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FOOD AND DRUG ADMINISTRATION  
CENTER FOR DRUG EVALUATION AND RESEARCH

TOBACCO PRODUCTS SCIENTIFIC ADVISORY COMMITTEE  
(TPSAC)

Thursday, March 1, 2012  
1:00 p.m. to 7:00 p.m.

9200 Corporate Boulevard  
Rockville, Maryland

**This transcript has not been edited or corrected,  
but appears as received from the commercial  
transcribing service.**

1 **Meeting Roster**

2 **TPSAC Members (voting, Special Government Employee)**

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10    **TPSAC Members (*non-voting Industry Representatives*)**

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5 A.W. Spears Research Center

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9 John H. Lauterbach, Ph.D., DABT

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8     ***Ex Officio Members (non-voting)***

9     Mirjana Djordjevic, Ph.D.  
10    Program Director  
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1       **Consultants (nonvoting)**

2       Sherry Emery, M.B.A., Ph.D. (*participating by*

3       *telecom*)

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***FDA Participants at the table (non-voting)***

David L. Ashley, Ph.D.

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P R O C E E D I N G S

(12:59 p.m.)

**Call to Order**

DR. SAMET: Let's go ahead and get started with our meeting of the Tobacco Products Scientific Advisory Committee. I'm Jon Samet, chair of the Tobacco Products Scientific Advisory Committee. Thank you for joining us. I want to make a few statements, and then the committee will introduce themselves.

For topics such as those being discussed at today's meeting, there are often a variety of opinions, some of which are quite strongly held. Our goal is that today's meeting will be a fair and open forum for discussion of these issues, and that individuals can express their views without interruption. Thus, as a general reminder, individuals will be allowed to speak into the record only if recognized by the chair. We look forward to a productive meeting.

In the spirit of the Federal Advisory Committee Act and the Government in the Sunshine Act,

1 we ask that the advisory committee members take care  
2 that their conversations about the topics at hand  
3 take place in the open forum of the meeting. We are  
4 aware that members of the media are anxious to speak  
5 with the FDA about these proceedings. However, FDA  
6 will refrain from discussing the details of this  
7 meeting with the media until its conclusion.

8 Also, the committee is reminded to please  
9 refrain from discussing the meeting topics during  
10 breaks. Thank you.

11 Caryn?

12 **Conflict of Interest Statement**

13 MS. COHEN: The Food and Drug Administration  
14 is convening today's meeting of the Tobacco Products  
15 Scientific Advisory Committee under the authority of  
16 the Federal Advisory Committee Act of 1972.

17 With the exception of the industry  
18 representatives, all members and nonvoting voting  
19 members are special government employees or regular  
20 federal employees from other agencies and are subject  
21 to federal conflict of interest laws and regulations.

22 The following information on the status of

1 the committee's compliance with federal ethics and  
2 conflict of interest laws, covered by, but not  
3 limited to, those found at 18 USC Section 208 and  
4 Section 712 of the Federal Food, Drug and Cosmetic  
5 Act, is being provided to participants in today's  
6 meeting and to the public. FDA has determined that  
7 members of this committee are in compliance with  
8 federal ethics and conflict of interest laws.

9 Under 18 USC Section 208, Congress has  
10 authorized FDA to grant waivers to special government  
11 employees and regular federal employees who have  
12 potential financial conflicts when it is determined  
13 that the agency's need for a particular individual's  
14 services outweighs his or her potential financial  
15 conflict of interest.

16 Under Section 712 of the FD&C Act, Congress  
17 has authorized FDA to grant waivers to special  
18 government employees and regular federal employees  
19 with potential financial conflicts when necessary to  
20 afford the committee essential expertise.

21 Related to the discussion at today's meeting,  
22 members of this committee have been screened for

1 potential financial conflicts of interest of their  
2 own, as well as those imputed to them, including  
3 those of their spouses or minor children, and, for  
4 purposes of 18 USC Section 208, their employers.

5 These interests may include investments, consulting,  
6 expert witness testimony, contracts, grants, CRADAs,  
7 teaching, speaking, writing, patents and royalties,  
8 and primary employment.

9 Today's agenda involves the nature and impact  
10 of the use of dissolvable tobacco products on the  
11 public health, including such use among children.

12 Discussions will include such topics as the  
13 composition and characteristics of dissolvable  
14 tobacco products, product use, potential health  
15 effects, and marketing.

16 This is a particular matters meeting, during  
17 which general issues will be discussed. Based on the  
18 agenda for today's meeting and all financial  
19 interests reported by the committee members, no  
20 conflict of interest waivers have been issued in  
21 connection with this meeting.

22 To ensure transparency, we encourage all

1 committee members to disclose any public statements  
2 that they have made concerning the issues before the  
3 committee.

4 With respect to FDA's invited industry  
5 representatives, we would like to disclose that  
6 Drs. Daniel Heck and John Lauterbach and Mr. Arnold  
7 Hamm are participating in this meeting as nonvoting  
8 industry representatives acting on behalf of the  
9 interests of the tobacco manufacturing industry, the  
10 small business tobacco manufacturing industry, and  
11 tobacco growers, respectively. Their role at this  
12 meeting is to represent these industries in general  
13 and not any particular company. Dr. Heck is employed  
14 by Lorillard Tobacco Company, Dr. Lauterbach is  
15 employed by Lauterbach & Associates, LLC, and  
16 Mr. Hamm is retired.

17 FDA encourages all other participants to  
18 advise the committee of any financial relationships  
19 that they might have with the firms at issue.

20 I would like to remind everybody present to  
21 please silence your cell phones if you have not  
22 already done so. And if you are calling in, please

1 keep your phone on mute unless you are speaking. And  
2 I would also like to identify the FDA press contact,  
3 Michelle Bolek.

4 If you're here, please stand up. Thank you  
5 very much.

6 **Introduction of Committee Members**

7 DR. SAMET: Let me ask the committee to  
8 introduce themselves. Tom, we'll start with you.

9 DR. EISSENBERG: I'm Tom Eissenberg from  
10 Virginia Commonwealth University.

11 DR. CLANTON: Mark Clanton, representing  
12 pediatrics and oncology. Oh, I'm sorry. Go ahead.

13 DR. SIMONS-MORTON: I'm Bruce Simons-Morton,  
14 NICHD.

15 DR. CLANTON: I think you got me.

16 DR. PAMPEL: I'm Fred Pampel from the  
17 University of Colorado at Boulder.

18 DR. PETERS: Ellen Peters from Ohio State  
19 University.

20 DR. BALSTER: Bob Balster from Virginia  
21 Commonwealth University.

22 DR. BENOWITZ: Neal Benowitz, University of

1 California San Francisco.

2 DR. HATSUKAMI: Dorothy Hatsukami from  
3 University of Minnesota.

4 MS. BACKINGER: Cathy Backinger, Office of  
5 Science, Center for Tobacco Products. I'm sitting in  
6 for David Ashley.

7 DR. EVANS: Sarah Evans, Office of Science,  
8 Center for Tobacco Products.

9 DR. PIRARD: Sandrine Pirard, the Substance  
10 Abuse and Mental Health Services Administration.

11 DR. MCAFEE: Tim McAfee, Centers for Disease  
12 Control.

13 DR. DJORDJEVIC: Mirjana Djordjevic, National  
14 Cancer Institute, representing NIH.

15 MR. HAMM: Arnold Hamm, representing U.S.  
16 tobacco growers.

17 DR. HECK: Dan Heck with Lorillard Tobacco  
18 Company, representing the manufacturers.

19 DR. LAUTERBACH: John Lauterbach, Lauterbach  
20 & Associates, representing the small business tobacco  
21 product manufacturers.

22 DR. SAMET: Thank you.

1 Sarah?

2 DR. EMERY: This is Sherry Emery. I'm from  
3 UIC. I'm remote today.

4 **Opening Remarks - Sarah Evans**

5 DR. EVANS: Good afternoon, everyone. Good  
6 afternoon, and welcome to the third and final meeting  
7 of TPSAC on the topic of dissolvable tobacco  
8 products. I'm Sarah Evans from the Office of  
9 Science, and I'll be the lead scientist for this  
10 effort.

11 As you know, the information in these  
12 materials is not a formal dissemination of  
13 information by FDA and does not represent agency  
14 position or policy. The information is being  
15 provided to TPSAC to aid the committee in its  
16 evaluation of the issues and questions referred to  
17 the committee.

18 So right now I'm going to talk about what to  
19 expect with the report on the nature and impact of  
20 the use of dissolvable tobacco products on the public  
21 health. The language right here comes directly from  
22 the Act. In terms of referral and considerations:

1           "The Secretary shall refer to the TPSAC  
2 committee for report and recommendation under section  
3 917(c)(4) the issue of the nature and impact of the  
4 use of dissolvable tobacco products on the public  
5 health, including such use among children. In its  
6 review, the Tobacco Products Scientific Advisory  
7 Committee shall address the considerations listed in  
8 subsection (a)(3)(B)(i)."

9           Report and Recommendation: "Not later than  
10 two years after its establishment, the TPSAC shall  
11 submit to the Secretary the report and  
12 recommendations required pursuant to paragraph 1."

13           Final report: The report and recommendations  
14 will be deliberated on and finalized at the  
15 conclusion of this meeting. The report will also be  
16 made available to the public on FDA's website once it  
17 has been reviewed for redaction of any commercial  
18 confidential or trade secret information.

19           FDA actions: Once the report from TPSAC is  
20 received, FDA will consider the report and  
21 recommendations of the committee, as well as other  
22 scientific evidence concerning dissolvable tobacco

1 products, and make a determination about what  
2 actions, if any, are warranted. There is no required  
3 deadline or timeline for FDA to make such a  
4 determination. Any sale, distribution, restrictions,  
5 or product standards are implemented through notice  
6 and comment rulemaking.

7 Today's meeting, we will start, actually,  
8 with the open public hearing, and then we will have  
9 what we hope is a robust discussion of the TPSAC  
10 report summary. Finally, we will vote on the TPSAC  
11 report. And right now I'm just going to discuss for  
12 everybody or announce the questions to the committee  
13 for today's discussion.

14 Number 1. Regarding the summary of the TPSAC  
15 consideration of dissolvable tobacco products, what  
16 changes should be made to any part of the document?  
17 In particular, do you have any disagreements or  
18 concerns regarding the key findings from the evidence  
19 review? What changes would you make to this  
20 assessment of the available evidence? In particular,  
21 do you have any disagreements or concerns regarding  
22 the recommendations for further information-

1 gathering, surveillance, and research? What changes  
2 should be made to these recommendations for further  
3 information-gathering and study?

4           Number 2. The TPSAC report on dissolvable  
5 tobacco products will include the summary document as  
6 well as the background materials, transcripts,  
7 presentations, and minutes from the three TPSAC  
8 meetings on dissolvable tobacco products. Would you  
9 like to provide any clarification for or dispute any  
10 information provided to the committee or resulting  
11 from the committee process, such as meeting  
12 transcripts, that will become part of the committee  
13 report?

14           Finally, for number 3, we have our voting  
15 question today. Do you agree with the report, which  
16 consists of a summary from the committee as well as  
17 background materials, transcripts, presentations, and  
18 minutes from all three TPSAC meetings on dissolvable  
19 tobacco products?

20           With that, I'd be happy to answer any  
21 questions.

22           DR. SAMET: Are there questions for Sarah?

1 [No response.]

2 DR. SAMET: Thank you. And I think we, in  
3 going around, missed Sherry Emery on the phone.

4 Are you there?

5 [No response.]

6 DR. SAMET: All right. So we do have Sherry  
7 Emery on by telephone.

8 DR. EMERY: Oh, hello. I'm on. I'm sorry.  
9 I was muted.

10 [Laughter.]

11 DR. SAMET: You're unmuted now. Welcome, and  
12 now we know you're there.

13 DR. EMERY: Thank you.

14 DR. SAMET: And as we move along, if I'm  
15 ignoring you, unmute and get my attention. Okay?

16 DR. EMERY: I will. Thanks.

17 **Open Public Hearing**

18 DR. SAMET: All right. Thank you.

19 So we'll move on now to the open public  
20 hearing portion of the meeting.

21 Both the Food and Drug Administration, the  
22 FDA, and the public believe in a transparent process

1 for information-gathering and decision making. To  
2 ensure such transparency at the open public hearing  
3 session of the advisory committee meeting, FDA  
4 believes that it is important to understand the  
5 context of an individual's presentation.

6 For this reason, FDA encourages you, the open  
7 public hearing speaker, at the beginning of your  
8 written or oral statement to advise the committee of  
9 any financial relationship that you may have with the  
10 sponsor, its product, and, if known, its direct  
11 competitors. For example, this financial information  
12 may include the sponsor's payment of your travel,  
13 lodging, or other expenses in connection with your  
14 attendance at the meeting.

15 Likewise, FDA encourages you at the beginning  
16 of your statement to advise the committee if you do  
17 not have any such financial relationships. If you  
18 choose not to address this issue of financial  
19 relationships at the beginning of your statement, it  
20 will not preclude you from speaking.

21 The FDA and this committee place great  
22 importance on the open public hearing process. The

1 insights and comments provided can help the agency  
2 and this committee in their consideration of the  
3 issues before them.

4 That said, in many instances and for many  
5 topics there will be a variety of opinions. One of  
6 our goals today is for this open public hearing to be  
7 conducted in a fair and open way, where every  
8 participant is listened to carefully and treated with  
9 dignity, courtesy, and respect. Therefore, please  
10 speak only when recognized by the chair. Thank you  
11 for your cooperation.

12 So we have four public commenters today.  
13 You've each been allocated 10 minutes for your  
14 presentation, and you will receive a warning when you  
15 have two minutes left in your presentation. I think  
16 the lights are up on the podium for you to see. And  
17 at the end of 10 minutes, please end your  
18 presentation.

19 Our first presenter is Elaine Keller,  
20 president, the Consumer Advocates for Smokefree  
21 Alternatives Association. Please.

22 MS. KELLER: Good afternoon. My name is

1 Elaine Keller, president of CASAA, The Consumer  
2 Advocates for Smokefree Alternatives Association. I  
3 have no conflicts of interest.

4 Before I address TPSAC's draft report on  
5 dissolvables, I have a true story to share with you.  
6 During the last several years that I smoked, I was  
7 being kept awake by my own loud nighttime wheezing, I  
8 had a productive morning cough, and laughing would  
9 trigger an embarrassing coughing jag.

10 On March 27, 2009, I finally smoked my last  
11 cigarette. Within a month, the wheezing and the  
12 morning phlegm were gone. Best of all, I was able to  
13 enjoy a good belly laugh for the first time in years.

14 Now, how many of you believe that these  
15 health improvements would have happened if I had  
16 continued smoking for the last three years? Anyone?  
17 Me, neither.

18 Why didn't I stop smoking earlier? It wasn't  
19 for lack of trying. The problem is that every  
20 medically approved smoking cessation method requires  
21 complete abstinence from nicotine. When my inability  
22 to concentrate, pay attention, and remember became

1 unbearable, I would relapse. I'd try it again, only  
2 to experience defeat time after time.

3 Don't think for a moment that I'm the only  
4 victim on this wheel of misfortune. The vast  
5 majority of today's smokers will never be able to  
6 quit if nicotine abstinence is a requirement.

7 How did I finally manage to stop inhaling  
8 smoke? I switched to what was then a brand-new  
9 product called an electronic cigarette. The device  
10 vaporizes a liquid solution that contains a small  
11 amount of nicotine. Imagine my dismay when I learned  
12 the FDA wanted to ban these products.

13 I used to believe in science and in the  
14 honesty and goodwill of scientists, researchers, and  
15 doctors. In July 2009, I lost my credulity and my  
16 innocence. The FDA's Center for Drug Evaluation and  
17 Research issued a news release headlined, "FDA and  
18 Public Health Experts Warn about Electronic  
19 Cigarettes."

20 The press statements cleverly employed  
21 classic propaganda techniques with the goal of making  
22 the public believe that these products are much more

1 dangerous than smoking. "They contain carcinogens  
2 and toxic chemicals such as diethylene glycol, an  
3 ingredient used in antifreeze," announced the lead  
4 paragraph.

5 The words "carcinogens" and "antifreeze" were  
6 carefully selected, aimed at creating feelings of  
7 fear and loathing on the part of the public. CDER  
8 failed to mention that conventional tobacco  
9 cigarettes contain nearly 16,000 times higher levels  
10 of the so-called carcinogens. The FDA found  
11 1 percent DEG in a cartridge that holds half a  
12 milliliter of liquid. CDER failed to mention that  
13 even a small adult, weighing in at 50 kilos, would  
14 need to drink the contents of a thousands cartridges  
15 in a single day to reach a lethal dose.

16 Unsupported conjecture was expressed with all  
17 the conviction of proven fact by a host of experts  
18 who had no firsthand knowledge whatsoever. The goal  
19 of the campaign was to make the public believe that  
20 these products are much more dangerous than  
21 conventional combusted cigarettes. To a large  
22 extent, the campaign was effective. Smokers who had

1       been considering trying e-cigarettes announced, "Man,  
2       those things will give you cancer or poison you. I'm  
3       sticking with my smokes."

4               Numerous foreign countries banned sales of  
5       e-cigarettes based on the press coverage of the FDA's  
6       testing. Millions of smokers across the world were  
7       denied the opportunity to switch to an alternative  
8       that might have saved their bodies from further smoke  
9       damage.

10              I have seen some of the same hidden persuader  
11       techniques applied in the testimony and reports  
12       presented to this committee regarding dissolvable  
13       tobacco products. I commend the committee for  
14       looking past the hype and recognizing that  
15       dissolvable tobacco products reduce exposure to TSNAs  
16       and do not increase nicotine intake.

17              The important issue is not that some  
18       potentially harmful substances have been detected in  
19       the products. We have these in our drinking water.  
20       The issue is whether these substances are present in  
21       large enough quantities to endanger health. Are  
22       they? The peer-reviewed literature failed to reveal

1 this important information.

2           It isn't enough to say that TSNA yields of  
3 dissolvables are lower than those of cigarettes. The  
4 public should be informed that levels are more than  
5 100 times lower. If switching to snus results in the  
6 same life expectancy as becoming completely  
7 abstinent, it stands to reason that switching to a  
8 dissolvable form of tobacco could provide similar  
9 lifesaving benefits.

10           TPSAC's draft report states the 50 percent of  
11 snus users in Sweden are new tobacco users. The  
12 report needs to acknowledge that increased use of  
13 snus has lowered both the smoking rates and the total  
14 use of tobacco. In 1981, 47 percent of males used  
15 tobacco and 34 percent were smokers; 27 percent of  
16 women used tobacco, and nearly all of them smoked.  
17 The percent who were snus users grew modestly, but  
18 total tobacco use among men dropped to 31 percent and  
19 among women to 20 percent.

20           It isn't enough to state that labeling in  
21 Sweden differs from the U.S. It's important to point  
22 out that labeling in Sweden doesn't mislead tobacco

1 users into believing that switching to smoking won't  
2 increase their health risks.

3 Why is the FDA concerned that availability of  
4 products with much lower health risks than cigarettes  
5 might lead to increased use? Even if every single  
6 adult in the U.S. took up use of a tobacco product  
7 that was 90 percent less hazardous than smoking,  
8 there would be 171,000 fewer deaths from tobacco each  
9 year. But it is probably more likely that snus,  
10 e-cigarettes, and dissolvables are 99 percent less  
11 hazardous than smoking, which would save over 400,000  
12 lives every year.

13 The Institute of Medicine's 2001 report,  
14 "Clearing the Smoke," mentioned something that really  
15 should be obvious to everyone in this room. The  
16 faster you can help smokers to stop inhaling smoke,  
17 the less irreversible damage will be done to their  
18 bodies. Conventional smoking cessation methods and  
19 products are not working fast enough.

20 One tool to help smokers halt the damages is  
21 to encourage them to switch to non-smoked sources of  
22 nicotine such as snus, e-cigarettes, and dissolvable

1 tobacco products, even long-term use of NRTs. It  
2 boggles my mind that some people in tobacco control  
3 believe that if only they can discourage smokers from  
4 switching to something safer, those smokers will  
5 suddenly quit altogether.

6 This type of magical thinking is dangerous.  
7 Even if someday they do quit altogether, someday will  
8 be too late for many smokers. Let's stop insisting  
9 on the perfection of complete nicotine abstinence.  
10 It isn't working. Let's strive for the good of harm  
11 reduction. Thank you.

12 DR. SAMET: Thank you. And are there  
13 questions or comments from committee members?

14 [No response.]

15 MS. KELLER: I left them speechless.

16 DR. SAMET: Thank you.

17 We'll move to our next speaker, Bill  
18 Godshall, executive director of Smokefree  
19 Pennsylvania. Please.

20 MR. GODSHALL: I'm Bill Godshall, founder and  
21 executive director of Smokefree Pennsylvania. Since  
22 1990, we've advocated local, state, and federal

1 policies to reduce indoor tobacco smoke pollution,  
2 reduce tobacco marketing to youth, increase cigarette  
3 tax rates, hold cigarette companies accountable in  
4 civil court, and to otherwise reduce cigarette  
5 consumption. For disclosure, neither Smokefree  
6 Pennsylvania nor I have ever received any funding  
7 from any tobacco, drug, or electronic cigarette  
8 company.

9           Once again, I urge TPSAC to cite in its  
10 report the extensive and consistent evidence that  
11 smokefree tobacco products are about 99 percent less  
12 hazardous than cigarettes, that more than 99 percent  
13 of all tobacco diseases and deaths are attributable  
14 to daily inhalation of tobacco smoke, and that  
15 several million smokers in the United States have  
16 already quit smoking cigarettes by switching to  
17 smokefree alternatives.

18           It was wrong for cigarette companies to  
19 mislead the public about the risks of cigarettes for  
20 decades, but it is far worse when public health  
21 agencies deceive the public about the comparable  
22 health risks of cigarettes and noncombustible tobacco

1 products.

2           Ever since Congress mandated the three  
3 inaccurate and misleading warning labels on all  
4 smokeless tobacco products in 1986, federal health  
5 agencies have been committing public health  
6 malpractice by deceiving the public to believe that  
7 smokeless tobacco products are just as hazardous as  
8 cigarettes and by discouraging smokers from switching  
9 to far less hazardous smokefree alternatives.

10           Until recently, however, federal health  
11 agencies correctly stated that cigarette smoking is  
12 the leading cause of disease and death.

13 Unfortunately, during the past several years, federal  
14 health agencies have begun to claim that tobacco use  
15 is the leading cause of disease and death in another  
16 deceitful attempt to confuse smokers and the public  
17 to believe that all tobacco products are as hazardous  
18 as cigarettes. Federal health agencies also have  
19 begun to falsely claim that the cigarette epidemic is  
20 a tobacco use epidemic to further deceive the public.

21           Last year, the FDA falsely stated on its  
22 modified risk tobacco product web page, entitled

1 Health Fraud, that, "No tobacco products have been  
2 scientifically proven to reduce risk of tobacco-  
3 related disease, improve safety, or cause less harm  
4 than other tobacco products." That is a lie.

5 Since 2009, the FDA has misrepresented its  
6 own laboratory test findings on electronic cigarettes  
7 to scare the public and falsely claim the products  
8 were target marketed to youth. These and other false  
9 and misleading health claims are still on FDA's  
10 website.

11 Smokers have a human right to be truthfully  
12 informed that smokefree products are far less  
13 hazardous alternatives to cigarettes. Consistently,  
14 health agencies, organizations, and professionals  
15 have an ethical duty to truthfully inform smokers  
16 that smokefree products are far less hazardous than  
17 cigarettes.

18 The good news is that during the past decade,  
19 in the United States cigarette consumption declined  
20 32 percent, including a 20 percent decline in just  
21 the past three years. Meanwhile, moist snuff  
22 consumption increased 54 percent the past decade,

1 with adult smokers accounting for the majority of new  
2 snuff users.

3           During the past five years, snus consumption  
4 has increased by double digits annually, with adult  
5 smokers accounting for most new snus users. And  
6 e-cigarette consumption has experienced triple-digit  
7 annual increases, with adult smokers accounting for  
8 virtually all e-cigarette users.

9           In the past decade, smokefree tobacco  
10 products have increased from 10 percent to 20 percent  
11 of total tobacco consumption in the U.S. My goal is  
12 to get it to 50 percent.

13           Since several million smokers in the U.S.  
14 have already switched to smokefree tobacco  
15 alternatives, it's mathematically impossible for  
16 smokefree products to increase tobacco-attributable  
17 mortality, even if every single American began using  
18 a dissolvable and/or other smokefree tobacco product.

19           A 2010 national survey on drug use and health  
20 found that nearly 70 million Americans reported using  
21 a tobacco product in the past month, including  
22 58 million cigarette smokers, 13 million cigar

1 smokers, 9 million smokeless tobacco users, and  
2 2 million pipe smokers. And a recent CDC survey just  
3 found that 2.7 million Americans had used an  
4 e-cigarette in the past month.

5 But only half of the nation's 70 million  
6 tobacco users -- that is, the 33 million daily  
7 cigarette smokers -- will suffer the overwhelming  
8 majority of tobacco diseases and deaths. That is why  
9 the only effective way to reduce tobacco disease and  
10 death is to continue reducing daily cigarette smoking  
11 and cigarette consumption.

12 In contrast, tobacco mortality reductions  
13 will be negligible, even with huge declines in the  
14 number of smokefree tobacco users, cigar smokers, and  
15 even non-daily cigarette smokers, which now account  
16 for 30 percent of all cigarette smokers.

17 Dual usage of cigarettes and smokefree  
18 tobacco products is a necessary prerequisite for  
19 smokers to switch to less hazardous smokefree  
20 alternatives, and dual use can occur for weeks,  
21 months, or years. While complete cessation from  
22 cigarettes provides the most health benefits, smokers

1 who don't quit smoking but instead substitute  
2 smokefree alternatives for many or most cigarettes  
3 also reduce their health risks.

4           Smokeless tobacco opponents have long claimed  
5 that smokeless tobacco is a gateway to cigarettes,  
6 but survey data has consistently found the exact  
7 opposite. In September, SAMHSA released the most  
8 comprehensive assessment to date, and found that two-  
9 thirds of U.S. residents who had reported using both  
10 cigarettes and smokeless tobacco in their lifetime  
11 had used cigarettes prior to using smokeless tobacco,  
12 and that fewer than one-third had used smokeless  
13 tobacco prior to using cigarettes.

14           Since surveys have consistently found that  
15 more than 75 percent of Americans inaccurately  
16 believe that smokeless tobacco is as hazardous as  
17 cigarettes, the most cost-effective way, actually  
18 free way, to reduce the number of smokeless tobacco  
19 users who switch to cigarettes is for health  
20 agencies, organizations, and professionals to begin  
21 truthfully informing the public that smokeless  
22 tobacco products are far less hazardous.

1           For more good news, according to the  
2 Monitoring the Future survey, during the past  
3 15 years cigarette smoking has declined by 75 percent  
4 among 8th graders, by 67 percent among 10th graders,  
5 and by 50 percent among 12th graders.

6           The Monitoring the Future survey also found  
7 declines in smokeless tobacco use among youth during  
8 that time, while the 2010 National Survey on Drug Use  
9 and Health found that the past month use of  
10 cigarettes, cigars, smokeless tobacco, and pipe  
11 tobacco among youth between the ages of 12 and 17  
12 have all declined between 2007 and 2010.

13           Illegal tobacco sales to minors have also  
14 declined dramatically in this country, as the Food  
15 and Drug Administration's recent inspections found  
16 just 4 percent of retail stores willing to illegally  
17 sell to a minor. And that is a huge reduction from  
18 the 50 percent sales rates that we were finding  
19 25 years ago when we urged Congress to pass the Synar  
20 Act, and 18 years ago when we convinced  
21 then-Commissioner David Kessler to include what is  
22 now called the 1996 rule to assert jurisdiction over

1 that, which requires compliance inspections.

2 In regards to the committee's draft summary  
3 report on dissolvables, I recommend eliminating  
4 Figure 1 because no evidence was presented indicating  
5 that dissolvables cause disease or death, cause  
6 nicotine addiction, reduce the likelihood of smoking  
7 cessation, or are a gateway to far more hazardous  
8 cigarettes.

9 In sharp contrast to Figure 1, the evidence  
10 indicates that all smokefree tobacco products are far  
11 less hazardous than cigarettes, that most new  
12 dissolvable tobacco users are adult smokers, and that  
13 smokers are far more interested in trying  
14 dissolvables than are non-tobacco users.

15 Mark Wolfson's survey on college students  
16 found that smokers were 13 times more interested in  
17 trying to use a dissolvable than were non-tobacco  
18 users, and less than 1 percent of all non-tobacco  
19 users indicated any interest in using any of the  
20 smokefree tobacco products.

21 In the Peer-Reviewed Literature section of  
22 the draft summary, the proposed statement claiming,

1 "One study showed that Ariva was perceived as being a  
2 non-tobacco product" should either be eliminated or  
3 be changed to state that one study found that Ariva  
4 tasted better than Commit lozenge. The proposed  
5 statement that, "Consumers have not responded  
6 positively to current products" should be deleted  
7 because it is inconsistent with actual consumer  
8 purchasing behavior.

9 All references in the draft summary to the  
10 Indiana experience and to the Y-Street presentations  
11 should be eliminated because deceptive propaganda  
12 campaigns that demonize products cannot be considered  
13 objective scientific evidence. Y-Street's push poll  
14 only found that some youth can be manipulated to  
15 agree that some tobacco products look like candy, and  
16 that they might be willing to try to use the product,  
17 only after being shown photographs of never-before-  
18 seen tobacco products that were strategically placed  
19 beside selectively chosen and easily recognizable  
20 candy products.

21 Y-Street also found that some adults can be  
22 deceived to believe that the push poll is scientific

1 evidence. Although it would have received an F in  
2 any basic research methods course, its authors were  
3 invited by FDA to present their findings to this  
4 committee, and several TPSAC members couldn't even  
5 recognize the built-in bias of the so-called survey  
6 even after I repeatedly informed them. Besides, it  
7 is unethical for anyone, especially health agencies,  
8 to deceive youth into believing that tobacco products  
9 are candy, as doing so only encourages youth to use  
10 the products.

11 I also urge the committee's report to  
12 recommend eliminating three mandatory warning labels  
13 on smokeless tobacco products, at least for the  
14 dissolvables. There is no evidence that dissolvables  
15 have ever caused mouth cancer, tooth loss, or gum  
16 disease, and by claiming it is a not-safe alternative  
17 only discourages and confuses people to believe they  
18 are just as hazardous as cigarettes.

19 Thank you very much. I'll be happy to answer  
20 any questions.

21 DR. SAMET: Thank you.

22 Questions or comments?

1 [No response.]

2 DR. SAMET: Sherry, just not to forget you?

3 [No response.]

4 DR. SAMET: Thank you. We'll move on to our  
5 next commenter, Dr. Michael Ogden, senior director of  
6 regulatory oversight, R.J. Reynolds Tobacco Company.

7 DR. OGDEN: Thank you, Mr. Chairman.

8 Good afternoon, ladies and gentlemen.

9 Reynolds appreciates the work done by the TPSAC  
10 during their review on the nature and impact of the  
11 use of dissolvable tobacco products on the public  
12 health. While we agree with a number of the draft  
13 summary report conclusions, we also believe there are  
14 a number of findings that merit further consideration  
15 and comment.

16 First and foremost, though, we do agree with  
17 the finding that dissolvable tobacco products are  
18 likely to be associated with far lower disease risks  
19 than cigarettes. RJR strongly believes that the  
20 disease risks associated with smokeless tobacco use  
21 have been demonstrated to be substantially lower than  
22 those for cigarette smoking, and that the risks for

1       dissolvable tobacco would also be lower. This is  
2       consistent with findings from TPSAC's draft summary  
3       report.

4               The evidence for these types of noncombusted  
5       tobacco products must be viewed as unequivocal, as  
6       detailed in RJR's citizen petition to FDA requesting  
7       that one of the warning labels required for smokeless  
8       tobacco products be amended from "Warning: This  
9       product is not a safe alternative to cigarettes," to  
10      "Warning: No tobacco product is safe, but this  
11      product presents substantially lower risks to health  
12      than cigarettes."

13              Unfortunately, TPSAC's second draft summary  
14      report now includes a new statement that continues to  
15      perpetuate the half-truth of the currently mandated  
16      warning statement. It says, "No tobacco product is  
17      safe, and DTPs are not a safe alternative to  
18      conventional smoking products." We strongly urge  
19      TPSAC to reconsider this proposed new statement in  
20      the report and align it more correctly with the  
21      evidence that clearly shows regarding smokeless  
22      tobacco products in general.

1 Support for this request, which again is  
2 summarized in RJR's citizen petition, includes  
3 findings from more than 100 epidemiology studies  
4 demonstrating that the use of smokeless tobacco is  
5 associated with substantially less risk for disease  
6 compared to cigarette smoking, and that for nearly  
7 all smoking-attributable diseases, the associated  
8 risks are not significantly increased compared to  
9 never tobacco users.

10 For example, among the 14 appropriately  
11 controlled U.S. studies conducted since 1990 that  
12 examine oral cancer risk among smokeless tobacco  
13 users, not a single study indicates an increased risk  
14 for oral cancer compared to never tobacco users.  
15 Moreover, smokeless tobacco use is not associated  
16 with an increased risk for developing lung cancer,  
17 respiratory disease, or heart disease.

18 RJR agrees with opinions expressed during the  
19 open public hearing and the public submissions that  
20 government agencies, including TPSAC and FDA, should  
21 be more proactive in educating the public on the  
22 comparative disease risks associated with the various

1 tobacco product categories; that is to say, the  
2 pronounced continuum of risk from those products  
3 associated with the greatest risk for disease,  
4 cigarettes, to those associated with the least risk,  
5 smokeless tobacco products, including dissolvable  
6 tobacco products, without combining all tobacco  
7 products into a single category of equal risk.

8 RJR respectfully disagreed with TPSAC's  
9 narrow consideration in the first draft summary  
10 report of whether the Swedish experience is  
11 generalizable to the U.S., as summarized. To TPSAC's  
12 credit, that position has been moderated slightly,  
13 and more appropriate statements now appear in the  
14 second draft summary.

15 The Swedish experience should be viewed as an  
16 example of what is possible if smokers switching to  
17 using a tobacco product associated with significant  
18 less risk for disease do so in significant numbers.  
19 Such a change in tobacco use behavior would provide  
20 substantial individual and population-level benefits  
21 regardless of the unique characteristics of that  
22 population.

1           TPSAC members were provided data on the  
2 Swedish experience, suggesting that both daily  
3 smoking and daily snus use among males age 16 to 24  
4 years have declined during the past data. While  
5 those data were intended to suggest that product  
6 substitution was not occurring among Swedish males,  
7 these data instead indicate that younger males are  
8 initiating cigarette smoking, snus use, and total  
9 tobacco use at declining rates, which in turn  
10 represents a significant population-level benefit.

11           TPSAC members heard evidence that the Swedes  
12 are well-informed with regard to the lower disease  
13 risks associated with smokeless tobacco compared to  
14 smoking, which in turn likely impacts their tobacco  
15 use behavior.

16           To be clear, peer-reviewed studies from  
17 Sweden have consistently demonstrated that during the  
18 last decade, daily smoking among males aged 16 to  
19 84 years has decreased by about 50 percent as daily  
20 snus used has increased by about 50 percent. This  
21 product switching or substitution has, for example,  
22 led to significant reductions in lung cancer

1 mortality to the lowest levels of any developed  
2 nation.

3 The TPSAC initial draft summary report made  
4 two notably incorrect statements: one, that females  
5 are more likely to use snus and continue to smoke,  
6 and two, that complete substitution of snus for  
7 cigarettes is needed to achieve health benefits.

8 The first statement has been appropriately  
9 corrected in the second draft, as there is no  
10 evidence in Sweden that females are more likely than  
11 males to be dual users of snus and cigarettes. The  
12 second statement has been moderated in the current  
13 draft report, but we believe warrants additional  
14 clarification.

15 While complete substitution of cigarette  
16 smoking with snus use would provide a maximum benefit  
17 in terms of both individual disease risk and  
18 population-level harm, decades of epidemiologic  
19 research has demonstrated that disease risk is  
20 influenced significantly by cigarettes per day and  
21 years of smoking. In fact, corresponding dose  
22 responses have served as a primary basis for

1 establishing causality.

2 For example, data from the 1989 U.S. Surgeon  
3 General's report indicates that lung cancer mortality  
4 ratios for both male and female cigarette smokers  
5 increase in a dose-dependent manner based on number  
6 of cigarettes smoked per day. The suggestion in the  
7 draft report that 50 percent are new tobacco users  
8 requires additional qualification.

9 The psychological and social risk factors for  
10 initiating tobacco use are well-established; for  
11 example, family peer group tobacco use, poor academic  
12 performance, risk-taking behavior in general,  
13 et cetera. And a small proportion of never tobacco  
14 users will be at an increased risk for initiating  
15 tobacco use each year. However, Swedish studies  
16 consistently demonstrate that young males who are at  
17 increased risk for initiating tobacco use are  
18 preferentially choosing to use snus instead of  
19 cigarettes, and that those who initiate snus use are  
20 significantly less likely to become, ever, cigarette  
21 smokers.

22 This change in behavior represents a

1 population-level benefit that has resulted in Sweden  
2 being the only country whereby the male smoking  
3 prevalence is substantially lower than that for  
4 females.

5 Ultimately, TPSAC concluded that dissolvable  
6 tobacco products are not having a meaningful effect  
7 on any of the potential mechanisms that could impact  
8 public health, as specified by the proposed  
9 conceptual framework.

10 While we agree that there is currently  
11 insufficient epidemiologic data specific to  
12 dissolvable tobacco use to support unqualified  
13 conclusions, Reynolds would argue that there is  
14 sufficient evidence for the category of smokeless  
15 tobacco products to indicate that increased use of  
16 dissolvable tobacco is more likely than not to  
17 decrease population-level harm.

18 The disease risks associated with smokeless  
19 tobacco use are, at a minimum, significantly reduced  
20 compared to cigarette smoking, with sufficient  
21 evidence to indicate that the associated risks are  
22 unlikely to be significantly increased compared to

1 never tobacco use.

2 RJR believes that dissolvable tobacco  
3 products present the same or lesser risks. Thus,  
4 public health concerns regarding these products are  
5 effectively narrowed to the potential for dual use,  
6 to increase tobacco consumption and/or decrease  
7 smoking cessation, and the potential for these  
8 products to increase smoking initiation.

9 Even if the data from a substantial number of  
10 Swedish studies, which consistently demonstrates no  
11 adverse population-level effects associated with  
12 increased smokeless use, are not considered, the  
13 industry has identified a sufficient number of U.S.  
14 studies -- has identified a number of these studies  
15 that indicate that dual use of smokeless tobacco and  
16 cigarettes is not associated with increased cigarette  
17 consumption or decreased smoking cessation. To the  
18 contrary, dual use would appear to instead be  
19 associated with reduced cigarette consumption and  
20 increased cessation of smoking.

21 Thank you very much.

22 DR. SAMET: Thank you. Just as a comment or

1 perhaps a clarification, there's not really a first  
2 draft and a second draft. There was a draft created  
3 for discussion, and then individual commenters have  
4 provided their -- so there's not been any group  
5 process leading from a first draft to a second draft.

6 DR. OGDEN: Fair enough.

7 DR. SAMET: I just want to make that  
8 clarification.

9 Questions or comments from the committee?

10 [No response.]

11 DR. OGDEN: Thank you.

12 DR. SAMET: Thank you.

13 Our next presenter is James Dillard from  
14 Altria Client Services.

15 MR. DILLARD: Good afternoon, Dr. Samet.  
16 Thank you. And good afternoon to the advisory panel.  
17 Welcome to the end of your journey on dissolvables.  
18 My name is Jim Dillard. I'm senior vice president  
19 for regulatory affairs at Altria Client Services, and  
20 I'm here today on behalf of Phillip Morris USA and  
21 U.S. Smokeless Tobacco Company.

22 We've been actively engaged with both the FDA

1 and the TPSAC on the issue of dissolvable tobacco  
2 products, including submitting comments to the docket  
3 and making presentations during both public and the  
4 closed session at some of the earlier TPSAC meetings.  
5 And as you, the TPSAC, finish your work relating to  
6 the dissolvable tobacco products, I'd like to make  
7 just a few brief points relating to the draft report.

8 First, we too, as the last speaker mentioned,  
9 are encouraged that the draft acknowledges that  
10 available evidence supports the conclusion that  
11 dissolvable tobacco products are likely to be  
12 associated with far lower disease risk than  
13 cigarettes. We believe that dissolvable tobacco  
14 products can play a role in reducing the harm from  
15 cigarette smoking.

16 We want to be clear. A harm reduction  
17 strategy must compliment, and not compete with,  
18 proven strategies to discourage initiation and  
19 promote cessation. Everyone must stay focused on  
20 these core strategies to reduce tobacco-related harm.

21 We also recognize that despite focused  
22 efforts to discourage initiation and promote

1 cessation, many adults will continue to use tobacco  
2 products. In fact, you heard from some of those  
3 adult consumers during the public comment period at  
4 the January TPSAC meeting.

5 Our research tells us that about 30 percent  
6 of adult smokers are interested in smokeless  
7 alternatives to cigarettes. For these adult smokers,  
8 products that are lower on the continuum of risk  
9 should be made available, with the goal of reducing  
10 tobacco-related morbidity and mortality.

11 Second, TPSAC's draft report correctly  
12 acknowledges the importance of how communication to  
13 adult tobacco consumers can impact use patterns for  
14 dissolvable tobacco products. We believe that adult  
15 tobacco consumers have the right to receive, and  
16 manufacturers have a right to communicate, complete,  
17 accurate, and non-misleading information about  
18 tobacco products, including dissolvable tobacco  
19 products. This includes information that certain  
20 tobacco products are associated with reduced risk of  
21 disease compared to other tobacco products.

22 Such communications are important because

1 studies show that the vast majority of smokers  
2 continue to believe that smokeless tobacco is as  
3 harmful as cigarette smoking. For example, a 2005  
4 survey by O'Connor et al. of over 2,000 adult U.S.  
5 smokers found that only 10.7 percent correctly agreed  
6 that smokeless tobacco products are less hazardous  
7 than cigarettes, while 89.2 percent disagreed, and  
8 6.4 percent didn't know.

9 More recently, Reagan et al. published the  
10 results of the 2009 general population survey of  
11 awareness and beliefs about tobacco use. Among  
12 respondents aware of snus, 49.9 percent thought that  
13 snus was as harmful as cigarettes, 8.3 percent  
14 thought that snus was more harmful than cigarettes,  
15 and only 4.5 percent thought that snus was less  
16 harmful than cigarettes.

17 Generally, similar findings were observed for  
18 dissolvable tobacco products. Among respondents  
19 aware of dissolvable tobacco products, 6.6 percent  
20 thought they were more harmful than cigarettes,  
21 39.2 percent thought they were as harmful as  
22 cigarettes, and only 3.8 percent thought dissolvable

1 tobacco products were less harmful than cigarettes.  
2 And a large proportion, 50.3, were unsure.

3 Complete, accurate, and non-misleading  
4 communications about dissolvable tobacco products  
5 should be a priority for both the FDA and  
6 manufacturers.

7 My third point relates to TPSAC's discussion  
8 of what it calls mixed-use patterns involving  
9 multiple tobacco products, including dissolvable  
10 tobacco products. As we've shared previously,  
11 cigarette smoking is the most hazardous type of  
12 tobacco use. That harm can be reduced from greatest  
13 impact to least impact by not smoking, decreasing the  
14 number of years smoked, decreasing the number of  
15 cigarettes per day, and finally, decreasing smoke  
16 exposure per day.

17 As FDA studies the issue of so-called  
18 mixed-use patterns, I'd like to remind TPSAC and FDA  
19 about a September 2010 paper by scientists in our  
20 company, Altria, published in the Nicotine and  
21 Tobacco Research, entitled, "Does Dual Use Jeopardize  
22 the Potential Role of Smokeless Tobacco in Harm

1 Reduction?"

2 In that article, we reviewed the available  
3 literature on health effects and trajectories of use  
4 among dual users from a variety of U.S. and European  
5 epidemiologic studies. The data suggested that there  
6 are not any unique health risks associated with the  
7 dual use of smokeless tobacco and cigarettes, which  
8 are now anticipated from smoking cigarettes alone.

9 Further, studies show that dual users smoked  
10 fewer cigarettes than exclusive smokers, and studies  
11 of tobacco use patterns over time indicate that dual  
12 users are more likely than exclusive cigarette  
13 smokers to cease smoking. We urge the FDA to review  
14 this information as it considers the issues  
15 surrounding so-called mixed use.

16 My final point was going to be about the  
17 Swedish experience, but I think the previous speaker  
18 did a nice job and raised the same points that we  
19 would and wanted to raise. So in the interest of  
20 expediency, I'll end there. And I appreciate the  
21 opportunity to address you today, and would take any  
22 questions.

1 DR. SAMET: Thank you.

2 Questions or comments? Tim?

3 DR. MCAFEE: Thank you very much. I just  
4 have a very quick question.

5 Given that you've acknowledged that a lot of  
6 this will boil down to a couple of issues relating to  
7 initiation and dual use patterns, cessation,  
8 et cetera, one possibility, it seems, would be that  
9 there's not some immutable characteristic of these,  
10 the physical elements of these products, that would  
11 make it so that they would or would not do some of  
12 these things. And some of this is going to relate  
13 to, functionally, how they are marketed, promoted,  
14 et cetera.

15 Is Altria willing to engage in further  
16 efforts to ensure that anything that might happen  
17 around the messaging, the regulation of dissolvables  
18 or other similar products, where there would be  
19 restrictions and/or specific elements around the  
20 messaging, to make absolutely crystal clear not just  
21 that people understood the issues associated with  
22 individual use if they only used that product, but

1 they understood the more nuanced issues associated  
2 with how this may impact their likelihood of quitting  
3 or starting, et cetera?

4 MR. DILLARD: Dr. McAfee, I think that's  
5 getting to a larger question, which is, I think,  
6 claims and modified risk tobacco products.  
7 Certainly, if a manufacturer were to make a claim  
8 about a product -- and I think that would be in any  
9 sense an engagement that, by statute, we have to have  
10 with both the agency and likely with this TPSAC. So  
11 I think it includes all the things that you listed,  
12 and probably others as well.

13 DR. SAMET: Other -- yes, Mark?

14 DR. CLANTON: Mr. Dillard, forgive me for  
15 having my back to you, but I'll turn around in a  
16 second. As a segue to that question, it seems in  
17 some of the presentations there was a desire -- I'll  
18 characterize it as a desire -- to have FDA educate  
19 the public to statements about potential safety or  
20 improved marginal safety of these dissolvable tobacco  
21 products.

22 Is there an intention, or do you have any

1 knowledge, that various members of the industry are  
2 planning to actually submit claims of lesser harm or  
3 greater health to the FDA? Because I don't think  
4 we've seen that yet.

5 MR. DILLARD: At least from my perspective,  
6 that would be something that would be competitively  
7 sensitive on any activity that we have. But I could  
8 just in general say I'm sure the industry is looking  
9 very closely at this. We're very well aware that the  
10 modified risk tobacco product guidance document will  
11 be coming probably in April, and we're awaiting that  
12 anxiously.

13 DR. CLANTON: Thank you.

14 DR. SAMET: Any others? Sherry? Just to  
15 make sure we don't forget you.

16 [No response.]

17 **Committee Discussion**

18 DR. SAMET: Thank you.

19 The open public hearing portion of this  
20 meeting has now concluded, and we will no longer take  
21 comments from our audience. The committee will now  
22 turn its attention to address the task at hand, the

1 careful consideration of the data before the  
2 committee, as well as the public comments. So thank  
3 you for your comments.

4 Now, I think just to reorient ourselves to  
5 the task, I want to go back to the slides that Sarah  
6 showed us. The first, I think, two or so essentially  
7 said, discuss the report. And that's what our job  
8 is. And then we do end with a voting question.

9 So what changes should be made to any part of  
10 the document was the first. And the second, do you  
11 have any disagreements or concerns? You might even  
12 have some agreements, perhaps.

13 Let's see. What comes next here? And again,  
14 my reading of this is we need to have a full and open  
15 discussion of the draft. And I think -- is the next  
16 one our voting question? Yes. And then we end with  
17 a voting question about the report.

18 I want to remind you that what was written  
19 was a summary of our discussions and a distillation  
20 of where I thought we were at the end of our January  
21 meeting, that this report, as modified based on  
22 discussions at this meeting, along with a larger set

1 of materials, including the transcripts, the  
2 presentation materials, other materials gathered on  
3 dissolvables, will constitute the report.

4 Some of you may have seen on the website that  
5 there is a compilation of what we have heard at our  
6 prior two meetings and the materials submitted to  
7 TPSAC. So I just want to show you that, in fact,  
8 there's been fairly substantial material that has  
9 both been found by FDA through literature searches,  
10 presented by various parties in both our open and  
11 closed sessions. And if we can pull that up, we  
12 will; and otherwise, I will tell you that it's a long  
13 list.

14 [Pause.]

15 DR. SAMET: So really, as a reminder, this is  
16 a compilation of the materials from the various  
17 sessions. And I think you can just thumb down  
18 through this. There's the July materials, and  
19 continuing on to January.

20 So we've seen a lot. And again, this set of  
21 materials is part of the report on dissolvables. So  
22 this, of course, fortunately is different in form

1 from the menthol report, for those of you who are  
2 menthol report survivors.

3           So our job today is to go through the draft.  
4 As you remember, I "volunteered" at the end of our  
5 last meeting to write a summary that I thought  
6 captured our discussions as we had put them together,  
7 particularly on the last day of the January meeting.  
8 You have in your folder the document that contains  
9 that report, with editorial comments as well  
10 as -- editorial changes as well as comments.

11           So what we need to do is to move through this  
12 and reach a document that the voting members will be  
13 able to vote on. And that is the goal for the  
14 meeting. I'll just remind you that once that is  
15 done, we actually get to go home. So just keep that  
16 in mind as you think about how much time you want to  
17 spend on the details.

18           I think what we don't need to do here is  
19 wordsmith. And I don't know how many times I've been  
20 at meetings and said, we're not going to do  
21 wordsmithing here, and somebody goes, you know, just  
22 let's make this little change. And so I'll try and

1 keep us from doing that, and that we will make  
2 certain that grammatical things are fixed and so on.

3 So I think what we should do is plow into  
4 this and get going. I of course found the first  
5 comment to be something I particularly agreed with.

6 [Laughter.]

7 DR. SAMET: There may have been other  
8 comments in green that I did not find quite so  
9 friendly.

10 DR. HECK: I'm standing by that comment,  
11 Mr. Chairman.

12 [Laughter.]

13 DR. SAMET: But I will say that I appreciate  
14 positive feedback. But all I was really trying to do  
15 was capture the spirit of our discussions.

16 So I think we have this in front. I think  
17 that this is going to be a somewhat challenge to me  
18 to keep everybody here in line. So Caryn will help  
19 me keep track of who wants to speak and comment. And  
20 let's try and do this essentially panel by panel with  
21 the hard draft, and I think that will keep us  
22 organized.

1 I think what I'd like to do is, as we go  
2 through this page by page, when we think a page is  
3 done, we'll just go on to the next page and comment  
4 through. So let's do this, then I'll just call out  
5 pages, and anybody who wants to comment, to do so.

6 I suspect there might be some general  
7 comments overall. But perhaps maybe just hold those.  
8 Let's go through the details here, and then if we  
9 don't cover points that you think are overarching as  
10 we go through them, let's come back to that at the  
11 end.

12 Yes, Neal?

13 DR. BENOWITZ: Well, there's one overarching  
14 comment that I think relates to the speakers that  
15 we've heard and our past discussions, which I think  
16 is important to deal with. And that is the use of  
17 the term "smokeless tobacco" and "dissolvable  
18 products."

19 We've heard about all the safety issues with  
20 smokeless tobacco. Those are based on snus. Those  
21 are based on modern U.S. tobacco. But we know that  
22 old smokeless tobacco that was used in the '30s or

1 '40s caused oral cancer in the U.S. We know that  
2 Indian smokeless tobacco causes a huge epidemic of  
3 oral cancer. We know that smokeless tobacco is not a  
4 single thing.

5 So it's hard for us to talk about safety of  
6 smokeless tobacco or dissolvables without knowing  
7 what we're talking about or without having some  
8 product regulation. And that's to me a big  
9 overriding theme that needs to be addressed.

10 DR. SAMET: Do you mean product definition?

11 DR. BENOWITZ: Yes. Well, not just that.  
12 There's no answer to this because this really depends  
13 ultimately on regulation. So we can say a regulated  
14 smokeless tobacco product, that is like Swedish snus  
15 or better, does not cause risk or causes little risk.  
16 But we can't say smokeless tobacco is general is  
17 safe. And we could say that some particular  
18 dissolvables look to be safe, but we can't say that  
19 all dissolvables are going to be safe without knowing  
20 what they are.

21 So to me, it's an issue that has to be  
22 addressed somewhere up front.

1 DR. SAMET: Two comments. So one is, we have  
2 an actual charge related to something called  
3 dissolvable tobacco products. And it is left  
4 undefined -- that is correct -- in the Act.

5 Second -- and I think this is where -- I  
6 understand what the public commenters are saying, and  
7 I understand what we are charged to do. And I think  
8 it's a little hard to fence off dissolvable tobacco  
9 products from other smokeless tobacco products and  
10 from the potential role of these products in harm  
11 reduction strategies, which is what we have heard  
12 about both in today's public comments and in prior  
13 public comments.

14 But to the extent that this is covered in the  
15 conceptual framework, I think it's implicit. I  
16 actually think that this report itself is not the  
17 place to begin to address harm reduction strategies  
18 generally. And I think we, at least in my mind, need  
19 to fence ourselves off a little bit and say what this  
20 report is about and what it is not about.

21 I appreciate the concerns you're raising.  
22 But, in fact, in the evidence that we have considered

1 in developing this report, we have only seen one  
2 sliver of the general literature that's relevant to  
3 the broader issue. I mean, I can appreciate why you  
4 are bringing this up, and I don't know whether we  
5 need to in this report say dissolvable products are  
6 what have been presented to us as dissolvable tobacco  
7 products, period. And this category may be fluid  
8 over time.

9 It is not defined except by us, except as how  
10 it has defined itself by what has been put in front  
11 of us as dissolvable tobacco products. And we  
12 recognize that there are broader implications of  
13 these products as other smokeless products in harm  
14 reduction. But this is, again, not the task for us  
15 as prescribed in the Act.

16 So maybe we need language to that effect.  
17 But I actually think, given what we have seen and  
18 heard, this is how we should define our task. And  
19 maybe we haven't done that with sufficient clarity.  
20 So I'm sure others will want to comment on this.

21 DR. BENOWITZ: I think it's fine. I just  
22 think we need a caveat up front saying that this

1 discussion is based on the limited products that  
2 we've looked at, which does not include the full  
3 potential range of dissolvable products, and same  
4 thing for smokeless tobacco.

5 DR. SAMET: Right. The task that we were  
6 given might have been defined differently, but we  
7 actually have a specific task, I think.

8 Dan?

9 DR. HECK: I think, maybe extending on what  
10 Neal said, there are some occurrences later in the  
11 text somewhere that we'll come to where there's some  
12 sentences around where smokeless tobacco, SLT, and  
13 cigarettes are referred to. And I think what Neal  
14 says is absolutely true, particularly worldwide.  
15 There are huge differences in the smokeless products.

16 I'm just going to suggest maybe we park in  
17 the back of our minds the concept of maybe striking  
18 out those references to smokeless in those sentences  
19 because the real thrust was really comparing the  
20 cigarettes. But those are somewhere later in draft.  
21 We can discuss those when they come up.

22 DR. SAMET: So I'm going to suggest, as we go

1 through the report, that we see if we are  
2 sufficiently clear with this I think important point  
3 raised by Neal and by others.

4 Any other comments to this point?

5 [No response.]

6 DR. SAMET: How about page 2? And again,  
7 obviously, this is just introductory material. And  
8 page 3? Again, here is our charge as given to us, so  
9 just a reminder.

10 Page 4. So this is a description. So page 4  
11 and on to page 5, maybe perhaps we make a mental  
12 note, at least, that we may want to return, perhaps  
13 on page 5, before we go to the committee framework,  
14 to insert several sentences, Neal, that speak to your  
15 comment. That might be the appropriate place to do  
16 it. So let's leave a placeholder there.

17 You can write "Neal's comment placeholder"?

18 All right. And then, moving to the bottom of  
19 page 5, there's a comment here by John, and one of  
20 our public commenters commented about Figure 1 as  
21 well. So Figure 1 is there as a conceptual framework  
22 for thinking about the problem. It's not there to

1 say this is what we know about.

2 So I guess I would raise the question of  
3 whether its theoretical nature and use in the report  
4 is explained adequately. John Lauterbach had a  
5 comment here. You may or may not want to amplify on  
6 it at this point. But I think it's in that same kind  
7 of vein.

8 DR. LAUTERBACH: Dr. Samet, as I pointed out,  
9 there's no evidence out there -- the committee has  
10 received no evidence to support the disease/death in  
11 the bottom box on page 4 for dissolvable product use.

12 DR. SAMET: Yes. Tom? And then Mark.

13 DR. EISSENBERG: Yes. I had some comments  
14 about that, too. It seemed to me that there might  
15 have been one thing meant by whoever drew Figure 1  
16 and another thing on the interpretation of Figure 1  
17 with regard to the three boxes on the far right-hand  
18 side, all of which say disease and death.

19 My interpretation of that, after some  
20 thought, was that whoever drew the figure was  
21 intending to point out that everybody dies, and not  
22 that, for instance, dissolvable products only causes

1 disease and death.

2 My suggestion, with that  
3 understanding -- although it may not be true -- was  
4 that each of these disease and death boxes should  
5 actually be two separate boxes, one that says,  
6 "Tobacco-caused disease and death," and another that  
7 says, "Non-tobacco-caused disease and death," with  
8 the idea being that at some point we would like very  
9 much to know what the probability is of, for  
10 instance, tobacco-caused disease and death if you  
11 used dissolvable products only. It may be  
12 vanishingly small, but we would like to know.

13 Certainly, I don't think the implication here  
14 is that dissolvable tobacco products only cause  
15 disease and death.

16 DR. SAMET: Well, I know the person well who  
17 drew that framework.

18 [Laughter.]

19 DR. SAMET: Sadly, it is true that  
20 100 percent of us will die. It's the timing, of  
21 course, that is of interest.

22 The point, I think, actually, Tom, you

1 captured in a way really is the comparative rates in  
2 the end of tobacco-caused disease and death, at the  
3 end of those three separate arrows. And I think the  
4 modification you suggest, or text to that effect, one  
5 or the other, is appropriate.

6 I think, again, this is a conceptual diagram,  
7 and one that was used to, in a sense, organize  
8 thinking and to capture what we know and really what  
9 we would like to know in the end.

10 Mark?

11 DR. CLANTON: Dr. Eissenberg's thoughts  
12 actually captured what I was thinking, so I won't add  
13 to that.

14 DR. SAMET: Neal?

15 DR. BENOWITZ: I think some minor wording  
16 changing on page 5 might deal with the idea that this  
17 is really a conceptual analysis. And so on the very  
18 last line, if we said "risks and benefits to health,"  
19 that would make it clear that we're really looking at  
20 the impact. We're not saying in particular that this  
21 is causing risks, but we want to say, these are the  
22 ways that dissolvables could influence health.

1 I have to say that our charge was to look at  
2 the risks and benefits.

3 DR. SAMET: So if we were to modify the  
4 figure per Tom's suggestion -- and, actually, a  
5 benefit is that the rate of tobacco-caused disease is  
6 lower in that bottom versus other pathways.

7 So I think the proposed modification of the  
8 figure seems appropriate, and then with a text  
9 insertion that says that the comparative risks are of  
10 importance and that a benefit is a reduction in rate  
11 of morbidity and mortality for one line versus the  
12 cigarettes-only line, essentially.

13 Let's see. So I think the challenge we're  
14 going to face is doing this in real time, which is  
15 how we have to do it. So the modification would be  
16 that each of those boxes to the right -- and I don't  
17 think you're going to be able to do this because I  
18 think that's a -- can you? Okay. Each, at the top,  
19 it will say tobacco-caused or --

20 DR. BALSTER: Tobacco-caused.

21 DR. SAMET: Tobacco-caused. Tobacco-caused  
22 disease and death. And that will go into each.

1           John?

2           DR. LAUTERBACH: Dr. Samet, I have one  
3 concern here. We really haven't -- if we say that  
4 the risks of the dissolvable tobacco as presented by  
5 the products this committee was exposed to, the  
6 question I have, is the risk of long-term use of this  
7 any different than the long-term risk of use of  
8 these? That happens to be a nicotine lozenge from  
9 Equate, 4 milligrams. This happens to be a  
10 4 milligram dissolvable.

11           I think the real question here is, are the  
12 risks of long-term use of these equivalent, one up,  
13 one down? I think that's really the big question  
14 facing this committee on the whole issue of  
15 dissolvables

16           DR. SAMET: I actually don't think that  
17 you're going to get agreement, certainly not from me.  
18 That's not the charge that was given to us. I  
19 understand the question you're raising, but again,  
20 that is off our charge.

21           Bob?

22           DR. BALSTER: I think without a change in the

1 language to risks and benefits to health and changing  
2 the boxes -- I mean, this is not a path analysis with  
3 weights that only go in one direction. This is a  
4 conceptual model in which the changes in those end  
5 boxes could go in either direction, or no direction.

6 So I don't think it's implying that we know  
7 the answer to what the weights of those arrows are,  
8 or even the direction. So I think it's fine as  
9 presented.

10 DR. SAMET: Right. This again was for  
11 organizing us, and I think probably leading to the  
12 recommendations. I guess, again, I think in the  
13 spirit of John's comment, I guess the question is  
14 whether we are explicit enough; is the secret code of  
15 conceptual -- TPSAC developed a conceptual framework  
16 for describing the potential roles. So this is quite  
17 guarded.

18 Now, whether there needs to be another  
19 sentence that says, we have adopted this framework  
20 for the purposes of this report, acknowledging that  
21 evidence to support this framework specifically is  
22 not there. I mean, I'm happy to put another caveat

1 in to keep John happy.

2 But I think for the committee's purposes, and  
3 I think particularly for pointing to what research  
4 gaps there are, this kind of formulation is useful,  
5 and I wouldn't want to abandon it. But I'm happy to  
6 make certain that readers understand that this is  
7 something we have constructed, and that evidence to  
8 support this particular model is not necessarily  
9 there. But we are drawing on some realities of what  
10 we know about tobacco.

11 Mark?

12 DR. CLANTON: This probably won't help at  
13 all. But if this were a logic model, I could  
14 understand the concern because the logic model would  
15 be drawing you to a particular population conclusion.  
16 This is not a logic model. This is a simple way of  
17 categorizing the data and showing connections between  
18 different outcomes and relationships.

19 So, again, I'm perfectly happy with the  
20 modifications, and it is a conceptual piece that does  
21 help us organize our thoughts. But it's not a logic  
22 model.

1 DR. SAMET: Tom?

2 DR. EISSENBERG: Yes. I don't want to  
3 belabor the point. I get the idea that this is a  
4 conceptual model. I think that the amendment that  
5 was just made doesn't address the misunderstanding  
6 that several people have about this figure.

7 What I had suggested was two boxes at the end  
8 of each line, one that said tobacco-caused disease  
9 and death, another that says non-tobacco-caused  
10 disease and death, because that captures the two  
11 possibilities. Right now it just looks like  
12 dissolvable products only cause tobacco-caused  
13 disease and death, which I think is the  
14 misunderstanding we're trying to avoid.

15 DR. SAMET: So, Tom, if I understand  
16 correctly, you want two boxes at the end of each of  
17 the --

18 DR. EISSENBERG: That's correct. Or you  
19 could bring them down into two boxes.

20 DR. SAMET: Ellen?

21 DR. PETERS: I think a much simpler change, I  
22 think, would still address what you want. Just make

1 it the probability of tobacco-caused disease and  
2 death, and that takes care of tobacco and non-tobacco  
3 at that point in the risk boxes.

4 DR. SAMET: Risk for --

5 DR. PETERS: Risk for probability of,  
6 likelihood of --

7 DR. SAMET: In each box?

8 DR. PAMPEL: I guess that would work.

9 DR. EISSENBERG: It works for me.

10 DR. SAMET: Risk for. Okay. Fred?

11 DR. PAMPEL: I guess that would be a good  
12 idea. I just didn't see the issue because clearly,  
13 the language to follow says does the availability of  
14 DTPs affect the likelihood of experimentation? It  
15 doesn't imply that it would only increase. It would  
16 affect.

17 So I read that as a framework in which the  
18 DTPs could have a direct effect in either direction,  
19 and therefore was not implying some sort of negative  
20 effect. That wording is on the bottom of page 6 and  
21 the top of page 7.

22 DR. EISSENBERG: You're right. The

1       likelihood is an important word there. That's  
2       referring only in the figure to the little number 1,  
3       which is at the far left end of the model. We're  
4       talking about the far right end of the model.

5               DR. PAMPEL: I'm talking 4 as well. It says  
6       the risk of tobacco could be affected. It doesn't  
7       say harmed or increased. The effect could be in a  
8       positive direction.

9               DR. SAMET: I will say that here is the  
10       danger of any model. It just can't be perfect. So  
11       the question is -- I'm about to invent a new word,  
12       model-smithing --

13               [Laughter.]

14               DR. SAMET: -- and let's just talk about how  
15       far we want to go.

16               I think, Dorothy, did you have a comment  
17       along the way?

18               DR. HATSUKAMI: Yes. My comment is not  
19       necessarily related to what's been discussed. But  
20       one tobacco product that's missing is smokeless  
21       tobacco, the conventional smokeless tobacco. We  
22       don't really acknowledge that in this particular

1 framework.

2 DR. SAMET: Well, I think that's the mixed  
3 use.

4 DR. HATSUKAMI: I guess I'm not really sure.  
5 What about smokeless tobacco only? It's possible  
6 that smokeless tobacco users might use dissolvable  
7 products as well. So we can either just acknowledge  
8 that smokeless tobacco should also be considered, or  
9 put cigarette smoking or smokeless tobacco --

10 DR. SAMET: Yes. So if we put a line in that  
11 says specifically that this model does not include  
12 smokeless tobacco products, which would add a further  
13 complexity, I think would that --

14 DR. EISSENBERG: And e-cigarettes, and any  
15 other tobacco products not depicted on the model.

16 DR. SAMET: It could be many, yes. Yes, so  
17 we could end up with a lot of lines here, I think.

18 Neal?

19 DR. BENOWITZ: Have we distinguished  
20 dissolvables from smokeless tobacco anywhere?  
21 Because that's one of the issues, is certainly you  
22 could consider dissolvables to be a form of smokeless

1 tobacco.

2 DR. SAMET: So the wording is "other forms of  
3 smokeless tobacco." Right?

4 John, do you have further comments here?

5 DR. LAUTERBACH: Dr. Samet, I have two  
6 comments. My first concern on the whole thing is the  
7 analogy to the menthol report because that basically  
8 deals with cigarettes. And I think the issue here we  
9 should be trying to point out is the great difference  
10 in risk to the user between cigarette smoking and use  
11 of U.S. and Northern European-made smokeless tobaccos  
12 in general, and dissolvables in particular.

13 I pointed that out in some of my comments to  
14 say that, hey, we're not including the smokeless  
15 tobacco products of the far east of Africa, which  
16 have a tremendously hazard index than do the  
17 particular products in the U.S. and modern,  
18 contemporary smokeless products, even to the point of  
19 the standard chewing tobacco product, which other  
20 than dental caries has had no adverse epidemiology.

21 So I think the thing is, we need to try to be  
22 either, is this going to help us in terms of this

1 conceptual framework, or are we going to get too  
2 complex in it and is it not going to be helpful?

3 DR. SAMET: Well, I think we can come back to  
4 that at the end. But I actually think that this  
5 turns out to be helpful for getting the report  
6 organized, and I think we should stick with it. I  
7 think we all recognize the complexity of these  
8 products. I mean, when you begin to consider them  
9 globally, as you just did, we recognize that there  
10 are many, many, many forms of smokeless tobacco.

11 What I think we've heard -- so let's go back  
12 to page 5. So I want to bring up a few specifics  
13 now. You're going to be challenged today. So first,  
14 do we want a sentence -- where does the comment go,  
15 John's comment about -- the bottom of page 5? Yes.

16 So do we want a further sentence, as a  
17 reminder -- so beyond the sentence in Figure 1. So  
18 the first sentence, is our first sentence  
19 sufficiently descriptive of the theoretical nature of  
20 the model, and that it's conceptual, and that we have  
21 developed this purely for the purpose of this report?

22 Do we need any other caveats, in part, to

1 address John's concern? Are we happy with our  
2 introduction of the model as it sits there now?

3 DR. MCAFEE: One quick thing you could do,  
4 that the third sentence down says, "The framework  
5 represents three potential patterns of tobacco use,  
6 product only." You could put, "only three potential  
7 patterns of tobacco product use." So you're further  
8 indicating that you're not trying to cover the entire  
9 universe in this model.

10 DR. SAMET: Yes. So he wants to add,  
11 "represents only three potential patterns." And we  
12 might actually begin that sentence by saying, "For  
13 simplicity, the framework only represents."

14 Now, continuing, so page 6, we've made  
15 modifications in the figure that we may want to  
16 further explain. So let's see where that might be  
17 done. So not page 6, but let's go to page 7. And I  
18 think we want to get to where we describe what  
19 happens at the end.

20 So maybe we're -- let me just see here. Hang  
21 on one second. We may want to go --

22 [Pause.]

1 DR. SAMET: So I think if you go to page 7,  
2 yes, where it says, "Further, the framework  
3 acknowledges that risk for morbidity and premature  
4 mortality caused by use of tobacco products could be  
5 affected by use of DTPs," we could say, "In this  
6 model, rates" -- I guess we need the word "risk" --

7 DR. PAMPEL: Increased or decreased.

8 DR. SAMET: Yes. So go back. "Could be  
9 affected by use of DTPs, either increased or  
10 decreased." And then we could say that a  
11 benefit -- I mean, just to get this out on the  
12 table -- "A benefit of availability of DTPs would be  
13 a reduction in risk for morbidity and premature  
14 mortality compared to that in users of cigarettes  
15 only."

16 DR. CLANTON: Is it a benefit or potential  
17 benefit?

18 DR. SAMET: Well, it's a potential benefit.

19 DR. HECK: Yes. Maybe we should say "could"  
20 instead of "would," just to be neutral.

21 DR. SAMET: So you want to say a potential  
22 benefit, would be.

1 DR. HECK: Well, could.

2 DR. SAMET: I like would, but -- yes. That  
3 seems -- would be a reduction in risk of morbidity  
4 and premature mortality.

5 DR. CLANTON: Risk of tobacco-caused  
6 morbidity and premature mortality.

7 DR. SAMET: I told you, you were going to be  
8 challenged, Caryn.

9 Morbidity and premature mortality in  
10 comparison --

11 DR. MCAFEE: Just to be -- I guess I'm not  
12 clear why we're pointing out that there could be a  
13 benefit unless we're also going to say that there  
14 could be -- it would be better to just say it could  
15 go either way.

16 DR. SAMET: Well, we say that in the other  
17 sentence. And I think, since our prior is probably  
18 moving towards the possibility of benefit, I think  
19 this is probably reasonable to say how this would  
20 come out.

21 DR. BENOWITZ: I've got a problem with this.  
22 It's not really in comparison with cigarette smokers.

1 It's comparison with the scenario that these products  
2 were not available because it could involve cigarette  
3 initiation, all kinds of things.

4 So this doesn't really make any sense to say  
5 comparison with. It would be in comparison with a  
6 situation that the DTPs were not available, or just  
7 not put it there at all. I don't think you need to  
8 say anything. I just think you stop with mortality.

9 DR. SAMET: What do you want to do? You  
10 don't want to put the comparison in?

11 DR. BENOWITZ: No. Because it's not a  
12 comparison of --

13 DR. SAMET: All right. Why don't we do that,  
14 and then -- okay.

15 All right. On page 7, let's go up. We also  
16 have to deal with -- these are comments from  
17 committee members. So we have -- let us see the top  
18 of that sentence, Caryn.

19 So, in this framework, availability might  
20 affect the likelihood of initiation and also affect  
21 progression to regular use. So again, we need to  
22 decide about these proposed modifications.

1           So is this okay? Bob?

2           DR. BALSTER: This was my suggestion. It's  
3 just basically repeating what you say in the very  
4 first sentence. But I'm just concerned that having  
5 only "addiction" there, given all the recent data  
6 suggesting that current regular users of tobacco may  
7 not always meet definitions of addiction, by just  
8 having regular use and addiction is a broader  
9 categorization. And I would also suggest that you  
10 put "regular use/addiction" in the box, too. But  
11 this could be wordsmithing, but --

12           DR. SAMET: I think this is fine. So we will  
13 accept that. And "would influence the maintenance of  
14 tobacco," so the same comment, really.

15           All right. And then, let's see, going to the  
16 bottom of page 7, we have a comment from you, Bob.

17           DR. BALSTER: Well, it's just --

18           DR. SAMET: It's the same.

19           DR. BALSTER: It's the same. It's just  
20 adding that to the box, then; instead of just having  
21 addiction in the box, putting "regular  
22 use/addiction." It's a small thing.

1 DR. SAMET: So go back to the model. So you  
2 would have "regular use/addiction."

3 DR. BALSTER: Yes.

4 DR. SAMET: Is that okay with everybody?  
5 Yes. Okay? Yes.

6 So let Caryn finish her work here.

7 [Pause.]

8 DR. SAMET: So last chance on the figure.  
9 Figure-smithing? John?

10 DR. LAUTERBACH: Dr. Samet, could we come  
11 back and look at this again after all the changes are  
12 made before a final vote?

13 DR. SAMET: Of course I'd like to say no, but  
14 of course you're going to.

15 So page 10. John, do you still want to  
16 comment further about Figure 1?

17 DR. LAUTERBACH: Again, we get back to the  
18 situation as some of the speakers mentioned, in terms  
19 of dose or whatever. It appears that Figure 1, at  
20 least as originally conceived, assumes that all dual  
21 use is bad. Maybe I'm misreading that, but that's  
22 what it appears to be.

1 DR. SAMET: No. It really does not. I  
2 think -- Tom, do you want to comment?

3 DR. EISSENBERG: Well, I'm not sure of the  
4 right verb, dismayed or amazed, to find that I'm  
5 addressing John's concerns independent of having  
6 heard them. But I also had that same thought, I  
7 think. And I didn't know when we were disposing of  
8 the figure we were done with the caption because I  
9 think a lot could be done with the caption. And one  
10 thing that could be done is addressing that concern.

11 So you see the number 2, where it says,  
12 "Experimental use leading to an established pattern  
13 of mixed use of tobacco products," I think we could  
14 add to that to make it a little more clear what we're  
15 talking about. And I have some text. So I'm down  
16 here. I'm going to skip what's in parentheses.

17 DR. SAMET: Let us get our wisdom saved.

18 [Pause.]

19 DR. SAMET: We're successfully saved?

20 We're saved.

21 DR. EISSENBERG: So I think the point that  
22 John is raising is that people walking into this

1 figure have different ideas of what we mean by mixed  
2 use, some of which is worse than others or, looked at  
3 another way, some of which is better than others.

4 So I added to the number 2, the explanation  
5 of the number 2, to read, "Experimental use leading  
6 to an established pattern of mixed use of tobacco  
7 products" -- skip what's in parentheses for a  
8 second -- "that might include regular cigarette  
9 smoking supplemented with the occasional dissolvable  
10 smokeless product, regular dissolvable smokeless  
11 product use supplemented with the occasional  
12 cigarette, and all the variations in between."

13 DR. SAMET: Okay. So that is in addition to  
14 number 2 on page 10.

15 DR. EISSENBERG: Do you want it?

16 DR. SAMET: So does anybody want to hear that  
17 again, or did you -- everybody's got it? Okay.

18 So I'm giving this to Caryn. And I think  
19 what you could do is perhaps, rather than king it  
20 now, write "Eissenberg modification."

21 DR. EISSENBERG: Well, there's another one,  
22 so I need my sheet back, or I can bring it up here.

1 DR. SAMET: Here. Let me give this back.

2 All right? Here.

3 DR. EISSENBERG: So, then, at the end  
4 of -- well, I was confused, I guess, why the number 3  
5 is pointing at addiction when number 3 is a point  
6 about cessation, about how the availability of DTPs  
7 could influence cessation. That's what number 3 is  
8 depicting, and yet for some reason, it's not pointing  
9 at cessation. It's pointing at addiction.

10 DR. SAMET: I would be happy to see the  
11 number 3 moved, or moved on the arrow between  
12 addiction and cessation.

13 DR. BENOWITZ: It's complicated because the  
14 idea is if you provide nicotine, you're sustaining  
15 addiction, and therefore an effect on cessation. So  
16 it could go either way.

17 DR. SAMET: Yes. Would it be -- actually,  
18 that was sort of the spirit of why it is where it is.

19 Are you happy with leaving it there?

20 DR. EISSENBERG: I'm not wedded to it. That  
21 wasn't the major thing I wanted to bring up.

22 DR. SAMET: All right. Keep going.

1 DR. EISSENBERG: This is the last point on  
2 the caption. There's a point made much later in the  
3 document with regard to the possibility of DTPs  
4 lessening the risk of tobacco-caused disease. And as  
5 I say, it's much farther in the document, whereas it  
6 is worth bringing up here.

7 So for number 4, I was suggesting leading  
8 with what's there, "Differing risk profile for  
9 tobacco-caused diseases and premature mortality," but  
10 then clarifying it such that, for example, "Exclusive  
11 use of dissolvable tobacco products may lessen the  
12 risk of some tobacco-caused diseases -- for instance,  
13 lung cancer -- relative to exclusive use of cigarette  
14 smoking."

15 I think we made that point later on in the  
16 document. It's just worth making here in the figure.

17 DR. SAMET: So let me disagree, only because  
18 this is the point where we're introducing the model  
19 and not findings that come later. So I think that we  
20 should reserve that for later while introducing the  
21 model as the model, and just leave it at that and not  
22 put it in the caption. So if that's okay.

1           But the other Eissenberg  
2       modifications -- this is the first one?

3           DR. EISSENBERG:  Yes.

4           DR. SAMET:  Anything else here?

5           John, you made a comment that I really didn't  
6       understand, this classification of dissolvable  
7       products as new.  I don't think there's any  
8       assumption that they're new or not new in this  
9       figure.

10          DR. LAUTERBACH:  Perhaps I put that in the  
11       wrong place, Dr. Samet.  I had originally rewritten  
12       your report, and then Caryn urged me to change my  
13       comments into additions or modifications to your  
14       report.  So some things may have gotten misplaced.

15          DR. SAMET:  Then I think at this point, then,  
16       we have page 10 behind us.  Page 11, I think we have  
17       now made some modifications to those, the Eissenberg  
18       modifications.  Oh, okay.  Thanks.  And then the red.  
19       So again, I'm not sure whose red this --

20          DR. PETERS:  This is actually mine.  I may  
21       have mistyped.  What I was trying to point out was  
22       that we talked about 3 being a decreased likelihood

1 of smoking cessation. But an increased likelihood of  
2 smoking cessation is also possible. I think I either  
3 mistyped or it was mistyped into there.

4 DR. SAMET: I mean, again, I think  
5 acknowledging that this is the figure, not the place  
6 to present evidence, if you want to say decreased or  
7 increased likelihood of smoking cessation, at the  
8 start of number 3?

9 DR. PETERS: That's all. Yes.

10 DR. SAMET: Decreased or increased. And that  
11 one, I think that's okay. It's kind of the spirit of  
12 what we talked about, I think, with Tom's wording, so  
13 I think that's okay.

14 Let's see. Dan, you have a comment there.

15 DR. HECK: It may, with these revisions, have  
16 been captured elsewhere. But I was just thinking,  
17 with a few words here, the exclusive use, partial or  
18 complete replacement, that we could capture the  
19 possibility, at least, as we've seen from the Swedish  
20 experience with snus, that maybe the smokeless  
21 products could assist -- even in dual use, partially  
22 displace cigarette use.

1 DR. SAMET: I think --

2 DR. HECK: We may have captured this now with  
3 other revisions. I'm not sure.

4 DR. SAMET: Yes. I actually think that the  
5 addition maybe gets a little bit of the spirit of  
6 what you were trying to do. And again, I don't think  
7 this is the right place to introduce findings. It's  
8 just a conceptual model. So if that's okay, I think  
9 what we'll do is move on.

10 Page 11 gone, if that's okay?

11 DR. HATSUKAMI: No.

12 DR. SAMET: Yes, Dorothy?

13 DR. HATSUKAMI: Actually, I have a comment.  
14 So number 3, you indicate an increased or decreased  
15 likelihood of smoking cessation. But if you go back  
16 to number 1 that is on page 10, you have increased  
17 experimentation.

18 So I'm wondering whether you need to add the  
19 increased or decreased experimentation/initiation of  
20 cigarette smoking as well, just to be consistent.

21 DR. SAMET: Well, let me ask. I mean, I  
22 think on this number 1, do we want to give way to the

1 possibility of decreased experimentation? It seems  
2 to me that at least the public health concern is  
3 increased. And we say, "Hypothesized mechanisms by  
4 which dissolvable tobacco products could have impact  
5 on public health." And then we say, "Increased  
6 experimentation and initiation."

7 I mean, if we want to put all of these in  
8 let's say, a neutral, non-directional stance, we  
9 could say "Changes in experimentation" or something  
10 like that. And this goes back a little bit to Neal's  
11 comment. I mean, this is all in the hypothetical of  
12 availability versus non-availability; at least from  
13 the public health point of view, the concern is  
14 increased experimentation. So I think this is a  
15 question of how we want to present the framework.

16 DR. HATSUKAMI: Sure. But then on 3, isn't  
17 the public health concern decreased likelihood of  
18 smoking cessation? You've changed number 3 to say  
19 "increased or decreased" on page 11. So I guess I'm  
20 just saying, for consistency, maybe you should  
21 indicate that public health could be positive or  
22 negative.

1 DR. HECK: Mr. Chairman, I agree. I think,  
2 although the public health concern is the negative  
3 effects on public health, but with the charge being  
4 risk or benefits, I think the kind of neutral or  
5 encompassing descriptor here would be maybe be more  
6 appropriate.

7 DR. SAMET: Then I will suggest that number 1  
8 be changed to "effects of experimentation and  
9 initiation," which is non-directional. So "effects  
10 of."

11 DR. HATSUKAMI: Is it "effects of" or  
12 "effects on"? It should be "effects on," yes.

13 DR. SAMET: On. Sorry. You knew what I  
14 meant.

15 DR. HATSUKAMI: Yes. And then, just to go  
16 back to page 11 -- well, I guess this is maybe  
17 wordsmithing, actually. But it seems number --

18 DR. SAMET: Watch out.

19 DR. HATSUKAMI: I'm sorry. Number 4 seems a  
20 little repetitive. If there's exclusive use, and  
21 then it says, "or partial or complete replacement of  
22 cigarette," I think you can just take out "from

1 exclusive use or." I think that could be taken out.

2 Does that make sense?

3 DR. SAMET: Okay. That's fine. Exclusive  
4 use.

5 DR. BENOWITZ: But I think 4 raises just a  
6 question, which we don't think is a concern with  
7 current products. But is there any direct effect of  
8 dissolvables on death or disease, and is there a  
9 possibility that when you combine dissolvables with  
10 smoking, it might influence the risk of smoking? Not  
11 by cigarettes per day, but by some intrinsic  
12 biological effect. That's my interpretation of what  
13 this means, in which case this is relevant, as  
14 stated.

15 DR. HATSUKAMI: What? No, I think it retains  
16 the -- you want to keep the "from exclusive use" in  
17 there? Is that what you're saying?

18 DR. BENOWITZ: Yes. Yes, both.

19 DR. HATSUKAMI: But isn't "complete  
20 replacement of cigarette use," isn't that exclusive  
21 use?

22 DR. BENOWITZ: Oh, I see. Yes. Yes, that's

1 fine.

2 DR. HATSUKAMI: Yes.

3 DR. BENOWITZ: That's fine.

4 DR. SAMET: Let's see. We're moving forward.

5 Okay. Page 12, Key Findings from the Evidence  
6 Review. This was an attempt -- and let me just say,  
7 to summarize what I thought we had agreed to was what  
8 we said at the end of the last meeting about the  
9 literature review findings.

10 Now, I think we want to be very careful.  
11 This is not an attempt to write a referenced  
12 document. Okay? So the references sit in all the  
13 materials that Caryn showed you on the compilation.  
14 So this is not going to be reference 1 to 300, or  
15 whatever it might be. This is going to be our report  
16 of what we found. So just remember that.

17 So, let's see. I think there's an initial  
18 comment from John. I don't know whether we need to  
19 say the obvious, but we do not make any effort to  
20 differentiate one product from another. I don't  
21 think we need to state that, but I think that's what  
22 your comment is about here, John.

1 Dorothy?

2 DR. HATSUKAMI: I do think that maybe a  
3 sentence should be added after the first sentence,  
4 pointing out that, in general, the resources are  
5 limited in the types of products that have been  
6 examined. For example, few studies are -- I don't  
7 think any studies looked at the effects of sticks and  
8 strips.

9 So I'm wondering if we can just add that in  
10 just to acknowledge that there have not been any  
11 studies conducted on -- or limited studies conducted  
12 with strips and sticks.

13 DR. SAMET: So you want to make a comment  
14 that essentially would say, reviewed a variety of  
15 sources of evidence on DTPs, and then add something  
16 that says -- perhaps saying that there were -- maybe  
17 just say, "reviewed a variety of sources of  
18 evidence," and then just say something like, "On the  
19 whole, the evidence was limited and also did not  
20 provide any information relevant to evaluating  
21 individual products," or something like that. I  
22 think that's John's concern.

1 DR. HATSUKAMI: Or something like that.

2 DR. SAMET: Yes. "Any individual products,"  
3 probably. "Any individual dissolvable products."

4 MALE VOICE: No. Some individual dissolvable  
5 products were, though.

6 DR. HATSUKAMI: I think it's "some," because  
7 there are some on --

8 DR. SAMET: Okay. Well, "some individual  
9 products" or "some things." I mean, I think it gets  
10 a little tricky here because it's -- right.

11 MALE VOICE: Some individual products.

12 DR. SAMET: All right. That's fine.

13 DR. BENOWITZ: I'm not sure if this is  
14 wordsmithing or not. But in the first sentence, do  
15 you want to just state that these are products that  
16 have been marketed up to this date, or something?

17 The reason I say that is because I don't want  
18 to generalize between the evidence we've looked at  
19 now with all potential dissolvables that might be  
20 introduced in the future. And they could be quite  
21 different.

22 MALE VOICE: That was your point earlier,

1 too.

2 DR. SAMET: That's fine. And by the way, if  
3 you want a definition of what wordsmithing is, when I  
4 say it's wordsmithing, it is.

5 [Laughter.]

6 DR. SAMET: But I think this is good.

7 Okay. Page 12, anything else?

8 [No response.]

9 DR. SAMET: Let me check. Sherry, I don't  
10 want to forget you. Anything to now?

11 [No response.]

12 DR. SAMET: She may be muted.

13 So that was page 12.

14 Let's see, Page 13. Let's see. Bruce, you  
15 have a point here.

16 DR. SIMONS-MORTON: Yes. I just thought that  
17 this was a good place to throw in a reference about  
18 what's known about current prevalence.

19 DR. SAMET: So I agree. We probably should  
20 have a little bullet somewhere that says, "Prevalence  
21 of use," or something. I mean, this is not actually  
22 out of the peer-reviewed literature per se. We heard

1 different data sources on both prevalence from  
2 different surveys of use and sales, at least for the  
3 Star products.

4           So I don't know whether this belongs  
5 somewhere else, but it's probably a point that we  
6 should make. Hold the thought because I think we  
7 need to make that point because that clearly is  
8 important, the kinds of information that are actually  
9 available to us. So let's see. Don't delete his  
10 comment, and let's figure that out.

11           Then, John, your comment, I mean, again, just  
12 in terms of style, we're just simply not going to put  
13 in individual references. It won't work. But the  
14 reference body that we use will be clear.

15           So, let's see. There's a red comment here.  
16 What is that?

17           Dorothy?

18           DR. HATSUKAMI: I guess I would disagree with  
19 that comment, particularly where it says, "DTPs are  
20 not a safe alternative to conventional smoking  
21 products." I don't think that that's correct. So I  
22 would disagree, at least with that segment.

1           The "No tobacco product is safe," I guess  
2           there's no demonstrated -- there's no studies that  
3           have demonstrated that no tobacco products are safe.

4           DR. SAMET: I'm not sure whose comment this  
5           is. I actually would probably just prefer to delete  
6           it, I think.

7           DR. BALSTER: I'll 'fess up to putting it in  
8           there. I was really basing it on what I had said at  
9           the last meeting. There's an awful lot of published  
10          data on the toxicity of nicotine per se. And as a  
11          constituent of these products, nicotine is not a safe  
12          product, or a product containing nicotine. And  
13          certainly, products containing tobacco are not safe.

14          But I'm not sure -- it could be misleading in  
15          the context of putting it there. So I wouldn't  
16          insist on it. But I believe, actually, the sentence  
17          is correct as stated, but I'm willing to give it up.

18          DR. SAMET: If you're happy to give it up, I  
19          think I'd prefer to see it go. I mean, in part, some  
20          of it relates to what I think our charge is and what  
21          evidence is available at present. So let's delete  
22          that guy. It's gone. Okay.

1 DR. PETERS: Jon?

2 DR. SAMET: Yes, Ellen?

3 DR. PETERS: I actually thought that there  
4 was some usefulness to the comment, at least the  
5 first part of it, about "No tobacco product is safe."  
6 But perhaps it just needed to be moved after abuse  
7 liability and after health risk because we don't have  
8 anywhere in here, I don't believe, anything about the  
9 absolute risk of the product. We're only focused on  
10 the relative risk with cigarettes. And I think both  
11 are important.

12 DR. SAMET: Let me propose that we delete it  
13 here. This question of "No tobacco product is safe,"  
14 I think we should look at that as we come to the end  
15 of it. I actually think this was not something we  
16 were asked to judge and that it was not part of our  
17 charge, and will quickly get us into issues such as  
18 what is safety and how would one even define it,  
19 which, since I want to go home, I don't think we  
20 should take on.

21 Mark?

22 DR. CLANTON: Yes. I agree with taking it

1 out here, and maybe if there's an appropriate place  
2 later, coming back to it. But the central issue has  
3 to do with nicotine versus tobacco products. The  
4 first part of that sentence is absolutely correct,  
5 but the second piece actually deals more with safety  
6 of nicotine. So it's a mixed kind of statement.

7 So again, I don't know that it has a context  
8 in this part of the report, and I think taking it our  
9 here is probably the right thing to do.

10 DR. SAMET: So it's gone, and we will tuck it  
11 away in our memories to come back to.

12 Oh, yes. So constituent yields. All right.  
13 So if you look, page 13 on to page 14, the comment  
14 is, "There is variation across products in yields of  
15 nicotine and tobacco-specific nitrosamines. Heavy  
16 metals are present also in variable amounts. The  
17 yields of nicotine and TSNAs are lower than those of  
18 cigarettes."

19 Now, this was a summary of data that we  
20 heard. I don't quite understand, John, the reference  
21 to the GothiaTek standard. That was not the  
22 consideration. This was about constituent yields and

1 not particular interpretation of those yields.

2 So I see what you're saying in your comments,  
3 but I just don't think that we're trying to have that  
4 degree of specificity here.

5 Did you want to say something?

6 DR. LAUTERBACH: Yes, Dr. Samet. As I think  
7 everybody knows, when you start doing trace analyses,  
8 generally, the lower the level of the analyte, the  
9 higher the variability in the value you get. And we  
10 say this thing, this warning, as you put it, could be  
11 perceived as being these things are all over the map,  
12 from high to low, when they're all very low and just  
13 the inherent variability of doing trace analyses is  
14 likely for the source of the variation as opposed to  
15 rapid changes in the product formulation, et cetera.

16 DR. SAMET: But I think the statements are  
17 correct. And then the qualitative, or semi-  
18 quantitative, statement that follows, "The yields of  
19 nicotine in TSNAs are lower than those of  
20 cigarettes," does provide a context for interpreting  
21 the values in the variability.

22 So if cigarettes are up here, we say these

1 products are down here, and there's variation, which  
2 personally I think was okay. And again, remembering  
3 that this is the high-level summary, and I'm going to  
4 keep us there because I think that's where this  
5 report should be.

6 So let me see if others want to comment here.  
7 Tom?

8 DR. EISSENBERG: I was just -- I don't have a  
9 problem with what I think is the intent of the  
10 statement, but I'm very confused by the word "yield"  
11 with respect to DTPs. And someone can correct me if  
12 I'm wrong, but when I talk about cigarettes, I talk  
13 about the content of the nicotine in the cigarette,  
14 the yield in the smoke, and then the delivery or  
15 exposure to the person. So there is no yield in that  
16 respect with a DTP. There's either a content or a  
17 delivery/exposure.

18 DR. SAMET: So you would like to change this,  
19 which I think sounds appropriate, "the contents of  
20 nicotine." Is that --

21 DR. EISSENBERG: Well, I'm not sure what we  
22 want to compare it to in that sense.

1 DR. PIRARD: Or "concentrations."

2 DR. EISSENBERG: And then, so what would we  
3 compare it to?

4 DR. SAMET: I see.

5 DR. EISSENBERG: If we're talking about the  
6 content, are we talking about then the content of the  
7 cigarette or the yield of the smoke or the delivery  
8 to the smoker?

9 DR. SAMET: I see your concern.

10 Neal?

11 DR. BENOWITZ: Well, I had exactly the same  
12 concern. I think we have content on most products.  
13 We have biomarkers of exposure on a few. And so I  
14 would just say, "Content," and in a few cases,  
15 "exposure," or something like that, but content and  
16 exposure, but separate. Indicate that both are  
17 important.

18 DR. SAMET: Dan?

19 DR. HECK: Yes. I think I agree with what  
20 Tom said. Maybe we could do this by starting the  
21 sentence, "There is variation across products in  
22 content of nicotine, TSNAs, metals." And then in the

1       latter sentence, "The deliveries" -- implying  
2       deliveries to the user -- "of nicotine and TSNAs are  
3       lower than those of cigarettes." That way we would  
4       get the composition and the dosimetry.

5               DR. BENEWITZ: Well, but I would just say  
6       that we have content for most all the products. We  
7       have delivery for only a very few. So I'm against  
8       generalizing delivery to all of them. So you could  
9       just say, "where measured," or, "in a few products,"  
10       or something like that, just to qualify that.

11              DR. SAMET: But the first suggestion made by  
12       Dan, that sentence, "There is variation across  
13       products," I think we would replace "yields" by  
14       "contents" there.

15              Then let's agree on some wording for this  
16       other sentence, that Neal, you would like to say,  
17       "The contents of nicotine and TSNAs" -- or, no.

18              DR. BENEWITZ: Or you could say, "Human  
19       exposure, as assessed by biomarkers, in the few cases  
20       where it has been measured, has been lower than  
21       cigarettes," or something like that.

22              DR. CLANTON: Can we talk about amount?

1 DR. BENOWITZ: Well, but we want to separate  
2 content from actual human exposure. Human exposure  
3 can be looked at with biomarkers, but it's only been  
4 done in a very few studies.

5 DR. HECK: Maybe something like, "Available  
6 data for biomarkers" --

7 DR. SAMET: Yes. So perhaps, "Available data  
8 for some products" --

9 DR. HECK: -- "indicates that they are  
10 lower."

11 DR. SAMET: -- "show delivery to users of  
12 lower amounts of nicotine and TSNAs than are provided  
13 by cigarettes."

14 DR. BENOWITZ: But then I also have a  
15 question from John's comment about Stonewall. I  
16 haven't seen the data, but is there evidence that  
17 Stonewall actually delivers more nicotine --

18 DR. LAUTERBACH: I should have had "nicotine  
19 content" there.

20 DR. BENOWITZ: So there are no biomarker  
21 studies on Stonewall indicating that it provides more  
22 nicotine than the cigarette; is that true?

1 DR. LAUTERBACH: Not to my knowledge, sir.

2 DR. EISSENBERG: No. The ones that exist  
3 show that it's less.

4 DR. SAMET: So to help Caryn out, it's going  
5 to say, "Available data for some products show  
6 delivery to users of lower amounts of nicotine and  
7 TSNAs than are delivered by cigarettes."

8 Okay. So that's page -- yes, the final  
9 sentence comes out. That was, I think, important  
10 changes.

11 Let me make a suggestion. It's 3:00.

12 DR. BENOWITZ: I was just writing you that  
13 note.

14 DR. SAMET: We're going to take a break. So  
15 how about a 10-minute break? I think we're doing not  
16 bad. And remember not to discuss what you're not  
17 supposed to discuss.

18 (Whereupon, a brief recess was taken.)

19 DR. SAMET: Ladies and gentlemen, the meeting  
20 has begun. I'm learning here.

21 Let me give you a little portent of what we  
22 might do, which is to try -- if we continue to make

1 progress, to get through our task today. If we have  
2 big issues pending and really need to come back and  
3 discuss, then we will do so. But if we continue to  
4 move along, let's see where we end up because I sort  
5 of like the idea that we're going to just focus in  
6 and get this done.

7 Neal's not here. I did write a couple of  
8 sentences to put in for Neal's comment, but we'll  
9 come back to it, then.

10 So I think when we went out of the room, we  
11 were at like page 35 or 40.

12 [Laughter.]

13 DR. SAMET: Oh, 14. All right. We had fixed  
14 the bit about delivery and yields, and I think now  
15 we're on to page 15, so at abuse liability. And,  
16 let's see, we have some editing here.

17 Does somebody want to take ownership?  
18 Dorothy?

19 DR. HATSUKAMI: I don't take ownership of  
20 this, the modifications that have been made, but I'd  
21 like to just make some changes in the abuse liability  
22 statement. It should read, "Abuse liability in

1 current smokers should be lower for current DTPs than  
2 for conventional cigarettes and for most conventional  
3 smokeless tobacco products." That's how I'd like to  
4 change it.

5 DR. SAMET: And should that be "current  
6 smokers" or "tobacco users"? That doesn't make sense  
7 with "in current smokers" to me, at least. Shouldn't  
8 that --

9 DR. HATSUKAMI: Yes. Is that --

10 DR. SAMET: Shall we just say, "Abuse  
11 liability should be lower," and just take that out?

12 DR. HATSUKAMI: Yes. I think that that's  
13 fine, to take it out. Don't you, Bob? I mean, abuse  
14 liability should be lower for current DTPs.

15 DR. BALSTER: All we have data on are  
16 smokers.

17 DR. EISSENBERG: Are we talking about  
18 particular abuse liability studies?

19 DR. BALSTER: We're talking about all data is  
20 smokers.

21 DR. EISSENBERG: So what are you considering  
22 an abuse liability study? Are you talking about

1 laboratory evaluations that included -- no. There  
2 was at least one where Stonewall was compared to  
3 usual brand smokeless tobacco use.

4 DR. BALSTER: Oh, sorry. Take it out.

5 DR. HATSUKAMI: Yes.

6 DR. EISSENBERG: I'm confused by the word  
7 "should." Are we saying, the data indicate  
8 that -- or, "The limited amount of data that we have  
9 indicate that the abuse liability is"? The should  
10 seems confusing to me.

11 DR. HATSUKAMI: I think "is." It should be  
12 "is," not "should."

13 DR. EISSENBERG: Yes.

14 DR. HATSUKAMI: Yes, that's right.

15 DR. SAMET: So do you want -- "The limited  
16 data available," I think that's probably useful  
17 to -- "limited data reviewed"?

18 DR. HATSUKAMI: "Available." Yes. Sorry.

19 DR. SAMET: Wordsmithing.

20 DR. HATSUKAMI: Oops. So "is." Yes.

21 DR. SAMET: Okay. Is everybody happy with  
22 Dorothy's modification?

1 DR. EISSENBERG: Until we get to SMTs, like  
2 Ellen and John, I was confused about SMTs. And I  
3 don't even know where that abbreviation came from.

4 DR. SAMET: John?

5 DR. LAUTERBACH: Dr. Samet, on these  
6 dissolvable tobacco products, the use of liability is  
7 pretty much limited by the effect of the body of  
8 nicotine in the stomach. You can even have these  
9 things in a candy dish on the table and start taking  
10 these things, and you're going to be basically self-  
11 limiting.

12 DR. EISSENBERG: That's an empirical  
13 question.

14 DR. SAMET: Are you happy with the text as  
15 written?

16 DR. LAUTERBACH: Yes.

17 DR. SAMET: Thank you.

18 DR. HATSUKAMI: Could we just take "other"  
19 out? Instead of "for other most conventional"? It  
20 seems --

21 DR. SAMET: Most.

22 DR. HATSUKAMI: Yes. "For most," yes. And

1 I'm not really sure, Bob. Why did you put "because  
2 of lower nicotine content"? It could be -- did you  
3 add that there? Was that you?

4 DR. BALSTER: At this point, I can't  
5 remember.

6 DR. HATSUKAMI: Because I don't think that's  
7 necessary because it could be --

8 DR. BALSTER: Yes. Okay. I don't remember  
9 what I did.

10 DR. SAMET: And I don't know where SMTs came  
11 from, although I did write this.

12 DR. EISSENBERG: Yes. I think this would be  
13 the first I've ever read that talks about SMTs as  
14 opposed to either ST or SLT.

15 DR. HATSUKAMI: Yes, that's right.

16 DR. SAMET: I'm not sure I know where  
17 that -- so can we just leave it at smokeless tobacco  
18 products? Why don't we just leave it spelled out,  
19 and whatever SMT is and whoever wrote it, which I  
20 don't think it was me, but --

21 DR. EISSENBERG: Yes. It comes repeatedly  
22 throughout the rest of the document.

1 DR. SAMET: So let's kill it.

2 DR. EISSENBERG: So we have to have an  
3 abbreviation.

4 DR. SAMET: You what?

5 DR. EISSENBERG: We have to have an  
6 abbreviation. But it should be either ST or SLT.  
7 Because it shows up repeatedly throughout the rest of  
8 document.

9 DR. SAMET: So what would the group like?

10 DR. HATSUKAMI: ST is fine.

11 DR. SAMET: ST?

12 DR. HATSUKAMI: Yes.

13 DR. SAMET: So leave that. I think it's the  
14 abbreviation we're discussing --

15 DR. HATSUKAMI: Yes. Right.

16 DR. SAMET: -- which the group would like  
17 STs.

18 DR. EISSENBERG: That's actually letter-  
19 smithing, not wordsmithing.

20 [Laughter.]

21 DR. SAMET: All right. So we're going to  
22 take care of that.

1 Moving to the bottom, health risk.

2 DR. HATSUKAMI: Actually, I'm wondering  
3 whether we should add another bullet on cessation  
4 because in terms of the peer-reviewed literature, I  
5 think that what has been shown is that the use of  
6 DTPs may reduce cigarette consumption, but it doesn't  
7 seem to completely substitute for smoking.

8 I think that's demonstrated in the peer-  
9 reviewed literature, and also in your -- at the very  
10 end, you allude to it. And it would be nice to  
11 indicate that that has been found in the peer-  
12 reviewed literature.

13 DR. SAMET: So after abuse liability, you  
14 want a bullet that says cessation?

15 DR. HATSUKAMI: Right.

16 DR. SAMET: And now give us a sentence.

17 DR. HATSUKAMI: "Use of DTPs may reduce  
18 cigarette consumption, but does not completely  
19 substitute for smoking."

20 DR. SAMET: In smokers? In regular smokers?  
21 Regular users?

22 DR. HATSUKAMI: In regular smokers.

1 DR. SAMET: In regular cigarette smokers.

2 DR. LAUTERBACH: Dr. Samet, does that mean  
3 all cigarette smokers, or most, or cigarette smokers  
4 in a clinical setting?

5 DR. SAMET: Dorothy?

6 DR. HATSUKAMI: Yes. That's a good point.

7 DR. SAMET: And, again, this should be  
8 couched around what we've heard and the evidence. So  
9 if you want to say, "Evidence considered by TPSAC  
10 suggests that," I think that's --

11 DR. HATSUKAMI: That's a good point.

12 DR. SAMET: That's true of all of these.

13 Okay with this one? Then on to health risk,  
14 the next page.

15 DR. LAUTERBACH: Dr. Samet? Can you say that  
16 "for most regular cigarette smokers"?

17 DR. HATSUKAMI: Yes. That sounds good.

18 DR. LAUTERBACH: The last, that we have  
19 "most."

20 DR. HATSUKAMI: Yes. Good point.

21 DR. SAMET: Next, health risk.

22 DR. HATSUKAMI: I have a point.

1 DR. SAMET: Dorothy?

2 DR. HATSUKAMI: So I think that in the last  
3 part of that sentence, it should be, "less hazardous  
4 than either cigarettes or most conventional STs."  
5 Because we do have those snus products now that may  
6 be just as hazardous as DTPs.

7 DR. SAMET: All right. Other comments here  
8 on health risk?

9 DR. HECK: Just a comment. You can capture  
10 some of what John was saying, and additionally,  
11 something that Neal said earlier about the great  
12 diversity, what, worldwide or maybe even domestically  
13 in smokeless products.

14 Shouldn't we consider just dropping the  
15 mention of smokeless tobaccos here and just stick to  
16 the more clearcut cigarette versus this category,  
17 rather than getting enmeshed in the snus versus  
18 traditional moist smokeless versus offshore things?

19 DR. SAMET: What does the group think? So  
20 the proposal is essentially to make this a comparison  
21 to cigarette smoking.

22 DR. HECK: Where there's much more clearcut

1 and there's less -- yes, just much more clearcut.  
2 What do we gain by bringing the traditional smokeless  
3 in here?

4 DR. HATSUKAMI: Well, I think, in part, some  
5 of the traditional smokeless tobacco products have  
6 high levels of toxicity. And so I think DTPs have an  
7 advantage in that those toxicants are lower than some  
8 of the smokeless tobacco products that are sold here  
9 in the U.S.

10 DR. HECK: Certainly, in some of the older  
11 epi studies, and I guess the Winn study we're  
12 thinking of from some time ago with dry snuff, there  
13 was a significant elevated health risk. But as John  
14 points out or as was pointed out in the comments we  
15 heard this morning, the contemporary smokeless  
16 products, the studies after, let's say, 1990, there  
17 really hasn't been a significant risk of oral cancer  
18 demonstrated.

19 So rather than getting into that, I'm just  
20 suggesting maybe we could make the simpler point that  
21 there seems to be a stark contrast to cigarette  
22 smoking.

1 DR. SAMET: Neal?

2 DR. BENOWITZ: I would agree with that. I  
3 don't think we really have any data on health risks  
4 of current smokeless tobacco products in the U.S.,  
5 the currently marketed ones.

6 MALE VOICE: But we do have data on TSNAs.

7 DR. SAMET: Yes. We certainly don't have  
8 epidemiological data, obviously, because that's still  
9 a long time to come.

10 DR. BENOWITZ: Right.

11 DR. SAMET: So the proposal is to basically  
12 say this exclusive use of DTPs should be less  
13 hazardous than that associated with regular cigarette  
14 smoking, period.

15 DR. BENOWITZ: Yes.

16 DR. HATSUKAMI: Yes. That's all right.

17 DR. SAMET: No, that stays. Based on  
18 TSNAs -- do you want to leave nicotine -- "and  
19 nicotine" -- "Based on the information on TSNAs and  
20 nicotine," and then get rid of the studies of cancer  
21 risk of SMTs, or STs, or whatever.

22 DR. HATSUKAMI: But on the other hand -- I'm

1       sorry to say this -- levels of nicotine in the  
2       conventional products are pretty high relative to --

3               DR. SAMET: Yes. So take out nicotine, too?  
4       So maybe we should say, "Based on information on  
5       TSNAs, exclusive use of DPTs" -- DTPs -- you know,  
6       this is so easy for those of us who are physicians.  
7       DPT is sort of like a natural -- "should be less  
8       hazardous than regular smoking of cigarettes."

9               Mirjana?

10              DR. DJORDJEVIC: Since we are taking about  
11       health risks, we should also have non-tobacco users  
12       as a control because risk of those who never used  
13       tobacco and start with the dissolvables can be  
14       higher.

15              DR. SAMET: Well, I think this is one of  
16       those issues where we can make this comparison. I'm  
17       not sure we know what to say about what you suggested  
18       based on the data that we have seen, unless we say  
19       that some TSNAs from a dissolvable product are more  
20       than one would have had otherwise. But let's see.

21              DR. BENOWITZ: Actually, I would like to  
22       change this. I don't think that this sentence on

1 hazard is really based on TSNAs. It's based on the  
2 fact that cigarette smoke generates a lot of toxins,  
3 a lot of combustion products, a lot of carcinogens, a  
4 lot of things.

5 So I think we can say, based on just overall  
6 exposure, these products should be less hazardous  
7 than regular smoking. We can also say that DTPs  
8 contain less TSNAs than currently marketed smokeless  
9 tobacco, but the health consequences of that are not  
10 known.

11 So I'd recommend something like that, or --

12 DR. SAMET: So we made the comment before  
13 about TSNAs. So what you really want to say is based  
14 on understanding of the delivery of toxins to  
15 smokers --

16 DR. BENOWITZ: Right.

17 DR. SAMET: -- from cigarettes.

18 DR. BENOWITZ: Right. So it's not TSNAs.  
19 It's just toxins from tobacco smoke.

20 DR. SAMET: Of the delivery of toxins to  
21 cigarette smokers.

22 DR. BENOWITZ: Right.

1 DR. SAMET: Exclusive use of DTPs should be  
2 less hazardous than regular cigarette smoke. I think  
3 that's --

4 DR. BENOWITZ: Than cigarette smoking.  
5 Right.

6 DR. SAMET: The key question, of course, is  
7 how much, but I think this is a qualitatively correct  
8 judgment.

9 DR. BENOWITZ: Yes. That's fine.

10 DR. SAMET: Yes. Ellen?

11 DR. BENOWITZ: And I think we should -- since  
12 we have the data, we should also say something about  
13 TSNAs, where we can say that their contents are lower  
14 than that of currently marketed commercial --

15 DR. SAMET: Well, we've done that. That was  
16 previously.

17 DR. BENOWITZ: No, no, no. But I'm saying  
18 here, we can say that it's lower than commercial  
19 smokeless tobacco, but the implications with respect  
20 to health are unknown.

21 So just bring it up in terms of the health  
22 risk because before, we had smokeless tobacco here.

1 We took that out because we don't have epidemiology.  
2 We do have data on carcinogen exposure. We can say  
3 that carcinogen exposure is less, but we don't know  
4 what the implications are in terms of health.

5 DR. SAMET: Let's go back up to where we  
6 talked about content.

7 DR. BENOWITZ: No. But I'm talking about  
8 health risk here.

9 DR. SAMET: No, I know. I know. But I just  
10 want to go back to what we said earlier. So that's a  
11 page or two back.

12 MALE VOICE: That's right there.

13 DR. SAMET: No. Keep going. Here. So we  
14 say, "Available data for some products show delivery  
15 to users of lower amounts of nicotine and TSNAs than  
16 are delivered by cigarettes."

17 DR. BENOWITZ: Right.

18 DR. SAMET: So we've said that.

19 DR. BENOWITZ: Yes. What I'm talking about  
20 here is smokeless tobacco. I'm comparing these  
21 products to the usual forms of smokeless tobacco.  
22 I'm just making the point that TSNAs in the currently

1 marketed dissolvables are lower than the currently  
2 marketed smokeless tobacco products, but the health  
3 implications of that are, at present, unknown.

4 DR. SAMET: Or should the point, if we want  
5 to make it about the comparison of TSNA content of  
6 DTPs versus other products, should that be in the  
7 earlier bullet?

8 DR. BENOWITZ: Well, but if we're talking  
9 about health risks, I think we should bring something  
10 on the health risk, but just say that the  
11 implications with respect to health are not presently  
12 known.

13 DR. SAMET: So let me see. Do you have that  
14 sentence? So here. Give Caryn the sentence one more  
15 time.

16 DR. BENOWITZ: "The TSNA content of DTPs is  
17 lower than that of currently marketed ST products,  
18 but the health implications of this difference are  
19 not presently known." Something like -- does that  
20 sound okay?

21 DR. SAMET: It sounds okay, although less is  
22 likely to be better than more. I mean, it seems a

1 little -- I mean, you're saying that the yield of  
2 carcinogens, tobacco-specific, a group of carcinogens  
3 is less.

4 DR. BENOWITZ: Right.

5 DR. SAMET: And then we're saying we don't  
6 know what that means. I'm actually a little troubled  
7 by that.

8 DR. BENOWITZ: Well, because we know that  
9 smokeless tobacco products deliver carcinogens. But  
10 many studies, like in Sweden and possibly in the U.S.  
11 in the future, have not shown a cancer risk. And so  
12 there's probably a threshold.

13 DR. SAMET: Okay. So, then, why don't we  
14 say, "but the public health implications of this  
15 difference are unknown," or something. Because I  
16 think that's where we get into -- yes, Mark?

17 DR. CLANTON: May I? I was wondering, Neal,  
18 are you making a distinction between pro-carcinogens,  
19 TSNAs, versus toxins overall? Because I'm trying to  
20 understand whether or not the original statement is  
21 comprehensive and would include TSNAs.

22 But if you're making a distinction between

1 pro-carcinogens and overall toxins, formaldehyde,  
2 et cetera, then I understand why there'd be a  
3 difference.

4 DR. BENOWITZ: Well, cigarette smoke is just  
5 a mixture of thousands of carcinogens.

6 DR. CLANTON: Absolutely.

7 DR. BENOWITZ: Or not thousands. Lots.

8 DR. CLANTON: Right.

9 DR. BENOWITZ: And so there it's very clear  
10 that tobacco smoke is much more hazardous. For  
11 commercial smokeless tobacco, I think it's an  
12 interesting question because these DTPs do expose  
13 people to less. We don't know if that matters or  
14 not. It might.

15 DR. CLANTON: We don't know.

16 DR. BENOWITZ: We just don't have the data.  
17 We don't have the data in the U.S. yet, the  
18 epidemiology, to say is there any increased risk of  
19 pancreatic cancer in the U.S. or other cancers?  
20 There could be a difference. There could be an  
21 impact. We just don't know.

22 DR. SAMET: John, did you have a comment, or

1 have we gone by it?

2 DR. LAUTERBACH: Well, I did have one  
3 comment. There's a paper that came out in Chemical  
4 Research and Toxicology within the past week -- I  
5 thought I had a copy with me; I left it back in the  
6 hotel room -- which would shed light on this  
7 question, albeit it's a theoretical paper.

8 DR. SAMET: Then the next time this is  
9 reviewed, they will look at that paper.

10 [Laughter.]

11 DR. SAMET: Ellen?

12 DR. PETERS: This goes back to a comment that  
13 Mirjana made a minute ago and that I mentioned  
14 earlier. I think we need something, some kind of  
15 judgment or evaluation, of the absolute risk of  
16 currently marketed products, whether that is unknown,  
17 which I think might be what you've suggested.

18 I think some comment is made on that because  
19 it's relevant to people who use the products and  
20 never would have smoked. But it's also relevant to  
21 people who are trying to step down from cigarettes  
22 and are currently only using dissolvable tobacco

1 products and might want to consider stepping down  
2 from there.

3 DR. SAMET: So let's put an Ellen placeholder  
4 there and see if this is something here or there. I  
5 mean, we really don't have information on absolute  
6 risk, and we could say that, and maybe that would be  
7 helpful. Of course we don't have information. We  
8 couldn't.

9 Yes, Bob?

10 DR. BALSTER: So this is the same thing I was  
11 basically trying to raise way early out, and that is  
12 that no tobacco-containing product is safe. Is this  
13 a place to just say that? No tobacco -- when you  
14 talk about health risks, no tobacco-containing  
15 product is safe. It simply isn't.

16 DR. SAMET: Again, I'm going to keep us on  
17 charge, though, which is what I said before. I think  
18 the question is that whether we want to say that at  
19 this point on health risk, that there are no data  
20 available that allow TPSAC to comment on the  
21 attributable risk, whatever we want to use, or the  
22 risk of these products as they might be used in the

1 population. We just simply don't have it.

2 So if a comment here is to say there are no  
3 epidemiological data available to assess risk of  
4 these products in actual use, period -- I mean, if  
5 that's the comment, we can put that in.

6 MS. COHEN: You want to put it right here?

7 DR. SAMET: Yes. Sure. That's the Ellen  
8 placeholder.

9 Dan?

10 DR. HECK: Just a slight change to the  
11 sentence that Neal has added here. If we could say  
12 something like, then, "some or many currently  
13 marketed," because we're really talking about the  
14 traditional moist snuffs here, I think. But some  
15 traditional products like loose leaf chew, for  
16 instance, has always been in the area of the Swedish  
17 levels.

18 So we just say "some" or "most" or something  
19 other than "all currently marketed," I think it would  
20 be more accurate.

21 DR. SAMET: Neal?

22 DR. BENOWITZ: I'm happy with "most."

1 DR. SAMET: I'm actually on strike. No  
2 microphone.

3 [Laughter.]

4 DR. SAMET: So you want to put "most" in  
5 front of "currently marketed."

6 DR. HECK: Something to not sweepingly  
7 include all products because somebody may raise an  
8 objection because there may be other products, like  
9 snus, for instance.

10 DR. SAMET: All right. Fine.

11 Fred?

12 DR. PAMPEL: As a non-expert on this, I'm  
13 puzzled by the minimization of the importance of  
14 TSNAs in these changes. In all the studies we've  
15 looked at, I thought that came up again and again as  
16 a criterion for what's harmful and what's not. This  
17 whole paragraph sort of reads like we just don't  
18 know. It's not important.

19 DR. SAMET: Neal?

20 DR. BENOWITZ: Well, they are one of many  
21 carcinogens in cigarette smoke, and there are  
22 certainly potent lung carcinogens, and probably

1 esophageal carcinogens and pancreatic carcinogens, in  
2 tobacco smoke. But based on the experience, say,  
3 with the Swedish snus, which does deliver TSNAs but  
4 not the other combustion products, cancer risks for  
5 most cancers is nil; there may be a pancreatic cancer  
6 risk, and even that is less than cigarette smoking.

7 So there's probably a factor of the combined  
8 exposure to TSNAs plus other carcinogens and also  
9 dose response. So while it's not good to have any,  
10 there could be some level that causes relatively few  
11 cancers. So that's why it's so speculative.

12 DR. SAMET: Is there another hand?

13 DR. PETERS: Just quickly. I think you have  
14 to, in that last sentence, just make it, "There are  
15 no epidemiological data available on the absolute  
16 health risks." Otherwise it's going to read very  
17 funny compared to the comparative health risks that  
18 you had above.

19 DR. SAMET: Okay. Turn the page. Consumer  
20 perception. There's a comment here I actually -- if  
21 somebody asked me to quote exactly which study was  
22 the one study, I would say, go look at all the

1 materials. But at least that was what came out of  
2 the notes.

3 Does anybody recall this? Dorothy?

4 DR. HATSUKAMI: Yes. It was the O'Hegarty  
5 study. They did a focus group, trying to see what  
6 people's perceptions were of Ariva. And I guess they  
7 had indicated that a significant number thought that  
8 they were non-tobacco products.

9 DR. SAMET: And John, you cite under Romito,  
10 et al. Do you remember what that shows?

11 DR. LAUTERBACH: Well, what I did is went  
12 into PubMed and looked at dissolvables versus the  
13 different brand names. And I couldn't find anything  
14 with Ariva and perception. But this Romito did come  
15 with -- included Camel products in their study.

16 DR. SAMET: Do you by chance have that with  
17 you?

18 DR. LAUTERBACH: Let's see. Romito is 2011.

19 DR. SAMET: Does this study ring a bell with  
20 anyone? Dorothy, does this --

21 DR. HATSUKAMI: Yes. Romito was in our  
22 packet of information.

1 DR. SAMET: Microphone.

2 So why don't we try and sort that out. So  
3 the sentence, as written, may not be inclusive of all  
4 the studies that we saw. All right.

5 So while you two are thinking, let's go on.  
6 "Consumer response. Consumers have not responded  
7 positively to current products."

8 Neal?

9 DR. BENOWITZ: Again, it's sort of  
10 wordsmithing. But I think we should just say, "In  
11 general, consumers have not responded," because there  
12 are some who do.

13 DR. SAMET: Okay.

14 So while this is getting sorted out, let's go  
15 to page 17. So childhood poisoning, with the move of  
16 the "to date."

17 [No response.]

18 DR. SAMET: All right. Then on to Industry  
19 Presentations and Documents. So product range, I  
20 think that's pretty straightforward.

21 Neal?

22 DR. BENOWITZ: I would just add, "and other

1 constituent yields," because they did look -- some  
2 studies looked at things besides nicotine and TSNAs.

3 DR. SAMET: And there should be contents,  
4 probably. Right?

5 DR. BENOWITZ: Yes. Contents.

6 DR. SAMET: Contents.

7 DR. BENOWITZ: That's right. Contents.

8 DR. SAMET: "With different contents of  
9 nicotine, TSNAs, and other constituents."

10 DR. BENOWITZ: Yes.

11 DR. SAMET: Nicotine, TSNAs, and other  
12 constituents. Make that "TSNAs -- no. And other  
13 constituents, period."

14 DR. DJORDJEVIC: What about such as  
15 benzo-a-pyrene and heavy metals? Because this is all  
16 Group 1, carcinogens by IARC.

17 DR. SAMET: You want to say, "and other  
18 constituents," put an S, comma, "such as"?

19 DR. DJORDJEVIC: BaP, heavy metals.

20 DR. SAMET: "Benzo-a-pyrene and heavy  
21 metals." B-e-n-z-o dash a dash p-y-r-e-n-e, and  
22 heavy metals.

1           Then we come to something in red here.

2           DR. HECK: Yes. I suggested this sentence  
3 because I thought we did hear from some of the  
4 industry manufacturer presentations that the  
5 manufacturers do manufacture against the voluntary  
6 Swedish standard, and that's really the panel of  
7 analytes that has, at the minimum, been developed for  
8 most of these products. So I thought we could  
9 consider a sentence like this.

10          DR. SAMET: Mirjana?

11          DR. DJORDJEVIC: I would like to remember the  
12 presentation by Irina Stepanov and the graph which  
13 she presented showing a very wide variation in TSNA  
14 content, especially Marlboro products, which are like  
15 having over like 3 micrograms per gram of tobacco,  
16 which is way beyond Gothia standards. So I guess if  
17 these products are going to refer to Gothia standard,  
18 then they have to keep the levels within those  
19 standards.

20          DR. SAMET: So should this, say, indicate  
21 that some meet the voluntary standard? Is  
22 that -- John?

1 DR. LAUTERBACH: Dr. Samet, I don't think the  
2 sampling reported in the articles by Stepanov was  
3 anywhere near as extensive to say anything one way or  
4 the other. I mean, people just can't go to a store,  
5 take a sample, and say it represents a whole product  
6 line, or just do a limited number of analyses.

7 That was my comment back and forth when we  
8 first got into this thing on constituents. We really  
9 do not have any solid data one way or the other in  
10 terms of the extent of sampling, based on what's in  
11 the peer-reviewed literature.

12 DR. SAMET: Then what I would actually  
13 suggest is that we delete Dan's addition on the  
14 argument that we don't really have the requisite data  
15 for the products to make this statement as they are  
16 actually in use and as one might sample them if you  
17 were going to try and do exactly what he suggested,  
18 John. So I would suggest we delete it because we  
19 might not be able to support it.

20 Was that okay?

21 DR. HECK: Yes.

22 DR. SAMET: All right. So that we're going

1 to delete.

2 Then, all right, cigarette use. We're on to  
3 page 18. So again, this is now essentially a summary  
4 of what we were presented with by industry. So this  
5 is the evidence presented to us.

6 [Pause.]

7 DR. SAMET: Tim. Tim and then Neal.

8 DR. MCAFEE: I have a real quick question  
9 just on the cigarette use, users smoke fewer  
10 cigarettes than nonusers. If there's anything we  
11 could modulate it to make it clear that we don't know  
12 that this is correlative or causal, that we don't  
13 know that they're smoking fewer cigarettes because  
14 they're using DTPs?

15 DR. SAMET: So what is the suggested wording  
16 change? I mean, again, just remembering that this is  
17 just a summary of what we heard. So, I mean, I think  
18 it's okay. This is --

19 DR. MCAFEE: Yes. Okay. I'm all right.

20 DR. SAMET: Your question of interpretation  
21 is different.

22 Let's see. Neal?

1 DR. BENOWITZ: I just thought we should say  
2 that among those who both smoke and use DTPs,  
3 et cetera.

4 DR. SAMET: Okay. Fred?

5 DR. PAMPEL: I was thinking just cross-  
6 sectional data show users of DTPs smoke  
7 because -- well, people might realize that cross-  
8 sectional data can prevent causality, the way  
9 longitudinal data would.

10 DR. SAMET: Maybe I'm remembering wrong, but  
11 didn't some of this come from studies in which people  
12 were given DTPs and use was tracked? So I don't  
13 think it was strictly cross-sectional, but my brain  
14 is strained here.

15 MALE VOICE: I thought cross-sectional, then,  
16 just remembering.

17 DR. SAMET: Yes. I actually think some of  
18 this comes from studies in which these products were  
19 provided. So I think it's okay. "Among those who  
20 both smoke cigarettes" -- I mean, maybe it's obvious,  
21 but let's just be explicit.

22 Down to marketing. So this is again just

1 descriptive of what we heard and saw.

2 Then cessation? And, let's see, Ellen.

3 You've got a comment here.

4 DR. PETERS: I had thought that either  
5 Dr. Lauterbach or Heck had brought up some  
6 advertising exception to this. But if you guys don't  
7 remember, I must be misremembering.

8 DR. HECK: I can't say that I remember. But  
9 it's possible that in the pre-FDA era, some of the  
10 real early Ariva/Stonewall copy may have made that  
11 kind of reference, but certainly not since the FDA  
12 rule.

13 DR. SAMET: So it does have the leadoff of  
14 "Presently."

15 Tom?

16 DR. EISSENBERG: Yes. Actually, that's what  
17 primed me to write "Presently, and consistent with  
18 current regulatory standards, DTPs are not being  
19 positioned by the industry as useful for cessation."

20 DR. SAMET: Speak slowly.

21 DR. EISSENBERG: Presently, comma, and  
22 consistent with current regulatory standards, comma,

1 DTPs are not being positioned.

2 DR. SAMET: Okay. Page 19?

3 MALE VOICE: Did you say current?

4 DR. EISSENBERG: Yes. Current regulatory  
5 standards.

6 DR. MCAFEE: Can I make one other on this  
7 one? Is whether we should say, they are not being  
8 positioned by the industry as useful for cessation or  
9 as replacements for cigarettes.

10 DR. SAMET: Well, the bullet, though, is  
11 about cessation.

12 DR. MCAFEE: Okay.

13 DR. SAMET: So I think probably that --

14 DR. HECK: But just building on what Tim  
15 said, should we say cigarette cessation here? It  
16 wouldn't take much room and --

17 DR. SAMET: For cessation of cigarette  
18 smoking, as opposed to cessation of exercising.

19 [Laughter.]

20 DR. SAMET: Youth. And again, I --

21 DR. MCAFEE: The only thing I have a question  
22 on, though, in that wording, is that a true

1 statement, that current regulatory standards would  
2 not allow positioning as them being useful for  
3 cessation of cigarette smoking?

4 Because I know Reynolds did this around some  
5 snus campaigns, where they were encouraging people to  
6 be abstinent for a month or two months, with prizes  
7 and all this. It's not cessation in the classic  
8 sense, but it's product -- I mean, can't the tobacco  
9 industry compete one product versus another product  
10 without requiring the regulatory signoff on that?

11 DR. HECK: I guess they're trying to  
12 encourage trial by smokers with various promotions.  
13 But whether that would be explicit enough to be  
14 termed a smoking cessation effort, I don't know.

15 DR. SAMET: I think it's probably okay as it  
16 stands. I mean, I think not being as useful  
17 or -- maybe you could make it stronger and say  
18 "effective." I don't think there's any claim being  
19 made that they are effective for smoking  
20 cessation -- for cessation of -- so maybe change  
21 "useful" to "effective," and I think that's probably  
22 correct.

1           Are you okay, Ellen? Okay.

2           So open public hearing and public  
3 submissions. So this is, again, a caption of what we  
4 heard. And actually, for those who --

5           DR. CLANTON: To tell us what it was.

6           DR. SAMET: What?

7           DR. CLANTON: I mean, and that's accurate.

8           DR. SAMET: Yes. And for those who went in  
9 the public docket, there are also many submissions  
10 there as well from members of the public.

11           DR. BALSTER: I have a -- am I on? About  
12 product perception, I mean, would it be fair to say  
13 something like, "There is some evidence that SLTs can  
14 be perceived as non-tobacco products"?

15           DR. SAMET: DTPs?

16           DR. BALSTER: That DTPs can be perceived as  
17 non-tobacco products. Could we say that there is  
18 some evidence -- product perception. Could we say,  
19 "There is some evidence that SLTs can be perceived as  
20 non-tobacco products"? I'm thinking specifically of,  
21 for example, the Virginia study, which has -- that  
22 came in through the open public hearing.

1 DR. BENOWITZ: It's also mentioned in the  
2 peer-reviewed literature review.

3 DR. BALSTER: Yes, we mentioned it earlier,  
4 but we're thinking about taking it out there. So I'm  
5 just wondering if it's okay to put it here. We  
6 certainly obtained some evidence on it; we got more  
7 materials in our packets today. It would just simply  
8 say, "There is some evidence that SLTs can be  
9 perceived as non-tobacco products."

10 DR. SAMET: You mean DTPs every time you're  
11 saying --

12 DR. BALSTER: DTPs. I'm sorry. DTPs.

13 DR. SAMET: So I'm noticing, if you skip to  
14 page 25, there's a comment on youth use of DTPs. But  
15 we don't say anything there about youth perception.  
16 But I think the data you're citing, Bob, would all be  
17 in reference to youth, wouldn't they?

18 DR. BALSTER: Yes.

19 DR. SAMET: So maybe -- I mean, it's a little  
20 hard to split this out. But this, in terms of what  
21 we heard at the public hearings and I think what was  
22 in some of the comments would support making these

1 statements. I mean, if we want to say that, "Data  
2 presented from youth surveys suggested that these  
3 products may not be perceived as tobacco products by  
4 youth," that could go in here. That would be --

5 DR. BALSTER: Something like that.

6 DR. SAMET: I think that would be --

7 DR. BALSTER: That'll work.

8 DR. SAMET: Is that okay?

9 DR. BALSTER: Yes.

10 DR. SAMET: So the awkward -- "Data presented  
11 from youth surveys suggested that DTPs may not be  
12 recognized as tobacco products by youth."

13 DR. BALSTER: That's fine.

14 DR. SAMET: It's a little awkward, but --

15 DR. BALSTER: You've got "youth surveys"  
16 there. That seems -- how about, "Data presented from  
17 surveys of youth suggested"?

18 DR. SAMET: I think we've got a double youth  
19 here no matter what.

20 DR. BALSTER: Then take out the final one.

21 DR. SAMET: Okay. John?

22 DR. LAUTERBACH: Are we really that confident

1 in the validity of those surveys?

2 DR. SAMET: What is your concern?

3 DR. LAUTERBACH: I think that they were -- my  
4 understanding was, some of these things had almost  
5 hidden messages, like a thing of Tic-Tacs in there  
6 and, you know, whether they had been validated. I  
7 mean, certain things out of the hardware store,  
8 packages like that, were any of these things checked  
9 to see whether people could recognize something that  
10 wasn't tobacco instead of candy? I mean, it just  
11 seemed like, from what I saw of those surveys, those  
12 things are of questionable validity.

13 DR. SAMET: Well, I think we've described  
14 what we saw, we heard. And we said "suggested." I  
15 mean, we're not finding a conclusion here. We're  
16 just presenting the findings of the surveys.

17 DR. BALSTER: I mean, it's no more or less  
18 true of the previous sentence, the perception that  
19 the risks are exaggerated. But we have no hard data  
20 on that, either. That was also basically coming from  
21 public comment.

22 DR. SAMET: I think we have not reached a

1 conclusion here. We just have captured what was  
2 said.

3 Yes, Tom?

4 DR. EISSENBERG: I'm unclear. This stuff we  
5 got in preparation for this meeting from Star  
6 Scientific, I'm unclear what category it fits in  
7 because it comes with a lot of public comments, if  
8 you will, individuals writing in.

9 DR. SAMET: Right.

10 DR. EISSENBERG: And those individuals  
11 contradict the statement, "nor being used by  
12 themselves for smoking cessation." So I don't know  
13 where we want to put that.

14 DR. SAMET: Would you like to propose a  
15 particular -- a specific change here? There's a lot  
16 of material that was presented in here.

17 DR. EISSENBERG: If this counts as public  
18 comment --

19 DR. SAMET: It does.

20 DR. EISSENBERG: -- then it's not true that  
21 they are not being used by themselves for smoking  
22 cessation. There are several reports in this book of

1 people using Ariva by itself for smoking cessation.

2 DR. SAMET: Okay. So maybe the way to do  
3 this is "were neither well liked nor being widely  
4 used by themselves for smoking cessation" --

5 DR. EISSENBERG: I'll go with that.

6 DR. SAMET: -- is that all right? Okay.

7 DR. EISSENBERG: Being widely used.

8 DR. SAMET: Yes. By themselves. I mean,  
9 obviously our evidence here is so fragmentary that I  
10 think we just have to be careful.

11 So we're on the government actions. I think  
12 the answer was both, Ellen.

13 MALE VOICE: It is both.

14 DR. SAMET: It's both, yes. Certainly, we've  
15 probably heard more vociferously about e-cigarettes,  
16 but I think the answer is both.

17 DR. HECK: I think this last sentence  
18 reflects two sets of comments that were -- one of  
19 which is mind, kind of reworking the phrasing. It's  
20 a little confusing now, but --

21 [Pause.]

22 DR. SAMET: Additionally, should more

1 proactively educate the public on the risks  
2 associated with -- how about if we just -- I'm not  
3 sure. I mean, the comment really was about specific  
4 products and not --

5 DR. CLANTON: "Specific" is probably a word  
6 you want to substitute.

7 DR. SAMET: What if we just said, "with  
8 specific products," period, and then got rid of  
9 everything that follows, which I don't quite  
10 understand at this moment?

11 DR. BENOWITZ: Well, I think there are  
12 several -- Jon?

13 DR. SAMET: Neal?

14 DR. BENOWITZ: There were a number of  
15 speakers who made the point about generalizing to all  
16 tobacco products, so that there was no  
17 differentiation of risk. So that point was made by  
18 many public speakers.

19 DR. SAMET: Yes. That's true.

20 DR. HECK: Change it to "relative risk."

21 DR. SAMET: Associated with various  
22 products --

1 DR. BENOWITZ: Really, it is specific  
2 products versus tobacco products in general.

3 DR. SAMET: So I guess the sentence should  
4 be, "should more actively educate the public on the  
5 risks associated with specific products and not just  
6 the risks of tobacco in general," if that's okay.

7 DR. BENOWITZ: Yes.

8 DR. SAMET: Are you scratching your head,  
9 John, or is that a question?

10 DR. LAUTERBACH: I'm contemplating.

11 MALE VOICE: Wouldn't it be better read, "the  
12 public on the relative risks associated"?

13 DR. SAMET: I think, actually, risks is  
14 probably better, I think.

15 On to Swedish Experience. So my remembrance  
16 of this was that the bullet labeled "Context," if we  
17 could go to it, which is page 22 -- I will note that  
18 this gets us halfway there -- was quite -- that we  
19 were quite unanimous in feeling that there was  
20 limited generalizability of the Swedish experience.

21 We discussed this at some length, that there  
22 really were unique characteristics. I think the

1 addition of "government engagement" helps. But I  
2 think we said, "that limits generalizability." We  
3 haven't said that it excludes any generalizability,  
4 but I think we're really suggesting caution.

5 So I think the context bullet, as it stands,  
6 we had extensive discussion about in our January  
7 meeting. "Government engagement" is a useful  
8 addition. And I'm going to suggest that we don't  
9 need -- unless somebody wants to re-engage on this,  
10 that this was a pretty firm conclusion from us.

11 Now, I'm going to come back because I  
12 recognize there's some green language before that.  
13 But I want to just take a look at all this, and then  
14 we can come back and have the more generic  
15 discussion.

16 So, I don't know, where did the next bullet,  
17 the new red bullet -- Dan?

18 DR. HECK: Mr. Chairman, I just got the  
19 impression that although true enough, the first  
20 bullet, I just thought it kind of cast aside this  
21 vast literature and natural experiment, if you will,  
22 from decades of experience. I think there's some

1 value there to inform this. I wanted to capture  
2 this, not just "limited generalizability" and we move  
3 on. That's kind of the point I wanted to make, if  
4 the committee agrees.

5 DR. SAMET: So we've got sort of a one  
6 hand/other hand kind of thing here.

7 Comments about this? Mark?

8 DR. CLANTON: This almost sounds like an  
9 issue related to certainty and uncertainty. So the  
10 question is making a hard statement about limited  
11 generalizability versus another statement that says,  
12 we're uncertain, or we don't know what the  
13 generalizability might be from Sweden to the United  
14 States. So that's what I would throw out.

15 DR. HECK: Even the existing first bullet  
16 imposes some limits on the -- salvaged some value out  
17 of what I think is quite an informative history and  
18 literature.

19 DR. MCAFEE: It looks to me like we're doing  
20 that, we're implying that, because we don't stop  
21 there. That's the context. We then go on to talk  
22 about it and give specific examples of things that

1 we've learned from the Swedish experience. So it  
2 seems a little unnecessary.

3 DR. SIMONS-MORTON: It seems to me that in  
4 context, we might want to say something about the  
5 uniqueness of the Swedish experience, representing  
6 the only national population experience we have that  
7 has data, so it makes it an interesting case.  
8 However -- I mean, it is useful.

9 DR. SAMET: Well, I guess the question is, is  
10 it useful in any way for dissolvable tobacco  
11 products? I think that's actually the question, not  
12 substitution of snus in the United States. That's  
13 not what is at issue here. It's dissolvable tobacco  
14 products.

15 So does this experience help us in any way  
16 with our task of risks and benefits of DTPs? Neal?

17 DR. BENOWITZ: I think it does in terms of  
18 direct harm because we have a lot of data,  
19 epidemiological data, on snus and direct harm in  
20 Scandinavia. So it sort of gives us an outside  
21 boundary of what the risks might be.

22 In terms of social use, I think that's where

1 it's really limited because of the whole context of  
2 use in the U.S., and the people who start using it in  
3 the U.S. versus Scandinavia are quite different.

4 So I think in terms of quitting behaviors and  
5 things like that, it's not very generalizable, but in  
6 terms of direct harm, I think it is generalizable.

7 DR. SAMET: Let me ask if there should be a  
8 bullet before the one that says context that  
9 says -- and we did hear about the Swedish experience  
10 in some detail and saw a number of papers -- that  
11 could say exactly what you said. There could be a  
12 bullet before context that says, "The presentation of  
13 the Swedish experience with snus documented," and  
14 then we could refer to the patterns of lung cancer,  
15 for example, or whatever you feel appropriate.

16 Then the next bullet is context, which says  
17 we're not certain about the generalizability of this  
18 for DTPs in the United States. I think that's a very  
19 fair comment. I mean, I think that we have to say  
20 that.

21 So to fully describe what we heard, there  
22 would be a bullet antecedent to the one now that says

1 context that captures what you said.

2 Dorothy?

3 DR. HATSUKAMI: I wonder if you can put the  
4 second bullet -- that's the modified, the addition,  
5 if you can put it under health benefits. And in that  
6 way, it acknowledges the fact that the Swedish  
7 experience has contributed to our knowledge about the  
8 potential health benefits of DTPs if they're used  
9 exclusively.

10 DR. SAMET: So you want Neal's statement --

11 DR. HATSUKAMI: So it is --

12 DR. SAMET: -- that might come before health  
13 benefits. There's a sentence there that says, "The  
14 Swedish experience documents," and we'll fill in the  
15 blank. And then, "For health benefits to be fully  
16 realized, complete substitution of cigarettes" -- I'm  
17 not sure "was needed" -- I'm not sure I quite  
18 understand that now.

19 I think the context statement is the one that  
20 says, well, how important is this for us addressing  
21 our charge around DTPs? The answer, we don't know,  
22 and that we have some concerns about its

1 generalizability.

2 John?

3 DR. LAUTERBACH: Yes, Dr. Samet. One of the  
4 concerns I have here is that DTPs have been under  
5 attack from the word go. For example, when Star  
6 first brought out their product in 2001, there was an  
7 immediate attack on it from health organizations.  
8 There was an immediate attack on it from Glaxo. And  
9 it took quite a while to straighten those things out  
10 and get these products properly classified and  
11 recognized as smokeless tobacco products.

12 Then when this current round of more  
13 contemporary DTPs came out, again we had a whole  
14 anti-approach to them, including putting the statute  
15 in about this committee studying them. And I think  
16 this is -- and then we have the continual warning on  
17 these products that they're just as dangerous as  
18 cigarettes. And you may remember Dr. Rutqvist's  
19 statement when he read in his testimony what the  
20 warning was in Sweden versus the warning here in the  
21 States.

22 You know, we've done everything possible to

1       compromise the ability of these products to be  
2       treated in the same manner as snus is in Sweden.

3               DR. SAMET: Well, I actually think that  
4       speaks to the point. The context is quite different  
5       at the moment, as you point out. So I think the  
6       context statement is correct. I think that we are at  
7       the point of deleting the red bullet, the bullets  
8       added by Dan, but under health benefits, making a  
9       further description of what happened in Sweden, if  
10       that works for everybody.

11               Dorothy?

12               DR. HATSUKAMI: I guess my suggestion is to  
13       put Dan's comment under the health benefits and make  
14       it specific -- Dan's comment specific to how the  
15       Swedish experience can inform us about the potential  
16       health effects of DTPs. So if you --

17               DR. SAMET: So I think that's consistent with  
18       what we want. We want a sentence that goes, "Health  
19       benefits, colon: The Swedish experience, as  
20       presented to TPSAC and documented in the literature,  
21       shows that the pattern of heavy snus use in Sweden  
22       was associated with lower lung cancer rates," period.

1           Neal, does that work for you?

2           DR. BENOWITZ: Yes. We could also look at  
3 the epidemiology of snus use in cancer itself, so  
4 it's much lower risks of all cancers.

5           DR. SAMET: So let's generalize. "It was  
6 associated with lower risk of lung cancer and other  
7 smoking-caused cancers."

8           Got that? What?

9           MS. COHEN: Where do you -- put this back up,  
10 then?

11          DR. SAMET: You don't remember that?

12          MS. COHEN: No. Where do you --

13          DR. SAMET: Health benefits.

14          MS. COHEN: Health benefits, which is back  
15 up --

16          DR. SAMET: No. No, no, no, no, no. No.  
17 Page 22. No, no, no. We're talking about the  
18 Swedish -- next. Keep going down. Don't go  
19 backwards. All right. Kill off the red.

20          MS. COHEN: Kill off?

21          DR. SAMET: I'm sorry. Delete.

22          MS. COHEN: I see. I'm sorry.

1 DR. SAMET: And then there's a sentence,  
2 "Health benefits," and then -- no, right after health  
3 benefits. Right there. Oh, it was so beautiful when  
4 I said it.

5 I think what we want to say is that  
6 "presentations to TPSAC and peer-reviewed literature  
7 document a lowering of rates of lung cancer and other  
8 tobacco-caused cancers as snus use increased in  
9 Sweden."

10 DR. LAUTERBACH: Should we say "other  
11 smoking-related diseases"?

12 DR. SAMET: Neal?

13 DR. BENOWITZ: Jon, two points. One, you're  
14 mixing two different kinds of studies. The lung  
15 cancer study is sort of the temporal trends.

16 DR. SAMET: Right.

17 DR. BENOWITZ: The other cancers are case  
18 control studies.

19 DR. SAMET: Case control studies. Correct.

20 DR. BENOWITZ: And also, I think as John's  
21 saying, there are also data showing lower risks of  
22 cardiovascular disease.

1 DR. SAMET: Disease. That's right. That's  
2 true. So "peer reviewed document a lowering of rates  
3 of lung cancer and other tobacco-caused cancers as  
4 snus use increased in Sweden. Epidemiological  
5 studies showed lower relative risks for major  
6 smoking-caused diseases, comparing users of snus with  
7 regular cigarette" -- "comparing snus use" -- well,  
8 "use of snus with regular cigarette smoking."

9 DR. CLANTON: I thought it was relative risk.

10 DR. SAMET: Relative risk, yes. Relative  
11 risk. "Showed lower relative risks" -- I know this  
12 is all being captured and could be read back to  
13 us -- "for major smoking-caused diseases  
14 associated" -- "among snus users compared with  
15 regular smokers."

16 This is a little tricky because, of course,  
17 there are people who switched, if you look at those  
18 studies.

19 MS. COHEN: Cigarette smokers?

20 DR. SAMET: "Among regular cigarette  
21 smokers." I guess that's correct because these are  
22 people who use it either in some mixed form or -- so

1 it's probably okay.

2 Neal, are you comfortable with that?

3 DR. BENOWITZ: Yes. The first sentence,  
4 then, I would get rid of "other tobacco-caused  
5 cancers" because the only data I know of are for lung  
6 cancer in terms of --

7 DR. SAMET: Yes. Fair. That's right. So,  
8 "lowering the rates of lung cancer as snus used  
9 increased." And get of the "and other tobacco-caused  
10 cancers."

11 All right. And then, "For health benefits to  
12 be fully realized" -- now, let's look at the rest of  
13 this -- "complete substitution of snus for cigarettes  
14 was needed." I guess that refers to the reduction of  
15 relative risk.

16 Neal?

17 DR. BENOWITZ: I've got a problem with  
18 wording, "health benefits being fully realized,"  
19 because obviously, if you cut the risk of something  
20 by 25 percent, there is a health benefit that's  
21 realized. So the wording is not quite right. I'm  
22 not sure what the right wording should be.

1 DR. SAMET: Do we need this? Could it go?

2 DR. BENOWITZ: Yes. I think so.

3 DR. EISSENBERG: Well, I would like to argue  
4 with that because this was a point that I pressed  
5 Dr. Rutqvist on several times because I was struck by  
6 his statement using data that he presented, that in  
7 order for the -- and I don't have the transcript in  
8 front of me, so I'm paraphrasing, but I'm pretty  
9 clear on his message -- in order for the health  
10 benefits of snus in Sweden to be seen, people had to  
11 switch completely to snus from cigarettes.

12 He said it several times because I asked him  
13 to say it several times, and he kept agreeing with  
14 it. And I was struck with it because, of course,  
15 this goes to the conceptual model, the dual use  
16 issue. Okay? And if we're willing to accept a large  
17 amount of dual use, given what we're hearing from  
18 Sweden, that with snus, dual use does not lead to a  
19 health benefit, then we've got a problem there.

20 DR. SAMET: Dan?

21 DR. HECK: But I think, as we heard in I  
22 guess Dr. Ogden's presentation this morning, harking

1 back to the '89 Surgeon General's report showing the  
2 dose responsiveness of the smoking-related risk, to  
3 the extent that any of these products displace  
4 smoking, it's hard to imagine there's not a benefit  
5 that may or may not be detectable in a given study.

6 We have a new study in I guess the American  
7 Journal of Epidemiology this week looking at smoking  
8 reducers in Israel, showing a modest but  
9 statistically measurable benefit.

10 So I don't know how many of these studies  
11 have analyzed dual users versus exclusive snus-ers or  
12 ex-smokers, but it seems to me that the "fully  
13 realized" statement or something like that, as  
14 opposed to there's absolutely no benefit unless  
15 you've completely quit smoking -- I think that's --

16 DR. SAMET: Well, "fully realized" gets  
17 at -- Tim?

18 DR. MCAFEE: I'm okay with it, but I strongly  
19 agree with Dr. Eissenberg that this is a very  
20 important point, especially because of our situation  
21 in the United States, where it may have been a more  
22 minor component of the situation in Sweden because

1 there were many more people that were single users of  
2 snus.

3 But in our situation, this is a pivotal issue  
4 around the role of whether it's dissolvables or snus.  
5 And I think this is a controversial area. And if  
6 anything, the evidence is moving more  
7 towards -- particularly the area for people that have  
8 been using tobacco products for significant periods  
9 of time, that switching to dual use may be overrated.

10 I think, as Dan mentioned, if the benefits  
11 are modest of introducing these products in terms of  
12 dual use, it ups the ante around the danger that can  
13 be associated around anything that would increase  
14 people's sense that they would not quit where they  
15 might have otherwise quit. And even if a small  
16 fraction -- say it cuts your risk by 10 percent.  
17 Well, if it cuts your risk -- if it decreases your  
18 probability of quitting by 10 percent, that's worse.

19 I mean, I think this is okay the way it is,  
20 but I think taking it out, we would lose a very  
21 important issue and concept.

22 DR. SAMET: Mark?

1 DR. CLANTON: I think the statement is  
2 important to have in there, but it's really talking  
3 about relative risk on a sliding scale. And maybe  
4 the word "maximized" or some synonym of maximization  
5 might be more precise. In other words, in order to  
6 maximize the health benefit, you have to stop  
7 smoking, and I think that might be more precise than  
8 "fully realized."

9 DR. SAMET: So you say, "For health  
10 benefits" -- and then this really should be -- I hate  
11 to say it -- "for health benefits of snus use to be  
12 maximized, complete substitution of snus for  
13 cigarettes is needed."

14 DR. CLANTON: I'm offering that up as maybe a  
15 more precise --

16 DR. SAMET: Tom?

17 DR. EISSENBERG: Well, first, to that  
18 specific language, that's not what Dr. Rutqvist said.  
19 And so if we're going, based on the data we were  
20 presented, then I'm not sure that's the message we  
21 would want to give.

22 DR. SAMET: So this is about what we heard,

1 so how do you want to --

2 DR. EISSENBERG: Well, again, I wish I had  
3 the transcript in front of me, and I don't. But what  
4 I thought I heard him say several times was that for  
5 there to be a health benefit, people had to quit  
6 cigarettes completely and use only snus. That's what  
7 he said.

8 DR. LAUTERBACH: Dr. Samet --

9 DR. EISSENBERG: But I wanted to respond to  
10 Dan's comment. And Dan, I'm not at all picking on  
11 you; it's just that I've heard this a lot. You said,  
12 it's hard to imagine that there wouldn't be some  
13 health benefit if people were using dissolvables and  
14 their cigarette use went down, something like that.  
15 And I've heard that from a lot of people, it's hard  
16 to imagine; it's difficult to believe. And I don't  
17 think we want to make public health statements on  
18 what's hard to imagine or what's difficult to  
19 believe. We want to make them based on data. And in  
20 this case, we were presented with clear data and  
21 somebody who seemed quite knowledgeable on the  
22 subject articulating several times this point.

1           So I don't actually care what's hard to  
2 imagine. I care what the data show.

3           DR. SAMET: John?

4           DR. LAUTERBACH: Well, to address  
5 Dr. Eissenberg's concern, can we have that  
6 particularly stated that that was the opinion of  
7 Dr. Rutqvist of Swedish Match?

8           DR. EISSENBERG: Not at all. It was not the  
9 opinion. Those were the data that he presented.

10          DR. LAUTERBACH: Based on the data he  
11 presented. Okay.

12          DR. SAMET: All right, Tom. Give us the  
13 wording you want here?

14          DR. EISSENBERG: I thought I had it.

15          DR. SAMET: So say it --

16          DR. EISSENBERG: "For health benefits to be  
17 obtained, complete substitution of snus for  
18 cigarettes was needed."

19          DR. CLANTON: No. That's not what you just  
20 agreed to here. The suggestion was that you  
21 specifically attributed to the speaker based on the  
22 data that he presented.

1 John, isn't that what you were saying?

2 DR. LAUTERBACH: That would be correct, yes.

3 DR. HECK: If I may, I don't think I  
4 expressed myself well in the phrase that was  
5 mentioned. But we should recall, in addition to or  
6 beyond Dr. Rutqvist's presentation, we've seen,  
7 incorporated by reference as well as in some of the  
8 other comments, additional discussion of the Swedish  
9 snus experience, showing in a good number of studies  
10 that snus dual users are much more likely to quit  
11 smoking than are exclusive cigarette smokers.

12 Now, I don't know how you'd capture that  
13 public health benefit quantitatively other than there  
14 are 10 or 12 studies that show that.

15 DR. SAMET: All right. I'm going to take a  
16 last try.

17 Tom, are you ready? "For maximum health  
18 benefits to be obtained, complete substitution" --

19 DR. EISSENBERG: Well, that implies that  
20 there's some other benefits that will be obtained if  
21 there's less than full substitution, and that's not  
22 what we heard. But I take John's point that

1 the -- I'm going based on the data that were  
2 presented to us. And so the sentence could start out  
3 with, "Data from the Swedish experience indicate that  
4 for health benefits of snus use to be obtained,  
5 complete substitution of snus for cigarettes was  
6 needed."

7 [Pause.]

8 DR. SAMET: Further comments?

9 [No response.]

10 DR. SAMET: All right. We're moving on. New  
11 users.

12 DR. HATSUKAMI: Oh, wait a second, Jon. I do  
13 have one comment.

14 DR. SAMET: Too late. No.

15 [Laughter.]

16 DR. HATSUKAMI: I'm wondering -- I'm sorry.  
17 I thought it was relevant to that particular  
18 sentence. I'm wondering whether in that bullet, we  
19 should say that the lowering of rates of lung  
20 cancer -- literature documents a lowering of rates of  
21 lung cancer as snus use increased and smoking  
22 decreased in Sweden.

1 I don't know if we should just say that --

2 DR. SAMET: That's fine.

3 DR. HATSUKAMI: Okay. Good.

4 DR. SAMET: "As snus use increased and  
5 cigarette smoking decreased."

6 DR. HATSUKAMI: Decreased. Yes.

7 DR. SAMET: Right after "increased, and  
8 cigarette smoking decreased."

9 New users.

10 [Pause.]

11 DR. SAMET: New users. Yes, Fred?

12 DR. PAMPEL: Is there any implication about  
13 what that means, or are we just stating the fact?  
14 And it sort of implies --

15 DR. SAMET: Yes. It's --

16 DR. BALSTER: -- or people read into it that  
17 those 50 percent would not be smokers anyway. But  
18 you could reason just the opposite, that those people  
19 starting snus might have been smokers.

20 DR. SAMET: Well, I think this comes back,  
21 then, to how we sort of integrate and synthesize  
22 these findings. I think it's okay, and I think our

1 interpretation will come.

2 Yes, Mark?

3 DR. CLANTON: I'm not trying to slow things  
4 up. But given the way we're proceeding, it may be  
5 helpful to go back to open public hearing and public  
6 submission and put a sentence in there that qualifies  
7 all of this, and makes it clear that these were the  
8 data we received from the people who participated in  
9 the hearings.

10 That's missing. And so we seem to keep going  
11 back to, well, let's add what the studies show and  
12 the data show. But in fact, what this section -- the  
13 spirit of this section, I think, is to simply report  
14 on what we heard. So we need to inform the reader.

15 DR. SAMET: Okay. So we'll put in a little  
16 sentence there.

17 New users. Use by sex. There's some editing  
18 here.

19 DR. HECK: I had a little difficulty. I  
20 tried to rephrase it here, but I'm not sure I quite  
21 captured what the original statement was. So do we  
22 really -- the statement seemed to say to me that dual

1 use is extremely prominent among females, kind of  
2 uniquely. And I kind of didn't get that impression  
3 from the presentations or a review of the slides and  
4 things.

5 DR. SAMET: I'm not uncomfortable with the  
6 wording change here in red.

7 Is everybody okay with that?

8 [No audible response.]

9 DR. SAMET: All right. Next page. Go quick  
10 before somebody --

11 [Laughter.]

12 DR. SAMET: We're up to labeling. Certainly  
13 no one will disagree with this. In fact, they're in  
14 Swedish in Sweden and they're English in  
15 England -- not England, the United States.

16 [Laughter.]

17 DR. BENOWITZ: Jon, I've got a question.  
18 Should we make it more reader-friendly by stating  
19 what the warning difference is?

20 DR. SAMET: I guess this was part of the  
21 effort to just keep this very brief, the report  
22 itself. I don't think we should go into it,

1 personally.

2 DR. BENOWITZ: I would argue that this is  
3 what most people are going to read. And if they  
4 don't know what the difference is, then this is kind  
5 of cryptic.

6 DR. SAMET: It is kind of cryptic. The whole  
7 summary is cryptic. I mean, what can I say? I don't  
8 have any motivation for us to make one part less  
9 cryptic than another, I guess, Neal.

10 DR. LAUTERBACH: Dr. Samet, I think  
11 Dr. Benowitz's comment is very appropriate here  
12 because we have this -- on one hand, we're telling  
13 people here in the United States that all these  
14 smokeless tobacco products are just the same hazard  
15 as using cigarettes, when we know they're not. And  
16 over in Sweden, they put in a different warning.

17 I think it's very important that we have the  
18 comparison of the warning as it was expressed in that  
19 testimony by Dr. Rutqvist.

20 DR. SAMET: I don't see that an analysis of  
21 wording with regard to smokeless tobacco is in any  
22 way relevant to our charge, John. I mean, it's just

1 not. We're talking here about the Swedish experience  
2 and its potential relevance to dissolvable tobacco  
3 products, and the point is simply that there is a  
4 difference, and this is part of the generalizability  
5 issue.

6 We're at Indiana and youth presentations.  
7 This is page 25. So youth use of DTPs. This is  
8 describing the various data sets we heard about, and  
9 particularly the Indiana surveys.

10 So comments here?

11 [Pause.]

12 DR. SAMET: Ellen?

13 DR. PETERS: This goes to Dr. Lauterbach's  
14 comments and also to some comments that were made by  
15 the committee after this presentation. I do think  
16 that in this one in particular, that we might need a  
17 note that says, "A number of limitations exist to the  
18 quality of this study," or something like that.

19 DR. SAMET: You know, I actually think that  
20 we're really reporting on the findings of this and  
21 other studies. I'm not sure -- I mean, I think the  
22 Indiana experience suggested that some youth would

1 try it. I mean, that's a true statement about what  
2 was found and presented to us.

3 There's obviously limitations of many of the  
4 sources of data we heard from. I don't think we  
5 heard from any data source that didn't have its  
6 limitations. So I'm not sure why we start it again,  
7 just in summarizing key findings start pointing out  
8 finger at one or another study. It just doesn't  
9 quite make sense to me.

10 Sandrine?

11 DR. PIRARD: Yes. I wanted to include that  
12 because I think if we start doing that, we  
13 really -- I mean, what about the public comments? I  
14 mean, it comes from individuals. What is valid about  
15 that? What about an industry-sponsored study? There  
16 are limitations to it. So we really have to be  
17 careful and just focus on what we heard.

18 DR. SAMET: I think probably the only  
19 question here -- I mean, if we want to say, the  
20 Indiana experience during test-marketing of one DTP,  
21 unnamed, I think that would be an appropriate  
22 modification to the text there. So "of one DTP," and

1 leave it unmentioned.

2 DR. LAUTERBACH: Dr. Samet, I'm very  
3 concerned, though. If you look at what these people  
4 have written on their website, that these people have  
5 a very strong bias against these things, and, for  
6 example, have said on their website, "Smokers who use  
7 these products may get a higher dose of nicotine than  
8 they are used to, possibly resulting in nicotine  
9 poisoning, adverse reactions such as tremors, nausea,  
10 vomiting, agitation, and in more extreme cases,  
11 seizure, coma, and death."

12 This is what these people have put on their  
13 website about dissolvables --

14 DR. SAMET: So I'm not quite sure I know the  
15 relevance of what's on their website to the data that  
16 were presented. John, that's just really off the  
17 point. If your implication is that they have some  
18 form of potential bias in their work, I don't think  
19 we can make that inference from what's on their  
20 website.

21 Other comments? Yes, Tim, did you have a  
22 comment?

1 DR. MCAFEE: Just quickly, Jon. If you're  
2 going to do that -- I mean, come on. Are you trying  
3 to say that all the various -- we should discount the  
4 research from the tobacco industry because it's  
5 explicitly -- if we go on their website, we'll see  
6 that it's in their financial interest to try to sell  
7 more of the product? If you start going there, it's  
8 not even going to be in your interest, really.

9 DR. LAUTERBACH: I don't work for the tobacco  
10 industry, sir. But, I mean, the point is, I think if  
11 there's observer bias, we need to point that out in  
12 any of the situations.

13 DR. SAMET: Okay. I'm going to just suggest  
14 that we move on from this --

15 DR. BALSTER: Yes. I'm going to say that as  
16 stated, this seems to be an accurate description of  
17 what we heard.

18 DR. SAMET: Okay. Packaging. And this  
19 comment is I think a general comment based on what we  
20 heard. We heard from a number of groups on the  
21 packaging issue.

22 So comments here? Sandrine?

1 DR. PIRARD: I would just move what we've put  
2 under perception, coming from the youth survey there,  
3 like putting a bullet, perception, just to be  
4 consistent, that that basically was coming from those  
5 hearings.

6 DR. SAMET: So let me see. What do you want  
7 to add? Do you want to call this perception of  
8 packaging? Or is this --

9 DR. PIRARD: Yes. Under -- what page was it?  
10 Like we had the description with perception, which  
11 was on page -- under public -- sorry. I will tell  
12 you where it is. It's just basically to move the  
13 section we added.

14 Sixteen?

15 MR. HAMM: Nineteen.

16 DR. SAMET: So 19, product perception. So  
17 that was from the open public hearing, and we've  
18 moved on to the youth.

19 DR. PIRARD: Yes. I think that was there,  
20 and we just added something from the youth  
21 presentation there. And I would just suggest to move  
22 it to this section, just so that we are consistent

1 that whatever we talk about is related to --

2 DR. SAMET: So I think you need to go back  
3 up. About 19. Keep going. Somewhere in here.  
4 Product perception?

5 DR. PIRARD: Yes. It's the last sentence of  
6 product perception on page 19. Youth, yes. That  
7 bullet.

8 MS. COHEN: This one?

9 DR. PIRARD: No, no, no. Sorry.

10 DR. SAMET: Keep going.

11 MALE VOICE: There it is.

12 DR. SAMET: Stop.

13 DR. PIRARD: Yes. Data presented from youth.  
14 So that sentence, that last sentence from the bullet,  
15 perception.

16 DR. SAMET: But, I mean, this bullet is about  
17 packaging and not overall perception, which is what  
18 that comment refers to.

19 DR. PIRARD: Yes. I was just suggesting to  
20 add a bullet, youth perception, and put that sentence  
21 there. But it's just a detail, I guess.

22 DR. SAMET: I think it's okay.

1 DR. HECK: Just a small point, Mr. Chairman.  
2 In the section heading, Indiana Experience and Youth  
3 Presentation, is youth -- was that the name of that  
4 organization, or should we use the more explicit  
5 name? This is the Virginia presentation.

6 DR. SAMET: Sure. Sure. That's fine.

7 DR. HECK: Whatever that was.

8 DR. SAMET: The Virginia -- so we're going to  
9 modify that to Indiana Experience and Virginia --

10 DR. EISSENBERG: Foundation for Healthy  
11 Youth.

12 DR. BALSTER: But I think we're getting  
13 confused because the main thing they talked about was  
14 what we put on page 19. So I'm just saying -- I'm  
15 not sure why we're covering it in two places. I  
16 mean, we have a section there that was on public-  
17 submitted documents and presentations. That was  
18 where that information was presented to us. I'm just  
19 saying I don't understand why we have it in two  
20 places.

21 DR. SAMET: Yes. And we also heard from the  
22 American Academy of Pediatrics. So maybe the heading

1 should be not Indiana Experience and so on. Maybe it  
2 should be Presentations and Information -- or just  
3 say information on youth.

4 DR. CLANTON: Make it general?

5 DR. SAMET: Make it general because we heard  
6 from other groups.

7 All right.

8 DR. PIRARD: One question. Sorry. Should we  
9 add the information that the Virginia people gave us  
10 in those additional studies or analyses that they  
11 did, and that we got in the package for this meeting?  
12 The fact that basically among people -- among youth  
13 who perceived those DTPs as non-tobacco product,  
14 there was a higher risk or -- I mean, they were more  
15 likely to try them. That's something that we got in  
16 the package for this meeting. I don't know if we  
17 want to talk about that or not.

18 DR. SAMET: Comments about this? The  
19 sentence that starts, "The Indiana experience during  
20 test marketing suggests that some youth would try  
21 DTPs, particularly those already smoking cigarettes,"  
22 period. And then if we want to add a sentence that

1 says, "Data from Virginia suggests that youth not  
2 perceiving DTPs as tobacco-containing would be more  
3 likely to try them."

4 So if we go back to youth use of DTPs -- I  
5 suggested some -- so write down there, "already  
6 smoking cigarettes." Put a period. Down, down,  
7 down, down, down, down. Right -- down, down. Right  
8 there, at the end of that sentence, put a period,  
9 which should be there anyway. Keep going..

10 MS. COHEN: Here?

11 DR. SAMET: Yes. There. Put a period. And  
12 then the next sentence would be, "Data from a survey  
13 in Virginia suggested that youth not perceiving DTPs  
14 as a tobacco product would be more likely to try  
15 them." Period

16 Again, I just want to remind everybody, we  
17 don't have to mention every single study in this  
18 summary, because then it will turn into a  
19 non-summary.

20 Okay. Got it?

21 We are now going to go to Responses to Charge  
22 Questions -- Charge Issues, sorry.

1 DR. LAUTERBACH: Dr. Samet? (Inaudible - mic  
2 off.)

3 DR. SAMET: I can't tell you till we're done.

4 So Responses to Charge Issues. So we need to  
5 look carefully at this. And this really goes back to  
6 our capturing the discussion that we had at the end.  
7 So let's read through this carefully. This is  
8 page 26, and our charge was risks and benefits.

9 So this idea of this comparison in our  
10 figure, and scenarios with current types of DTPs,  
11 which I think is a useful addition. And in  
12 constructing comparison scenarios, TPSAC was  
13 constrained by the limited real world experience to  
14 date. Since John is out of the room, I will say that  
15 I don't think we want to replace that by "chose to be  
16 constrained." We were.

17 So again, are there comments or additions?  
18 We don't have any red on this. Okay. So then that  
19 would take us to what used to be page 28, the risks  
20 and benefits to the population as a whole. And  
21 again, I think just read to the paragraph that  
22 starts, "TPSAC considered."

1 [Pause.]

2 DR. SAMET: And there's an addition here.  
3 Let's see. It's a rather cumbersome sentence at the  
4 moment.

5 DR. CLANTON: I have a question about -- on  
6 number 4, it says, "DTPs sufficiently reduces  
7 cigarette smoking or use of other types of SMTs."

8 Are you talking --

9 DR. SAMET: I'm sorry. Where are you?

10 DR. CLANTON: Page 29. Well, we have numbers  
11 on the side. I'm sorry. So one, two, three,  
12 four -- four lines down. The next-to-last line up  
13 here, I guess it is. It's easier for me to read it  
14 from here. "DTPs could reduce," or "significantly  
15 reduces" -- where is it up there?

16 You see it on yours. Right?

17 DR. BALSTER: Jon, I'm the author of the  
18 "decreases the likelihood of initiation and use."  
19 That's just basically bullet 1 on the figure. You  
20 failed to include bullet 1, that locus on possible  
21 effect. That's why I added that. That was  
22 your -- that's bullet point 1.

1 DR. SAMET: Yes. And I think,  
2 actually -- and that was your addition to it. So the  
3 TPSAC framework, "that DTPs could reduce the disease  
4 burden caused by tobacco use, decreasing the number  
5 of smokers, if availability increases successful  
6 cessation, or decreases the likelihood of initiation  
7 and use of smoked products."

8 DR. CLANTON: I'm missing this. I still  
9 don't see this.

10 MALE VOICE: Your point is the "sufficiently"  
11 in the sentence, right?

12 DR. CLANTON: Yes. "If the availability of  
13 DTPs sufficiently reduces cigarette smoking." And  
14 I'm asking, are we focusing on the individual or are  
15 we looking at the population effects of fewer  
16 smokers?

17 DR. SAMET: These are population.

18 DR. CLANTON: Population. Okay.

19 DR. SAMET: So I'm still trying to figure out  
20 where you are, Mark, but --

21 MALE VOICE: He's at the second line from the  
22 bottom. "DTPs sufficiently reduces cigarette

1 smoking."

2 DR. CLANTON: There's a red line under DTPs,  
3 the second line.

4 MALE VOICE: There.

5 DR. CLANTON: Yes. And I was simply asking,  
6 we were looking at the individual level and trying to  
7 make some comment about relative risk reduction in  
8 the individual, if they smoke fewer cigarettes, or  
9 are we trying to make a comment about fewer smokers  
10 altogether in the population?

11 DR. SAMET: No. This is really population.  
12 I mean, the whole text begins with a discussion of  
13 burden.

14 Tim?

15 DR. BENOWITZ: Well, but I think the last  
16 part is individual. The first part was population.  
17 This is individual.

18 MALE VOICE: That's what I was trying to  
19 figure out.

20 DR. SAMET: You can't have -- so fair enough.  
21 So you can't have population without individual.

22 DR. CLANTON: No. The issue is whether

1       you're going on or off bimodal, no smoking versus  
2       smoking less. That's what I'm trying to understand.

3               DR. BENOWITZ: The first part says,  
4       "decreasing the" --

5               DR. SAMET: Which first part?

6               DR. BENOWITZ: After "burden caused by  
7       tobacco use, decreasing the number of smokers,"  
8       that's the population effect. Then the third part of  
9       that, "sufficiently reduces cigarette smoking,"  
10       that's an individual effect.

11              DR. SAMET: Yes. True. All right. So let's  
12       try and maybe deconstruct this a little bit. I think  
13       there's too much possibly in this sentence, which  
14       goes on forever, and I must have understood when I  
15       wrote it.

16              Tim?

17              DR. MCAFEE: Well, Jon, I'd like to raise a  
18       larger question as to where the sentence is going  
19       because the way I see this larger construction is  
20       you've got a very long, very complicated and  
21       elaborate essentially rephrasing of the entire  
22       framework about how dissolvables might end up

1 creating a positive population effect.

2 Then you have one sentence that basically  
3 says that we think that DTPs are likely to be  
4 associated with far lower disease risks. And then  
5 you have one sentence that says, well, they could  
6 also increase the disease burden by increasing the  
7 number of tobacco users or reducing cessation.

8 This is like the only time I'm actually going  
9 to use the "we" voice, so this is "we." I'm speaking  
10 for CDC here. We have a grave concern about how this  
11 is set up. This is the section, all this stuff, this  
12 is the one on population as a whole. And our concern  
13 is that basically, it appears -- and it's already  
14 been said twice, or three times by commentators, that  
15 TPSAC has taken the position that dissolvable tobacco  
16 products are likely to be associated with far lower  
17 disease risks than cigarettes.

18 I think I would include with Neal, well, do  
19 we mean at the individual level? Do we mean if  
20 things just go along the way? Because it's kind of  
21 contradictory with early statements that we're saying  
22 that they don't seem to be having much effect.

1           So I think that's a very dangerous statement.  
2           And I think the way we've teed it up with five or  
3           six -- or a very long paragraph about all the  
4           different ways that they could possibly improve  
5           population health, and then one short sentence that  
6           says how they might increase it with no specific  
7           benefit examples of how that might happen, is -- I  
8           don't know if that was intent or if that's just how  
9           it ends up being read.

10           I would propose that we should substitute  
11           something that just reiterates the fact that  
12           long-term use of dissolvable tobacco products by an  
13           individual is likely to be associated with far lower  
14           disease risk than smoking cigarettes, but not make a  
15           population-based claim.

16           DR. SAMET: Okay. So let's go back to the  
17           text, and let's see what we're saying now and try and  
18           understand if that's what we want to say.

19           DR. MCAFEE: Did you want to move it down a  
20           little bit so you get the rest of the sentence that  
21           says that, "TPSAC members concurred that," so we can  
22           see the rest of it? And there was one attempt by I

1 don't know who to partially address this issue.

2           So was your intent when you wrote that,  
3 "TPSAC members concurred that available evidence  
4 supports a conclusion that DTPs are likely to be  
5 associated with far lower disease risks than  
6 cigarettes," was that a population statement or was  
7 that an individual statement?

8           DR. SAMET: You know, actually, Tim, I'm not  
9 sure we had refined our discussions to make that  
10 comment one way or the other. So let's get on the  
11 table what you mean by population versus individual;  
12 population meaning the combination of penetrance or  
13 prevalence and effect on risk versus what happens in  
14 an individual who may choose to change their smoking  
15 pattern. That's I think what you mean, but let's  
16 just make sure we have a common understanding.

17           DR. MCAFEE: Yes. Well, I would have said  
18 that -- I thought the committee, based on prior  
19 statements in this document and conversation, that we  
20 actually had reached an agreement that was pretty  
21 broadly shared that if an individual, particularly if  
22 they exclusively were to use dissolvable tobacco

1 products -- if that individual does that,  
2 particularly if they do it early on in life as  
3 opposed to after smoking for 40 years -- but if they  
4 do that, that we are pretty firm that they will  
5 have --

6 DR. SAMET: So to bring --

7 DR. MCAFEE: -- that they are at a far lower  
8 disease risk.

9 DR. SAMET: To bring the specificity you want  
10 to the statement that says that TPSAC members  
11 concurred, you want it to say that TPSAC members  
12 concurred that available evidence supports a  
13 conclusion that exclusive use of DTPs by  
14 individuals --

15 DR. MCAFEE: Is likely to be associated with  
16 far lower disease risk than --

17 DR. SAMET: Right. Right. Is that what you  
18 want there?

19 DR. MCAFEE: Yes. Although again, I don't  
20 even, a hundred percent, think it belongs there  
21 because this is supposed to be something on  
22 population risk. But I think it's fine to have that

1       there.

2               DR. SAMET:   And then the sentence that comes  
3       after that is the consequences of DTPs for population  
4       burden, however, depend on actual -- depend on  
5       patterns of use, and particularly on the prevalence  
6       of DTP use.   That's the follow-up point.

7               DR. MCAFEE:   Yes.   The only issue is it gets  
8       back to some of the complaints we had that John had  
9       raised about the model in our original thing.   It's  
10       like a consistency issue.

11              If we meticulously lay out every single point  
12       relating to how this could improve population health  
13       by going all the way through the model, and then we  
14       just have a sentence that only mentions two things,  
15       that it could increase the number of tobacco users,  
16       reducing cessation, it gives the appearance that the  
17       committee feels that there's this vast weight of  
18       possibilities for how it could improve things, but  
19       only two things that could disprove it.

20              So one way to solve it would be to go back to  
21       this beginning thing and just, again, have these  
22       neutral statements that say it could impact, as

1       opposed to that it could increase, the effect. So it  
2       could -- several ways that DTPs could reduce or  
3       increase the disease burden caused by tobacco use, by  
4       decreasing or increasing the number of smokers,  
5       et cetera, et cetera. I don't see --

6               DR. SAMET: Well, maybe the way to do  
7       this -- I'm not sure that's useful. I think if we  
8       were to construct this paragraph in a way that said,  
9       here's how it could increase disease burden, go  
10       through whatever -- or reduce disease burden and  
11       individual risk, and then come back and do the same  
12       thing on the possibilities of effects that might  
13       increase disease burden, i.e., fewer people quit;  
14       children move from dissolvable to smoking, so at the  
15       population level, there could be effects --

16               DR. MCAFEE: We could do that.

17               DR. SAMET: So I think the way to address  
18       your concern is to have one paragraph that says, here  
19       are the ways that DTPs could decrease the burden, and  
20       here's the way -- burden and risk for individuals,  
21       and here's how burden and risk could be increased,  
22       and then follows a lot of stuff on uncertainty.

1 I think, if for some reason --

2 DR. MCAFEE: Yes. That's all fine.

3 DR. SAMET: -- somebody chose to use  
4 dissolvable tobacco products for 50 years, they  
5 probably would have lower risk for tobacco-caused  
6 diseases than had they chosen to smoke for 50 years.  
7 But I think what you're saying is that things are  
8 sort of mixed up and muddled in this text, and we  
9 should probably speak to whoever wrote it.

10 [Laughter.]

11 DR. MCAFEE: What you're proposing would work  
12 fine.

13 DR. SAMET: Yes. John?

14 DR. LAUTERBACH: Dr. Samet, on population  
15 effects, if we had a major portion of the cigarette  
16 smokers switch to dissolvables or smokeless tobacco  
17 in general, then we have all the disease related to  
18 sidestream, and third-hand smoke would go down also.

19 DR. SAMET: Sure. I think that -- and  
20 perhaps we may or may not want to make that comment.  
21 But I think right now let's focus on trying to  
22 straighten out the text. So let's go back to the

1 start of this section. Okay. You're there.

2 So this was introductory text, and so,  
3 actually, what I would suggest is go back to Figure 1  
4 and do a paragraph there. Yes. And we're going to  
5 have two paragraphs. One is going to say, ways that  
6 disease burden could be reduced, and risk; and the  
7 other will say how it might be increased.

8 So let's start with this. And, Tim, then  
9 we're going to come back with the other piece of  
10 this. So it indicates several ways that DTPs can  
11 reduce disease burden caused by tobacco use.  
12 Decreasing the number of smokers -- so why don't we  
13 do 1, just a 1 right there, so we can just sort of  
14 separate this out.

15 DR. BENOWITZ: Jon, can I make a suggestion?  
16 I think you said this before. It might be worthwhile  
17 having a transition sentence after Figure 1 saying  
18 that the impact needs to be considered both on an  
19 individual and a population basis. And then you  
20 could say in the next paragraph, for someone who's a  
21 sole user of DTPs, the risk is likely to be much less  
22 than cigarette smoking.

1 DR. SAMET: So we start off with --

2 DR. BENOWITZ: And everything else is  
3 population.

4 DR. SAMET: So here, the charge is the risks  
5 and benefits to the population as a whole, including  
6 users and nonusers. So we could say that, and then  
7 why don't we say -- the next sentence after Figure 1,  
8 just say, "Additionally" --

9 MS. COHEN: That's a new paragraph?

10 DR. SAMET: No. "Additionally, TPSAC  
11 considered how DTPs might affect the risk for  
12 individuals," which I think is your comment, Neal.

13 DR. BENOWITZ: Yes.

14 DR. SAMET: Then we're going to have this  
15 paragraph. "The TPSAC framework indicates several  
16 ways that DTPs could reduce disease burden:  
17 1) decreasing the number of smokers." And then go  
18 down, 2), where it says, the other decreasing. No.  
19 Keep going down. Down, then down. Last sentence.  
20 Right there, after "and." No, leave "and." "And  
21 2) decreasing" --

22 DR. BENOWITZ: Jon, again, wouldn't it be

1 clearer if the first statement just said, on an  
2 individual basis, if someone were an exclusive user  
3 of DTPs, their risk would be less than cigarette  
4 smoking?

5 DR. SAMET: Well, but let's have --

6 DR. BENOWITZ: And then you get all the  
7 individual risk --

8 DR. SAMET: Let's have that after this  
9 discussion about the framework because I think this  
10 is the population burden piece, and then we'll have  
11 the individual piece.

12 DR. BENOWITZ: I just thought it would be  
13 simpler to get it out of the way because then  
14 everything else is population. When you make that  
15 statement clear, then everything else you're dealing  
16 with is population.

17 DR. SAMET: Well, okay. So if you want to  
18 have a first sentence, before, "The TPSAC  
19 framework" -- it's right there -- and just say,  
20 "With regard to benefit, comma, TPSAC concludes that  
21 exclusive use of DTPs would greatly reduce risk for  
22 tobacco-caused disease compared with regular

1 smoking."

2 Is that your --

3 DR. BENOWITZ: Yes.

4 DR. MCAFEE: Can you put the word

5 "individual" in there?

6 DR. SAMET: "Exclusive use of DTPs by" --

7 DR. MCAFEE: "By an individual."

8 DR. LAUTERBACH: Dr. Samet, aren't we talking  
9 smoking-related disease in that sentence, not  
10 tobacco-related disease?

11 DR. SAMET: (Inaudible - mic off.)

12 DR. BENOWITZ: I think "smoking" is  
13 reasonable.

14 DR. SAMET: Okay. So "smoking-caused  
15 disease, compared with regular use of cigarettes,"  
16 just to get --

17 All right. So now we're into the population  
18 level and the TPSAC framework. So we indicate  
19 several ways that DTPs could reduce the disease  
20 burden caused by tobacco use.

21 DR. BENOWITZ: Jon, would you want to say  
22 "population disease burden" here, just to make it

1 really clear?

2 DR. SAMET: That's fine. So "population" up  
3 there. Right.

4 Decrease in the number of smokers. Are we  
5 going to accept the red, whoever -- that's Bob's or  
6 somebody's. Yes, that was Bob's. Okay. We're going  
7 to accept -- sure. We like Bob.

8 [Laughter.]

9 Sometimes. DR. BALSTER: (Inaudible - mic  
10 off.)

11 DR. SAMET: Sometimes.

12 And, "decreasing the risk of tobacco-caused  
13 disease if" -- why don't we say, "if availability of  
14 DTPs sufficiently reduces cigarette smoking," period.  
15 I think that's probably safer. Yes. Now, this would  
16 now come out because we said that up front.

17 DR. BENOWITZ: Right.

18 DR. SAMET: So we actually concurred on  
19 somebody, that that goes, all the way down to  
20 "exist."

21 All right. Now -- all right. So then,  
22 that's the new paragraph that starts with, "The

1 framework also shows how availability of DTPs could  
2 increase the disease burden by either increasing the  
3 number of tobacco users or reducing cessation."

4 All right. For those who -- does anybody  
5 want to add to this? Tim?

6 DR. MCAFEE: Well, I think the easiest thing  
7 to do would just be to actually literally -- if you  
8 transpose the wording that you used in the first  
9 section and then flip "decreasing" to "increasing."  
10 So it would read, "increasing the number of smokers  
11 if availability of DTPs decreases successful  
12 cessation or increases the likelihood of initiation  
13 and use of smoked products." So you're just flipping  
14 around the core directional --

15 DR. SAMET: So, actually, go back and give us  
16 a specific sentence.

17 MALE VOICE: He wants you to copy and paste  
18 and then change the word.

19 DR. MCAFEE: So copy the -- it would be, "The  
20 TPSAC framework indicates several ways that DTPs  
21 could increase the population disease burden  
22 caused" --

1 DR. SAMET: Oh, you want to have -- okay. So  
2 you want to copy that sentence.

3 DR. MCAFEE: You just take that sentence,  
4 starting there. That one. That one, right.

5 DR. SAMET: The whole thing.

6 DR. MCAFEE: Take it all the way down.

7 DR. SAMET: But we're not going to propose  
8 that exclusive use of DTPs might increase disease  
9 risk. So that we're not going to say.

10 DR. MCAFEE: Yes. When we get there, we'll  
11 have to alter that.

12 DR. SAMET: Don't move it. Copy it. All  
13 right. Now go -- so go up. I think you want to  
14 insert where it says -- right?

15 DR. MCAFEE: Yes. Insert that whole -- the  
16 framework would just be replaced.

17 DR. SAMET: And then he wants to change  
18 "reduce" to "increase."

19 DR. MCAFEE: Change increase -- "reduce" goes  
20 to "increase" in the second line.

21 DR. SAMET: "Increase of population" --

22 DR. MCAFEE: Now, the other way -- again,

1 Jon, the other way you could do this would be by  
2 having the first phrase be neutral. But this is  
3 the -- and by increasing the of smokers, if the DTPs  
4 decreases --

5 DR. SAMET: So it then would be, "If  
6 availability of DTPs reduces rates of successful  
7 cessation."

8 DR. MCAFEE: Right. "Or increases the  
9 likelihood of initiation."

10 Now, I don't think you need to take away  
11 number 2.

12 DR. SAMET: I think the rest goes.

13 DR. MCAFEE: You just say, "and increasing  
14 the risk of tobacco-caused disease if it sufficiently  
15 increases cigarette smoking."

16 DR. SAMET: But that's actually -- that's  
17 already covered in the first bit. I don't think we  
18 need a 2.

19 DR. MCAFEE: Well, then, we don't need it in  
20 the one above, either, do we?

21 DR. BENOWITZ: Well, I think this gets back  
22 to the issue of prevalence versus how many cigarettes

1 you smoke per day. Certainly these things might  
2 increase the prevalence if there was less quitting.  
3 But there's no evidence that these products would  
4 increase how many cigarettes you smoke per day.

5 DR. SAMET: Yes. I think, sticking to our  
6 framework, we're not going to propose -- and I think  
7 Neal just captured it. I mean, the way that DTPs  
8 could increase the population disease burden, our  
9 current understanding is by increasing the number of  
10 smokers.

11 DR. HECK: And just a comment. With respect  
12 to Tim's concerns here or a need for some kind of  
13 symmetry between the pro and the con, the fact is  
14 that the literature we have from the very similar  
15 snus products is very asymmetrical. And it does  
16 speak strongly to the health benefits, and the  
17 negatives are rather speculative, I think. I think  
18 that's a fair statement.

19 DR. MCAFEE: I don't think that's a fair  
20 statement. And I think there have been several  
21 studies -- there's the Shu-Hong Zhu study that looked  
22 at this around what's actually happening in the

1 United States. I think taking what happened in  
2 Sweden and then assuming it would happen in the  
3 United States is speculative.

4 This is the area where this whole -- and  
5 again, I'm not even opposed to the idea of saying  
6 something that we're a little optimistic that we'd be  
7 able to get around this. But I don't think it is  
8 speculative or sort of the opposite of pie-in-the-sky  
9 to be worried about this. And I think these things  
10 could happen, and I think there's actually some  
11 evidence that if you --

12 DR. SAMET: But Tim, just to be clear, in  
13 terms of the framework and the way we've laid this  
14 out, the way this sentence reads now, "The TPSAC  
15 framework indicates several ways that DTPs could  
16 increase the population disease burden caused by  
17 tobacco use, increasing the number of smokers by  
18 decreasing cessation or increasing the likelihood of  
19 initiation in use of smoked products," that is what  
20 our concern is. And I think that's there and clearly  
21 laid out.

22 I mean, is there something --

1 DR. MCAFEE: Yes. I'm okay with that. You  
2 mean, in other words, if we leave off the number 2?  
3 Is that the --

4 DR. SAMET: Yes. The number 2, I think, is  
5 something that we don't think is the case. The  
6 number 2, we don't think that DTPs are going to  
7 increase the risk of disease caused by cigarette  
8 smoking. I think we've set that aside.

9 So I think that this next thing is a  
10 repetition of the sentence that says, "The framework  
11 also shows," that should go away.

12 DR. MCAFEE: Yes.

13 DR. SAMET: And the only question is whether  
14 we want another sentence that expands on what we have  
15 said here. But I think that's a straightforward  
16 statement that is parallel to the one we made earlier  
17 about the possibility of a gain within the framework.

18 So let's keep going. And now we get into all  
19 our uncertainty. And so this is, I think, statements  
20 of interpretation now and how strong we feel our  
21 comments can be.

22 Actually, at least as I recall the statement,

1 so I think the "apparent" is fine. If that's okay  
2 with everybody, we'll accept that. And then the  
3 statement, "Furthermore, TPSAC concluded that the  
4 context set by industry marketing will be critical in  
5 determining the impact of DTPs," I thought that was  
6 something that we all quite agreed on. Perhaps John  
7 doesn't, but I actually -- certainly there was no  
8 vote in closed session. But again, I was simply  
9 capturing what I thought was actually something that  
10 we all felt fairly strongly about here.

11 Ellen?

12 DR. PETERS: I wonder if I could just add one  
13 suggestion, that we define the term "marketing." I  
14 was going to suggest this later, but it might be  
15 appropriate here. A lot of times, when people see  
16 the word "marketing," they think it means  
17 advertising, and marketing goes beyond advertising.  
18 It's about product design; promotion, which includes  
19 advertising; also, pricing strategies, and I'm  
20 probably missing one of them.

21 DR. SAMET: Would it be fair to say, then,  
22 how about something, "In the context set by all

1 aspects of industry marketing"? Would that be okay?

2 DR. PETERS: Sure, as long people can  
3 understand marketing to mean more than advertising.

4 DR. SAMET: Why don't we say -- yes, fine.  
5 Why don't we say, "all aspects of industry  
6 marketing." I agree. When we had that discussion  
7 about packaging and so on, if you -- set by all -- it  
8 will be critical.

9 Then this other comment -- keep going  
10 down -- was also I think something that we felt  
11 strongly about, that availability of DTPs might  
12 affect public perception of all tobacco products. I  
13 think that was, again, another conclusion that we  
14 reached.

15 John?

16 DR. LAUTERBACH: I'm a little bit lost  
17 because one of the things here is essentially the  
18 whole impact of the federal government's view on  
19 smokeless tobacco and dissolvable tobaccos. If we  
20 had a different warning system, and we didn't have  
21 statements from the government saying they're as  
22 dangerous as cigarettes, that could make a bigger

1 perception on the market for DTPs than anything any  
2 company could do.

3 DR. SAMET: That may be true. I mean, again,  
4 I'm just going to say that we were not considering,  
5 yes, what FDA might do and what they're doing now. I  
6 think this statement as is written -- I mean, I  
7 understand the caveats you're raising and the  
8 alternative scenarios for the future around labeling.  
9 We can only deal with what we have in hand now.

10 DR. BENOWITZ: Jon, you could say, "set by  
11 industry marketing and regulatory actions," or  
12 regulatory somethings. It gets put in a better  
13 context.

14 DR. SAMET: You could say that. I'm not sure  
15 we actually either discussed or heard anything about  
16 regulatory actions.

17 DR. BENOWITZ: Except industry marketing is  
18 limited by the regulatory environment.

19 DR. SAMET: Right.

20 DR. BENOWITZ: So I think the context really  
21 involves both.

22 DR. EISSENBERG: Well, and we heard from

1 Dr. Rutqvist in Sweden about a difference in  
2 regulatory action with regard to the labeling that  
3 they use in Sweden and the labels that we use here.

4 DR. SAMET: So what is the wording change  
5 that you would like to make?

6 DR. EISSENBERG: Neal, I liked what you said.  
7 "Furthermore, TPSAC concluded that the context set by  
8 industry marketing and regulatory action will be  
9 critical in determining the impact of DTPs." Or  
10 "regulatory oversight" or something -- "regulation."

11 DR. SAMET: Okay. Now let's go to this  
12 little paragraph that says, "Given."

13 John?

14 DR. LAUTERBACH: I just have this concern  
15 here. I know it's reflected in the article by Zhu in  
16 Tobacco Control 2009. Is this really something we  
17 definitely feel, that if -- (inaudible - mic off.)

18 DR. SAMET: Well, I think we've appropriately  
19 given the caveats here. We say the committee was  
20 concerned. Might affect, I mean, I think this is a  
21 concern to be noted. That's all that is.

22 So to the paragraphs starting with "Given."

1 DR. HATSUKAMI: Jon, can we add "on public  
2 health" at the end of the sentence? "The risks and  
3 benefits of DTPs on public health"?

4 DR. SAMET: Sure. That's at the bottom of  
5 the last sentence. Right there, yes.

6 So this is sort of a no-call here. All  
7 right.

8 So now -- my microphone's tired -- we're  
9 speaking to the increased or decreased likelihood  
10 that existing users of tobacco products will stop  
11 using such products. So let's look at this.

12 [Pause.]

13 DR. SAMET: And again, this paragraph -- so  
14 keep going. "Beyond some anecdotal reports with no  
15 information would increase the likelihood of  
16 cessation of cigarette use." And I don't know  
17 whether we want to have that "or of smokeless  
18 tobacco" or delete that.

19 Comments?

20 DR. BENOWITZ: I think you should drop the  
21 smokeless tobacco because we're really not trying to  
22 deal with the public health consequences of smokeless

1 tobacco.

2 DR. SAMET: John, I'm not sure about your  
3 comment because this is not about the harm. So is  
4 there any -- can we just delete that? I don't --

5 DR. LAUTERBACH: Yes. I think Neal just  
6 solved the problem. I think Dr. Benowitz's comment  
7 removing SMTs solved the problem.

8 DR. SAMET: Okay. And then we're going back  
9 to -- so let's look at this in considering scenarios  
10 now.

11 [Pause.]

12 DR. SAMET: I think we have some additions.  
13 So these are sort of stating that we don't quite know  
14 what the future will be, and that there are different  
15 possibilities that could be important. So comments  
16 here?

17 So why don't you go on -- see if you can get  
18 a little more of that in. Just try and move on down  
19 to that paragraph.

20 Again, we have some additions. We have a  
21 sentence added by something that seems like a  
22 reasonable addition. Unknown person. "Will adopters

1 use the product as a cessation tool or to maintain  
2 their habit"?

3 DR. BENOWITZ: I would change habit.

4 DR. SAMET: To "addiction"?

5 MALE VOICE: Or "sustained regular use."

6 DR. SAMET: Or to maintain -- probably  
7 addiction is probably the right word. "Their  
8 addiction to nicotine."

9 So going back, if you're okay with the "will  
10 current marketing" and then the addition of "end  
11 product development approaches," if you continue,  
12 that seems okay?

13 DR. MCAFEE: In terms of the "facilitating  
14 cessation," I mean, since they can't be marketed to  
15 facilitate cessation because of the regulatory  
16 constraints around that --

17 DR. SAMET: That's fair. So do you want to  
18 take that out, Tim?

19 DR. MCAFEE: It seems to me, unless somebody  
20 has an alternate in terms of what we're getting at  
21 with that.

22 DR. EISSENBERG: I was going to make that

1 comment, too. But in fact, they can market them as  
2 for facilitating cessation if they're willing to  
3 present the data that allows them to do so. So the  
4 possibility exists. It's up to the company who wants  
5 to make that marketing claim to demonstrate that they  
6 can make that marketing claim.

7 DR. SAMET: So you would want to say, "Will  
8 DTPs" --

9 DR. MCAFEE: Well, it's a separate  
10 process --

11 DR. SAMET: -- "Will DTPs be marketed  
12 as" -- really, it's a cessation product -- "if  
13 appropriate testing is done."

14 DR. MCAFEE: Well, can I -- I guess I'd say  
15 there's an alternate framework, which I actually  
16 think is much more important, which would  
17 be -- because, again, I think classically, when we  
18 use the word "cessation," 99 percent of the time what  
19 we're referring to is people quitting all tobacco  
20 products. And the probably more potential  
21 possibility that's got more public health oomph would  
22 be, will they be marketed as facilitating a switch to

1 non-combustible or something? Which again, I think  
2 we weren't clear -- I'm still a little fuzzy as to  
3 whether that would require -- they couldn't perhaps  
4 do that within the regulatory framework because it's  
5 just competition between tobacco products.

6 DR. SAMET: I think the best thing to do is  
7 to delete the sentence.

8 DR. HATSUKAMI: Actually, you could say,  
9 "facilitating" or "marketed as a complete  
10 substitution for cigarettes" --

11 DR. MCAFEE: As a substitution product.  
12 Complete substitution product. Right.

13 DR. HATSUKAMI: Substitution, "complete  
14 substitution for cigarettes," because that's what  
15 they're doing for some of the snus products right  
16 now.

17 DR. SAMET: Right.

18 DR. HECK: And you could say, instead of  
19 marketing, which might have some regulatory  
20 implications, just say, "perceived as." They could  
21 be perceived that way by consumers. That perception  
22 could be facilitated by a public health authority or

1 by the company.

2 DR. SAMET: But I think this goes back to the  
3 whole context thing, which is sort of what starts  
4 this. So I think, actually, I'm going to suggest  
5 leave "marketing," but, Dorothy, "as a complete  
6 substitution," I think let's leave it at that.

7 MS. COHEN: Substitution of --

8 DR. SAMET: No. I think it's okay as you've  
9 got it. Yes.

10 Then let's go to the paragraph that starts,  
11 "TPSAC concluded." Oh, well, the nicotine yield in  
12 forthcoming products, I think that would be a useful  
13 addition.

14 So let me take the pulse of the group, which  
15 still seems to be barely beating.

16 [Laughter.]

17 DR. SAMET: Would a brief break be useful?  
18 Votes for a break?

19 DR. MCAFEE: If we say yes to that and we  
20 come back energized, does that mean that we'll finish  
21 by 6:00, and you'll excuse us? Is that the goal? We  
22 need a goal.

1 DR. SAMET: I think the goal is to be  
2 finished by 7:00.

3 DR. MCAFEE: 7:00?

4 DR. SAMET: You can stay up that late. I  
5 think we need -- I think it's going to take that  
6 long, at least, to finish this off. I don't want to  
7 give it short shift.

8 All right. Five-minute break. None of this  
9 five minutes turned into 15 or 20. Real five-minute  
10 break. Go.

11 (Whereupon, a brief recess was taken.)

12 DR. SAMET: I want to just have a quick  
13 procedural discussion here. At this point, I wanted  
14 to remind everybody that we do have to vote. I want  
15 us to take a quick lookback when we get to the end; I  
16 put in the paragraph that Neal wanted, and a few  
17 other things.

18 So procedurally, I think there's two  
19 possibilities, and we need to make a decision. We  
20 keep going now and get to the end and vote, and I  
21 think that's going to take us -- we're at page 34;  
22 hopefully the rest is easy. It's about research

1 recommendations and so on. But we do have to vote.  
2 So we get to the end and vote tonight.

3 The other option is we get to the end.  
4 Everybody gets a little email for bedtime reading  
5 that has the report in it, and we come back tomorrow,  
6 have any further discussion, vote, and go home.

7 So in a rare display of democracy, let me ask  
8 Mark.

9 DR. CLANTON: I have an 8:00 a.m. flight home  
10 tomorrow, so that might pose some problems.

11 DR. SAMET: Well, we can meet at 5:00 --

12 DR. CLANTON: That would be fine.

13 DR. SAMET: -- and then we'd have a chance  
14 for you to -- so that's a vote for getting it done.  
15 Is that sort of a consensus? The consensus is, get  
16 it done?

17 [Heads nodding affirmatively.]

18 DR. SAMET: Okay. Back to work.

19 We are at -- here. This is where we are, I  
20 guess. "TPSAC concluded." So let's go through this.  
21 And this again goes back to the net consequences of  
22 what will happen around quitting. And if you keep

1 going down, so we're saying that this uncertainty  
2 provides a strong rationale for close surveillance of  
3 cessation and any impact of DTPs.

4 John, I think your comment here seems to have  
5 slipped into a wrong spot, wherever you meant it to  
6 go.

7 DR. HECK: And quickly, on the opening  
8 sentence, should we say "smoking tobacco products"  
9 when we're talking about cessation?

10 DR. SAMET: You mean at the very start of the  
11 paragraph, Dan?

12 DR. HECK: Yes. This paragraph. "Use of  
13 smoking tobacco products." Isn't that what we mean?

14 DR. SAMET: "The likelihood, cessation of  
15 smoking of tobacco products." Right there. No, up.  
16 Next sentence. "Cessation of" -- not use, but  
17 "smoking of tobacco products."

18 DR. HECK: Or use of smoking tobacco  
19 products.

20 DR. SAMET: Of smoking tobacco products?

21 DR. HECK: Or combustible tobacco products.

22 DR. SAMET: Of smoking?

1 DR. HECK: Well, yes.

2 DR. SAMET: Smoking. I think in this context  
3 it's clear it's tobacco products and not other smoke  
4 products.

5 [Laughter.]

6 DR. SAMET: All right. So let's continue to  
7 our next charge element. The increased or decreased  
8 likelihood that those who do not use tobacco products  
9 will start using such products.

10 Okay. So here we have a sort of conclusory  
11 comment. For this component of the charge, the TPSAC  
12 concluded the available evidence, while limited,  
13 leads to a qualitative judgment that availability of  
14 DTPs could increase the number of users of tobacco  
15 products. And this refers to the possibility of  
16 increased initiation.

17 So then we follow that with, "This judgment  
18 was based on experience with other smokeless tobacco  
19 products, the data presented from the state of  
20 Indiana, and the survey data on youth perceptions,  
21 and the potential for youth to be drawn to a novel  
22 product."

1           So this is a qualitative judgment only on the  
2 possibility that the number of youth smoking might be  
3 increased by the availability of this product, the  
4 comparison being world without DTPs to world with  
5 DTPs. And then we say, "The TPSAC could find no  
6 basis for the contrary finding that availability of  
7 DTPs would decrease product initiation." I think  
8 that's probably fair, and somebody's made a useful  
9 edit here.

10           DR. HECK: I was a little unclear on what  
11 "product initiation" meant there. Should we --

12           DR. BALSTER: Should it say "tobacco product  
13 initiation"?

14           DR. SAMET: Tobacco product initiation. And  
15 then we say that, "With the very limited information  
16 available, however, the TPSAC could not estimate the  
17 magnitude of any potential increase in numbers of  
18 tobacco product users because of sales of DTPs." And  
19 again, leading to a recommendation for surveillance.

20           So we're saying we're concerned. We don't  
21 think that having DTPs on the market would decrease  
22 use of tobacco products and could possibly increase,

1 but we don't know by how much. That's the message  
2 here.

3 DR. BALSTER: Initiation.

4 DR. SAMET: Initiation. Yes.

5 DR. MCAFEE: Jon, I had one question which  
6 was --

7 DR. SAMET: Tim?

8 DR. MCAFEE: It's essentially for a  
9 possibility of an addition that I thought might fit  
10 right here, or it could fit within the  
11 recommendations. But essentially, it's not  
12 information-gathering or surveillance or research.  
13 It was essentially that we make a suggestion that,  
14 "Marketing and product design should avoid  
15 characteristics that make DTPs more attractive to  
16 youth or encourage long-term dual use."

17 I put "long-term dual use" as opposed to  
18 simply "dual use" since there seemed to be -- I think  
19 there's a case that's being made that it may be  
20 possible that a brief period of dual use will  
21 actually facilitate cessation.

22 But I would assume that we all agree that we

1 would not like to see situations where people are  
2 actually being encouraged to permanently reside in  
3 dual use, and certainly that we wouldn't want to see  
4 situations that DTPs are actually attractive to  
5 youth.

6 DR. SAMET: I'm trying to sort this out with  
7 the charge and what we're trying to address here.  
8 And I want us to try and avoid what I will call a  
9 policy recommendation, which is kind of in part where  
10 you're heading.

11 I think if we were to look at this comment,  
12 we could not estimate, based on the sales of DTPs, if  
13 there were going to be another -- based on this  
14 finding, I'm sort of coming in this -- we said, "The  
15 TPSAC offers strong recommendations as to the need  
16 for informative surveillance related to DTPs and  
17 youth."

18 I think a way to get at what you're saying,  
19 Tim, might be to say, such surveillance should extend  
20 to marketing approaches or something that might make  
21 products more attractive to youth or something. But  
22 I think you have, maybe in what you said, moved a

1 step beyond where this report should be.

2 DR. MCAFEE: Okay.

3 DR. SAMET: If you see what I'm getting at.

4 So if we wanted to, based on this finding,  
5 offer strong recommendations of the need for  
6 informative surveillance related to DTPs and youth,  
7 including marketing approaches, is that okay?

8 Ellen, would that fit?

9 Yes. Fred?

10 DR. PAMPEL: On the statement that TPSAC  
11 could find no basis for the contrary finding that  
12 availability of DTPs would decrease product  
13 initiation, where would the evidence from Sweden fit  
14 in, that is the rising -- well, I guess that's the  
15 issue, that in Sweden the evidence is on snus, not on  
16 DTPs, so it wouldn't be included?

17 DR. SAMET: Yes.

18 DR. PAMPEL: Thank you.

19 DR. SAMET: So let me see. Any other  
20 comments? The section we've just been through is  
21 answering our charge, as given in the Act. So we're  
22 going to make a very -- this is not the last time

1 you're going to see this. About 9:00, we're going to  
2 make a last run through this.

3 All right. Recommendations for Further  
4 Information Gathering, Surveillance, and Research. I  
5 want to go through these. I see you have a sweeping  
6 comment here, John. Don't speak to it yet. We're  
7 going to look at what we said.

8 DR. BENEWITZ: Jon, I've got a comment.

9 DR. SAMET: So first, Additional Product  
10 Testing.

11 DR. BENEWITZ: And I've got a comment to go  
12 before that. And I wrote, basically, "To guide  
13 regulatory activities and to facilitate accumulation  
14 of data on various DTPs, a standard product  
15 definition is needed." That's my first  
16 recommendation.

17 DR. SAMET: So say it again.

18 DR. BENEWITZ: "To guide regulatory  
19 activities and to facilitate accumulation of data on  
20 various DTPs, a standard product definition is  
21 needed."

22 MALE VOICE: I think it goes above --

1 DR. BENOWITZ: Oh, yes. That goes above --

2 MALE VOICE: Above this preamble. Yes.

3 DR. BENOWITZ: That's like a preamble. It  
4 goes above that.

5 DR. SAMET: And TPSAC should not write it.  
6 We sort of in the beginning say DTPs are  
7 what -- there must be an Alice in Wonderland quote  
8 for this. But I think, ultimately, that may be a  
9 useful recommendation, particularly as products  
10 proliferate and begin to morph into one or another  
11 form. So everybody's comfortable with that as a  
12 general recommendation? Okay.

13 So Additional Product Testing. And again,  
14 the word "yield" is not correct. Content and  
15 delivery.

16 DR. DJORDJEVIC: Jon?

17 DR. SAMET: Yes, Mirjana?

18 DR. DJORDJEVIC: Well, this is the place that  
19 we should go back to recommendations or that list  
20 which was developed by the SAP committee of TPSAC on  
21 harmful and potentially harmful constituents. And I  
22 calculated the other day there are 36 or 37 on the

1 list which pertain to smokeless tobacco products.

2 So just again, limited to nicotine and TSNAs  
3 is not enough. It would be good for reporting to  
4 have the whole profile of constituents which are  
5 harmful or potentially harmful, and especially that  
6 several of them are classified again by IARC as  
7 carcinogens, Group 1. And in addition to that, pH  
8 and unproteinated nicotine need to be reported.

9 DR. SAMET: So the question is whether that's  
10 covered sufficiently by other health-relevant  
11 components, or you want to say, and other health-  
12 relevant components as set out in the list of  
13 harmful -- I'm not sure, what's the exact name for  
14 that?

15 DR. ASHLEY: Harmful and potentially harmful  
16 constituents.

17 DR. SAMET: And other health -- as set out  
18 in --

19 DR. ASHLEY: The list of harmful and  
20 potentially harmful constituents.

21 DR. SAMET: And pH would not be there, would  
22 it?

1 DR. DJORDJEVIC: I don't think pH was on that  
2 list. So that is why that needs to be spelled out.  
3 So pH and --

4 DR. SAMET: So maybe as just a  
5 separate -- since pH was -- and what else did you  
6 say?

7 DR. DJORDJEVIC: pH, which in a way enables  
8 to calculate free nicotine.

9 DR. SAMET: Right. So why don't we just say  
10 pH should also be measured.

11 DR. DJORDJEVIC: Yes.

12 DR. SAMET: John?

13 DR. LAUTERBACH: Dr. Samet, it appears that  
14 we're trying to create business for those in  
15 chemistry. That's where I came from before getting  
16 to regulatory. But it seems to me we're just going  
17 through quite a lot of information which is not  
18 relevant, particularly at the levels that could be  
19 found in here.

20 Remember, there -- and I call everybody's  
21 attention to a paper that just came out in Chemical  
22 Research in Toxicology by Hausmann, which he covers

1 this particular situation as, what's necessary to  
2 measure the toxicity of smokeless tobacco? The  
3 latest issue of Chemical Research in Toxicology; the  
4 article is just in press.

5 DR. SAMET: But what's your point, John? Is  
6 this a listing that is somehow different from what is  
7 proposed here, or you're concerned about the fact  
8 that concentrations might be low and are not to be  
9 measured, or --

10 DR. LAUTERBACH: We're just basically  
11 generating numbers that have no usable purpose. I  
12 mean, if we're concerned about levels, we say we  
13 adopt the GothiaTek standard and work from there. If  
14 we're concerned -- if people could show the  
15 health -- some of these ultra-trace levels of these  
16 things, then that's different.

17 DR. SAMET: So I think it's not our mandate  
18 here to recommend a product standard. I do think  
19 that we heard, I think, a rather incomplete list of  
20 components, and I think that was why we had this  
21 suggestion, and that also there was variation within  
22 products, so that this was something that should be

1 better understood.

2 I don't think this is -- we don't say how  
3 much further characterization. But I think, from  
4 what we heard and judged was that within-product  
5 variation, that was not sufficiently characterized.

6 Neal?

7 DR. BENOWITZ: Just to go back to the top of  
8 the sentence. This focuses on within-product  
9 variation. Shouldn't we be talking about across and  
10 within-product variation insofar as it may be new  
11 product?

12 DR. SAMET: Yes. I actually think, when we  
13 said this, we were thinking about the products we had  
14 heard about based on the information provided. So  
15 let me ask if -- again, I'm sort of the reporter  
16 here, so I'm not going to speak one way or the other  
17 to how important we think this is.

18 Bob, do you have comments here?

19 DR. BALSTER: Well, I was just trying and get  
20 at that same thing with the very last bullet that I  
21 introduced under this section because, as Neal just  
22 said, this section didn't talk about getting

1 information on comparing products. So I don't know  
2 if that's the right way to word it, but I'm concerned  
3 about the same thing. This is on product, you know,  
4 and the other one is comparing within-product  
5 variation. This is more on new products and  
6 different products.

7 DR. SAMET: So again, I think, pushing my  
8 memory here, that when we proposed that this might be  
9 needed, it was because there was substantial  
10 within-product variation, based on preliminary  
11 information we heard, and that some additional  
12 characterization of that might be useful.

13 So that was what this was about. And again,  
14 it shouldn't be surprising that there's some  
15 variability, I guess.

16 So do we want to leave this as is? I guess  
17 I'm -- if you characterize it as within-product  
18 variation and you have the data, then you have the  
19 opportunity to compare across products.

20 DR. BENOWITZ: I would just say, if you're  
21 prioritizing these, I would make the first priority  
22 to characterize new products as they get developed,

1 and the second one would be to look at within-product  
2 variation.

3 DR. SAMET: Yes. Actually, and maybe we  
4 should make this statement, I don't think we've given  
5 any priority to these, one versus another. I suggest  
6 that we not do that, in fact, because I'm not sure I  
7 would know how to do it.

8 But I guess a point is, Neal, whether a last  
9 bullet here is -- or somewhere where we get -- is to  
10 get to this point. Well, there actually is a new  
11 bullet added that speaks to this. So let's hang on.

12 Are we sticking with our first,  
13 within-product variation? Okay. Then product  
14 composition variation at point of sale across the  
15 country?

16 DR. BENOWITZ: Let me just go back. Delivery  
17 is really subsumed under the biomarker bullet.

18 DR. SAMET: So you would just leave this one  
19 at content?

20 DR. BENOWITZ: Right.

21 DR. SAMET: Tom?

22 DR. EISSENBERG: I'm just wondering, above

1 all the bullets, where it says "Additional Product  
2 Testing," do we want to make clear that we're talking  
3 about -- I think we're talking about additional  
4 product testing for current and future products.

5 DR. SAMET: Okay. So that's the heading Tom  
6 wants to go back up to.

7 So you're deleting that, yes. And then  
8 you're going to go back up and --

9 DR. EISSENBERG: Yes.

10 DR. SAMET: -- of current and future  
11 products.

12 DR. EISSENBERG: Yes.

13 DR. SAMET: Of current and future  
14 products -- or "testing of current" -- "additional  
15 testing of current and future products." And then  
16 take out the other "product." Right.

17 All right. So, let's see, going down the  
18 bullets, point of sale. Change in product  
19 composition with time since manufacturing.  
20 Influences of heat and moisture exposure on  
21 composition.

22 Composition or content?

1 DR. EISSENBERG: The same.

2 DR. SAMET: Composition? Okay. Then the  
3 biomarker recommendation. Topography.

4 Tom?

5 DR. EISSENBERG: So obviously, Bob and I  
6 (inaudible - mic cuts off). Rather than make a new  
7 bullet, I added to this one, and Bob won't be  
8 surprised to hear that I like mine better. So let's  
9 hear it.

10 So that bullet, for each product, "For each  
11 product, detailed information is needed on topography  
12 of actual use as well as effects produced by the  
13 products, including but not limited to subjective  
14 effect profile, abuse liability, and behavioral  
15 effects such as influence on concurrent or subsequent  
16 cigarette smoking."

17 I was trying to get the wealth of everything  
18 that we would want to know there.

19 DR. SAMET: Comments? For each product,  
20 everything should be known. Dorothy?

21 DR. HATSUKAMI: Why don't you just say, as  
22 needed on abuse liability and topography and actual

1 use, because topography would include other tobacco  
2 products as well. Is that right? Abuse liability  
3 would include subjective responses.

4 DR. EISSENBERG: Well, abuse liability  
5 involves -- I mean, there are other things that you  
6 might ask about other than would be in a standard  
7 abuse liability battery.

8 DR. HATSUKAMI: Well, I'm just saying  
9 that -- you said subjective responses, abuse  
10 liability, and how it affects other tobacco use  
11 behavior. Abuse liability includes subjective  
12 responses.

13 DR. EISSENBERG: Yes. Okay.

14 DR. HATSUKAMI: So just saying abuse  
15 liability and topography of actual use might include  
16 everything that you had indicated.

17 DR. BENOWITZ: And Jon, I'm not sure how much  
18 detail you want here, but we might want to consider  
19 the Iowa equivalence analogy for drugs. So if you  
20 have two products that basically have exactly the  
21 same composition and pharmacokinetics, we may not  
22 want to -- well, we may not need to do abuse

1 liability, say, for every single product. I'm not  
2 sure we want to get into that much subtlety here or  
3 not.

4 DR. SAMET: I don't think so. I think it's  
5 too much.

6 So Tom, Dorothy, Neal, everybody's happy with  
7 "for each product detail"?

8 DR. EISSENBERG: No. I really think that  
9 influence on concurrent or subsequent cigarette  
10 smoking is at the heart of the matter and should be  
11 explicitly addressed because that's what we're  
12 interested again.

13 DR. SAMET: Say that again, Tom?

14 DR. EISSENBERG: Influence on concurrent  
15 cigarette smoking.

16 DR. BALSTER: Tom, that comes under another  
17 bullet. That's not a characteristic of the product.

18 DR. SAMET: Yes. That's almost a  
19 surveillance issue, I think. I don't --

20 DR. EISSENBERG: Where does it come under?  
21 If it's somewhere else, I'm happy.

22 DR. SAMET: All right. Hang onto it, and

1 then let's -- because I agree with Bob. I don't  
2 think it goes here.

3 Dan?

4 DR. HECK: And I just want to remind  
5 everyone. You know, we may not need to get so tied  
6 up in every detail and not leave anything out because  
7 with the new product application, as these products  
8 come under FDA oversight, a lot of these things are  
9 touched on in the new product guidance, including the  
10 abuse liability and the composition. So a lot of  
11 this information will be available to FDA.

12 DR. SAMET: So can we leave -- go to the one  
13 that says, "To facilitate accumulation." Keep going.

14 DR. BALSTER: That should go because we put  
15 that up front as a preamble to the whole thing.

16 DR. SAMET: Standard product. So that one  
17 can go. It's part of the definition.

18 DR. BALSTER: This bullet is just intended to  
19 compliment the one about within-product variation.  
20 This is basically saying the same thing is needed  
21 on --

22 DR. SAMET: Do we need --

1 DR. BALSTER: So I guess you're arguing that  
2 this would be included; in collecting within-product  
3 variation --

4 DR. SAMET: Right.

5 DR. BALSTER: -- we would know this. If  
6 that's --

7 DR. SAMET: I think we actually got this with  
8 Tom's change to the section. So I think we could  
9 delete it.

10 Okay. Surveillance.

11 DR. EISSENBERG: So there was one thing I  
12 thought was really important and another that I  
13 suspect people aren't going to want to include. On  
14 the second bullet point, "Surveillance instrument  
15 will need to be developed for tracking DTP use," I  
16 wanted to add, "and a mechanism developed for adding  
17 these instruments rapidly to national surveys."  
18 Because there's a big problem. People develop an  
19 instrument on how to assess something, and then it  
20 never gets put in anywhere, and we don't collect the  
21 data that we need.

22 DR. SAMET: I know that Tim is going to make

1       sure that he's got rapidly into -- are you coming  
2       here, Tim?

3               DR. MCAFEE: Well, yes. I think it's a very  
4       important point. And actually, one concern would be  
5       that we don't make it more complicated than it has to  
6       be. And it may not be -- if you call it instruments,  
7       it may be question batteries or something because --

8               DR. SAMET: Okay. So people --

9               DR. MCAFEE: -- unless somebody thinks we  
10       literally need a new instrument or a new survey  
11       method, the main issue is getting the right  
12       questions --

13              DR. SAMET: So how about "appropriate  
14       surveillance questions"? Would that be okay?  
15       "Appropriate survey questions"?

16              DR. MCAFEE: Yes.

17              DR. SAMET: Instead of "surveillance  
18       instruments."

19              Ellen?

20              DR. PETERS: It's also relevant to assessing  
21       perceptions of DTPs. And so I wonder -- I'm not  
22       quite sure how to do the restructuring, but maybe

1 just repeat the same sentence again under the  
2 perceptions of DTPs.

3 DR. SAMET: Okay. And then, Tom, you  
4 had -- let's make sure we've got your mechanisms to  
5 get them in. "Appropriate survey questions will need  
6 to be developed for tracking DTP use."

7 DR. EISSENBERG: "And a mechanism developed  
8 for adding" --

9 DR. SAMET: "And a mechanism developed" --

10 DR. EISSENBERG: For rapid integration?

11 DR. SAMET: -- "for their rapid integration  
12 into ongoing surveys," or something.

13 DR. EISSENBERG: Something like that is fine.

14 Then there was something I was going to add  
15 that I think you'll tell me is beyond the scope of  
16 our report.

17 DR. SAMET: Okay.

18 [Laughter.]

19 DR. EISSENBERG: Which is, in the first  
20 bullet after it says DTP use, "sensitivity to track  
21 patterns of DTP use," I was suggesting, in  
22 parentheses, "and all novel tobacco products." There

1 are numerous products coming down the pike, and we  
2 miss every one of them in our national surveys.

3 DR. SAMET: Tim?

4 DR. MCAFEE: Well, I had a suggestion which I  
5 was going to hold off, but I'll make it now, which we  
6 might want to have a sentence at the beginning of  
7 this entire section that says something like, "Many  
8 of these" -- let's see. I'd actually -- "Many of  
9 these recommendations may also be relevant to other  
10 smokeless and novel products," something,  
11 because -- we could put that in a lot of these.

12 DR. SAMET: So you want to put something to  
13 start -- I suppose there's no harm in doing  
14 so -- Surveillance, and then actually not a bullet,  
15 but just under Surveillance, just put a comment that  
16 would essentially say, "TPSAC notes that the  
17 following recommendations with regard to DTPs extend  
18 more generally to novel tobacco products."

19 Is that okay, the spirit of what you want,  
20 Tim?

21 DR. MCAFEE: Yes. I think it may also apply  
22 to some of the conversation that we had about product

1 testing as well. So you could put it at the top.  
2 Your discretion.

3 DR. SAMET: Yes. Well, I think I feel more  
4 comfortable making the comment here. I mean, it's  
5 getting hard to take a history of tobacco use.  
6 That's true. Yes, I think, actually, under the  
7 Surveillance, "and in vulnerable populations," is  
8 probably an addition everybody welcomes.

9 So keep going. Keep going.

10 DR. EISSENBERG: Oh, there was something  
11 right at the very top of the page, that bullet.  
12 "Research/ surveillance will be needed to assess  
13 perceptions of DTPs and how availability," blah blah  
14 blah, "of DTPs affects perception of other tobacco  
15 products."

16 Are we referring -- do we mean cigarettes  
17 there of traditional tobacco products?

18 DR. SAMET: Well, this was our concern  
19 generally. I think this was other tobacco products,  
20 I think, as written. And then we had voiced this  
21 concern earlier.

22 DR. EISSENBERG: Oh, sorry. Okay.

1 DR. SAMET: Yes, Ellen?

2 DR. PETERS: "How availability and  
3 marketing," blah blah blah, "of DTPs affects  
4 perceptions of them and other tobacco products."  
5 "Perceptions of them and other tobacco products."

6 DR. SAMET: Okay. "Denominators  
7 reflecting" -- so who's the denominator person? Bob?

8 DR. BALSTER: So again, we had a discussion,  
9 a fairly lengthy discussion, about this problem with  
10 presenting raw data when you don't know what the  
11 denominator is for each particular product  
12 penetration. So we were mainly told that the  
13 denominators are expensive, but we weren't told they  
14 weren't needed.

15 I think they really are needed. It's just  
16 basically some way of getting at relative risk. And  
17 if you want to know what the -- you have to have a  
18 denominator for what each product's market  
19 penetration is; if you're measuring something related  
20 to it, you have to know -- I mean, obviously the  
21 products that are out there the more are going to  
22 have the biggest numbers.

1 DR. SAMET: But doesn't this -- I mean, isn't  
2 this answered by having the surveys that provide us  
3 with prevalence of use? That is the denominator.

4 DR. BALSTER: This is a huge problem in  
5 prescription drugs, where there's a bunch of numbers  
6 out there about the incidence of the use, adolescent  
7 use, for example, of these products. But there's no  
8 way to connect them or it's difficult to connect them  
9 to how much those products are out there for them to  
10 use. So it's basically -- it's a denominator for  
11 individual product comparisons.

12 DR. SAMET: Let's see. Our other denominator  
13 person, Fred. Does this make -- I'm not sure I get  
14 it. It seems like you get what you need from having  
15 good survey data.

16 DR. BALSTER: Not if the surveys just simply  
17 count the number over observations of something  
18 without knowing the observations per opportunity for  
19 that event to occur. So if you have a particular  
20 product that has a massive market penetration, and  
21 you're going to have a lot more counts of, let's just  
22 say, adverse effects for that product, but it's not

1 going to necessarily reflect relative risk; it's  
2 going to reflect market penetration. I'll give it  
3 up. This is a huge problem in assessing the problems  
4 associated with the abuse of prescription drugs.

5 DR. SAMET: Yes. No, I've got you there,  
6 that if you only have the numerator, you don't have  
7 the denominator. But I'm not sure. We're talking  
8 about population-level surveillance here, which is  
9 going to give us a picture of the users.

10 DR. BALSTER: It's simply not going to tell  
11 you -- what you need to know is how much product is  
12 out there for them to gain access to. So I'll give  
13 up on it, but, I mean --

14 DR. SAMET: Ellen?

15 DR. PETERS: Just a question. Do you mean  
16 that by better understanding what that denominator  
17 is, you can gain a better understanding of why an  
18 increase in abuse liability might be occurring,  
19 whether it's due to just market penetration or  
20 whether it's due to some other aspect of the product  
21 or the product design or whatever?

22 DR. BALSTER: Yes.

1 DR. SAMET: I actually -- I think we should  
2 delete it because I don't think we understand it.  
3 And if this group doesn't quite get it, I don't think  
4 the rest will, if that's okay.

5 DR. BALSTER: Okay.

6 DR. SAMET: And then information needed on  
7 how underage users obtain DTPs. Yes. So that one  
8 goes, but not the next one we haven't discussed.

9 Ellen?

10 DR. PETERS: Not on this one. So someone  
11 else said something.

12 DR. SAMET: Comments on this to include on  
13 the list? Silence is yes?

14 DR. HECK: Unless you say "if and how"  
15 because I don't know that we've seen --

16 DR. SAMET: We don't know. Okay. So if and  
17 how.

18 All right. Okay. So is there something else  
19 on this before we go to quote "Research"?

20 DR. PETERS: Just the point that I mentioned  
21 before, the point about -- I don't know how it's  
22 worded now; it was up like three points, and it was

1 originally worded, "Surveillance instruments will  
2 need to be developed for tracking DTPs." We should  
3 have something like that underneath the perception  
4 point as well.

5 Yes. "Appropriate survey questions will need  
6 to be developed." If you could copy that and then  
7 paste it, or I would suggest that we -- the whole  
8 point. And there'll be a minor adjustment needed if  
9 people agree with us.

10 Then underneath research -- the other way.  
11 Okay, stop. Right above that "underage users" point,  
12 I think. Go up just a tiny bit more. So right  
13 before the last bullet point before Research,  
14 "Information is needed." Underneath that point.

15 Yes.

16 Then it says, "Appropriate survey questions  
17 will need to be developed for tracking," take out  
18 "DTP use" and put in "for tracking perceptions of DTP  
19 use." Or "for tracking perceptions" is enough. Then  
20 just -- no, take out "DTP use" and leave the rest of  
21 it. There's a lot that goes into perceptions. We're  
22 using a single word there, and it can be expanded out

1 in any of number of ways.

2 DR. SAMET: To Research. This is actually  
3 page 42, the last one.

4 DR. EISSENBERG: So I'm wondering if the same  
5 statement we made underneath the heading of  
6 Surveillance should also go underneath the heading of  
7 Research, in that these research suggestions also  
8 apply to other novel tobacco products.

9 [Pause.]

10 DR. SAMET: Okay. So these -- "Short-term  
11 bioassay systems are needed and may prove useful." I  
12 would actually say, "useful/valid."

13 DR. BENOWITZ: I've got a problem. I've got  
14 a problem with this because we don't have anything to  
15 validate it against. So I'm not -- if I were to ask  
16 somebody to do research, they'd say, I'm not sure  
17 what I would ask them to do.

18 DR. SAMET: I guess my one comment to that is  
19 there's so much push now for so short-term product  
20 toxicity testing of chemicals, mixtures, and so on,  
21 that this would mirror that.

22 So I guess your -- I guess actually I would

1 almost, in a way, ask FDA to respond to this as well  
2 because I think this is probably a general question  
3 about product testing and the development of short-  
4 term bioassays and where that is going.

5 So you're concerned about the general issue  
6 of these types of systems?

7 DR. BENOWITZ: Yes. Again, If I was trying  
8 to think about what kind of research would I do that  
9 would be meaningful, you basically have to have  
10 something to validate this against. And talking  
11 about DTPs, we have to first find some harm that  
12 comes from it.

13 DR. SAMET: Yes. So let me ask the general  
14 question. It doesn't say -- it says they're needed.  
15 So if somebody more clever than us came along and  
16 developed them, they could be useful.

17 I don't know. I wonder, David, do you want  
18 to comment on this? You may not want to. Could you  
19 comment on this?

20 DR. ASHLEY: I mean, I will comment on it in  
21 a general term. I don't know that it applies to  
22 DTPs, particularly compared to anything else. I

1 think there is a lot of interest out there in  
2 developing short-term markers of long-term disease,  
3 if those are available. Some things have been  
4 proposed; whether those are completely valid or not  
5 is still definitely up in the air.

6 So I think there's a need for this. I don't  
7 know that there's a need for this specifically  
8 related to dissolvable tobacco products.

9 DR. SAMET: Yes. I think that goes back. I  
10 think there's a general, broad need for these kinds  
11 of systems for many purposes, and we all hope we're  
12 going to have them one day. Right? I mean, there's  
13 report after report on saying just this.

14 To say they're needed I don't think commits  
15 us to too much. Dan?

16 DR. HECK: Yes, Mr. Chairman. I'm going to  
17 suggest that we just -- on all these three last  
18 bullets here, we maybe just make it kind of a broad  
19 brush statement about, as for other products, we  
20 always need better biomarkers. We need better,  
21 informative tests. Because it seems like the  
22 intensity of research needed for products is kind of

1 proportional to both the complexity and the harm of  
2 the product. And these seem like relatively simple  
3 and relatively less harmful products in terms of  
4 their dosimetry and composition.

5 So we need all these things for all tobacco  
6 products, but do we really need that much for this  
7 particular category if indeed it is here to stay?

8 DR. SAMET: So would an alternative to  
9 bullets be to say, "For DTPs" -- and this goes back  
10 to Tom's general -- "as for other novel tobacco  
11 products, there are a variety of research needs," and  
12 list out some of these things, and quit.

13 That is to say, are we bringing -- there's no  
14 specificity to anything we're going to say here that  
15 is, as far as we know, for DTPs as opposed to any  
16 other product, which I think is your general point.

17 DR. HECK: Because it seems like we would  
18 just be testing extracts of these products, which  
19 would look a lot like the smokeless tobacco tests.  
20 And for better addiction models, well, we could all  
21 use those. But other than testing, essentially, a  
22 nicotine extract, it's kind of hard to imagine how

1 you could do much. Now, the behavioral and the  
2 perception, yes. Those may be unique to this  
3 category.

4 DR. SAMET: So actually, for DTPs, as for  
5 other tobacco products, there is a need for assay  
6 systems to -- I mean, we could list out some things  
7 generically and quit, or another possibility -- and  
8 we could just make that general comment and quit. We  
9 can not have a section that's called "Research." Or  
10 we can just leave it as a couple of general sentences  
11 that start with, "For DTPs, as for other tobacco  
12 products, there is a need for" -- I would actually  
13 say, "for research methodology and applied research  
14 that will be informative as to potential toxicity and  
15 abuse liability."

16 We could either list some of those or quit.  
17 I don't think we're saying anything profound here or  
18 that's particularly applicable to DTPs, that's  
19 specific to DTPs.

20 Neal?

21 DR. BENOWITZ: Well, the fourth bullet is,  
22 and the fourth one, I think, is important.

1 DR. SAMET: And this fits within a broader  
2 need for population models. But I think -- so we  
3 could -- "There's a need for research methodology and  
4 applied research," let's say, "that will be  
5 informative with regard to risks, individual risks  
6 and public health consequences." That's pretty  
7 generic, and I don't think anybody's going to  
8 disagree with that. And then we could follow  
9 with -- say, "Additionally, population models are  
10 needed for assessing consequences of DTP  
11 availability," period, and quit.

12 Is that okay with everybody?

13 DR. BALSTER: Then we'll take out the first?

14 DR. SAMET: Yes. Then we'll take out the  
15 first. Yes. Assessing the consequences,  
16 consequences of DTP availability. And then the rest  
17 of this goes.

18 [Pause.]

19 DR. SAMET: So we're at the end, so now we're  
20 going to go back up and we're going to just scroll  
21 through this quickly. We're going to save it because  
22 we don't want to lose this beautiful piece of work.

1           Let me actually -- if we're going to finish,  
2 let's say in the next 20, 30 minutes, we probably  
3 should think about getting some transportation  
4 arranged back to the hotel.

5           So who needs to go back to a hotel?

6           [Show of hands.]

7           DR. SAMET: Ten of us, Caryn, would have to  
8 get back.

9           So let's go through, and I want us to eyeball  
10 each page. And somewhere here -- let's see, go down  
11 through it -- I did add a couple sentences for Neal's  
12 comment earlier. Committee approach. Where's  
13 my -- okay. So where's my new -- no. Back up. Yes.  
14 It should be up towards the front.

15           Oh, here it is. So that should be, "TPSAC  
16 addressed the charge as stated." So this is added,  
17 and that should be a separate paragraph.

18           MS. COHEN: This?

19           DR. SAMET: Yes, make it a separate  
20 paragraph.

21           So this was in response to Neal's opening  
22 comment.

1 DR. ASHLEY: Mr. Chairman?

2 DR. SAMET: Yes?

3 DR. ASHLEY: While we're here, if you'd go  
4 back up and change March 2nd, hopefully, to  
5 March 1st.

6 DR. SAMET: Well, that was in case we went  
7 after midnight.

8 Sarah, did you have -- no?

9 [Pause.]

10 DR. SAMET: So I added this in. So I think  
11 this is what Neal said he wanted to add. I'm trying  
12 to say what we did and did not do. And then this  
13 issue of what dissolvable products are.

14 So is that the spirit of what you wanted?

15 DR. BENOWITZ: Looks good.

16 DR. SAMET: Is everybody okay? Okay.

17 So then the Committee Framework. So we spent  
18 a lot of time doing framework-smithing. And let's  
19 just, again, take a look at the text here and how it  
20 reads now. And I think, just to check with Caryn or  
21 David or Sarah, that as we see editorial glitches,  
22 even after we vote, presumably we can get all that

1 fixed without --

2 DR. ASHLEY: Caryn, I believe that is  
3 correct. If we find missing commas or spaces or  
4 things like that, we can make those changes.

5 DR. SAMET: Okay. So Committee Framework.  
6 And we added that sentence about how we have a  
7 simplified diagram; we did not show everything  
8 possible. I'm not sure -- yes. "For simplicity, the  
9 framework presents only three potential patterns of  
10 product use." So we added that. And then, if you'll  
11 remember, I think particularly Tom had substantial  
12 input in changing the descriptions of the numbers.

13 Let's keep going down. Let's see. And we  
14 changed the boxes, if you'll remember, in several  
15 ways. So we made comments. We did the regular  
16 use/addiction, and then we have risk for  
17 tobacco-caused disease in the new and improved  
18 framework.

19 Then some green goes. Okay. Let's see. And  
20 then -- yes, that's added. Yes.

21 MALE VOICE: Can't we do the green releases  
22 later?

1 DR. SAMET: We probably can.

2 Okay. Key Findings from the Evidence Review.  
3 I don't think we made any changes here. This is  
4 all -- okay. Keep going.

5 All right. Peer-Reviewed Literature.

6 Actually, Constituent, go back up. We have  
7 the wrong name there. Constituent Yield is now  
8 Constituent Content, Contents.

9 MALE VOICE: Or just Constituent.

10 MALE VOICE: Constituents, "S."

11 DR. SAMET: Constituents. Yes. You know  
12 what I mean. Yes, it usually goes at the end.

13 Okay. So we played with this about delivery  
14 and got the contents straight. Abuse liability.  
15 Oops, we're going too fast. Okay. Cessation.  
16 Health risks, we edited this. So this says,  
17 "Exclusive use of DTPs should be less hazardous."  
18 Okay.

19 Continue. All right. Then we had this TSNA  
20 comment, that we said that they're lower, but public  
21 health implications aren't certain. We had the  
22 extensive discussion with Neal about this point. No

1 epidemiological data.

2           Okay. Now, consumer perception, actually,  
3 I'm not sure we -- this is something that I think,  
4 between Dorothy and John, you were trying to figure  
5 out if this is one study or there are other studies.

6           DR. HATSUKAMI: I think it's just one study.  
7 It doesn't seem like the Romito study did much in  
8 terms of perception.

9           DR. SAMET: Ellen?

10           DR. PETERS: I wonder if the most important  
11 point under consumer perception is that, "Little data  
12 exists."

13           DR. SAMET: Fair enough. So you want to  
14 have, as the first sentence, "Little data are  
15 available"?

16           DR. PETERS: Yes.

17           DR. SAMET: There's -- okay. That's good.

18           Oops, you're going too fast. Consumer  
19 response. Childhood poisonings. And then we're on  
20 to the Industry Presentations and Documents. Variety  
21 of products with different contents. Next. Oops,  
22 cigarette use. Marketing. Cessation. Youth.

1           Open Public Hearing. Is commenters e-r or  
2 o-r? It's o-r-s? Still doesn't like it.  
3 Commentators. That's it.

4           MS. COHEN: Commenters is e-r.

5           DR. SAMET: E-r? It's probably not a  
6 preferred use. I don't know. We'll sort this out  
7 later.

8           MALE VOICE: Those who comment.

9           DR. SAMET: Yes, those who comment. Some  
10 people. All right. "Data presented from youth  
11 surveys suggested that DTPs may not be recognized as  
12 tobacco products." Okay.

13           Government actions. Oops. Back, back, back.  
14 Some suggest -- recommend that it should more  
15 proactively educate the public. Okay. All right.

16           Then to Sweden. Context. Health benefits.  
17 And there's that last complete substitution business,  
18 so just make sure you've got it. Okay.

19           Onward. New users. Use by sex. You know,  
20 this could have been a short report if people hadn't  
21 written all this green stuff.

22           [Laughter.]

1 DR. SAMET: Labeling. Okay. Information on  
2 Youth. Youth use. We added that bit here about the  
3 Virginia data.

4 DR. HECK: The last statement, that youth  
5 perceiving them not as a product, would be  
6 more -- that is factual? I didn't go back and check.

7 Do people remember that?

8 DR. BALSTER: It was in a packet that we got.

9 DR. SAMET: Okay. I wonder, appeal to youth  
10 is likely to depend on packaging. The newer  
11 packaging may have greater youth appeal.

12 Do we actually have reason to say that, or  
13 should we delete that?

14 MALE VOICE: I don't recall that.

15 DR. SAMET: What?

16 MALE VOICE: I don't recall.

17 DR. SAMET: Yes. Ellen?

18 DR. PETERS: I think we -- well, I think  
19 we -- I would probably delete it, too. I think we  
20 talked about it a little bit, but there's no data on  
21 it.

22 DR. SAMET: So I think we should probably

1 just take that out. Okay.

2 Now here -- so now we're, the Responses to  
3 Charge Issues. So this is where we -- so what  
4 happened? Something got lost here. Go back up. I  
5 think I had given responses -- I thought I had listed  
6 each of the charge issues originally and -- or else  
7 it's in the wrong spot. Let's see.

8 [Pause.]

9 DR. SAMET: Okay. So this is the charge. So  
10 I think, actually, the -- so actually I think this  
11 text -- I think we need the -- if you go down a  
12 little bit to the italics where I have the charge  
13 listed, I think that needs to come up at the start of  
14 this.

15 Keep going. Right there. So that bit in  
16 italics is what this is about. I think that needs to  
17 come up to the top. So that should come -- yes.  
18 Yes. So it should come right before -- right. So  
19 insert it there. Yes. Okay. Then this makes sense.

20 You know, actually, with this -- TPSAC  
21 constrained by the real world -- so keep going down.  
22 I wonder if there is some text that we shouldn't

1 go -- "Consequently, the TPSAC posed scenarios that  
2 would be most useful to addressing its  
3 charge" -- "gave way to a scenario of widespread  
4 availability as" -- I'm not sure we really did that.  
5 It sounds really good, but maybe that should be  
6 deleted.

7 We really talked qualitatively about  
8 directionality and such, but we didn't say what would  
9 really happen if. So I think we should take that  
10 out. Yes. So I think that should go.

11 MS. COHEN: All of this?

12 DR. SAMET: All of that. Okay. And then  
13 keep going. So now this does actually set the stage  
14 for thinking about individual risk and population  
15 risk.

16 DR. HECK: Have we lost entirely that  
17 sentence about the Ariva and Stonewall really having  
18 no net impact to date?

19 DR. SAMET: No. I think that's still up  
20 there.

21 DR. PETERS: If you go backwards to  
22 (inaudible - mic off).

1 DR. SAMET: So go back -- put it back in,  
2 then, and see which --

3 DR. PETERS: One more. The last sentence.  
4 I think that's what you're talking about?

5 DR. HECK: Yes. It seemed like a fairly  
6 important point. But do we want to lose it? I  
7 don't -- whatever the committee thinks, the current  
8 situation sentence, at the end.

9 DR. SAMET: So leave the last sentence, I  
10 think, is the proposal. Is that right? So that  
11 would go. Is that --

12 DR. BALSTER: That doesn't make sense now.  
13 That sentence just sort of sits there kind of  
14 curiously.

15 DR. SAMET: Yes. I think it should go.

16 Now, let's see. Go back. Did you undo the  
17 deletion that we had already done, or is that -- no?  
18 Okay.

19 DR. ASHLEY: While we're here, just so we  
20 catch it, on the last line, right about "page 26 of  
21 40," it says, "cause diseased." It should be "cause  
22 disease." Well, now it's gone.

1 [Pause.]

2 DR. SAMET: Okay. Continue on down. So this  
3 was our benefit side, so dealt with the individual  
4 tobacco user and our theoretical lifelong DTP user  
5 versus cigarette smoking. And then we go on down,  
6 and then sort of the other side, how could things be  
7 made worse by DTPs. And that's where we -- having to  
8 do with the numbers of smokers going up. Okay.

9 Then we say there's a lot of uncertainty.  
10 Limited impact of the products from Star Scientific.  
11 Keep going. Context will be important. And our  
12 comment, our general comment, about sort of the idea  
13 that tobacco products in general are safer because  
14 DTPs are portrayed as -- are viewed as lower risk.

15 Then, our bottom-line conclusion on this  
16 element of our charge, risks versus benefits, no  
17 conclusion because the data are not there. Okay.

18 Then the next element of the charge,  
19 increased or decreased likelihood that existing users  
20 of tobacco products will stop using such products.  
21 And some discussion here about the way that DTPs are  
22 being used and how they're perceived.

1           Then we say how they've been positioned.  
2           Continue on down. We talk about the context issue.  
3           And then, bottom line, keep going. And again, we say  
4           that things could go either way around the likelihood  
5           of cessation, that there's reasons to think they  
6           could facilitate cessation of tobacco products.

7           So should this be -- let me go back to our  
8           charge. It's tobacco products. Okay. I think we're  
9           really -- well, the charge is tobacco products. I  
10          think we really mean smoking more than -- well. We  
11          make clear that we're talking about smoking in our  
12          answer, if you keep reading. I think it's okay.

13          Okay. So our bottom line here is, again, not  
14          sure. And then on to initiation. And so here again  
15          we offer up, first, our qualitative judgment that  
16          availability of DTPs could increase the number of  
17          users of tobacco products, and we cite some reasons  
18          why. And we find no reason for the contrary finding  
19          that the availability of DTPs would decrease product  
20          initiation, which I think is fair. And again, we say  
21          that we're not sure what the quantitative increment  
22          might be if DTPs were widely available and marketed.

1           So then we say we need surveillance, which  
2 takes us now to our recommendations.

3           DR. BALSTER: Do we need -- just going back  
4 up, since we're talking in this section about  
5 initiation, do we want to say about new users and we  
6 could not make a conclusion about -- while DTPs could  
7 increase the number of new users -- I mean, that's  
8 what we're talking about in this section.

9           DR. SAMET: Well, so if you want to make  
10 that -- so if you go right to the very end, I think I  
11 can make Bob happy.

12          DR. BALSTER: Okay.

13          DR. SAMET: Keep going. Stop. "TPSAC could  
14 not estimate the magnitude of any potential increase  
15 in numbers of new tobacco product users." Okay?

16          DR. BALSTER: Okay.

17          DR. SAMET: So do you see where I want that?

18                Okay. All right. Recommendations. We have  
19 our Additional Product Testing. Should we call that  
20 additional product testing or product testing? Oh,  
21 Additional Testing of Current and Future Products.

22                Should we call this testing? I'm not sure

1 what the "additional" means. Just testing.

2 Okay. So within-product variation. Keep  
3 going.

4 DR. BALSTER: Jon, I think we talked about  
5 this before. Is this the TOREG (ph) list that  
6 Mirjana was talking about?

7 DR. SAMET: It was the -- I think this is the  
8 FDA, the list that we looked at. Right?

9 MS. COHEN: Yes.

10 DR. SAMET: Yes.

11 DR. BALSTER: Oh, it was the FDA list?

12 DR. SAMET: Yes.

13 DR. BENOWITZ: Well, should we specify that  
14 so people know what list?

15 DR. SAMET: "As set out in the FDA list." Is  
16 that the right name for it?

17 DR. ASHLEY: You could put "FDA list of  
18 harmful" -- yes. That would work.

19 DR. SAMET: Okay.

20 All right. Then point-of-sale  
21 characterization. Understanding of the change in  
22 composition with time since manufacture and so on.

1 Heat and moisture. Let's see. Then we have our  
2 biomarkers. Abuse liability and topography and  
3 actual use. Okay. Then keep going -- and don't  
4 forget our recommendation for a standard definition  
5 was up front. We added that.

6 All right. Then Surveillance. Do it, was  
7 sort of our recommended.

8 [Laughter.]

9 DR. SAMET: And then existing surveillance  
10 products. Surveillance systems. So they should be  
11 reviewed for their sensitivity to track patterns in  
12 the various use. Do we want to say that, "and  
13 reviewed for the sensitivity and suitable systems  
14 used to track," or something?

15 Are we missing something in there?

16 DR. PETERS: How about, "should be reviewed  
17 and selected for their sensitivity"?

18 DR. HECK: "Suitability and sensitivity."

19 DR. SAMET: "For their suitability and" -- So  
20 "reviewed and" --

21 DR. HECK: Adequacy and sensitivity.

22 DR. SAMET: "Should be reviewed and selected

1 based on their suitability and sensitivity." Yes.

2 Okay. Survey questions developed and used.

3 Next. Surveillance recommendation.

4 Perceptions. Role of marketing survey questions on  
5 perceptions. Okay. Underage users.

6 What about overage users? No, I'm  
7 just -- all right. Sorry.

8 And then our last, Research. Put that up so  
9 we can see it. That's the end? Okay.

10 Want to do it again?

11 DR. HECK: Just one quick thing. I think I  
12 saw in passing that detailed information on the  
13 products, including abuse liability, should be  
14 required, and then we call for research to develop  
15 that.

16 Is that kind of a chicken-and-egg thing?

17 DR. SAMET: Not sure I got it, Dan. Try  
18 again.

19 DR. HECK: Farther up, there should be  
20 detailed information provided for the products on  
21 abuse liability and some other features. And then we  
22 call at the end for the research to develop those

1 measures.

2 Is there any inconsistency there?

3 DR. SAMET: I think we're okay.

4 DR. HECK: I can't remember exactly where it  
5 was now.

6 DR. EISSENBERG: I think we took that out.

7 [Pause.]

8 Can you go up a little? Keep going. Up, up.  
9 There. Stop. So I think what Dan is saying is here  
10 it says for each product we need information on abuse  
11 liability. And down below, it seems perhaps to be  
12 implying that we need to develop the methods for  
13 assessing abuse liability.

14 Is that what you're saying?

15 DR. HECK: I think so, because short of -- I  
16 don't know what exactly a test for abuse liability  
17 would be in this case for this particular class of  
18 product, other than something looking at  
19 nicotine -- would there be special tests for this  
20 particular category of product?

21 DR. EISSENBERG: No, there wouldn't be  
22 special tests, but it would be nice to validate the

1 current methods we have with these products. But I  
2 don't think there's anything inconsistent with this.  
3 It's saying that we need the information on abuse  
4 liability, and down below we're saying that the  
5 models need to be refined for testing it. So I think  
6 it's okay.

7 DR. SAMET: Okay. Ready to vote? Does  
8 everybody know who votes and who doesn't?

9 Do you have the voting members?

10 MS. COHEN: Yes. I gave you.

11 DR. SAMET: Oh, good. No, you did.

12 Okay. Voting. Who votes? Dorothy, Neal,  
13 Bob, Fred, Mark, Tom, and me. And Sherry, if she's  
14 on -- no, Sherry's nonvoting. Okay. That's right.

15 Sherry, are you still there? If so, you get  
16 a Mark Clanton medal for hanging in.

17 [Laughter.]

18 DR. EISSENBERG: I heard her click off.

19 DR. SAMET: Did you? Oh, okay. You may  
20 retire the Mark Clanton award.

21 DR. CLANTON: I was just going to say that I  
22 could just keep it.

1           Okay. So these were our original questions,  
2 if you remember. What changes should be made to any  
3 part of the document? We've made changes. Second,  
4 disagreements or concerns. I hope we've had a full  
5 discussion of all of those and made changes.  
6 Recommendations for further information-gathering,  
7 surveillance, and research. We've certainly made  
8 changes in those. So this is about the material that  
9 we then provided, which actually is quite voluminous.

10           Next. And here is the voting question. All  
11 right, now I have a voting script.

12           We will be using an electronic voting system  
13 for this meeting. Those of you who are here in the  
14 meeting room have voting buttons on your microphone.  
15 There are actually three, "Yes," "No," and "Abstain."  
16 Once we begin the vote, please press the button that  
17 corresponds to your vote. That's a good idea. After  
18 everyone has completed their vote, the local votes  
19 will be locked in.

20           The final result will then be displayed on  
21 the screen. I will read the vote from the screen  
22 into the record. Next, we will go around the table,

1 and each individual who voted will state their name  
2 and vote into the record, as well as the reason why  
3 they voted as they did.

4 Okay. So the voting question is, do you  
5 agree with the report, which consists of a summary  
6 from the committee as well as background materials,  
7 transcripts, presentations, and minutes from all  
8 TPSAC meetings on dissolvable products?

9 So we will now begin the --

10 DR. EISSENBERG: Wait. Can I ask a question?  
11 I'm confused about how we can vote. I actually want  
12 to vote, but I'm really confused on how we can vote  
13 on it when I haven't seen the transcript from the  
14 last meeting.

15 Oh, it's on the Web somewhere? In that case,  
16 I withdraw my question because I've seen it.

17 [Laughter.]

18 DR. SAMET: There's really interesting stuff  
19 on the Web.

20 [Laughter.]

21 DR. SAMET: All right. So are we back to  
22 voting process? Okay.

1           We will now begin the voting process for  
2 question number 3. Please press the button your  
3 microphone that corresponds to your vote.

4           [Vote taken.]

5           DR. SAMET: Wow, okay. Everyone has now  
6 voted, and the vote is now complete and locked in.  
7 So the vote is 7 yeses, zero abstain, and zero noes.

8           So now we're going to go around the table,  
9 and everyone who voted will state your name, your  
10 vote, and the reason why you voted as you did into  
11 the record.

12           So Dorothy, you can go first. And just in  
13 case, Dorothy Hatsukami, that's her name.

14           DR. HATSUKAMI: Yes. My name is Dorothy  
15 Hatsukami, and I did agree with the report. And the  
16 reason why I agreed is because I thought the process  
17 of compiling the report and reviewing the report was  
18 adequate.

19           DR. SAMET: Neal Benowitz?

20           DR. BENOWITZ: Neal. I voted yes because I  
21 think the report fairly summarizes the process and  
22 our current state of understanding of dissolvable

1 tobacco products.

2 DR. SAMET: Okay. Bob?

3 DR. BALSTER: My name is Bob Balster. I  
4 voted yes, and I agree with the report as written.

5 DR. SAMET: Fred?

6 DR. PAMPEL: I'm Fred Pampel, and I voted  
7 yes. I agree with the report as written. I thought  
8 it was fair-minded and recognized the difficulties of  
9 trying to reach a decision, given the limited kind of  
10 data we have.

11 DR. SAMET: Okay. Mark?

12 DR. CLANTON: My name is Mark Clanton, and I  
13 agree with the report as written.

14 DR. SAMET: Tom?

15 DR. EISSENBERG: My name is Tom Eissenberg.  
16 I voted yes because I agree with the report as  
17 written.

18 DR. SAMET: I'm Jonathan Samet. I voted yes,  
19 also agreeing that the reports reflects the materials  
20 that we heard and addresses the charge that we were  
21 given.

22 So I think that completes our job with regard

1 to this report.

2 David?

3 DR. ASHLEY: I just have a final statement  
4 before everybody gets up. So do you have more that  
5 you need to say before I --

6 DR. SAMET: No. I think, actually, the only  
7 thing I was going to say was that I appreciate  
8 everybody's effort in looking at this and really, I  
9 think, putting a lot of thought into the responses.

10 John, I even appreciate all your comments and  
11 keeping us sharp about what we are saying. It's  
12 helpful to have people looking very closely and  
13 critically at our work.

14 I really appreciate everybody's efforts. I  
15 think the dissolvable report was probably,  
16 fortunately, not quite so memorable an experience as  
17 the menthol report. And we'll look with interest to  
18 what our next work entails.

19 David?

20 DR. ASHLEY: Mr. Chairman and the committee,  
21 we appreciate the work that has been done and how the  
22 committee has approached this task. By discussing

1 and finalizing your report and recommendations, the  
2 committee has now completed your second charge under  
3 the Tobacco Control Act, providing a report and  
4 recommendation on the issue and the nature and impact  
5 of the use of dissolvable tobacco products on the  
6 public health, including such use among children. We  
7 have reached another important milestone today.

8 As described in the Tobacco Control Act, you  
9 are submitting your report to FDA by March 23, 2012.  
10 The TPSAC final report is very important advice given  
11 to FDA, but it does not set FDA policy or actions.  
12 FDA's receipt of the final report will not have a  
13 direct and immediate effect on the market  
14 availability of dissolvable tobacco products.

15 FDA will consider the report and  
16 recommendations and other sources of scientific  
17 information as we assess how these issues apply to  
18 the regulatory authorities given in the Tobacco  
19 Control Act.

20 The Tobacco Control Act does not set a  
21 required deadline or timeline for the FDA to act on  
22 the recommendations provided by the committee in this

1 report. We do recognize the strong interest in this  
2 issue and will communicate, as appropriate, steps FDA  
3 is taking as we determine what, if any, future  
4 regulatory actions are warranted.

5 Ultimately, FDA's decision about what actions  
6 to take, if any, with respect to dissolvable tobacco  
7 products will be driven by our commitment to reduce  
8 the total of disease, disability, and death caused by  
9 tobacco in the U.S., and the requirements of the  
10 Tobacco Control Act.

11 So on behalf of Commissioner Hamburg and all  
12 of us here at the Center for Tobacco Products, I want  
13 to thank each member of TPSAC for all the time, the  
14 expertise, and the effort that you have put into this  
15 important process over the last year. I also want to  
16 thank members of the public who have attended these  
17 meetings and who have offered their helpful comments.  
18 But now it is up to us to do our job, and I want to  
19 thank you for doing yours.

20 **Adjournment**

21 DR. SAMET: Great. Okay. Thank you, and  
22 thanks to everybody, and we'll be seeing some of you

1 in the future.

2 Thanks for your efforts, and let's quit.

3 We're adjourned.

4 (Whereupon, at 6:58 p.m., the committee was  
5 adjourned.)

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