



NEW YORK CITY DEPARTMENT OF

HEALTH AND MENTAL HYGIENE

Michelle Morse, MD

Acting Commissioner

September 24, 2025

Michelle Morse, MD, MPH
Acting Health Commissioner

Gotham Center
42-09 28th St.
Long Island City, NY 11101

Via Electronic Submission

<http://www.regulations.gov>

Re: Renewal of the Modified Risk Granted Orders Issued to Philip Morris Products S.A. for three types of Marlboro HeatSticks and two versions of IQOS System Holder and Charger.

To Whom It May Concern:

The New York City Department of Health and Mental Hygiene (NYC Health Department) appreciates the opportunity to provide comments to the Tobacco Products Scientific Advisory Committee (the Committee) regarding Renewal of the Modified Risk Granted Orders Issued to Philip Morris Products S.A. for Marlboro HeatSticks and IQOS System Holders and Chargers.

The NYC Health Department believes the statutory standards for granting the exposure Modification Order under section 911(g)(2) of the Federal Food, Drug, and Cosmetic Act were never met during their initial application, and the additional information and data now available, further weakens IQOS's ability to meet the required standard of protecting public health. Now that IQOS is being reintroduced into the United States (U.S.) market, the Committee and the U.S. Food and Drug Administration (FDA) have an obligation to consider newer data from worldwide studies suggesting that this designation is inappropriate. Likewise, the Committee and FDA should take into account evidence demonstrating that Philip Morris International (PMI) used the order to make unauthorized reduced risk claims in multiple other countries.¹ For example, reporting in the *Manila Bulletin*, a widely circulated English language newspaper in the Philippines, said a PMI official "explained the U.S. FDA decision has effectively differentiated IQOS from combustible cigarettes when it comes to health risk"² - which is an overt claim of reduced health harm despite the FDA's clear rejection of a reduced risk claim for IQOS. While the exposure modification order did not result in significant adoption of IQOS in the U.S., this was likely due to limited availability, given that IQOS was taken off the market in 2020 due to a patent infringement claim and only recently reintroduced in specific cities in Texas and Florida. In fact, although IQOS was not readily available in New York City (NYC), a 2019 NYC Health Department poll found that 20% of New Yorkers ages 18-24 polled had already heard of the product at that time.³

Research from parts of the world where IQOS is more readily available continue to demonstrate that caution is warranted and is outlined in further detail below. This growing body of evidence indicates that Modified Risk Granted order should not be renewed.

The availability of IQOS Does Not Promote Public Health

As the NYC Health Department has noted in previous comments regarding these products, the FDA must take into account several additional factors when evaluating the benefit to health of individuals and of the population as a whole: (1) the likelihood that existing tobacco product users will stop using them completely and switch to using IQOS; (2) the likelihood that persons who do not use tobacco products will start using IQOS; and (3) the

risks and benefits to persons from the use of IQOS compared to the use of medications approved by the FDA to treat nicotine dependence.⁴

(1) Existing Tobacco Users May Not Fully Switch to IQOS, Undermining Potential Reduced Exposure

Evidence suggests that many existing tobacco users who try IQOS will not stop using combustible tobacco products completely and will become dual users. Supporting this concern, a cohort study in Japan found that among non-smokers and former smokers, using heated tobacco products predicted increased likelihood of relapse to or initiation of combustible cigarettes one year later.⁵ Similarly, PMI data from Germany found that only half (53%) of IQOS users use IQOS exclusively, while the remainder also smoke cigarettes.⁶ Other data from PMI, following people who used IQOS during 2022 in four countries, found that more than one third of people used cigarettes in addition to IQOS and that proportion did not decrease over time in any of the country panels studied.⁷ Recent studies from the International Tobacco Control Project (ITC) at Canada's University of Waterloo found that even fewer people in Japan and Korea quit smoking when using IQOS than suggested in PMI data.⁸

Further, a 2019 NYC Health Department poll found that among New Yorkers who had heard of IQOS, 69% of those who smoke every day had tried IQOS, without giving up cigarettes.⁹ If dual use of IQOS and traditional cigarettes becomes a norm, it would likely erode any anticipated harm reduction benefits and eliminate PMI's justification for IQOS's modified risk claim.

(2) Youth and Adults Who Have Never Smoked May Start with IQOS, Especially Given IQOS Marketing in the US to Date

Heated tobacco products (HTPs) like IQOS pose more risk for youth uptake than cigarettes or other combustible tobacco products, due to their novelty, product design, and marketing (high tech, clean, lower harm, etc.), which are all similar to e-cigarettes.^{10,11,12} Like e-cigarettes, IQOS may be used by youth (and adults) who never would have smoked conventional tobacco products, leading to an overall increase in the segment of the population with a nicotine addiction.^{13,14} In fact, there is evidence from around the globe substantiating this concern. One study found that almost half (46%) of Italians who have tried IQOS products had never previously smoked cigarettes.¹⁵ In Greece, prevalence of use is highest in younger adults (21%), the majority of whom started using them before age 25, compared to adults aged 40 and above (11%).¹⁶ In Japan, while younger people are less likely to use tobacco overall, they are more likely to use HTPs than other age groups.¹⁷ A study analyzing data from 11 European countries among those ages 15 and older found that the 15–24 year-old age group was most likely to have tried HTPs, compared to other age groups.¹⁸ And in South Korea, adolescents began using HTPs at a rate three times higher than the rate at which they had previously adopted e-cigarette use.¹⁹

In NYC, among those who had heard of IQOS, nearly half (48%) of 25-44-year-olds reported having tried the product.²⁰ Although IQOS has had limited availability in the U.S., the product was launched in Atlanta in 2019. There, the product was marketed as 'clean' and 'high-tech,' and marketing included promotion of \$1 'personal IQOS trials' in stores, technical assistance, and chances to socialize with IQOS representatives.²¹ The effect of that marketing is clear: in 2020, although IQOS was not available in NYC, nearly one in five New Yorkers had heard of the product.²² The recent IQOS relaunch in Texas and Florida again offers pop-up stores, mobile units, and flagship stores featuring modern, minimalistic décor, similar to technology retailers.^{23,24} These marketing strategies position IQOS as a high-tech product, which may appeal to youth and young adults who have never used tobacco products.

(3) IQOS Is Not a Proven Cessation Device

It is not known how these devices perform relative to FDA-approved tobacco treatment medications and other evidence-based cessation approaches. A 2022 Cochrane review of 13 randomized control trials and time series studies attempting to evaluate this issue found that all studies were industry funded, that none reported on smoking cessation outcomes, and there was insufficient evidence to assess for adverse events.²⁵ In China, secondary analysis of a randomized clinical trial evaluating the effectiveness of brief advice and referral for smoking cessation found that using heated tobacco product was not associated with cigarette abstinence at 6 months in a community-based cohort of smoking adults with intentions to quit or reduce smoking.²⁶

These new analyses reveal that the use case presented by PMI—adults who smoke completely switching to IQOS to stop smoking—is not what happens in the real world. Given these findings and the dearth of data available on population level effects, the Modified Risk Granted Orders should not be renewed.

IQOS May Pose Additional Harm For the Population As a Whole, Due to Secondhand Exposures and Impacts on Smoke-Free Policies

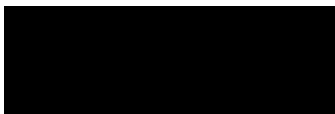
There is evidence to suggest that IQOS exposes others in the vicinity of use to the deleterious effects of secondhand and side stream toxic aerosols. A systematic review of studies analyzing IQOS emissions found that while IQOS emits lower levels of some substances compared to cigarettes, it has greater emissions of other harmful and potentially harmful constituents (HPHC), some of which are not included on the list of HPHCs considered by the FDA.²⁷ These emissions include volatile organic compounds and fine particulate matter, exposing those nearby to potentially harmful effects.^{28,29,30} In fact, a national survey in Japan found that nearly half of non-tobacco users who were exposed to secondhand aerosol from HTPs reported symptoms, including asthma attacks and chest pain.^{31,32} HTPs also produce aldehydes, nanoparticle and particulate matter³³ in quantities that negatively affect indoor air quality.^{34,35} The systematic review also found that while PMI-funded studies reported immediate returns to baseline air quality, independent studies concluded that HPHCs lingered in the air after IQOS use.³⁶

Moreover, because smoke-free air laws in many jurisdictions were drafted to cover conventional, combustible tobacco products, IQOS use is not covered by some existing smoke-free air laws. This is because many smoke-free air laws define “smoking” narrowly and require material to be burned or combusted.³⁷ A 2019 study from Japan demonstrated that heated tobacco products, like IQOS, were being used in smoke-free locations, including workplaces and restaurants.³⁸ A more recent study found that people who use HTPs were more likely to use the products in their homes (52% daily and 78% more than once a month) than people who smoked cigarettes (38% and 58%).³⁹ Such use erodes existing protections and changes norms surrounding smoke-free spaces.

Conclusion

For these reasons, and because there is insufficient evidence to indicate it has reduced harm to either individuals or at the population level, the **Modified Risk Granted Orders should not be renewed**. In addition, the FDA should provide aggressive oversight and enforcement of IQOS marketing. Thank you for allowing public comment on this critically important issue.

Sincerely,



Michelle Morse, MD, MPH
Acting Commissioner
New York City Department of
Health and Mental Hygiene

¹ American Academy of Pediatrics, American Cancer Society Cancer Action Network, American Heart Association, American Lung Association, Campaign for Tobacco-Free Kids, Truth Initiative. 2025. Letter to FDA Commissioner Brian King. Accessed August 11, 2025 from <https://www.lung.org/getmedia/6fef16ca-e9d3-423f-90ff-3bae1b0b2025/Tobacco-Partners-Letter-to-FDA-re-IQOS-6-27-24-w-exhibits.pdf>.

² Leyco CS. 2020. Philip Morris urges PH to adopt US FDA finding. Manila Bulletin. Accessed 8/12/2025 from <https://mb.com.ph/2020/9/7/philip-morris-urges-ph-to-adopt-us-fda-finding>.

³ NYC Department of Health and Mental Hygiene. (2020). *New York City Health Opinion Poll (NYC HOP) Topline Reports: Findings from HOP5*. Internal analyses.

-
- ⁴ U.S. Food and Drug Administration. (2012) Draft Guidance for Industry: Modified Risk Tobacco Products Applications. <https://www.fda.gov/downloads/TobaccoProducts/Labeling/RulesRegulationsGuidance/UCM297751.pdf>
- ⁵ Matsuyama, Y., & Tabuchi, T. (2022). 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. *Tobacco control*, 31(4), 520–526. <https://doi.org/10.1136/tobaccocontrol-2020-056168>.
- ⁶ Langer P, Almodovar J. (2020) Cross-Sectional Survey to Assess Tobacco Use Prevalence and patterns of Tobacco Product Use in the Japanese Population. Sponsored by Phillip Morris International SA.
- ⁷ Philip Morris Products SA. Data from IQOS Owner Panels of Germany, Italy, Japan, and South Korea. Included in MRTP Renewal Application retrieved from <https://www.fda.gov/tobacco-products/advertising-and-promotion/philip-morris-products-sa-modified-risk-tobacco-product-mrtp-applications>
- ⁸ American Academy of Pediatrics, American Cancer Society Cancer Action Network, American Heart Association, American Lung Association, Campaign for Tobacco-Free Kids, Truth Initiative. 2025. Letter to FDA Commissioner Brian King. Accessed August 11, 2025 from <https://www.lung.org/getmedia/6fef16ca-e9d3-423f-90ff-3bae1b0b2025/Tobacco-Partners-Letter-to-FDA-re-IQOS-6-27-24-w-exhibits.pdf>.
- ⁹ NYC Department of Health and Mental Hygiene. (2020). *New York City Health Opinion Poll (NYC HOP) Topline Reports: Findings from HOP5*. Internal analyses.
- ¹⁰ Stanford Research into the Impact of Tobacco Advertising. Collection: IQOS Retail. Accessed March 3, 2024 from <https://tobacco.stanford.edu/heats/iqos/iqos-retail/>
- ¹¹ Churchill V., Weaver S.R., Spears C.A., Huang J., Massey Z.B., Fairman R.T., Pechacek T.F., Ashley D.L., Popova L. IQOS Debut in the USA: Philip Morris International’s Heated Tobacco Device Introduced in Atlanta, Georgia. *Tob. Control*. 2020.
- ¹² Ju, H., Lee, H., Choi, J., Kim, S., & Kang, E. (2024). The online promotion strategies of e-cigarette and heated tobacco product retailers in South Korea following the COVID-19 pandemic: Implications for regulation. *Tobacco induced diseases*, 22, 10.18332/tid/178380.
- ¹³ Dutra, L. M., & Glantz, S. A. (2017). E-cigarettes and National Adolescent Cigarette Use: 2004-2014. *Pediatrics*, 139(2), e20162450. <https://doi.org/10.1542/peds.2016-2450>
- ¹⁴ Barrington-Trimis, J., Urman, R., Leventhal, A., et al., E-cigarettes, Cigarettes, and the Prevalence of Adolescent Tobacco Use, *Pediatrics*. 2016 Aug;138(2). pii: e20153983. doi: 10.1542/peds.2015-3983. Epub 2016 Jul 11
- ¹⁵ Liu X, Lugo A, Spizzichino L, Tabuchi T, Pacifici R, Gallus S. (2018) Heat-not-burn tobacco products: concerns from the Italian experience. *Tob Control*. 28(1), 113–114.
- ¹⁶ Panagiotakos, D. B., Georgoulis, M., Kapetanstradaki, M., & Behrakis, P. (2023). Prevalence, patterns, and determinants of electronic cigarette and heated tobacco product use in Greece: A cross-sectional survey. *Hellenic journal of cardiology : HJC = Hellenike kardiologike epitheorese*, 70, 10–18.
- ¹⁷ Igarashi, A., Aida, J., Kusama, T., Tabuchi, T., Tsuboya, T., Sugiyama, K., Yamamoto, T., & Osaka, K. (2021). Heated Tobacco Products Have Reached Younger or More Affluent People in Japan. *Journal of epidemiology*, 31(3), 187–193.
- ¹⁸ Gallus, S., Lugo, A., Liu, X., Borroni, E., Clancy, L., Gorini, G., Lopez, M. J., Odone, A., Przewozniak, K., Tigova, O., van den Brandt, P. A., Vardavas, C., Fernandez, E., & TackSHS Project Investigators (2022). Use and Awareness of Heated Tobacco Products in Europe. *Journal of epidemiology*, 32(3), 139–144. <https://doi.org/10.2188/jea.JE20200248>
- ¹⁹ Kang, H., & Cho, S. I. (2020). Heated tobacco product use among Korean adolescents. *Tobacco control*, 29(4), 466–468. <https://doi.org/10.1136/tobaccocontrol-2019-054949>
- ²⁰ NYC Department of Health and Mental Hygiene. (2020). *New York City Health Opinion Poll (NYC HOP) Topline Reports: Findings from HOP5*. Internal analyses.
- ²¹ Churchill V., Weaver S.R., Spears C.A., Huang J., Massey Z.B., Fairman R.T., Pechacek T.F., Ashley D.L., Popova L. IQOS Debut in the USA: Philip Morris International’s Heated Tobacco Device Introduced in Atlanta, Georgia. *Tob. Control*. 2020 doi: 10.1136/tobaccocontrol-2019-055488
- ²² New York City Department of Health and Mental Hygiene. *New York City Health Opinion Poll (NYC HOP) Topline Reports: Findings from HOP5, 2020*. Internal analyses.
- ²³ IQOS USA: Launch Tracker Posted May 3, 2025. *Tobacco Insider*. Retrieved 8/11/2025 from <https://tobaccoinsider.com/iqos-usa-launch/>
- ²⁴ Reuters. Philip Morris' heated tobacco device IQOS goes on sale in Texas. Accessed 8/12/2025 from <https://www.reuters.com/business/healthcare-pharmaceuticals/philip-morris-heated-tobacco-device-iqos-goes-sale-texas-2025-03-27/>
- ²⁵ Tattan-Birch, H., Hartmann-Boyce, J., Kock, L., Simonavicius, E., Brose, L., Jackson, S., Shahab, L., & Brown, J. (2022). Heated tobacco products for smoking cessation and reducing smoking prevalence. *The Cochrane database of systematic reviews*, 1(1), CD013790. <https://doi.org/10.1002/14651858.CD013790.pub2>
- ²⁶ Luk, T. T., Weng, X., Wu, Y. S., Chan, H. L., Lau, C. Y., Kwong, A. C., Lai, V. W., Lam, T. H., & Wang, M. P. (2020). Association of heated tobacco product use with smoking cessation in Chinese cigarette smokers in Hong Kong: a prospective study. *Tobacco control*, tobaccocontrol-2020-055857. Advance online publication.

-
- ²⁷ El-Kaassamani, M., Yen, M., Talih, S., & El-Hellani, A. (2022). Analysis of mainstream emissions, secondhand emissions and the environmental impact of IQOS waste: a systematic review on IQOS that accounts for data source. *Tobacco control*, tobaccocontrol-2021-056986.
- ²⁸ Ruprecht, A. A., et al. (2017). Environmental pollution and emission factors of electronic cigarettes, heat-not-burn tobacco products, and conventional cigarettes. *Aerosol Science and Technology*, 51(6), 674-684.
- ²⁹ Protano, C., Manigrasso, M., Avino, P., & Vitali, M. (2017). Second-hand smoke generated by combustion and electronic smoking devices used in real scenarios: Ultrafine particle pollution and age-related dose assessment. *Environment international*, 107, 190–195. <https://doi.org/10.1016/j.envint.2017.07.014>
- ³⁰ Protano, C., Manigrasso, M., Avino, P., Sernia, S., & Vitali, M. (2016). Second-hand smoke exposure generated by new electronic devices (IQOS® and e-cigs) and traditional cigarettes: submicron particle behaviour in human respiratory system. *Annali di igiene : medicina preventiva e di comunita*, 28(2), 109–112. <https://doi.org/10.7416/ai.2016.2089>
- ³¹ Tabuchi, T., Gallus, S., Shinozaki, T., Nakaya, T., Kunugita, N., & Colwell, B. (2018). Heat-not-burn tobacco product use in Japan: its prevalence, predictors and perceived symptoms from exposure to secondhand heat-not-burn tobacco aerosol. *Tobacco control*, 27(e1), e25–e33. <https://doi.org/10.1136/tobaccocontrol-2017-053947>
- ³² Imura, Y., & Tabuchi, T. (2021). Exposure to Secondhand Heated-Tobacco-Product Aerosol May Cause Similar Incidence of Asthma Attack and Chest Pain to Secondhand Cigarette Exposure: The JASTIS 2019 Study. *International journal of environmental research and public health*, 18(4), 1766. <https://doi.org/10.3390/ijerph18041766>
- ³³ Zervas, E. N., Matsouki, N. E., Tsipa, C. F., & Katsaounou, P. A. (2024). Particle emissions from heated tobacco products. *Tobacco prevention & cessation*, 10, 10.18332/tpc/185870. <https://doi.org/10.18332/tpc/185870>
- ³⁴ Yu, S. J., Kwon, M. K., Choi, W., & Son, Y. S. (2022). Preliminary study on the effect of using heat-not-burn tobacco products on indoor air quality. *Environmental research*, 212(Pt A), 113217. <https://doi.org/10.1016/j.envres.2022.113217>
- ³⁵ O'Connell G, Wilkinson P, Bursek K, Stotesbury S, Pritchard J. (2015). Heated Tobacco Products Create Side-Stream Emissions: Implications for Regulation. *J Environ Anal Chem*, 2(163), 2380-2391.10001.
- ³⁶ El-Kaassamani, M., Yen, M., Talih, S., & El-Hellani, A. (2022). Analysis of mainstream emissions, secondhand emissions and the environmental impact of IQOS waste: a systematic review on IQOS that accounts for data source. *Tobacco control*, tobaccocontrol-2021-056986.
- ³⁷ Katz M. H. (2017). No Smoke-Just Cancer-Causing Chemicals. *JAMA internal medicine*, 177(7), 1052. <https://doi.org/10.1001/jamainternmed.2017.1425>
- ³⁸ Kiyohara, K., & Tabuchi, T. (2020). Use of heated tobacco products in smoke-free locations in Japan: the JASTIS 2019 study. *Tobacco control*, tobaccocontrol-2020-055951. Advance online publication. <https://doi.org/10.1136/tobaccocontrol-2020-055951>
- ³⁹ Odani, S., & Tabuchi, T. (2024). Tobacco usage in the home: a cross-sectional analysis of heated tobacco product (HTP) use and combustible tobacco smoking in Japan, 2023. *Environmental health and preventive medicine*, 29, 11. <https://doi.org/10.1265/ehpm.23-00292><https://pubmed.ncbi.nlm.nih.gov/38447971/>