marketing report". Initial searches yielded thousands of documents; documents containing consumer research related to more socially acceptable cigarette products were selected. Searches were repeated and focused using standard techniques.²⁹ Further searches for contextual information on relevant documents were conducted using "snowball" searches on names, project titles, locations, dates, and reference (Bates) numbers. This analysis is based on a final collection of approximately 1225 research reports, presentations, memorandums, and plans. We sought to include any tobacco industry consumer research on socially acceptable cigarettes that tobacco companies proposed, funded, completed, or used to guide their marketing plans.

The consumer research and testing from all identified projects were collected and analysed to answer the following questions: (1) How does the social acceptability of smoking affect smoking behaviour? (2) What is the size of the market for "socially acceptable" products, and is it important? (3) What are the demographic and psychographic characteristics and motivations for smokers interested in more socially

acceptable products? (4) What types of cigarette products and benefits have been developed, and which concepts are most attractive to smokers? (5) Which of these products been successful in the marketplace, and how does the tobacco industry account for its successes and failures?

Documents were analysed using repeated iterative reviews to construct coherent accounts of the marketing projects identified. Common principles, strategies, and themes that were replicated over several studies, and duplicated by several tobacco companies were identified and discussed by both authors. Questions were resolved by gathering additional data, and by triangulation with outside sources such as advertising archives, tobacco company websites, former employees, annual reports, news coverage, and trade press.

RESULTS

Scope of documents analysed

Tobacco companies recognised the importance of social acceptability in numerous countries worldwide, monitored the public perception of social acceptability in different countries, and pursued political and public relations strategies to combat growing unacceptability of smoking internationally, including "Operation Berkshire" and the Social Acceptability Working Party arm of the International Committee on Smoking Issues formed by international tobacco companies.³⁰⁻³⁴ However, this analysis focuses on consumer research and consumer testing of potentially more socially acceptable cigarette products, most of which was conducted in the USA or Canada. Unless otherwise stated, the research results we present were from US studies. We identified research on the social acceptability of smoking and its implications for new product development beginning in the 1970s, but most actual product testing with consumers was conducted after 1980. Figure 1 presents a time line of the introduction of different potentially more socially acceptable products identified in this study.

How social acceptability affects smoking behaviour

Brown and Williamson has conducted research on the growing "socially concerned smoker segment" since at least 1976,³⁵ and recognised social concern as one of the "two key forces" driving brand switching in 1977.³⁶ Philip Morris reviewed the origins of decreasing social acceptability in a brief discussion paper written in 1977.³⁷ RJR planned to develop a research programme on social acceptability in 1978,³⁸ and found that the decline in social acceptability of

smoking was accelerating during the early 1980s.^{39 40} Consumer research on passive smoking was conducted for Lorillard in 1979, and the company considered developing a socially acceptable cigarette.^{41 42}

A 1983 presentation by RJR director of new brands and strategic research summarised the importance of social acceptability to smokers:

...we identified social interaction as one of the primary benefits people receive from smoking. Cigarettes are used by people to make themselves feel comfortable around others. They're used in those situations when smokers are trying to make friends, and as an aid in feeling more mature and attractive to others. Thus, as social acceptability declines, it threatens this primary benefit of smoking.⁴³

Philip Morris researchers also recognised the eroding social acceptability of smoking in the 1980s; according to a report the manager of business development and consumer research, Jan Jones, prepared for Dr Ed Gee, director of consumer research:

In the first half of the century smoking was not only accepted, it was expected... The majority of society's leaders and role models smoked. Screen stars used the cigarette as an effective stage prop to convey confidence, sexuality, mystery, or a variety of moods ...
... By the latter half of the century, the social environment had reversed its position... the individual is more likely to experience cognitive conflict from taking up smoking or continuing to smoke than from abstaining.⁴⁴

Declines in social acceptability were linked to the spread of clean indoor air policies. Smokers exposed to smoking restrictions viewed smoking as much less socially acceptable. Even more disconcerting to the industry were the facts that smoking restrictions were increasingly popular among both non-smokers and smokers and that support for these restrictions was greater among the smokers who lived in regulated areas than smokers living in unregulated areas.⁴⁵

Philip Morris conducted a "Consumer Needs Study" in the late 1980s which described four different "smokestyles" among smokers, based on smoking patterns or routines: "casual", "committed/minimal restrictions", "committed/work restriction", and "constrained".⁴⁵ With the exception of "casual" smokers, all of these "smokestyles" were daily smokers who experienced different degrees of external restriction.

"Committed/minimal restrictions" smokers did not experience home or work restrictions. Nonetheless, these smokers felt significant social pressure from non-smokers:

They said cigarettes were most enjoyable when they felt that their smoking was not bothering other people. Since they smoked constantly they found themselves in uncomfortable social situations. We heard comments like "Smoking is the only thing in life I feel odd about," "I feel weird...nonsmokers have more rights," "Smoking is getting to be a real drag." "Smoking is not as easy because of fewer places to smoke and the attitudes of nonsmokers are less tolerant." "I break the rules but this is getting harder." Typically, they had a real concern about infringing on nonsmokers.⁴⁶

These smokers experienced primarily external restrictions in limited situations (restaurants, airplanes, but not at work

or home) and did not internally restrict their smoking. In fact, the "lack of [internal] restrictions was a major factor affecting their sense of guilt and contributed to their feeling of being 'out of control'."⁴⁶

"Committed/work restrictions" smokers were primarily affected by restrictions at work. These smokers felt that work restrictions were positive because they helped them cut down and reduced conflict with non-smokers: "No smoking in the office helps me cut down on the number of cigarettes."⁴⁶ The study found that "smoking restrictions actually helped reduce smokers' guilt and helped many feel 'in control'."⁴⁶

"Constrained" smokers were "restricted at home by family members". Some bought by the pack to control their consumption, and "because packs required less cash out lay on a 'habit' which was not typically supported by the family. These were factors in helping them to reduce their guilt about smoking." Constrained smokers also recognised their smoking as an addiction, and felt significant guilt about it.⁴⁶ The study noted that: "one possible psychological reason that smokers are adapting to or supporting restrictions is because they want to feel 'in control'. External and internal, self-imposed restrictions help them to get this feeling."⁴⁶

Socially pressured smokers were an important target for tobacco marketers because they were more likely to quit. One of the reasons why smoking restrictions may encourage and support quitting is because they reduce the number of environmental cues inducing smoking. The importance of environmental cues is discussed in the same 1988 study, which was conducted when airline flights under two hours in length had just been made smoke-free.⁴⁷ The report noted that under increased smoking restrictions, "fewer cues will elicit smoking behavior and more situations will be associated with refraining from smoking".⁴⁶

For example, a smoker on a nonsmoking flight used to be accustom[ed] to smoking but now if the flight is under two hours the "no smoking" signs stay lit. Initially it is difficult for the smoker not to smoke but not smoking becomes easier as this new situation or cues "extinguish" the smoking response.⁴⁶

Additional memos written by Philip Morris researcher Page Callahan to Dr Ed Gee in 1988 and 1990 described how smokers increasingly looked for smoking cues or refrained from smoking until someone else around them lit a cigarette.^{48 49}

A 1989 draft report for Philip Morris on "smokers affected by legal restrictions and bans" states that smokers who changed the times and places they smoked because of restrictions tried to quit more frequently.⁵⁰ While most of the quitters cited their own health as the primary reason they tried to quit, they also acknowledged that annoyance at being dependent on cigarettes, pressure from family and friends, concern about the effects of their smoke on others, and price all contributed to their decision. The report also stated that these smokers felt considerably more pressure from others to quit smoking, and that this pressure had increased in recent years.⁵⁰

Another 1988 report written by Jan Jones to Dr Ed Gee hypothesised that socially acceptable products might successfully win back quitters:

It appears that a number of smokers have considered quitting. Smokers who buy by the pack rather than by the carton often explain their choice as "not knowing when I might quit." If a socially acceptable product became available, the change in behavior may be simply a change of brand. The top ranking of any new product concept

thought to reduce health risks or social pressures support this position.⁴⁴

Jones calls for Philip Morris “to develop a select group of brands designed to negate social pressures” to win back these quitters:

We already have Marlboro as the brand of choice for young smokers entering the market. We do not have a product that meets the needs of the growing population of ex-smokers. Many of these ex-smokers will resume smoking, and the product that they choose could cause a swing in market share. These quitters (and those who are soon to become quitters) are dissatisfied with certain aspects of a product that previously met their needs...a textbook example of a market opportunity.⁴⁴ [emphasis added]

Jones goes on to review scientific literature addressing social influences on quitting. She concludes that these studies support the development of socially acceptable products that could “extend the social circle of smokers”, alter the stigma associated with smoking, and “thereby significantly alter the product life cycle of cigarettes”.⁴⁴

An understanding of the needs of “socially concerned” smokers and their propensity to quit led tobacco companies to pursue numerous research projects to develop more socially acceptable tobacco products (table 1).

Many smokers are interested in “socially acceptable” products

Studies conducted for Philip Morris, British American Tobacco (BAT), and RJR all demonstrated that substantial numbers of smokers held negative views of smoking, felt uncomfortable smoking around others, and were concerned about the health effects of SHS on other people (table 2). BAT conducted extensive studies on the social acceptability of smoking starting in the early 1980s.^{51–53} In 1983, BAT found 79% of smokers reported they tended to smoke less when around non-smokers,⁵⁵ and awareness of the health dangers of passive smoking was on the rise.⁵⁴ During the 1980s Philip Morris conducted several segmentation studies on smokers and non-smokers, separating them by how strongly they felt about “smoking issues” such as the health hazards of smoking, acceptance of restrictions on smoking, and (for smokers) smoking patterns and motivations. These US studies consistently found that about half of smokers felt ambivalent or negative about smoking; two of six segments felt substantial pressure from others not to smoke (fig 2).^{55–57} Additional studies by Philip Morris⁵⁸ and RJ Reynolds⁵⁹ found that smokers were feeling more pressure from others to quit smoking, and that the percentage of smokers feeling “social guilt” was growing. RJR identified the “social guilt” mindset as approximately 24% of the market in 1988, and projected that it would grow to 32% of the market by 1990 and 52% of the market by 1995.⁵⁹ In 1987, RJR’s research showed over 80% of smokers modified their smoking behaviour around others.⁶⁰ Philip Morris’s tracking studies showed the number of smokers who believed they might quit soon was rising in the late 1980s and remained at about 30% in the early 1990s.^{61 62}

Demographic and psychographic characteristics of smokers interested in more socially acceptable products

Women

Philip Morris tracking studies between 1986 and 1992 consistently reported that women were more likely to report

they frequently felt uncomfortable about smoking and had more interest in a low sidestream product concept.^{61–63} They also found Spanish speaking, more affluent, and ultra low tar consumers were most uncomfortable with smoking.^{61–63} While one 1981 RJR study found that women may be less susceptible to anti-smoking social pressures,⁶⁴ most of the subsequent RJR research found that women were more sensitive to social pressure than men and more interested in more socially acceptable cigarettes.^{64–70} A 1987 RJR report outlining strategic plans to develop new cigarettes, including more socially acceptable cigarettes, noted that women smokers were especially interested in these products.⁷¹ Another RJR report from 1985 explains why this might be so:

- Women take social pressures and affronts much more personally; men are more likely to accept the issue, find a way to cope, and not let it bother them.
- Women to a greater extent than men have internalized guilt over smoking, and immediate smoke odor as well as smoke odor aftereffects dredge up this guilt.⁷¹

The same report stated that young women were more interested in “cosmetic” changes in cigarettes (improved breath, less odour, less tooth stain), while older women responded to new cigarettes that offered cleanliness or enhanced self esteem.⁷¹

Young adults

There is some evidence that younger smokers were especially vulnerable to social pressures. One report written by Jan Jones for Philip Morris noted, “Considering the ‘drive’ for social acceptance experienced by most people, particularly young adults, where strong anti-smoking pressures are exerted there is potential for intense cognitive dissonance”.⁴⁴ An RJR study from 1982 also notes that young adults exert some of the most intense social pressure:

- Younger adults (18–34) are the most active anti-smokers. Younger adults are more likely to do the following anti-smoking activities than older adults.
- Ask someone to give up smoking
 - Not put out ashtrays in home
 - Cough or make some sign when someone is smoking too close
 - Move away when someone smokes near them⁷²

RJR’s 1983 social acceptability of smoking report also found adults age 18–34 years were the most active anti-smoking age group,⁴³ and a 1981 RJR plan reported that younger males felt that social acceptability was a more important problem than older males.⁷³ However, a report prepared for RJR in 1983 noted that “women, people over 25, and white collar workers tend to be most sensitive to social acceptability issues, while young adults and blue collar men are more inclined to insist on their rights as a smoker”.⁶⁹ RJR’s marketing plans for the low smoke cigarette, Salem Pianissimo, in Japan noted that social acceptability was a concern of primarily younger adults and women.²⁷

Blue collar versus white collar

In general, higher socioeconomic status smokers appeared to be more attracted to socially acceptable products. A review of RJR’s research conducted for Project CC (a reduced sidestream product) summarised:

The working environment of blue versus white collar workers has much to do with their attitudes toward social

Table 1 Socially acceptable cigarette projects

Company	Project title	Product (if developed)	Dates	Benefit and product innovations	Status	
RJ Reynolds	Project CC ^{151, 152}	None	1980-83	Less sidestream smoke; used magnesium hydroxide treated (Eucsta) paper	Discontinued after found weak market potential, later transferred into new products division	
	Project RP	Now CC	1983	Less visible smoke and low tar; improved magnesium hydroxide (Eucsta) paper, special filtration system, new (less dense) tobacco blend	Considered as Now line extension; terminated 1983	
	Project YRP ¹⁵¹	Vantage Excel	1985-89		Vantage Excel test markets 1989; discontinued 1990	
	Project SRP	Salem Excel	1991		Retested in Project GC 1991 - poor potential	
	Project QC ²⁴	Premier KS	1981-89	"Smokeless"; does not burn tobacco	Test markets 1988, pulled in 1989	
	Project SPA ^{24, 119, 153}	Winston/Salem line extension	1990-92	Unique fuel source, porous alumina granules carry tobacco extract, new papers developed	Apparently discontinued after 1992 consumer tests	
	Project SA (social accept) ^{153, 155}	Chelsea	1989-90	Eucsta or aluminium alginate treated outer wrap. Tried alternate fillers to replace some tobacco, carbon or coal fillers	Test markets 1989; discontinued 1990	
	Project TF (total female)	Horizon	1990-92	Pleasant aroma cigarette for women	Test markets 1990; discontinued 1992	
	Project FAT (fresh after taste)	"Prism" used as test name	1993-94	Ethyl vanillin glucose (EVG) applied to cigarette paper, spearmint pellets added, low sidestream papers tested	Tested in 1993; unclear if product went to market	
	Project SC (socially conscious)	Salem Pianissimo	1995-present	Pleasant aroma; appeal to broader market than just young women. Increased EVG level, woodpulp cigarette paper	Launched in Japan 1995; still on market	
	Project PA (pleasant aroma) ^{153, 119, 155}	Eclipse	1992-present	Less sidestream; used new "carbon scrubbing" filter (designed to reduce carcinogens), new tobacco blend with no burley tobacco, considered adding EVG and LIS paper, reduced tar	First test markets in 1994; subsequent tests through 1998; national distribution 2003	
	Project SS ¹⁰¹			Less sidestream smoke, less odour, safer		
	Philip Morris	SIMOS ¹⁵⁶⁻¹⁵⁹			New filters, tar modification, new tobacco blend with no burley tobacco, inert fillers. Eventually developed engineered product with heat source assembly, substrate, tobacco roll, new filters, papers	Consumer testing 1986 never went to market. Tested again 1992-95; not launched
PRISM I and PRISM II (Process Resulting in Successful Market share) ¹⁶⁵⁻¹⁶⁴		Merit LS Ambassador	1986, 1992-95	Less sidestream: treated paper	Consumer and advertising tests; test market planned for October 1988. No subsequent documents	
B&H Less Visible Smoke and Select Things ¹⁶⁹⁻¹⁷³		Benson & Hedges LV5	1986-1988	Low sidestream; smaller circumference, low sidestream paper	Launched without test market 1989	
Virginia Slims Superslims ^{84, 174}		Virginia Slims Superslims	1989-present	70% less sidestream; two ply cigarette paper using Kimberly Clark low sidestream paper with various additives, acid coating, modified inner liners, smaller circumference	Tested as response to Chelsea; put on hold when Chelsea was discontinued	
Project Ambrosia I ¹⁷⁵⁻¹⁷⁷		Sienna	1988-90	Pleasant aroma; similar to VS Superslims added vanillin compounds (Aromatek 245, 100, others) to adhesive, paper coating	Tested as response to Horizon; never went to market. Horizon was discontinued 1992	
Project Stealth (aka Ambrosia II) ¹⁷⁸⁻¹⁸⁰		Vista	1990-92	Pleasant aroma, low odour, low smoke. Added vanillin (Aromatek 245, CR 2858) compounds to new low sidestream paper	Direct response to Horizon; Horizon discontinued 1992	
Project Nectar (also part of Ambrosia II) ^{181, 182}		Monterey Vista	1991-1992	Pleasant aroma; added vanillin	Testing reportedly started 1992; consumer tests announced publicly 1998. Test market September 1998. Available in limited markets	
Project Beta ^{111, 112, 183-185}		Accord	1992-present	Electric smoking device reducing sidestream, no ashes, less odour.	Developed as a response to Eclipse 1996. Unable to find documents after 1999	
Project Gamma ¹¹⁵⁻¹¹⁷			1996-99	Smoking device that burns tobacco slowly, later changed to cigarette sleeve (porous tube) to reduce smoke		
British American Tobacco		Project VISA ^{87, 186-191}	Visa/Capri	1984-87, 1987-89	Low smoke, for women. Smaller circumference; considered using low sidestream (coated) paper but taste unacceptable	Eventually chose to emphasise femininity and not low smoke, launched as Capri 1987 Project VISA revived in late 1987 after Passport failed; research done on low sidestream but no product went to market

Table 1 Continued				
Company	Project title	Product (if developed)	Dates	Status
	Project Trout/Eel ¹⁹²⁻¹⁹⁴	Trend/Breeze	1982-86	Did not find enough consumer demand or acceptable product. Partially continued as part of project LESS
	Project Polka ¹⁹⁵⁻¹⁹⁶	Trend/Breeze	1985	Same as project Trout, but for Finland. Consumer testing disappointing; no product went to market
	Project Greendot ¹⁹⁷⁻¹⁹⁸ ; also project NOVA		1988-90	Tar and nicotine was main focus. Project terminated; not innovative enough
	Project Airbus ¹⁹⁷⁻¹⁹⁸		1987-89	Answer to Premier; terminated after Premier failed
	Project LESS ¹⁹⁹⁻²⁰¹		1985-92	Consumer and product tests completed; project transferred to Barclay (Project Nero)
	Project Nero ¹⁴⁷⁻²⁰²⁻²⁰⁵	Barclay Ultra, Barclay Vision	1992-96	Consumer tests in Finland and Switzerland completed; not currently on the market
Rohmans	Passport ⁹⁴⁻¹¹⁹⁻¹⁵¹ Claremont ²⁰⁶⁻²⁰⁷	Passport Claremont	1984 1994-95	Test marketed in Ontario, Canada 1984. No repeat purchase; pulled introduced in Switzerland; withdrawn
Lorillard	NSS ²⁰⁸⁻²¹⁰		1980-81, 1988	Concept and focus group testing; no product went to market
Advanced	Favor ²¹¹⁻²¹⁴	Favor	1985-86	Introduced in Austin, Texas, expanded to seven states; poor sales, withdrawn. FDA considered it a drug delivery device

Table 2 Tobacco industry studies documenting social unacceptability of smoking

Company	Date of study	Title	Findings related to social acceptability
Philip Morris	1988 1992 1994	Smoker/non-smoker segmentation studies ⁵⁵⁻⁵⁷	Half of six smoker segments had some negative views of smoking: "Socially and financially concerned" (aka guilt laden smokers) "Self conscious" (aka considerate smokers) "Image driven" (aka image/peer concerned smokers)
	1988 1989 1993	National tracking studies ^{58 61 62}	Number of smokers who believed they might quit soon on the rise Smokers were feeling more pressure from others (friends, co-workers, and strangers) to quit
British American Tobacco (BAT)	1978	Operation Aquarius ⁵³	Pressures on smokers in the UK appear to arise from family, workplace, and social environments.
	1980-81	Project LIBRA ^{52 53}	Majority of smokers believe it is now much less socially acceptable to smoke, and smoking is a dirty habit More than one third of all smokers (and half of "highly dissonant" smokers) believe cigarette smoking is harmful to the health of non-smokers
	1980-84	Project ARIES (Attitudes Restricting Individuals Enjoying Smoking) ⁵¹⁻⁵³	Surprising depth of feeling against smoking expressed by non-smokers As non-smokers realise they are in the majority, social acceptability of smoking will decrease Children are particularly effective at carrying anti-smoking message to parents Concept of cigarette with less sidestream attractive to non-smokers, but met with some scepticism from smokers
Imperial Tobacco Canada (BAT)	1982-85	Project Taurus ^{35 215}	55% of smokers frequently or occasionally felt uncomfortable smoking around others. 74% of non-smokers and 47% of smokers agreed that it was probably hazardous to be around people who are smoking 94% of smokers agreed or strongly agreed that they "try to show consideration for others when I smoke" 79% of smokers agreed or strongly agreed that they tended to smoke less when non-smokers were around 73% of smokers agreed or strongly agreed that they were concerned about the effects of their smoking on the health of others
	1988	Project VISA ⁵⁴	Awareness of passive smoking among smokers rose from 52% in 1986 to 71% in 1988 Of those smokers aware of the issue, 21% believed passive smoking is one of the most serious health hazards, up from 13% in 1986 Almost half of all smokers were confronted with workplace restrictions, up from 1/3 in 1986
RJ Reynolds	1980s	Project RP ⁶⁰	82% of smokers altered their smoking behaviour in the presence of non-smokers
	1990	Project XA ⁵⁹	The "social guilt mindset" identified as target for a low sidestream smoke product; "social guilt" mindset estimated to be approximately 24% of the market in 1988, and projected to grow to 32% of the market by 1990 and 52% of the market by 1995
	1995	Prism II Review ⁹⁹	Eclipse product target profile: Smokers who possess the following combination of traits are highly predisposed to accept the concept: <ul style="list-style-type: none"> ● Females 35+ who are restricted at work ● College graduates who face no restrictions at home ● Children in household (HH) and restricted at work ● Children in HH and non-smoking spouse ● 35+ low tar without children in HH and smoking spouse ● 21-34 low tar without children in HH and non-smoking spouse ● Any single parent ● Live alone females ● Have non-smoking spouse and restricted at work Smokers with this profile represented "About 60% of all full price, non-menthol smokers."

acceptability issues. Many blue collar workers are employed in unconfined environments or even outdoors. Others have occupations which, for safety reasons, prohibit smoking on the job. In either case, the blue collar worker may be confronted less frequently than the white collar worker with nonsmoker's objections to smoking in a confined environment. In addition, blue collar workers are often more adamant about their right to smoke.⁷⁰

A 1989 report written for BAT including research conducted in Germany and Switzerland also noted low sidestream products could be targeted at the upper classes.⁷⁴ Philip Morris's tracking studies also found more affluent consumers were more uncomfortable with smoking and more interested in the low sidestream concept.⁶¹⁻⁶³

Psychographics: the "mindset"

Equally if not more important than the demographics of the target was the common "mindset" and set of values and interests that motivate the socially pressured smoker. Research conducted in 1977 for Brown & Williamson described the socially concerned smoker psychographic as "very emotional and social person, a joiner with faith in luck" who "see themselves as disciplined, having common sense, and believe they are a little harder to impress".⁷⁵ A 1981 report prepared for RJR found the following qualities made up a general psychological/attitudinal profile of the potential user of a low sidestream product:

- Concerned with other people's opinion of them
- Dislikes offending others

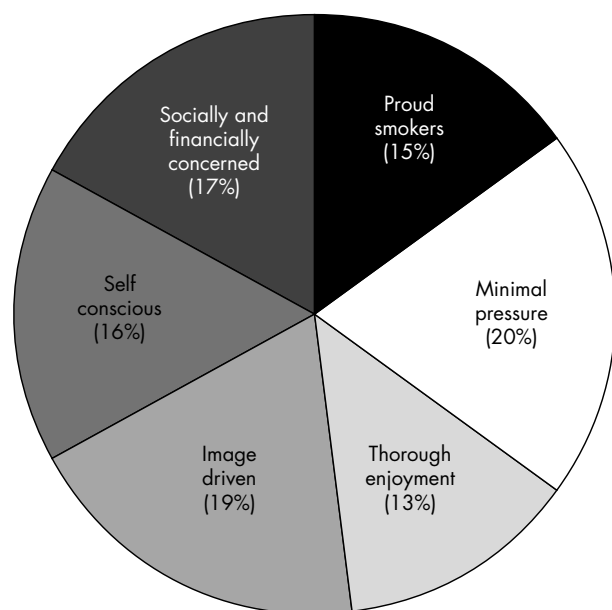


Figure 2 Segments of the 1994 US smoker population classified by attitudes about smoking. Two of the segments “self conscious” and “socially and financially concerned” feel pressure from others not to smoke, and one segment, “image driven” feels ambivalent about their smoking.⁵⁷ Redrawn from figure in original document.

- Concerned with the Comfort/Health of others
- Concerned about their children
- Personally Clean/Meticulous
- Not “Macho” but still manly
- Outdoorsy Type
- Somewhat white collar
- Not for “Image Conscious” smoker
- Sociable, not a Loner⁷⁶

A 1982 profile developed for RJR reiterated characteristics such as: intelligence, sensitive to the needs and approval of others, reserved, and practical.⁷⁷ A 1991 report written for RJR states that the low smoke product was likely to appeal to smokers for whom “adapting to the changing smoking world and being active in coping and achieving, and feeling successful are important. [emphasis in original]”.⁷⁸

Types of cigarette products and benefits that have been developed and their appeal to smokers

Table 1 summarises the major efforts to develop socially acceptable cigarette products. While tobacco companies conducted research on this concept during the 1970s, we did not find actual consumer tests of new products before the 1980s.

RJ Reynolds efforts

RJR launched several of the first efforts to develop new socially acceptable cigarettes, and appears to have been the company most interested in developing new products to address social acceptability. These efforts focused on cigarettes that would have less SHS. A business opportunity analysis prepared for RJR in 1980 stated: “The consumer benefit is basically social security. That is, the ability to enjoy smoking without displeasing other people. As with all strong selling messages, this one is simple to communicate... [emphasis in original].”⁷⁹ Concept testing and focus groups for “Project CC”, an early low sidestream product, in 1981 revealed that the concepts were perceived as highly acceptable, with high purchase interest, importance, difference,

and overall ratings.^{76–80} The concept also appeared to appeal broadly to both men and women, younger and older smokers, as well as low tar and full flavour smokers.⁸⁰ RJR also found several of its advertising executions for the product had higher than normal recall.⁸¹

The benefits of most low sidestream products were felt to be primarily psychological and social:

- The smoker is more comfortable smoking in an enclosed area where others are present. This cigarette is more socially acceptable.
- The smoker feels less “dirty” about his smoking behavior. The cigarette is more elegant.
- The smoker is putting less “pollution” in the air. He feels less subject to attack by non-smokers. This cigarette reduces internal “guilt.” It gets others “off his back,” and it gets himself off his own back.
- The smoker feels like a more responsible, aware, considerate individual, even if others do not take notice of the low side-stream. He knows he has taken a positive step.⁸²

Early product prototypes were generally unacceptable to smokers. RJR’s product tests showed the CC prototypes were inferior in taste, and the research and development team felt that the major taste adjustments required could not be made in the short term.⁸³

RJR’s Premier is probably the best known low sidestream smoke product brought to market. “Project SPA” (which culminated in Premier) consumer tests from 1986–88 showed that, while the product concept generated a high level of trial interest, the actual product tests showed major taste deficiencies.^{84–87} Nonetheless, the high levels of consumer interest and some indications that the product acceptability was improving apparently led RJR to continue to develop it. RJR’s advertising research indicated “the recommended campaign generated the highest level of purchase intent of any RJRT new brand advertising ever tested” and RJR planned to spend \$196 million on introductory marketing in its first year.⁸⁸ RJR introduced Premier on 17 October 1988, and pulled it from the market on 29 February 1989. RJR attributed the poor performance in the market to negative publicity regarding the product’s taste/aroma, “anti-smoking activists” efforts to encourage Food and Drug Administration (FDA) intervention in the marketing of Premier, and poor product performance.⁸⁹

Following Premier’s failure, excitement about new low sidestream brands waned. However, tobacco companies continued to pursue the idea of introducing a low sidestream product as a line extension of an established brand. RJR planned to launch a low sidestream product as a Vantage line extension, “Vantage Excel”, that went to test market in 1989 and was discontinued in 1990.^{90–92}

RJR also pursued several products that offered a pleasant aroma as the primary benefit. Chelsea, advertised as a “good smelling” cigarette for young women, was introduced in 1989 and discontinued in 1990.^{93–94} Later, in 1990, the same product was resurrected as Horizon, “the first and only cigarette that can effectively reduce complaints from others, and provide an improved lingering aroma via the delivery of a pleasant aroma from the lit end”.⁹⁵ However, RJR focus groups revealed that advertising the “less odor” benefit tended to emphasise the problem:

Telling smokers that Horizon will make them and/or their surroundings smell better implies they currently smell unpleasant and offensive. Smokers may privately



Figure 3 (A) Virginia Slims Superslims introductory 1990 advertisement emphasising the “less smoke” benefit with side-by-side cigarette comparison.²¹⁸ (B) Virginia Slims Superslims advertisement in 1991. “Less smoke” benefit has been eliminated.²¹⁹

acknowledge and even openly admit this, but, as it relates to their outward smoking image and personality, may prefer not to smoke a cigarette that blatantly brands itself as a solution to an odor problem.⁹⁶

Both these products were pulled from the market shortly after their introduction. Imperial Tobacco Canada conducted focus groups with smokers and non-smokers in Canada that included reactions to the Chelsea concept. In general, smokers were uninterested in the product; at worst, the masking vanilla scent was viewed as deceptive:

To use a well-liked food aroma to mask a health hazard seemed highly deceptive...
 [quoting smokers verbatim] “People will object to second-hand smoke whether it’s vanilla or chocolate or what-have-you.”
 “It seems somewhat unethical, because everyone knows about secondhand smoke. They’re just trying to disguise it.”⁹⁷ [emphasis in original]

Smokers said they would rather not smoke than smoke a “highly compromised” product such as Chelsea: “smokers seemed a good deal more willing to resolve potential conflict problems by avoiding smoking than by smoking in an unappealing way.”⁹⁷ Philip Morris focus groups also found smokers were more likely to quit or refrain from smoking than to switch to a scented product.⁹⁸

RJR resurrected the idea of a low sidestream smoke cigarette (referred to occasionally as a new version of Premier) in the mid 1990s in a series of projects called “PRISM” and “PRISM 2”, which eventually led to the development of the low sidestream product, Eclipse.⁹⁹ RJR research in 1985 suggested that products that combined several benefits were more appealing than products touting a single benefit.⁶⁷⁻¹⁰⁰ RJR began to combine multiple benefits in the new PRISM product in 1993–94.¹⁰¹ RJR also paid increasing attention to non-smokers’ reactions, and recognised that non-smokers could potentially become advocates for the new product. RJR had tested the concept of a low sidestream product among non-smokers, and found that “Virtually all the respondents indicated they would try to persuade the smokers they are associated with to try this product. Many of the spouses of smokers said they would even buy a pack if it was available, to bring home for their husbands or wives”.¹⁰² Focus groups in 1993 found that non-smoking female spouses might encourage males to try the new product, and that some viewed the product as an aid to stop smoking.¹⁰³

Philip Morris efforts

Philip Morris’s research on smokeless cigarettes also found the main benefits were: social benefits, potential health benefits, and improved hygiene/cleanliness.¹⁰⁴ During the 1980s, Philip Morris’s potentially more socially acceptable products appeared to have been developed as a defensive response to new product introductions by RJR or other tobacco companies, and these projects may have been put on hold when the new products on the market failed. Philip Morris conducted consumer tests on low sidestream products in the 1980s (Merit LS, Ambassador, Benson & Hedges LVS), but did not introduce them to market. However, in 1988 Philip Morris planned to launch two ultra thin, low smoke, ultra low tar products: Virginia Slims Elan Thins for young fashionable women, and Benson and Hedges Select Thins for young men and women.¹⁰⁵⁻¹⁰⁶ The advertising for Select Thins tested well in a series of 1988 interviews,¹⁰⁷ and test markets for Select Thins and Elan were planned,¹⁰⁸ but products appear not to have advanced beyond test markets. In 1989, Philip Morris launched Virginia Slims Superslims, a line extension that originally advertised 70% less sidestream smoke, using slogans like “Fat Smoke is History” or “Fat Smoke Just Went Up In Thin Air”, and featuring a side-by-side graphic comparing the smoke from Superslims to a regular cigarette¹⁰⁹ (fig 3A). Philip Morris launched Virginia Slims Superslims in 1989 without a test market. While Superslims is still on the market in 2005, its introduction did not increase Virginia Slims’s overall market share¹¹⁰ and its advertising stopped emphasising the “less smoke” product benefit (fig 3B).

Philip Morris also tested several scented products in response to RJR’s Chelsea and Horizon, but these also appeared to have been put on hold when Chelsea and Horizon were withdrawn. In contrast to RJR’s Premier and Eclipse non-burning products, Philip Morris spent several years developing a device to reduce SHS. In late 1997, Philip Morris announced limited consumer testing of Accord, a cigarette smoked with a battery powered device that reduced sidestream smoke.¹¹¹ Philip Morris tested Accord with 176 adult smokers, and found that 92 chose not to take the kit home with them, 50 tried it for one week, 19 tried it for at least two weeks, and 15 continued to smoke it at the end of the study. The main characteristic that distinguished those who continued to use Accord was they tended to be the lone smoker in a non-smoking household.¹¹² Philip Morris planned to continue to test Accord through at least 2002,¹¹³ and although Accord is still available in limited markets, it has been described as a “minimal success.”¹¹⁴ Philip Morris also attempted to develop a low smoke cigarette as a response to Eclipse in “Project Gamma” in 1996; the product later evolved into a ceramic or foil sleeve that could be placed over

Table 3 Why “socially acceptable” cigarettes failed

Reason	Source studies	Company	Date
It is impossible to make smoking truly socially acceptable	Product Tests “Project CC” ²¹⁶	RJR	1981
	Report on Smoking Issues ⁶⁷	RJR	1985
	Research on Vantage Excel ¹²⁴	RJR	1991
	“Project XA” prototype tests ¹²¹	RJR	1991
A 100% reduction in smoke is necessary to gain a social benefit	Focus Groups on Smoking and Social Acceptability ⁴⁹	PM	1990
	“Project CC” product tests ¹²²	RJR	1981
	Focus Groups Project CC ¹²⁶	RJR	1985
	Reports summarising learning on low sidestream products ^{100 123}	RJR	1986
	Report on market share potential for low sidestream products ¹²⁴	RJR	1991
	Advertising Tests for Merit LS ¹²⁷	PM	1986
	Research on B&H Select Thins ¹²⁵	PM	1987
The products taste bad	“Project VISA” focus groups on low sidestream products ⁵⁴	Imperial	1989
	Memo about Premier ¹³⁵	PM	1987
	“Project CC” product tests ¹²⁸	RJR	1981
	Vantage Excel product tests ¹²⁴	RJR	1991
	Premier Research Summary ⁸⁹	RJR	1989
	Research on Project XA ¹³¹	RJR	1993
	Research on PRISM ¹³⁴	RJR	1993
	B&H Select Thins consumer tests ¹⁰⁷	PM	1988
	Virginia Slims Superslims tests ¹³²	PM	1990
	Tests on Advance Tobacco Product’s Favor ²¹²	RJR	1986
	Research on Passport ¹³³	BAT	1984
	“Project CC” focus groups ^{100 136 137}	RJR	1983–87
	Vantage Excel research ^{92 124}	RJR	1989
Smokers are unwilling to sacrifice their own smoking pleasure to benefit others	Research on Passport ¹³³	BAT	1984
	Research on low sidestream products ⁹⁴	BAT	1990
	Research on Premier and Favor ¹⁰⁴	PM	1988
	Total Proposition Tests on Vantage Excel ¹²⁴	RJR	1980s
	Memo on Virginia Slims Superslims ¹³²	PM	1990
Low smoke alone is not a compelling reason to buy the product	“Project CC” prototype tests ²¹⁷	RJR	1980s
	Report on Socially Acceptable Products ¹²³	RJR	1986
	“Project XA” product tests ¹²¹	RJR	1993
	“Project VISA” focus groups ⁹⁷	Imperial	1989
	Report for “Project VISA” ⁵⁴	Imperial	1989
Reduced lit-end smoke does nothing about exhaled smoke, perceived to be a bigger problem	“Project CC” research ⁷⁶	RJR	1981
	“Project CC” consumer tests ¹²⁶	RJR	1985
	Research on Premier and Favor ¹⁰⁴	PM	1988
	“Project XA” qualitative research ^{102 131 139}	RJR	1990–93
	Research on PRISM ¹³⁴	RJR	1993

BAT, British American Tobacco; PM; Philip Morris; RJR, RJ Reynolds.

a regular cigarette to reduce sidestream smoke.^{115–117} Although testing continued through at least 1999, we did not find any subsequent marketing plans or advertisements for this product.

BAT/Brown & Williamson efforts

BAT (and its US subsidiary, Brown & Williamson) conducted research on numerous new low sidestream products, as well as tests on its competitors’ new low sidestream products (table 1). However, most of these studies did not result in products going to market, as consumers often found the prototypes to be unacceptable. For example, Brown & Williamson researchers noted “Dis-satisfaction with magnesium oxide papers due to off-taste” was a persistent problem in 1985 and recommended reconsidering whether to proceed on low sidestream products.¹¹⁸ BAT experimented with a non-burning tobacco heating device similar to Premier in the late 1980s, but did not bring the product to market. BAT also tested a low sidestream Barclay line extension for introduction in Europe, including tests in Finland and Switzerland, although poor consumer response appeared to curtail these efforts.

Other tobacco companies

Small tobacco companies introduced some of the earliest products that aimed to be more socially acceptable. The first “smokeless cigarette” introduced to market in 1984 was Advanced Tobacco Product’s Favor, which was not lit and actually contained no tobacco. This device was essentially a

polymer tube packed with nicotine soaked filter material that delivered a nicotine aerosol. The product was widely tried at first, but subsequent sales were low, and consumer responses were disappointing. Favor was withdrawn after the FDA notified the company it regarded Favor as a drug delivery device, not a cigarette. Other early low sidestream products, such as Rothmans’s Passport introduced in Canada in 1984, or Claremont in Switzerland were also pulled due to poor taste, messy ash, and lack of sales.^{54 94 119}

Tobacco industry explanations for the failures of “socially acceptable” cigarette products

Almost every attempt to develop “socially acceptable” cigarettes has failed (table 1), except for a few new products still available on the market (such as Eclipse and Accord) and some low smoke products sold with success in Japan.^{27 120} Consumer research related to actual product testing by several tobacco companies reveals several common reasons why socially acceptable products have failed in the marketplace (table 3).

Tobacco companies consistently found that the social acceptability promised in advertising was an ideal that was impossible to achieve with actual cigarette products.^{54 83 94 118 119} As early as 1985 RJR found that “94% of smokers believe that non-smokers will remain annoyed with smoking in spite of cigarette improvements”.⁶⁷ Finally, smokers may have found that the social benefits they expected did not follow actual use of the product, as was apparent in a series of tests conducted for RJR on “Project XA” in 1993:

...the concept of "less smoke" is so attractive that both Salem and XA[a low smoke prototype product] smokers wanted to believe it, and did believe it for a while. However, about equal numbers of smokers in each cell gradually lost interest. One XA smoker summed it up by saying, "if this is what less smoke means, it isn't such a big deal."¹²¹

In addition, drastic reductions in sidestream smoke were necessary to attain a benefit for smokers. Early tests for RJR's Project CC conducted in 1981 demonstrated that smokers could not readily detect the reduction in sidestream smoke in products that reduced less than 85%,¹²² and studies for RJR and PM in the late 1980s found a reduction of up to 80% still did not affect purchase intent.¹²³⁻¹²⁵ Even though smokers might notice the difference with 85% less sidestream smoke, many of them noted that to satisfy non-smokers, anything less than a 100% reduction was unacceptable.^{49 124 126 127} In 1989 qualitative research conducted for BAT, non-smokers also reported that they would prefer to avoid cigarette smoke completely, rather than be exposed to a reduced sidestream product.⁹⁷

Tobacco companies were required to modify cigarettes significantly to meet these expectations; most of the products that resulted tasted bad, or were so different from regular cigarettes that smokers found them unacceptable. RJR's attempts to develop socially acceptable cigarettes during the 1980s and early 1990s found the prototypes' harshness, poor aftertaste, and offensive aroma made them inferior to existing cigarettes.^{89 128-131} Philip Morris also struggled with the taste characteristics of low sidestream products.^{107 132} Imperial's study of Passport in 1984 (test marketed by its competitor, Rothman's) also found it had a lingering metallic aftertaste that was "like sucking a coin" and "sort of silver in your mouth".¹³³ RJR's PRISM research found "disappointment in the cigarette was extreme" with study participants complaining about "no flavor", "low smoking satisfaction", difficulty smoking the cigarette, and a "metallic" or "plastic" taste or aroma.¹³⁴

Perhaps strong consumer enthusiasm for the concept and eagerness to be the first to introduce this type of product into the market led tobacco companies to bring these products to market despite this discouraging research. However, as a memo from PM brand manager S Alter to Louis Suwarna, director of new product development, noted shortly after RJR announced Premier:

So a lot of hoopla over a remarkable new discovery touted to have no smoke and no tar, and which in fact tastes bad, will only reconfirm what everybody already knows about 'cleaner' cigarettes - there ain't no such thing that's worth a damn to smoke.¹³⁵

Several memos and reports for RJR emphasise that smokers were not willing to sacrifice taste for less sidestream smoke, a feature that primarily benefited others.^{92 100 136 137}

By 1989, RJR's research on Vantage Excel found that as anti-smoking pressures increased, smokers were even less likely to sacrifice taste, "if I can't smoke when or where I want to, at least when I do smoke I want a cigarette that I really enjoy".¹²⁴ Similarly, 1990 BAT research also concluded that smokers' unwillingness to sacrifice taste for social acceptability explained the failure of both Passport and Vantage Excel.^{94 133} RJR's tests during the 1980s demonstrated the low sidestream smoke benefit was not compelling enough to motivate purchase or to compensate for taste deficiencies.¹²⁴ The "low smoke" benefit Philip Morris used when it introduced the Virginia Slims Superslims line

extension in 1989 was eliminated in subsequent advertising campaigns for the brand because most of those interested in trying Superslims were attracted because friends smoked it or due to promotions/coupons. The "low smoke" benefit "did not appear to have a major effect on consumer behavior".¹³² A report for RJR on project XA also concluded that the increase in smoking restrictions was decreasing consumer demand for socially acceptable products.¹³⁸

Finally, low sidestream products generally did not address smokers' concerns about exhaled smoke⁹⁷ or increased toxicity for the smoker. Reduced sidestream products generally focused on reducing the amount of smoke from the lit end of the cigarette, not exhaled smoke. RJR research on socially acceptable products noted that because products with reduced lit-end smoke still did not reduce exhaled smoke, total smoke did not appear to have been reduced sufficiently to provide a meaningful benefit.^{121 123}

Imperial Tobacco Canada's focus groups for "Project VISA" also found that the prototype that had the least sidestream smoke was problematic because "the extinction of one of the visual cues to smoking, sidestream smoke, focused greater attention on the remaining visual cue, exhaled mainstream smoke".⁵⁴ Consumers in these focus groups (erroneously) felt exhaled smoke was the main source of SHS.⁹⁷ We did not find any products that claimed to reduce exhaled smoke.

Smokers were also concerned about the possibility that less sidestream smoke led to more toxins for the smoker. For example, one RJR study for Project CC in 1981 found the following smoker comments:

"They are letting less of it escape and channeling more of it into the end that goes in your mouth."

"If they are trapping it in there, then it comes to me. If I have my choice of sharing it or keeping it, then I'd rather share it."¹⁷⁶

RJR's consumer tests for low sidestream products in 1985 and 1993 found that some who did not purchase the product were concerned about what "the manufacturer added to the tobacco or paper to produce less smoke" and that this would make the cigarette either less satisfying or more hazardous.^{126 131} These studies also found that smokers perceived prototypes with "black pieces in the blend and the black inner liner" to be artificial and less appealing than "natural" appearing products.¹⁰² However, when the black substance was compared to the charcoal in water filters, smokers' concerns were alleviated.¹³⁹ In December 2004, advertising on the Eclipse website included a cross section of the cigarette (none of the parts are black). The explanation offered was, "Eclipse works much like a coffeemaker, which passes hot water through coffee grounds to release the flavor".¹⁸

DISCUSSION

The tobacco companies' consumer research on socially acceptable products and their failure to develop and market a successful product helps explain why education on the dangers of SHS and creation of smoke-free environments is such an effective tobacco control policy. This research also helps to explain the large reduction in smoking prevalence and consumption levels among continuing smokers when workplaces¹⁴⁰ and homes^{141 142} are made smoke-free as well as why the popularity of these measures grows after their implementation.¹⁴³⁻¹⁴⁵ In fact, tobacco companies like RJR understood these facts as long ago as 1983, well before most in the public health community understood it:

The first fact that emerged from the research we conducted is that a majority of all adults want smoking restrictions in

public places. We asked people if they would vote for legislation that would restrict public smoking. Of all adults, 66% agreed they would vote for such legislation. Even 44% of smokers agreed with this statement. *What was even more surprising for us to find was that smokers who live in regulated areas want restrictions more than do smokers who live in non-regulated areas.*⁴³ [italic emphasis added]

While these smokers represent a major—and difficult to address—problem for the tobacco industry, it represents an attractive and straightforward opportunity for intervention by public health programmes. In response to these pressures, tobacco companies invested heavily in numerous efforts to develop more socially acceptable tobacco products. These efforts were encouraged by consumer research showing the concept of such a product was extremely popular among smokers, particularly women, higher income, and possibly young adults. More important, these products appealed to the large and increasing numbers of smokers who felt uncomfortable smoking around others. In their efforts, tobacco companies found the power of suggestion created by advertising was very strong. For example, RJR's product tests in 1993 comparing a low sidestream "Project XA" prototype to a "control" Salem cigarette (with its usual amount of sidestream smoke) revealed that after viewing advertising participants perceived both products to have less smoke:

The power-of-suggestion was very strong and resulted in about equal numbers of people in each cell recognizing "less smoke" benefits. There were people in both the Salem and XA cells who subjected their cigarettes to rigorous tests and were absolutely convinced that they had less smoke.¹²¹

Despite the persuasive effect of advertising, tobacco companies were not able to develop new "socially acceptable" products that translated into significant consumer purchase.¹⁴⁶ When actual products were tested, enthusiasm for them consistently waned.

Most low sidestream products tasted or smelled inferior to regular cigarettes, and smokers were unwilling to sacrifice their smoking experience to benefit others. In addition, the new products did not actually confer social acceptability on smokers; only a completely smokeless product (eliminating both sidestream and exhaled smoke) might achieve this. Smokers were also concerned about the safety of these products (table 3).^{76 126 131} The numerous faults and limitations of these products also provides an opportunity for public health campaigns to educate the public about these problems, which may undermine the marketing campaigns designed to drive demand for these products as an alternative to quitting.

While the bulk of the consumer research in this analysis took place in the USA, tobacco industry concerns about the social acceptability of smoking are evident in many different countries. While it cannot be assumed that the smoking dynamics observed in the North American markets can be readily transferred to all international contexts, transnational tobacco companies have monitored social acceptability in numerous countries worldwide, and have investigated how to introduce new products where it seems viable. For example, BAT planned to test more socially acceptable products in Europe in response to growing recognition of environmentalism in Finland, and potential for low sidestream products in Switzerland.¹⁴⁷ While European consumers may have had the same problems with the product that

What this paper adds

Most of the prior research on the tobacco industry and the social acceptability of smoking focuses on industry efforts to undermine the scientific evidence on the health hazards of secondhand smoke or public relations efforts to affect societal views of smoking and smokers. The tobacco industry also invested heavily in addressing social acceptability through marketing strategies, especially in attempts to develop new, more socially acceptable cigarettes. Prior studies of "low odour" or "low sidestream" products have focused on the product contents; this study examines the marketing of these products, and the consumer research tobacco companies conducted during their development.

Tobacco industry consumer research shows great consumer interest in cigarettes that lack secondhand smoke, but tobacco companies repeatedly failed to develop acceptable cigarette products that could deliver on their advertising promises. These studies also provide new insights into smoking behaviour, including how and why smoking restrictions motivate smoking cessation, and why they are increasingly popular among both smokers and non-smokers when enacted.

were found in North American studies, this was not universally true. Although RJR's low sidestream products failed in the USA, they were able to introduce the low sidestream product, Salem Pianissimo, with fair success in Japan in 1995, and in 1996 and 1997 both Philip Morris and Japan Tobacco followed with low smoke/low odour products such as Virginia Slims One, or Bevel Flair in Japan.¹⁴⁸⁻¹⁵⁰ The potential success of socially acceptable cigarette products, as well as the potential success of clean air policies, warrants additional international attention.

The tobacco industry's research yields strong guidance for public health professionals designing tobacco control programmes. A focus on SHS and the right of non-smokers to clean air will decrease the size of the markets for potentially more socially acceptable products, particularly since most socially concerned smokers are very supportive of smoking restrictions, and generally favour them over new products. Both smokers and non-smokers prefer clean air policies to "socially acceptable" products, and the more widespread clean air policies, the stronger the support for these policies.

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