Smoking Cessation Leadership Center



University of California San Francisco

Unboxing IQOS: History, risk perceptions, and clinical implications

Pamela Ling, MD, MPH Minji Kim, PhD

February 10, 2021

Moderator

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A National Center of Excellence for Tobacco-Free Recovery

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Today's Presenter

Pamela Ling, MD, MPH

Professor of Medicine in the Division of General Internal Medicine and

Director of the Center for Tobacco Control Research and Education

University of California, San Francisco





Today's Presenter

Minji Kim, PhD

Postdoctoral Fellow

Center for Tobacco Control, Research and Education

University of California, San Francisco







Unboxing IQOS: History, risk perceptions, and clinical implications

Minji Kim, PhD Pamela Ling, MD, MPH

SCLC 02/10/2020

What is IQOS?

"Heated Tobacco Products" or "Heat-not-burn" by Philip Morris/Altria

- Heating blade heats tobacco stick (branded Marlboro HeatSticks in US/Japan or HEETS in other markets) up to 350°C (=662°F)
- Generates nicotine-containing "aerosols"
- IQOS leads global heated tobacco product market











Other heated tobacco products (1)





Other heated tobacco products (2)

"Hybrid" type - tobacco pod/stick and no-nicotine liquid pods





Where are they available now?





IQOS in the US





Origins of IQOS

- "Socially acceptable" cigarettes failed for decades
- Credible health claims and support from scientific community are crucial for sales

Relevant Papers:

Ling and Glantz, Tobacco industry research on socially acceptable cigarette. Tob Control 2005;14 e3. <u>https://tobaccocontrol.bmj.com/content/14/5/e3.full</u>

Anderson and Ling, "And they told two friends and so on..." RJ Reynolds viral marketing of Eclipse and its potential to mislead the public. Tob Control 2008 Aug;17(4):222-9.





1926:

"Blow some my way"

2000:

"Superslim Capri means less smoke for those around you"





Emphysema, And May Complicat

Socially acceptable product attempts

Product	Benefit	Status
Project CC (RJR)	Less sidestream	Weak market potential
Premier (RJR)	"smokeless"	Failed in test market 1989
Passport (Rothmans)	Less sidestream	Withdrawn 1984
Vantage Excel (RJR)	Low sidestream	Discontinued 1990
Favor (Advanced)	"smokeless"	Discontinued 1986
Chelsea (RJR)	Sidestream aroma	Discontinued 1990
Horizon (RJR)		Discontinued 1992
Merit LS (PM)	Less sidestream	? Never launched
Virginia Slims Superslims (PM)	70% less sidestream smoke	Stopped selling "less smoke" benefit 1990s
Eclipse, Revo (RJR)	Less smoke, safer	Discontinued 2015
Accord (PM)	Reduced smoke device	Discontinued 2006



Why These Products Failed

- Attractive concept, but impossible reality
- 100% sidestream reduction necessary
- The products taste bad
- Smokers unwilling to sacrifice much for nonsmokers



Some believed non-smokers would find any amount of smoke bothersome and would not recognize an effort to reduce passive smoke. "How would people know I'm smoking a low smoke cigarette? They'd just see a lit cigarette."

-5-Reactions To The Low Smoke Concept Smokers responded favorably to the idea of a low smoke cigarette. Keep in mind that this sample was probably somewhat more sensitive about problems associated with their smoking than the general smoking population. The main advantage of a low snoke cigarette is its non-offensiveness to non-smokers. Most respondents thought in terms of the non-smokers close to them -- spouses, family members, and co-workers -- rather than non-smoking Yet, some people acknowledged their concern for the latter. particularly given what they saw as ever-increasing pressure on smokers by the non-smoking public. Some people saw the low smoke cigarette as a step towards making smoking more socially acceptable. Consumers often described a low smoke cigarette as a good "compromise". Respondents were concerned about the effect their smoke had on others, but they had no desire to quit. A cigarette with less snoke was seen as a As an added benefit, some smokers thought Merit LS might lessen the odor of smoke in one's clothes, house, car, ctc. On the down side, there was clear concern about the flavor of a low smoke cicarette. Nost people thought that reducing sidestream smoke must "This won't help anybody. If you light the nevitably have some effect on flavor--whether it be reducing inhaled smoke, or (less often) through a treatment of the paper and/or the tobacco. The "low smoke", when added to the clear low tar perceptions people had of Merit resulted in fairly weak taste expectations for some. Still, most people were interested in trying Merit LS to find out about its flavor. cigarette whether it produces less smoke or There were other concerns about the extent to which a low snoke cigarette would in fact alleviate problems between smokers and non-smokers. Many thought Merit LS would still be offensive to non-smokers to some degree not, people will still tell you to put it Some believed non-smokers would find any amount of smoke bothersome and would not recognize an effort to reduce passive snoke. "How would people know I'm snoking a low snoke cigarette? They'd just see a lit cigarette. Respondents' introduction to Merit LS did not lessen their incoming impressions of Merit. Some thought this new low smoke product showed out. Non-smokers couldn't care less." commendable concern for the non-smoking public on the part of the cigarette company "Merit LS" vs. "Ambassador" It is clear that for respondents the name "Merit" carries with it certain 2023 expectations and impressions that then become attached to the low snoke

product. Impressions of Nerit LS are thus dependent on whether smokers' incoming ideas about Merit parent are positive or negative.

086924

Philip Morris, 1986, Merit LS In-Depth Research, bates # 2023086920/6924

RJR, Project CC 1981, Bates # 500049189/9245

Criticisms overwhelmed the voices of approval in every group. Several strands are apparent here. First there

frequent mention of strangeness.

reserves and they were bernahs waterud for something odd.

***like sucking a coin**, silver in your mouth", etc. Much of this taste seemed to collect in the mouth and linger there after the cigarette was finished. Hence the "after-taste".

BAT, 1984 study on Passport Bates 400169500-9539

PHILIP MORRIS U.S.A.

INTEROFFICE CORRESPONDENCE

120 PARK AVENUE, NEW YORK, N.Y. 10017

TO: Mr. Louis Suwarna

DATE: September 28, 1987

FROM: S. Alter

SUBJECT: ART Marketing Strategy

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

Philip Morris, 1987 after RJR announced smokeless cigarette



Accord (1999-2008)

- Short, ultra low-tar cigarette in battery-powered lighter
- Claimed 83 percent fewer toxins
- Little consumer acceptance





IQOS

Accord





(a) Aerosol collection with Intense Health Canada's Smoking Regime: 55 mL puff volume, 2-second puff duration, 30-second interval puff. Comparison on a per-stick basis. Reduction calculations exclude Nicotine, Glycerin and Total Particulate Matter

(b) The PMI 58 list includes the FDA 18 and (c) the 15 carcinogens of the IARC Group 1

Note: Reduced-Risk Products ("RRPs") is the term the company uses to refer to products with the potential to reduce individual risk and population harm in comparison to smoking cigarettes. These data alone do not represent a claim of reduced exposure or risk

Source: PMI Research & Development



Table 3: Comparison of Accord and IQOS HPHC Yields on a Per Cigarette Basis Based on Data from PM's Scientific Data Summary and PMI's MRTP Application

Compound	IQOS (abs. value)	Accord (abs. value)	3R4F (abs. value)	2R4F (abs. value)	IQOS (% of 3R4F)	Accord (% of 2R4F)	Ratio IQOS/Accord (abs. values)
1,3-Butadiene (µg)	0.207	2.2	89.2	36.7	0.23%	5.99%	0.09
4-Aminobiphenyl (ng)	7.8	0.113	3.21	1.24	243.0%	9.1%	69.0
Acetaldehyde (µg)	192	114	1602	670	12.0%	17.0%	1.68
Acetamide (µg)	2.96	0.592	13	4.72	22.8%	12.5%	5.00
Acrolein (µg)	8.32	16.2	158	61	5.3%	26.6%	0.51
Acrylonitrile (µg)	0.145	0.415	21.2	15.1	0.68%	2.75%	0.35
Benz[a]anthracene (ng)	2.65	< 0.13	28.4	10.8	9.3%	>1.20%	>20.4
Benzene (µg)	0.452	0.413	77.3	53.7	0.58%	0.77%	1.09
Benzo[a]pyrene (ng)	0.736	< 0.13	13.3	7.75	5.5%	>1.68%	>5.66
Carbon Monoxide (mg)	0.347	0.564	29.4	14.3	1.18%	3.94%	0.62
Catechol (µg)	14	4.53	84.1	45.9	16.6%	9.87%	3.09
Formaldehyde (µg)	14.1	7.41	79.4	18.6	17.8%	39.8%	1.90
Isoprene (µg)	6.55	35.4	891	386	0.74%	9.17%	0.19
Lead (ng)	2.23	< 0.676	31.2	12	7.15%	>5.63%	>3.30
Nicotine (mg)	1.29	0.21	1.74	0.934	74.1%	22.5%	6.14
Nitrogen Oxides (µg)	14.2	28.6	538	298	2.64%	9.60%	0.50
NNK (ng)	7.8	< 12	244.7	150	3.19%	>8.00%	>0.65

Table 3: Comparison of Accord and IQOS HPHC Yields on a Per Cigarette Basis Based on Data from PM's Scientific Data Summary and PMI's MRTP Application

2.2 0.113 114 0.592 16.2	89.2 3.21 1602	36.7 1.24	0.23%	5.99%	0.09
114 0.592		1.24	0.40.00/		0.07
0.592	1602		243.0%	9.1%	69.0
		670	12.0%	17.0%	1.68
16.2	13	4.72	22.8%	12.5%	5.00
10.2	158	61	5.3%	26.6%	0.51
0.415	21.2	15.1	0.68%	2.75%	0.35
< 0.13	28.4	10.8	9.3%	>1.20%	>20.4
0.413	77.3	53.7	0.58%	0.77%	1.09
< 0.13	13.3	7.75	5.5%	>1.68%	>5.66
0.564	29.4	14.3	1.18%	3.94%	0.62
4.53	84.1	45.9	16.6%	9.87%	3.09
7.41	79.4	18.6	17.8%	39.8%	1.90
35.4	891	386	0.74%	9.17%	0.19
< 0.676	31.2	12	7.15%	>5.63%	>3.30
0.21	1.74	0.934	74.1%	22.5%	6.14
28.6	538	298	2.64%	9.60%	0.50
< 12	244.7	150	3.19%	>8.00%	>0.65
	35.4 < 0.676 0.21	35.4 891 < 0.676	35.4 891 386 < 0.676	35.4 891 386 0.74% < 0.676	35.4 891 386 0.74% 9.17% < 0.676

Accord compared to IQOS

- Appears to be a precursor product
- PM claimed this product was NOT safer
- Now PM claims IQOS is safer
- Aerosol chemistry not consistently lower in toxicants
- The product hasn't changed, the regulatory environment has

Critical for IQOS success in US

- Credible health claims
- Support from scientific community
- Limited competition from e-cigarettes
- Cheaper, easier and cooler





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Article

Unboxed: US Young Adult Tobacco Users' Responses to a New Heated Tobacco Product

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Product unboxing videos

- Popular on social media
- Toys, high-end electronics, beauty products







Product unboxing videos

Popular on social media

- Toys, high-end electronics, beauty products
- But also tobacco:



iQOS 3 Multi Unboxing! - Smoke-Free E-Cigarette Max Lee + 556K views + 1 year ago My best friend Jake(the Galaxy Tab Man: https://www.voutube.com/watch?v=OF4t2MHsreo) in Korea has recommended me to try ..



IQOS - Heat Not Burn - Unboxing Unboxing Cravings + 13K views + 2 years ago This is an unboxing video of the innovative tobacco heating system that heats real tobacco without surning to provide you with the ...



100S 2.4 Kit - Review & Tutorial Ubervape.co.uk • 13K views • 1 year ago Thanks for watching the video, I hope you all enjoyed it. This channel is dedicated to honest unbiased eviews from the ..



IQOS 3 Duo Unboxing & accecories Edward Prayogo + 11K views + 8 months ago Hi this is an Unboxing IQOS video. Enjoy!



iQOS 2017 Unboxing + Présentation + Guide MrDrissou + 859K views + 2 years ago Petite vidéo afin de présenter la "nouvelle" cigarette électronique inventée par Philip Morris. Unboxing + Itilisation + Recharge + .





Juul Vapor E-Cig Unboxing, Set Up & First Impressions With Virginia



me trying juul | juul unboxing | mega lit Jasmin Poletti • 509K views • 1 year ago Hey guys! I cringe at myself so get ready for some extra cringe moments hehehe. I hope you guys are lood? I am freezing cold.

unboxing my first juul lol wtf ft. bella hadid

Filmon Abraham • 53K views • 1 year ago

nicotine is highly addictive and ...



JUUL UNBOXING! QUITTING SMOKING & FIRST IMPRESSIONS mollysoda · 96K views · 1 year ago





Unboxing my JUUL while I'm HIGH lenna Jadee Wilson • 79K views • 1 year ago nstagram: Brazyjenna Snapchat:Jenna_141401 Lauren's Instagram:Issa.I.a.

this was so stupid IoI. I had fun tho. Imma clarify m that I do not encourage this product to anyone,





Narrated unboxing interview

Part of ongoing longitudinal qualitative interview with adult poly-tobacco users (2017-2020)

- 10-15 minutes unboxing while "thinking aloud"
- Thorough debrief: Lack of evidence on IQOS' health effects
- Devices and tobacco sticks acquired from Canada, Korea, and US





Narrated unboxing interview





Combining novel electronic device and familiar tobacco leaf



"The packaging is beautiful. It feels like I am opening up a new phone or – Oh my God, if you guys didn't tell me this was a tobacco product, I would not know. It seems too sleek and elegant. This is so cool. It's so fancy."

(Female, 30, White, cigarettes)



"I would describe it, like a PAX for tobacco. Because it's actual leaf. It's not an oil or a tincture or a gooey vape fluid."

(Female, 24, Multi-racial, cigarettes)




Assumptions about health effects (1): Safer than cigarettes

"I would assume that not physically burning something like this would potentially be more healthy because a lot of carcinogens are only released at certain temperatures."

(Male, 31, White, e-cigarettes)

Stop burning. Enjoy heating.

IQOS has found a revolutionary solution to a burning problem – to heat, rather than burn, tobacco.

QOS HeatControl[™] Technology ets you enjoy the true taste of real tobacco with no fire, no ash and no smoke smell.

IQOS is to be used only with specially designed HEETS heatsticks™.



Assumptions about health effects (2): Similar to cigarettes



"I feel this would also be kind of worse for your lungs since it's in the form of a cigarette as well." (Female, 21, Asian, e-cigarettes)



Assumptions about health effects (3): Safer than e-cigarettes

"I thought this was taking the same nicotine liquid that everybody's always used for vapes. But this is different. ...
A if this is truly just like processed tobacco leaf,
I can easily figure out what's in that, you know? ... I guess I like the idea of it being
actual tobacco over this weird gooey liquid that I have no idea what's in it."

HEAT NOT BURN

By heating tobacco rather than burning it, IQOS creates a tobacco vapour, not smoke.

REAL TOBACCO

IQOS uses real tobacco so you can enjoy true tobacco taste and satisfaction.

NO SMOKE

IQOS leaves no smoke smell on you and around you.

Join the almost 6 million adult users worldwide who stopped burning tobacco and started heating it.*



Assumptions about health effects (3): Safer than e-cigarettes





Current smokers expressed greater interest in IQOS than former smokers







Mixed reactions on appeal to youth



Discreet device with high-tech appeal would appeal to young people

Pod vapes are simpler, concealable, inexpensive, and less stigmatized

IGOS has many customization options that enable you to personalize your device. Choose from a selection of coloured caps and accessories to bring uniqueness to your IGOS experience



Discussion

• Multiple attributes collectively influence IQOS' appeal

- Luxurious design
- Novel technology
- Lack of smoke
- Perceived reduced harm
 - Sensory similarity to cigarettes

• High cost

• Complexity



PMI is already at work to reduce entry barrier (1): Reducing complexity

- Smaller, simpler devices available outside the US
- PMTA for IQOS 3 approved in December 2020

- Personalized in-store training and customer support:
 - Q Coach (Korea)
 - IQOS QOACH (Canada)
 - IQOS Expert (US)



Need help using your IQOS? How about some tips and tricks? Just ask your IQOS QOACH - All firsttime IQOS users are eligible to enroll in the program.



PMI is already at work to reduce entry barrier (2): Price discounts

- Bundle discount: Starter kit for US\$80 + tax
 - Device + 10 packs of HeatSticks
- Coupons
- IQOS rental/home trial (Canada: CA\$35/30 days, UK: £10/14d)
- Payment installment program: "IQOS On" (Korea)





Our recommendation for policy

Multi-faceted approach to address IQOS' diverse attributes

Close industry surveillance: Marketing tactics and product innovation		
Product and marketing regulation		
High-tech appeal	Reduced harm perception	Deterrent: High cost
 Restricting promotion and branding at POS 	 Plain packaging and stronger warning labels 	 Prohibiting free or low- cost trial and sampling
• Applying warning labels also on the <i>device</i> packaging	 Education campaigns, e.g., history of tobacco industry's deceptive marketing practices 	 Prohibiting discount coupons and programs

Independent research to quickly identify another new tobacco epidemic



Regulating promotion at POS (Reducing high-tech appeal)



Vancouver, BC, Canada (Dec. 2019)

Seoul, Korea (July 2017)



Regulating storefront branding (Reducing high-tech appeal)



Vancouver, BC, Canada (Apr. 2020)

Atlanta, GA (Oct. 2019)



Plain packaging + Warning label for Tobacco Sticks



⁴⁰ Image source: Left - Money Today Korea; Picture by Minji Kim; <u>http://offsettingbehaviour.blogspot.com/2018/08/a-picture-of-conflict-of-laws.html;</u> Right – Churchill et al., 2020; <u>http://m.buynear.me/9280;</u> <u>https://yourheats.com/HEETS-Creations-c48137673</u>





Vascular endothelial function is impaired by aerosol from a single IQOS HeatStick to the same extent as by cigarette smoke

Pooneh Nabavizadeh,¹ Jiangtao Liu,¹ Christopher M Havel,² Sharina Ibrahim,³ Ronak Derakhshandeh,¹ Peyton Jacob III,^{2,4} Matthew L Springer^{1,3,4}

"IQOS use does not necessarily avoid the adverse cardiovascular effects of smoking cigarettes."



Latest health related studies of heated tobacco products

• HTP generates main and sidestream emissions of harmful chemicals

- HTP aerosols negatively affect cardiovascular function
- HTP exposure cause pulmonary inflammation similar to cigarette smoke
- Prenatal HTP exposure affects sexual maturation and testicular function
- HTP use predicts future smoking, and is not associated with smoking cessation

Relevant studies:

Bhat TA, Kalathil SG, Leigh N, et al. Acute Effects of Heated Tobacco Product (IQOS) Aerosol-Inhalation on Lung Tissue Damage and Inflammatory Changes in the Lungs. *Nicotine Tob Res.* 2020. Fried ND, Gardner JD. Heat-Not-Burn Tobacco Products: An Emerging Threat to Cardiovascular Health. *American Journal of Physiology-Heart and Circulatory Physiology.* 2020;319(6):H1234-H1239. Yoshida S, Ichinose T, Shibamoto T. Effects of Fetal Exposure to Heat-Not-Burn Tobacco on Testicular Function in Male Offspring. *Biol Pharm Bull.* 2020;43(11):1687-1692. Lee CM, Kim C-Y, Lee K, Kim S. Are Heated Tobacco Product Users Less Likely to Quit Than Cigarette Smokers? Findings from Think (Tobacco and Health in Korea) Study. *Int J Environ Res Public Health.* 2020;17(22):8622.

Luk TT, Weng X, Wu YS, et al. Association of Heated Tobacco Product Use with Smoking Cessation in Chinese Cigarette Smokers in Hong Kong: A Prospective Study. *Tob Control.* 2020:tobaccocontrol-2020-055857.

Matsuyama Y, Tabuchi T. Heated Tobacco Product Use and Combustible Cigarette Smoking Relapse/Initiation among Former/Never Smokers in Japan: The JASTIS 2019 Study with 1-Year Follow-Up. *Tob Control.* 2021:tobaccocontrol-2020-056168.

Clinical Implications

- Include heated tobacco products in screening questionnaire
- Educate patients that Reduced Exposure is not Reduced Risk
- Cardiovascular risk may not be reduced
- Interest in product switching is a cessation opportunity
- Encourage complete switching over Dual Use
- Wean to approved therapy as soon as possible



• Submit questions via the 'Ask a Question' box







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Free 1-800 QUIT NOW cards





✓ Refer your clients to cessation services





- Free CME/CEUs will be available for all eligible California providers, who joined this live activity thanks to the support of the California Tobacco Control Program (CTCP)
- For our California residents, SCLC offers regional trainings, online education opportunities, and technical assistance for behavioral health agencies, providers, and the clients they serve throughout the state of California.
- For technical assistance please contact (877) 509-3786 or <u>Jessica.Safier@ucsf.edu</u>.
- Visit <u>CABHWI.ucsf.edu</u> for more information



Post Webinar Information

- You will receive the following in our post webinar email:
 - Webinar recording
 - PDF of the presentation slides
 - Instructions on how to claim FREE CME/CEUs
 - Information on certificates of attendance
 - Other resources as needed
- All of this information will be posted to our website!



Save the Date!

SCLC's next live webinar will be on **Digital Cessation** with Michael Amato, PhD, from Truth Initiative

- Tuesday, March 23, 2021, 1-2 pm EST
- Registration will open soon!





Contact us for technical assistance

- Visit us online at **smokingcessationleadership.ucsf.edu**
- Call us toll-free at **877-509-3786**
- Copy and paste the post webinar survey link: <u>https://ucsf.co1.qualtrics.com/jfe/form/SV_3s0H81p0pBDGM1T</u> into your browser to complete the evaluation



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