UPDATES FROM FDA'S CENTER FOR TOBACCO PRODUCTS

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October 27, 2021

CENTER FOR TOBACCO PRODUCTS



AGENDA

- Programmatic Updates
 - Latest Data on Youth E-Cigarette Use
 - Product Review: Progress on Tobacco Product Application Review
 - Compliance and Enforcement
 - Rules and Guidances
 - Public Education Campaigns
- A New Challenge: Synthetic Nicotine
- Q&A



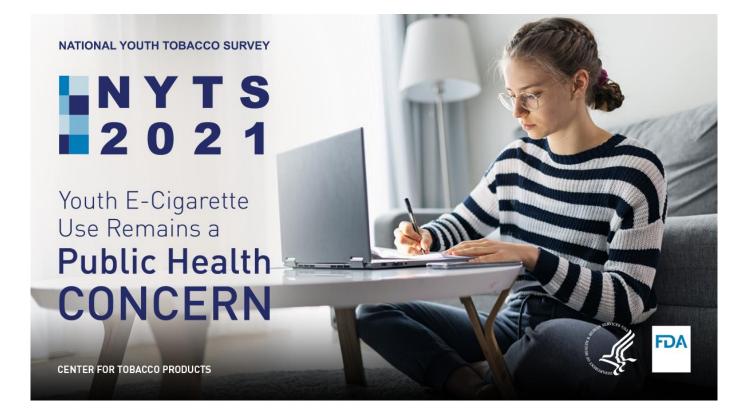
CENTER FOR TOBACCO PRODUCTS

LATEST DATA ON YOUTH E-CIGARETTE USE



2021 NATIONAL YOUTH TOBACCO SURVEY FINDINGS

On Oct. 1, FDA and CDC released findings from the **2021 National Youth Tobacco Survey** (NYTS) on e-cigarette use among middle and high school students



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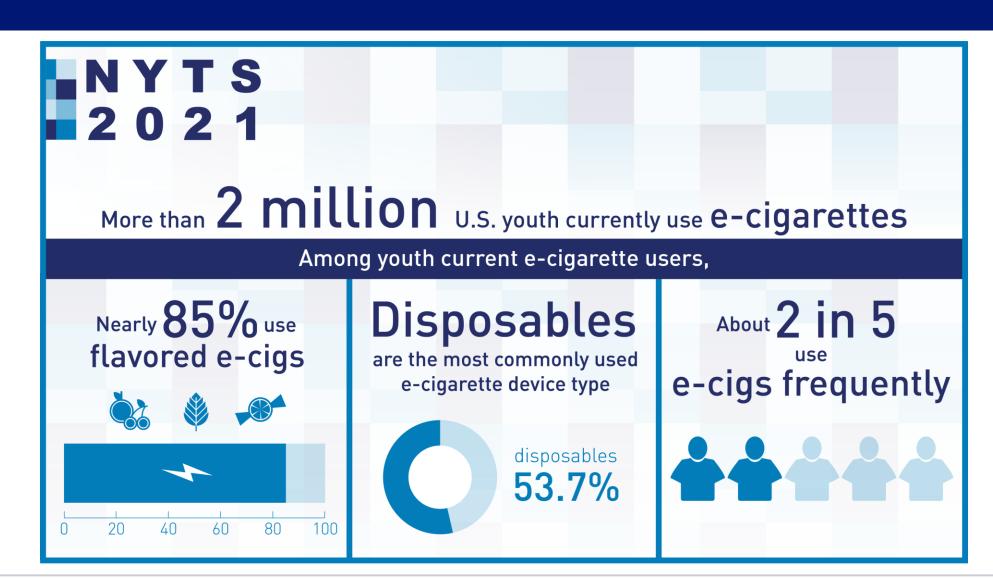
METHODOLOGICAL CHANGES DUE TO COVID-19

- This NYTS—administered Jan. 18 through May 21, 2021—was the first to be fully conducted during the COVID-19 pandemic
- Data were collected using an online survey to allow eligible students to participate in the classroom, at home, or in some other place to account for various school settings during this time
- **Different from years before the pandemic**, when the survey was conducted exclusively in the classroom at school
- Because of the changes in the way the survey was conducted this year, 2021 NYTS results cannot be compared to findings from previous surveys

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2021 NYTS KEY FINDINGS





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FLAVORED ENDS PRODUCTS AND YOUTH USE

- Our concern about youth use of e-cigarettes—especially those the data show are most appealing to, and used by, youth—remains high
- We continue to address youth use of e-cigarettes through:
 - Premarket review of tobacco product applications
 - Compliance and enforcement efforts
 - Public education campaigns

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PRODUCT REVIEW: PROGRESS ON TOBACCO PRODUCT APPLICATION REVIEW



FDA'S TOBACCO AUTHORITIES

FDA

- The Tobacco Control Act—passed in 2009—gave FDA immediate authority to regulate cigarettes, smokeless tobacco, cigarette tobacco, and roll-your-own tobacco
- When FDA's "Deeming Rule" went into effect on Aug. 8, 2016, FDA's authority expanded to cover e-cigarettes and all other electronic nicotine delivery systems (ENDS), cigars, pipe tobacco, nicotine gels, and hookah tobacco
- As a result, deemed products are now subject to the same requirements in the Tobacco Control Act that apply to cigarettes, smokeless tobacco, cigarette tobacco, and roll-yourown tobacco
 - This includes the requirement that a new tobacco product must receive premarket authorization from FDA to be legally marketed

PREMARKET APPLICATIONS



- Applications for premarket review for certain deemed new tobacco products on the market as of Aug. 8, 2016, were required to be submitted to FDA by Sept. 9, 2020
 - Per a court ruling issued Aug. 19, 2020, FDA is not enforcing this requirement for premium cigars
- FDA received applications for more than 6.5 million deemed new tobacco products, most of which were submitted very close to the Sept. 9 deadline
- Most applications were premarket tobacco product applications (PMTAs) for ENDS products, like e-cigarettes, which had never previously been through the FDA review process

REVIEW OF PMTAS

- FDA's job is to assess the applicant's scientific evidence to determine if the marketing of the tobacco product is "appropriate for the protection of the public health"
- This means we have to assess the risks and benefits to the population as a whole, including:
 - Users and nonusers of the product under review
 - Whether people who currently use any tobacco product would stop
 - Whether nonusers would start





REVIEW PROGRESS



- FDA has taken action **on more than 98% of the over 6.5 million products** in the timely submitted applications. As of Oct. 13, this includes:
 - Completing acceptance review for all applications submitted by the Sept. 9 deadline, which
 resulted in issuing refuse to accept (RTA) letters to more than 200,000 applications
 - Completing filing review for almost all timely submitted PMTAs, including issuing a refuse to file (RTF) letter to a single company for PMTAs associated with **approximately 4.5 million products**
 - Issuing Substantial Equivalence (SE) marketing orders covering more than 120 products
 - Issuing Exemption from SE marketing orders covering more than 230 products
 - Issuing marketing denial orders (MDOs) for more than 1 million non-tobacco flavored ENDS products
 - Issuing marketing granted orders for 3 new tobacco products

CONSIDERATIONS DURING REVIEW OF NON-TOBACCO FLAVORED ENDS PRODUCTS



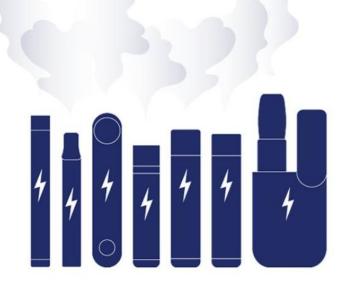
• ENDS continue to be the most used type of tobacco product among youth

- More than 80% of youth who use ENDS report using a flavored product—with fruit being the most reported flavor type overall, by school level, and across all e-cigarette devices
- Youth ENDS users are more likely to use flavored ENDS compared with adult END users
- Studies consistently show that flavors influence youth initiation of ENDS use

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CONSIDERATIONS DURING REVIEW OF NON-TOBACCO FLAVORED ENDS PRODUCTS

- Companies who want to continue to market their flavored ENDS products must have robust and reliable evidence showing that their products' potential benefit for adult smokers outweighs the significant known risk to youth
- By contrast, tobacco-flavored ENDS raise a different set of considerations because they do not pose the same degree of risk of youth uptake



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AUTHORIZATION OF ENDS PRODUCTS THROUGH THE PMTA PATHWAY

- On Oct. 12, FDA authorized the marketing of three new tobacco products, marking the first set of ENDS products ever to be authorized by FDA
- R.J. Reynolds (RJR) Vapor Company submitted data that demonstrates its tobaccoflavored products could benefit addicted adult smokers who switch to these products either completely or with a significant reduction in cigarette consumption—by reducing their exposure to harmful chemicals
- Additionally, FDA considered the risks and benefits to the population as a whole and determined the potential benefits to smokers outweigh the risk to youth
- FDA also issued 10 MDOs for RJR's flavored Vuse Solo ENDS products

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PMTA AUTHORIZATION: NEW ORAL TOBACCO PRODUCTS



- On Oct. 19, FDA authorized the marketing of four oral tobacco products manufactured by U.S. Smokeless Tobacco Company LLC (USSTC) under the brand name of VERVE®
- These are mint flavored products, containing nicotine, that are chewed and then discarded when the user is finished
- The company submitted data that demonstrates these products could benefit addicted adult smokers who switch to them—either completely or with a significant reduction in cigarette consumption—by reducing their exposure to harmful chemicals
- Additionally, research shows a low likelihood that youth, non-smokers, or former smokers would initiate or reinitiate tobacco use with these products

REMAINING PENDING APPLICATIONS



- FDA continues to work expeditiously on the remaining applications that were submitted by the court's Sept. 9, 2020, deadline, many of which are in the final stages of review
 - The agency has around 80,000 products pending that are the subject of timely submitted PMTAs
- FDA continues to review PMTAs for non-tobacco flavored ENDS to determine whether there is sufficient product-specific scientific evidence of a benefit to adult smokers to overcome the risk posed to youth
 - The scientific review of menthol ENDS raises unique considerations, and FDA is reviewing every product on a case-by-case basis with the same review standards
- FDA is also reviewing a smaller number of pending applications under the SE standard for cigars, pipes, and hookah tobacco

LEGAL CHALLENGES AND APPEALS

- As of Oct. 26, 46 cases filed for judicial review of specific MDO actions (45 pending)
- Dozens of requests for supervisory review of negative actions (under Title 21 of Code of Federal Regulations section 10.75)

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COMPLIANCE AND ENFORCEMENT



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FDA'S ENFORCEMENT PRIORITIES

FDA

- All new tobacco products on the market without the statutorily required premarket authorization are marketed unlawfully and are subject to enforcement action at FDA's discretion
- As described in FDA's enforcement guidance, we have identified flavored products that appeal to youth as enforcement priorities
- Products for which no application is pending, including, for example, those with an MDO and those for which no application was submitted, are among our highest enforcement priorities

UPDATE ON COMPLIANCE AND ENFORCEMENT

- FDA has been closely monitoring manufacturer, importer, and distributor compliance with the premarket authorization requirement
- Since Jan. 2021, FDA has issued 173 warning letters to firms that collectively have listed more than 17 million ENDS products with FDA and did not submit premarket applications for these products
- On Oct. 7, FDA issued warning letters to 22 companies for unlawfully marketing products that are subject to MDOs and/or RTF determinations on their premarket applications



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RULES AND GUIDANCES



PMTA AND SE FINAL RULES

- On Oct. 5, FDA published two final rules in the Federal Register for the premarket review of new tobacco products—and they are effective Nov. 4
- These foundational rules provide additional information on the requirements for the content, format, and review of Premarket Tobacco Product Applications (PMTAs) and Substantial Equivalence (SE) Reports
- Finalizing these rules helps ensure all future PMTAs and SE Reports contain the basic information FDA needs to determine whether the new tobacco products meet the relevant premarket requirements to efficiently and effectively implement the Tobacco Control Act





- flavored cigarettes in 2009
- These actions will help significantly reduce youth initiation, increase the chances of smoking cessation among current smokers, and address health disparities experienced by communities of color, low-income populations, and LGBTQ+ individuals

LOOKING AHEAD: PROPOSED PRODUCT STANDARDS

- In April, FDA announced it is working toward issuing proposed product standards in Spring 2022. FDA plans to:
- ban menthol as a characterizing flavor in cigarettes
- ban all characterizing flavors in cigars
- This decision is based on clear science and evidence establishing the addictiveness and harm of these products and builds on important, previous actions that banned other



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PUBLIC EDUCATION CAMPAIGNS



"THE REAL COST" YOUTH E-CIGARETTE USE PREVENTION CAMPAIGN

- Since 2017, FDA's award-winning public education campaign "The Real Cost" has been prioritizing ecigarette prevention messaging to address alarming youth vaping rates
- "The Real Cost" Youth E-Cigarette Prevention Campaign reaches youth aged 12 to 17 who have used ecigarettes or are open to trying them
- Campaign messages focus on **educating youth** that using e-cigarettes, just like cigarettes, puts them at risk for **addiction and other health consequences**



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- Since "The Real Cost" E-Cigarette Prevention effort launched, the campaign has shown effective reach and engagement results—reaching up to 85% of all teens nationwide through paid media messages
- Across social media, FDA has engaged teen audiences with more than 3.9 million likes, more than 355,000 shares, and more than 90,000 comments—with 10% of comments coming from teens asking for help and resources to quit vaping
- FDA also collaborated with the National Cancer Institute to develop vaping cessation content for teens on Teen.SmokeFree.gov
 - Since the content launched in 2019, there have been more than **2 million page views**
 - Visitors spend an average of 4 minutes per page to learn how to quit vaping, manage nicotine withdrawal, and deal with stress and anxiety



A NEW CHALLENGE: SYNTHETIC NICOTINE



A RISE IN SYNTHETIC NICOTINE

- Increasing number of ENDS products that use, or claim to use, synthetic nicotine instead of nicotine derived from tobacco
 - Includes Puff Bar, reported in the 2021 NYTS as the most popular brand among youth e-cigarette users
- To try to avoid FDA regulation and evade enforcement, several companies that received MDOs are publicly saying they are switching to synthetic nicotine to keep their products on the market



44 VaporSalon is switching to TOBACCO FREE NICOTINE on Friday, 8/27/2021. ... **F***** **the FDA** and their over-reaching over-burdensome regulations that small businesses were never ever going to be successful in completing and they knew that



KEY CHALLENGES WITH SYNTHETIC NICOTINE

- The definition of "tobacco product" includes any product made or derived from tobacco, including a component, part, or accessory of a tobacco product
- E-liquids that do not contain nicotine or other substances made or derived from tobacco may still be components or parts of tobacco products and, therefore, subject to FDA's tobacco control authorities
- FDA intends to make these determinations on a case-by-case basis, based on the totality
 of the circumstances

KEY CHALLENGES WITH SYNTHETIC NICOTINE

- It's becoming more difficult to test and differentiate tobacco-derived nicotine from synthetic nicotine
- Nicotine has two isomer forms (R- and S-nicotine)
 - Tobacco-derived nicotine is 99% S-nicotine
 - Previous synthetic nicotine formulations were 50/50 nicotine isomers
 - Newer synthetic nicotine formulations can consist of more than 99% S-nicotine
- Tobacco-derived nicotine is now readily available as higher quality U.S. pharmaceuticalgrade 99% nicotine, which no longer contains traditional tobacco agricultural markers like tobacco DNA or tobacco specific nitrosamines – making it harder to distinguish tobacco-derived nicotine from synthetic

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FDA'S REGULATORY PATH FORWARD

- FDA is very concerned about the implications of companies attempting to evade regulation by using synthetic nicotine, particularly as it regards to potential youth ENDS use
- In the short term, the agency is exploring how to best address the growing number of products where the jurisdiction is under review due to the source of nicotine
- FDA is also in discussions with Congress about a potential legislative fix







Matthew R. Holman, Ph.D., Director, Office of Science, Center for Tobacco Products

1:30 – 2:40 p.m.

- Panel coming up next after the break -

Pre-Market Tobacco Applications (PMTAs): Recent Decisions and Surveying the Post-Deadline Landscape

CONTACTING/FOLLOWING FDA'S CENTER FOR TOBACCO PRODUCTS

- Report adverse experiences with tobacco products at: <u>https://www.safetyreporting.hhs.gov</u>
- Call us: (877) CTP-1373
- Email us: AskCTP@fda.hhs.gov
- Follow us on Twitter: **@FDATOBACCO**

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