FDLI – Tobacco Products Regulation and Policy Conference

Joe Murillo Vice President, Regulatory Affairs October 27, 2017



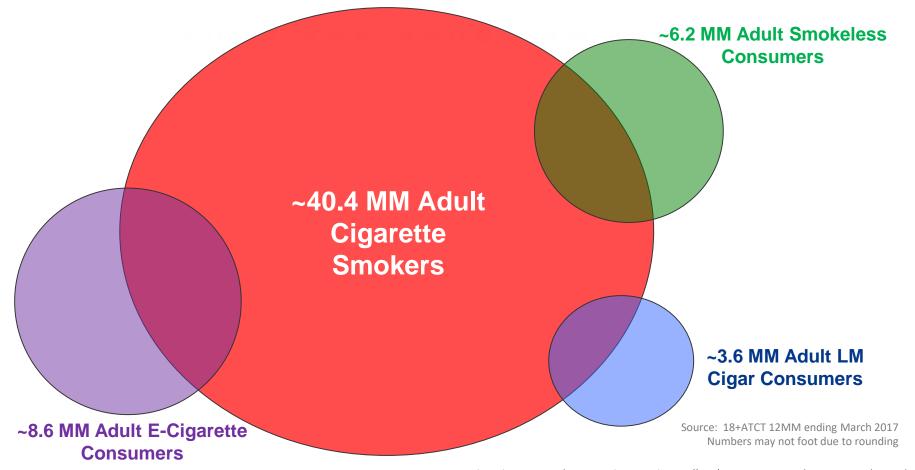
Altria



Altria's Tobacco Operating Companies



Estimated Adult Tobacco Consumers 18+ by Category



FDA's New Plan for Tobacco and Nicotine Regulation

FDA'S COMPREHENSIVE REGULATORY PLAN



- New approach places nicotine and the issue of addiction at the center of regulatory efforts
- Acknowledging that while highly addictive, nicotine is delivered through products on a continuum of risk with the most harmful delivering nicotine through smoke particles from cigarettes
- Strikes an appropriate balance between smart regulation and encouraging innovation of satisfying, less harmful products
- Continue to base all actions on regulatory and scientific foundation

August 23, 2017 | NATO

Center for Tobacco Products

Areas of Difference Between E-Cigarette Enthusiasts & Skeptics

Issue	Enthusiasts	Skeptics
Degree of risk reduction	<u>></u> 95%	Unknown; likely much <95%
Primary articulated concern	Maximizing adults quitting smoking	Minimizing risks to kids
Nature/magnitude of risks to kids	Minimal; e-cigarettes may substitute for smoking	Feared substantial: gateway to smoking; renormalization; effects on developing brain
Impact on adult quitting	Potential to help millions	May reduce quitting
Precautionary principle	Smoking toll requires support of novel products	Need to first prove (relative) safety & effectiveness
Long-term nicotine addiction	Acceptable if eliminates smoking	Not acceptable
Cigarette and e-cig companies	Open to working with them	Not to be trusted
Free market	Strongly support	Worry about "Wild West"
Scientific studies	Support/discredit	Support/discredit
Product regulation	Favor limited regulation that won't disrupt innovation	Support strong regulation to ensure safety/effectiveness
Information dissemination	Emphasize harm reduction potential for adult smokers	Emphasize risks for kids and risks of dual use for adults
Policies, e.g., vaping where smoking prohibited; flavors; taxation	Oppose location restrictions; support flavors (to assist in adult quitting); no/low tax	Support location restrictions; oppose flavors (to reduce attractiveness to kids); tax

Levy – Potential Deaths Averted in USA by Replacing Cigarettes With E-Cigarettes

Findings:

Compared with the status quo, replacement of cigarette by e-cigarette use over a 10-year period yields 6.6 million fewer premature deaths with 86.7 million fewer life years lost in the optimistic scenario. Under the pessimistic scenario, 1.6 million premature deaths are averted with 20.8 million fewer life years lost.

Potential deaths averted in USA by replacing cigarettes with e-cigarettes. Levy, D., et. al., Tobacco Control, Oct. 2, 2017, doi: 10.1136/tobaccocontrol-2017-053969

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Potential deaths averted in USA by replacing cigarettes with e-cigarettes

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 Additional material is published online only. To view please visit the inurrel online obaccocontrol-2017-053759).

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Introduction US tobacco control policies to reduce cigarette use have been effective, but their impact has been relatively slow. This study considers a strategy of switching cigarette smokers to e-cigarette use ('vaping') in the USA to accelerate tobacco control progress. Methods A Status Quo Scenario, developed to project smoking rates and health outcomes in the absence of vaping, is compared with Substitution models, whereby cigarette use is largely replaced by vaping over a 10-year mented. At the same time, emerging nicotine-deperiod. We test an Optimistic and a Pessimistic Scenario, differing in terms of the relative harms of e-cigarettes compared with cinarettes and the impact on overall initiation, cessation and switching. Projected mortality outcomes by age and sex under the Status Quo and F-Cinarette Substitution Scenarios are compared from 2016 to 2100 to determine public health impacts. Findings Compared with the Status Ouo, replacement of cigarette by e-cigarette use over a 10-year period yields 6.6 million fewer premature deaths with 86.7 million fewer life years lost in the Optimistic Scenario Under the Possimistic Scenario 1 Smillion premature deaths are averted with 20.8 million fewer life

with a 0.5 gain in average life expectancy projected for the age 15 years cohort in 2016. Conclusions. The tobacco control community has been divided regarding the role of e-cigarettes in tobacco control. Our projections show that a strategy of replacing cinarette smoking with vaning would yield substantial life year gains, even under pessimistic assumptions regarding cessation, initiation and relative harm.

vears lost. The largest gains are among younger cohorts.

Harms from cigarette smoking remain unacceptably high even though smoking prevalence in the USA has decreased markedly over the past 50 years. 12 Two of the potential health gains that could be secured three long-term smokers will likely die prematurely of a smoking-attributable disease.3-2 Although many tobacco control policies, such as higher e-cigarettes, some of the projections assume a cigarette taxes, smoke-free public places, media advertising restrictions, have already been impleaverting preventable deaths has been relatively slow and their potential to secure quick and substantial any nicotine delivery products and will prompt new smoking declines is limited.^{6,7} Accordingly, some smokers who would otherwise have quit tobacco control experts and national governments all tobacco and nicotine use to instead use e-cighave begun considering what might be done to arettes. To distinguish the effect of policies on Tob Control Published Onlin accelerate declines in tobacco-caused health harms younger and older cohorts, we present separate and eventually eliminate all tobacco consumption analyses for the cohorts age 15 years and age 35 (often termed an 'endgame'). The 2014 US Surgeon years in 2016.

General Report recommended an endgame strateg for the tobacco epidemic. Finland, New Zealand, Hong Kong and Ireland have already set the goal of reaching an endgame.

While some refer to an endgame for all tobacco most appear to focus on cigarettes as a more realistic and most important target, since they cause the vast majority of harm. 73-16 However, a credible plan to minimise cigarette use has yet to be implelivery products, such as e-cigarettes, call for an updating of traditional tobacco control strategies to better address new opportunities and threats that

Rather than focusing on policies designed exclusively to reduce cigarette use, some public health experts suggest a complementary approach to encourage the use of less harmful nicotine delivery products, such as e-cigarettes, as a substitute for cigarettes. 6.9 18-21 Some public health experts and officials fear that e-cigarette use (vaping') may increase overall tobacco-related harms by serving as a gateway to smoking or prompting smokers to vape or engage in dual use instead of quitting all use. 23-25 However, evidence is mounting that e-cigarettes deliver only a small percentage of the toxicants delivered by cigarettes. 26-32 In addition, newer exciparettes models have been shown to more efficiently deliver nicotine 39 30 33 than older models and provide sensorimotor experiences and 'throat-hit' similar to smoking,34 thus increasing their potential to serve as effective substitutes for cigarettes.

The goal of this paper is to show the potential health impact from an endgame strategy directed at replacing all or most cigarette smoking by e-cigarette use over a 10-year period. The 10-year time frame is used for illustrative purposes to show by a potent switching-based strategy. To address the major concerns about switching smokers to much smaller net reduction in health harms from switching to e-cigarette from cigarette use than nented with substantial effectiveness, their pace in strategy will increase initiation into regular vaping by youth and others who would not otherwise use

Levy DT, et al. Tob Control 2017;0:1-8. doi:10.1136/tobaccocontrol-2017-053759 Copyright Article author (or their employer) 2017. Produced by BMJ Publishing Group Ltd under licence.

Modernizing the Regulatory Framework

Regulation provides significant benefits to adult tobacco consumers:

- A common set of rules for all tobacco manufacturers
- Framework for evaluating potentially less harmful tobacco products
- Guidelines for accurate and scientifically grounded communications



Modernizing the Regulatory Framework

Regulation should also:

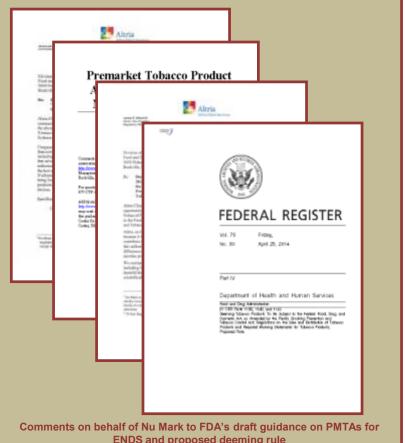
- Encourage innovation
- Provide viable pathways to get reduced harm products to market



PMTA Pathway

The PMTA Process Should be Modified

- Draft guidance for ENDS PMTA applications is unduly burdensome
- Lacks an accelerated review process
- Does not include a change management process after issuance of a market order



ENDS and proposed deeming rule

MRTP Pathway

Regulations for MRTP Applications

- Clear, reasonable and include provisions for abbreviated applications and accelerated authorizations
- Must be consistent with the First Amendment
- Facilitate truthful and accurate communications to consumers

Guidance for Industry

Modified Risk Tobacco Product Applications

DRAFT GUIDANCE

This guidance document is being distributed for comment purposes only.

Written comments and suggestions regarding this draft document may be submitted within 60 days of publication in the Federal Register of the notice announcing the availability of the draft guidance. Submit comments to the Division of Dockets Management (HFA-305), Food and Drug Administration, 5630 Fishers Lane, Room 1061, (HFA-305), Rockville, MD, 20852. Alternatively, electronic comments may be submitted to http://www.regulations.gov. All comments should be identified with the docket number listed in the notice of availability that publishes in the Federal Register.

For questions regarding this draft guidance, contact the Center for Tobacco Products at (Tel) 1-877-CTP-1373 (1-877-287-1373) Monday-Friday, 9:00 a.m. - 4:00 p.m. EDT.

Additional copies are available online at

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> U.S. Department of Health and Human Services Food and Drug Administration Center for Tobacco Products

> > March 2012