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FOOD AND DRUG ADMINISTRATION  
CENTER FOR DRUG EVALUATION AND RESEARCH

JOINT MEETING OF THE ANESTHETIC AND ANALGESIC AND  
DRUG SAFETY AND RISK MANAGEMENT ADVISORY COMMITTEES  
(AADPAC and DSaRM)

Tuesday, December 18, 2018

8:05 a.m. to 3:49 p.m.

Day 2

FDA White Oak Campus  
Building 31, the Great Room  
10903 New Hampshire Avenue  
Silver Spring, Maryland

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16 **ANESTHETIC AND ANALGESIC DRUG PRODUCTS ADVISORY**

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18 **W. Joseph Herring, MD, PhD**

19 *(Industry Representative)*

20 Associate Vice President, Clinical Neuroscience

21 Merck Research Laboratories

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**Judy Staffa, PhD, RPh**

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1                   P R O C E E D I N G S

2                   (8:05 a.m.)

3                   **Call to Order**

4                   **Introduction of Committee**

5                   DR. BROWN: Good morning. I would like to  
6 remind everyone to please silence your cell phones,  
7 smartphones, and any other devices if you have not  
8 already done so. I'd also like to identify the FDA  
9 press contact, Lyndsay Meyer. If you are present,  
10 please stand so that we can see you, but not here.

11                  My name is Rae Brown. I'll be chairing  
12 today's meeting. I will now call the Joint Meeting  
13 of the Anesthetic and Analgesic Drug products  
14 Advisory Committee and the Drug Safety and Risk  
15 Management Advisory Committee to order.

16                  We'll start by going around the table and  
17 introducing ourselves. We're going to start with  
18 the FDA to my left.

19                  DR. THROCKMORTON: Good morning. I'm Doug  
20 Throckmorton. I'm the deputy director for  
21 regulatory programs, CDER, FDA.

22                  DR. HERTZ: Sharon Hertz, director for the

1 Division of Anesthesia, Analgesia, and Addiction  
2 Products in CDER.

3 DR. STAFFA: Good morning. Judy Staffa,  
4 associate director for public health initiatives in  
5 the Office of Surveillance and Epidemiology in  
6 CDER.

7 DR. SECORA: Good morning. Alex Secora,  
8 Division of Epidemiology, CDER, FDA.

9 DR. AMIRSHAHI: Good morning. Maryann  
10 Amirshahi, emergency medicine physician,  
11 Washington, D.C.

12 DR. DASGUPTA: Good morning. I'm Nabarun  
13 Dasgupta, pharmacoepidemiologist at the University  
14 of North Carolina Chapel Hill.

15 DR. GERHARD: Tobias Gerhard,  
16 pharmacoepidemiologist at Rutgers University.

17 DR. BOUDREAU: Denise Boudreau,  
18 pharmacoepidemiologist from Kaiser Permanente,  
19 Washington.

20 DR. MEISEL: Steven Meisel, director of  
21 medication safety, Fairview Health Services in  
22 Minneapolis.

1 DR. BESCO: Kelly Besco, medication safety  
2 officer for Ohio Health Healthcare System in  
3 Columbus, Ohio.

4 DR. SHOBNEN: Abby Shoben. I'm a  
5 biostatistician at the Ohio State University.

6 DR. HERNANDEZ-DIAZ: Sonia Hernandez-Diaz,  
7 pharmacoepidemiologist, Harvard Chan School of  
8 Public Health.

9 LCDR SHEPHERD: Jennifer Shepherd,  
10 designated federal officer, FDA.

11 DR. BROWN: Rae Brown. I'm a pediatric  
12 anesthesiologist at the University of Kentucky.

13 DR. ZACHAROFF: Good morning. Kevin  
14 Zacharoff, expertise in anesthesiology and pain  
15 medicine, faculty and clinical instructor at Stony  
16 Brook School of Medicine in New York.

17 DR. McCANN: Mary Ellen McCann, pediatric  
18 anesthesiologist at Boston Children's Hospital and  
19 Harvard Medical School.

20 DR. BATEMAN: Brian Bateman,  
21 anesthesiologist at Brigham and Women's Hospital,  
22 Harvard Medical School.

1 DR. GOUDRA: Basavana Goudra,  
2 anesthesiologist at Penn Medicine, Philadelphia.

3 MS. ROBOTTI: Suzanne Robotti, founder of  
4 MedShadow Foundation and executive director DES  
5 Action.

6 MS. NUMANN: Sabrina Numann, patient  
7 representative out of New Albany, Indiana, and  
8 advocate for the National Fibromyalgia and Chronic  
9 Pain Association. Thank you.

10 DR. CICCARONE: Good morning, everyone. Dan  
11 Ciccarone, addiction medicine and family medicine  
12 professor at UCSF.

13 DR. KREBS: Erin Krebs, general internal  
14 medicine and health services researcher at the  
15 Minneapolis VA and University of Minnesota.

16 DR. PISARIK: Paul Pisarik, urgent care  
17 medicine, Tulsa, Oklahoma.

18 DR. GARCIA-BUNUEL: Good morning. Martin  
19 Garcia-Bunuel, primary care physician, deputy chief  
20 of staff and director of quality and safety  
21 improvement at the VA Maryland Healthcare System.

22 DR. MACHER: Jeff Macher, professor of

1 strategy, economics, and policy at Georgetown  
2 University in D.C.

3 DR. BALLOU: Jordan Ballou, clinical  
4 assistant professor of pharmacy practice at the  
5 University of Mississippi, specializing in  
6 community practice.

7 DR. BRAND: Paul Brand, community pharmacist  
8 in Florence, Montana.

9 DR. FAUL: Good morning. Mark Faul, Center  
10 for Disease Control, senior health scientist.

11 DR. HERRING: Good morning. I'm Joe  
12 Herring, a neurologist and associate vice president  
13 of clinical neuroscience at Merck and the industry  
14 representative to the AADPAC committee.

15 DR. BROWN: Thank you for being here.

16 For topics such as those being discussed at  
17 today's meeting, there are often a variety of  
18 opinions, some of which are quite strongly held.  
19 Our goal is that today's meeting will be a fair and  
20 open forum for discussion of these issues and that  
21 individuals can express their views without  
22 interruption. Thus, as a general reminder,

1 individuals will be allowed to speak into the  
2 record only if recognized by the chair. We will  
3 look forward to a very productive meeting.

4 In the spirit of the Federal Advisory  
5 Committee Act and the Government in the Sunshine  
6 Act, we ask that the advisory committee members  
7 take care that their conversations about the topic  
8 at hand take place in the open forum of the  
9 meeting.

10 We're aware that members of the media are  
11 anxious to speak with the FDA about these  
12 proceedings. However, FDA will refrain from  
13 discussing details of this meeting with the media  
14 until its conclusion. Also, the committee is  
15 reminded to please refrain from discussing the  
16 meeting topic during breaks and lunch.

17 Now I'll pass it to Lieutenant Commander  
18 Jennifer Shepherd who will read the Conflict of  
19 Interest Statement.

20 **Conflict of Interest Statement**

21 LCDR SHEPHERD: Good morning. The Food and  
22 Drug Administration is convening today's Joint

1 Meeting of the Anesthetic and Analgesic Drug  
2 Products Advisory Committee and Drug Safety and  
3 Risk Management Advisory Committee under the  
4 authority of the Federal Advisory Committee Act of  
5 1972. With the exception of the industry  
6 representative, all members and temporary voting  
7 members of the committee are special government  
8 employees or regular federal employees from other  
9 agencies and are subject to federal conflict of  
10 interest laws and regulations.

11 The following information on the status of  
12 this committee's compliance with federal ethics and  
13 conflict of interest laws, covered by but not  
14 limited to those found at 18 U.S.C. Section 208, is  
15 being provided to participants in today's meeting  
16 and to the public. FDA has determined that members  
17 and temporary voting members of these committees  
18 are in compliance with federal ethics and conflict  
19 of interest laws.

20 Under 18 U.S.C. Section 208, Congress has  
21 authorized FDA to grant waivers to special  
22 government employees and regular federal employees

1 who have potential financial conflicts when it is  
2 determined that the agency's need for a special  
3 government employee's services outweighs his or her  
4 potential financial conflict of interest or when  
5 the interest of a regular federal employee is not  
6 so substantial as to be deemed likely to affect the  
7 integrity of the services which the Government may  
8 expect from the employee.

9           Related to the discussions of today's  
10 meeting, members and temporary voting members of  
11 this committee have been screened for potential  
12 conflicts of interest of their own as well as those  
13 imputed to them, including those of their spouses  
14 or minor children and for purposes of 18 U.S.C.  
15 Section 208, their employers. These interests may  
16 include investments, consulting, expert witness  
17 testimony, contracts, grants, CRADAs, teaching,  
18 speaking, writing, patents and royalties, and  
19 primary employment.

20           Today's agenda involves input and advice on  
21 strategies to increase the availability of naloxone  
22 products intended for use in the community. The

1 committees will be asked to consider various  
2 options for increasing access to naloxone, weighing  
3 logistical, economic, and harm reduction aspects  
4 and whether naloxone should be co-prescribed with  
5 all or some opioid prescriptions to reduce the risk  
6 of overdose death.

7           Because of the potential significant costs  
8 and burdens that may be associated with naloxone  
9 co-prescribing -- for example, economic costs to  
10 consumers and health systems, adjusting to  
11 manufacturing volume growth, drug shortages -- the  
12 committees will also be asked to consider the  
13 potential burdens that may be associated with  
14 naloxone co-prescribing for all or some  
15 prescription opioid patients.

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

1 standing committee members and temporary voting  
2 members to disclose any public statements that they  
3 have made concerning the topic at issue.

4 With respect to FDA's invited industry  
5 representative, we would like to disclose that  
6 Dr. Joseph Herring is participating in this meeting  
7 as a nonvoting industry representative acting on  
8 behalf of regulated industry. Dr. Herring's role  
9 at this meeting is to represent industry in general  
10 and not any particular company. Dr. Herring is  
11 employed by Merck and Company.

12 We would like to remind members and  
13 temporary voting members that if the discussions  
14 involve any other topics not already on the agenda  
15 for which an FDA participant has a personal or  
16 imputed financial interest, the participants need  
17 to exclude themselves from such involvement, and  
18 their exclusion will be noted for the record.

19 FDA encourages all other participants to  
20 advise the committee of any financial relationships  
21 that they may have regarding the topic that could  
22 be affected by the committees' discussions. Thank

1 you.

2 DR. BROWN: We will now proceed with the  
3 FDA's introductory remarks from Dr. Sharon Hertz.

4 **FDA Opening Remarks - Sharon Hertz**

5 DR. HERTZ: Good morning, Dr. Brown, members  
6 of the Anesthetic and Analgesic Drug Products  
7 Advisory Committee and the Drug Safety and Risk  
8 Management Advisory Committee, invited guests,  
9 welcome back today so that we can continue our  
10 discussion about the use of naloxone in attempting to  
11 reduce the morbidity and mortality associated with  
12 opioid overdose.

13 I went into a fairly long introduction  
14 yesterday. I will not repeat it. But I am really  
15 looking forward to today. We're going to here, I'm  
16 sure, some interesting comments from our open public  
17 hearing, from our speakers, and we heard a lot of  
18 information yesterday about a variety of programs  
19 that have been successful to varying degrees. But  
20 really the question at hand is, how can we help  
21 facilitate the delivery and availability of naloxone  
22 in the community where it's needed?

1 I find that when it comes to anything opioid  
2 related, anything that sounds like a simple obvious  
3 solution should be very, very carefully thought about  
4 before pursuing because unintended consequences are  
5 very challenging to undo, and many efforts to improve  
6 public health with what seemed like very good  
7 potentially obvious solutions don't necessarily end  
8 up achieving the goal.

9 As we consider the different approaches for  
10 maximizing the availability of naloxone, one of which  
11 that we're considering is co-prescription to some  
12 extent that would go potentially in labeling versus  
13 emphasizing other strategies that you've heard about  
14 yesterday, we'd like to hear, as you'll see when we  
15 go through the questions, your thoughts in a very  
16 broad sense, but also, let's please always remember  
17 that we want to avoid the unintended consequences and  
18 maximize the public health benefit. Thank you.

19 **Open Public Hearing**

20 DR. BROWN: Thank you, Dr. Hertz.

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

1 information gathering and decision-making. To ensure  
2 such transparency at the open public hearing session  
3 of the advisory committee meeting, FDA believes that  
4 it is important to understand the context of an  
5 individual's presentation. For this reason, FDA  
6 encourages you, the open public hearing speaker, at  
7 the beginning of your written or oral statement to  
8 advise the committee of any financial relationship  
9 that you may have with the sponsor, its product, and  
10 if known, its direct competitors.

11 For example, this financial information may  
12 include the sponsor's payment for your travel or  
13 lodging or other expenses in connection with your  
14 attendance at the meeting.

15 Likewise, the FDA encourages you at the  
16 beginning of your statement to advise the committee  
17 if you do not have any such financial relationships.  
18 If you 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 in 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 only speak when recognized by the chairperson. We  
11 thank you for your cooperation.

12 Will speaker number 1 step up to the podium  
13 and introduce yourself? Please state your name and  
14 any organization that you're representing for the  
15 record.

16 MS. WHEELER: Good morning. My name is Eliza  
17 Wheeler. I'm from the Harm Reduction Coalition.  
18 We're based out of Oakland, California and New York.  
19 I will be speaking today from my role as overdose  
20 response strategies at the Harm Reduction Coalition,  
21 and I have no financial conflicts, and I'm nervous.

22 I'm going to do something a little different

1 today from what you've heard so far. I want to first  
2 thank my colleagues and friends who presented  
3 yesterday, Drs. Davidson, Walley, and Coffin, for  
4 giving a little bit of context and history around  
5 what we're talking about today.

6 None of us would be here today, including  
7 industry who are developing products related to  
8 naloxone, to the community, without this person. My  
9 colleagues mentioned him yesterday. This is Dan  
10 Bigg. He founded the Chicago Recovery Alliance, and  
11 he was the first person in the world to distribute  
12 naloxone to the community.

13 Naloxone was first distributed to the  
14 community, specifically people who use drugs, off of  
15 this van in Chicago starting in 1996. Prior to that,  
16 naloxone had been used for about 25 years in hospital  
17 and in pre-hospital settings.

18 In 1996, Dan and his colleagues from Chicago  
19 Recovery Alliance realized that people who used drugs  
20 were witnessing overdoses at an extremely common rate  
21 and that their participants at their program were  
22 dying from overdose, so they essentially liberated

1 the drug from the medical system and started giving  
2 it out to people off of this van.

3 For many years, probably I would say until  
4 maybe the late 2000s, 2010, this was considered  
5 pretty controversial. It was primary just harm  
6 reduction programs that were distributing naloxone at  
7 this time. Some of the foundational research on  
8 naloxone distribution was done during this time, most  
9 of which by people who are in this room, and we  
10 started seeing naloxone access laws starting to get  
11 passed in the early 2000s, which we heard about  
12 yesterday.

13 It wasn't until 2012 that the CDC published a  
14 report documenting how many naloxone distribution  
15 programs actually existed in the United States, and  
16 at that point, there was 188 different sites that  
17 were providing access to naloxone to laypeople,  
18 specially to people who use drugs.

19 It wasn't until 2014 that we started seeing  
20 co-prescription and pharmacy access starting to  
21 emerge, so much of which we're talking about here  
22 today and yesterday has happened in the last four

1 years.

2 As Dr. Davidson talked about yesterday, when  
3 we last did the CDC MMWR report in 2014, this was the  
4 landscape of naloxone access. Dr. Davidson and I and  
5 our other colleagues produced this map and produced  
6 the data for this map, and the majority of these  
7 programs are syringe exchange programs that are  
8 distributing naloxone to people who use drugs with a  
9 few exceptions that included some pharmacies.

10 What we're talking about when we're talking  
11 about those syringe exchange and harm reduction  
12 programs is what we keep referring to in the last two  
13 days as community-based overdose education and  
14 naloxone distribution. I understand that we're here  
15 to really talk about co-prescription, but what I'm  
16 here to talk about is the model that we know works.

17 The model that we know works to reduce  
18 mortality, and that is from the evidence that has  
19 been produced by the researchers in this room and  
20 elsewhere over the last 25 years, is community-based  
21 distribution.

22 This was never intended to be a medical

1 model, and that's why it's so difficult for everyone  
2 in this room and everyone else to figure out how to  
3 make it work through co-prescription and through  
4 pharmacy, because what we know works is the  
5 distribution of naloxone directly to people who use  
6 drugs and their community by people who are trusted  
7 in the community with low threshold/low barrier  
8 program models.

9           What we see here, when we're talking about  
10 community-based overdose education programs, this is  
11 what we're talking about. We're talking about  
12 programs that are distributing high volumes of  
13 naloxone directly to people who use drugs -- that's  
14 the acronym you see there -- and other high utilizers  
15 of naloxone. That might be a family member, friend,  
16 or other community of someone who uses drugs.

17           Programs operate under standing orders. This  
18 is different than the standing orders you hear  
19 referenced in relation to pharmacy access. The  
20 standing orders that we operate under authorize  
21 nonmedical staff, volunteers, and peers, meaning  
22 other people who use drugs, to provide direct access

1 to naloxone, meaning that the program that I run,  
2 which is one of the largest single city-based  
3 naloxone programs in the world in San Francisco, we  
4 distributed 60,000 doses of naloxone directly to  
5 people who use drugs this year. That is done by  
6 other people who use drugs, syringe exchange workers,  
7 outreach workers, and other volunteers and staff of  
8 programs working directly in the community.

9 Naloxone is purchased or obtained, stored,  
10 and distributed by our programs, and we operate under  
11 a low-threshold/low-barrier model. We do minimum 5-,  
12 10-minute trainings. We don't collect much data.  
13 Programs are anonymous. We do unlimited refills, no  
14 appointments. The photos on the bottom are three  
15 examples of naloxone distribution programs.

16 We heard a little bit yesterday about the  
17 role of injectable naloxone. The role of injectable  
18 naloxone in our programs is crucial to sustaining the  
19 network of programs that actually providing by volume  
20 the majority of naloxone to laypeople in the United  
21 States.

22 We have two sources of affordable naloxone in

1 the United States. There are Direct Relief, which is  
2 a nonprofit program that has partnered with Pfizer to  
3 provide a million doses of free injectable naloxone  
4 over the course of four years. They have so far  
5 distributed about 72,000 doses of injectable in 2017  
6 and 65,000 in 2018 through this program. These are  
7 largely health centers, rural community health  
8 centers, and other public health departments serving  
9 low-income communities.

10 The second is the Opioid Safety and Naloxone  
11 Network Purchasing Group. Myself and a woman named  
12 Maya Doe-Simpkins, who you've also seen referenced a  
13 lot on all these slides in the last two days, operate  
14 this group. Formerly we did that with Dan until he  
15 passed away in August.

16 Currently we have 89 programs in 34 states as  
17 part of this buyer's club. We limit the buyer's club  
18 to nongovernment community-based organizations who  
19 are distributing naloxone directly to people who use  
20 drugs. We distributed 506,000 doses last year and  
21 845 doses year to date as of last Tuesday. In 2018,  
22 we're going to likely hit just under a million this

1 year.

2           So collectively between these two sources,  
3 1.5 million doses of generic injectable have been  
4 distributed to people who use drugs in the last two  
5 years. This data was not included in any of the  
6 presentations that you heard yesterday from industry  
7 looking at pharmacy and prescription sales.

8           For community-based programs, we consider the  
9 two appropriate products for community-based  
10 distribution to be the generic 0.4 milligram  
11 injectable naloxone. I'm not going to go through  
12 this slide directly, but there are some pros and cons  
13 to both forms of naloxone.

14           My program in San Francisco has been  
15 distributing injectable naloxone since 2003, and it  
16 is the preferred method of naloxone or the preferred  
17 formulation of naloxone for most of our participants.  
18 We've introduced other forms with limited success  
19 over the years.

20           The second is the Narcan nasal spray. The  
21 reason I'm talking about these two products is  
22 because for a long time, we distributed the off-label

1       IMS version with the atomizer, and it was cumbersome  
2       and became too expensive for us. So this product has  
3       been helpful.

4               I'm going to talk just for a moment about  
5       best practices. We know from the literature that you  
6       see here, there's first responders, referencing  
7       summoned first responders like EMS, fire, and police,  
8       versus the true first responders, the people who are  
9       the witness to the overdose.

10               So the summoned first responders have to be  
11       summoned by someone. The person who summons them is  
12       the witness to the overdose, so that person is the  
13       person that needs to have naloxone.

14               We know that overdoses are primarily  
15       witnessed by other people who use drugs.  
16       Dr. Davidson talked a lot about this yesterday, so I  
17       won't spend too much time on this. We know that in  
18       large programs like Massachusetts, that distributes  
19       to multiple different groups of people and has  
20       collected really solid data on those different  
21       groups, that while 31 percent of people who are  
22       enrolled in the program are not people who use drugs,

1 87 percent of reversals are conducted by people who  
2 use drugs. The data for my program in San Francisco  
3 is the same.

4 We talked a little bit yesterday about the  
5 idea of saturation. This is a challenging concept as  
6 we don't have any concrete model to determine what  
7 saturation looks like, but we do have some guideposts  
8 in terms of the literature, in terms of understanding  
9 that in order to affect mortality, there's a  
10 dose-response effect from Alex's paper from 2013.

11 There's been some other modeling trying to  
12 figure out how much naloxone in a community of  
13 persons who use drugs is going to actually impact  
14 mortality, but what we do know is that the more, the  
15 better and who gets the naloxone matters.

16 If I distribute 60,000 doses to people who  
17 aren't going to witness an overdose, nothing happens.  
18 Mortality is not impacted. For example, in San  
19 Francisco, we assisted the police department in  
20 expanding to carry naloxone. They used it 27 times  
21 last year, and our participants used their naloxone  
22 1,266 times.

1           If you have finite resources in  
2           resource-limited communities, your primary  
3           distribution should be focused on people who use  
4           drugs. Your secondary distribution should focus on  
5           other possible bystanders. That could be treatment  
6           program staff, shelter staff, family, and other folks  
7           who may witness an overdose. Then finally, I do not  
8           believe that health resources and public health  
9           resources should be going to purchase naloxone for  
10          summoned first responders.

11           Second, training and technical assistance,  
12          people who use drugs in harm reduction programs are  
13          the originators of this intervention and are the  
14          experts in this intervention. We should be at the  
15          table. We should be invited to these meetings, and  
16          we should be presenting.

17           My recommendations for the committee and for  
18          the federal agencies that may be listening are to  
19          approve an OTC form of naloxone that will be  
20          available to programs doing community-based  
21          distribution without the medical and legal  
22          gatekeeping that we currently have to deal with, at a

1 low cost. When I mean low cost, I mean less than \$1,  
2 nonnegotiable.

3 FDA and SAMHSA, clarify language around  
4 generic injectable, especially the language that says  
5 FDA approved products. SAMHSA and CDC, focus on  
6 directing resources and attention to community-based  
7 programs that provide low threshold saturation-based  
8 distribution directly to people who use drugs.

9 We would like the acknowledgement of the  
10 history and work of harm reduction in community-based  
11 programs and honoring the original intention of  
12 naloxone distribution as a way to build power,  
13 empowerment, among people who use drugs.

14 Seek our technical assistance and guidance.  
15 People who use drugs and other harm reduction  
16 experts, researchers, and policymakers are the  
17 innovators of this intervention and are the experts.  
18 Compensate us for our expertise and ensure that  
19 people with lived experience and people who use drugs  
20 are involved in decision-making about their own  
21 lives.

22 Finally, to the DOJ, who I don't think are

1 here, please fund naloxone for law enforcement to  
2 ensure that our resources are no longer being  
3 diverted from public health to finance law  
4 enforcement carrying naloxone.

5 Overdose education is harm reduction. It was  
6 conceived of and first implemented by people who use  
7 drugs, allies, and practitioners of harm reduction as  
8 part of a radical public health movement based on  
9 those principles that you see there.

10 Finally, just a couple pictures, the woman on  
11 the bottom right is Kim Brown. Her son Andy died  
12 from an overdose in Davenport, Iowa, and she started  
13 a naloxone program out of her own pocket.

14 That's her taking a boat across the flooded  
15 Mississippi to pick up her shipment of naloxone from  
16 the post office in order to distribute it on her own,  
17 doing outreach to people who use drugs. And that is  
18 actually what naloxone access in this country looks  
19 like.

20 That's all. Two seconds left.

21 DR. BROWN: Ms. Wheeler, can I ask who is  
22 funding your community effort?

1 MS. WHEELER: Sure. We were actually the  
2 first health department funded naloxone distribution  
3 program in the country. So we're primarily funded by  
4 the San Francisco Department of Health, and we  
5 recently this year received a little bit of naloxone  
6 through the SOR grant administered by the state for  
7 the first time.

8 DR. BROWN: Will speaker number 2 step up to  
9 the podium and introduce yourself? Please state your  
10 name and any organization you are representing for  
11 the record.

12 DR. HUFFORD: My name is Dr. Michael Hufford.  
13 I'm the co-founder and CEO of Harm Reduction  
14 Therapeutics. In terms of my disclosures, Harm  
15 Reduction Therapeutics is a nonprofit pharmaceutical  
16 company that we formed in 2017 after we learned of  
17 the FDA's interest in seeing a naloxone product be  
18 taken over the counter.

19 After fundraising for over a year, I  
20 personally pitched more than 50 times to a variety of  
21 philanthropies and other organizations. We received  
22 an unrestricted grant of \$3.42 million from Purdue

1 Pharma to develop our OTC naloxone product. I firmly  
2 believe what Mary Lasker said, the famous  
3 philanthropist, is true, which is, "Money is frozen  
4 energy, and you unfreeze it when you pay people to  
5 work." So we were extraordinarily grateful for the  
6 support, and we are now running forward as quickly as  
7 we can.

8 Our mission is to prevent opioid overdose  
9 deaths by making low price naloxone available to  
10 everyone over the counter. We have a nonprofit  
11 mission. We're a 501(c)(3). Our team, thankfully,  
12 has more than a 20-year history of prescription to  
13 OTC switch successes, where it has been shown time  
14 and time again that over-the-counter availability  
15 increases access.

16 The good news for someone like myself trying  
17 to push this forward, I'm surrounded by colleagues  
18 that have deep expertise and experience doing this,  
19 which is less of good news to some of the existing  
20 companies with naloxone products that are reluctant  
21 to see the product be taken over the counter.

22 I'm going to be driving home this theme of

1 cost and access and that we need to keep our eye on  
2 that prize. I thought it was remarkable yesterday,  
3 the verbal contortions you heard from industry trying  
4 to tell you that cost doesn't matter, trying to tell  
5 you that over-the-counter access somehow won't  
6 actually improve access.

7 Those contortions I thought were worthy of  
8 Cirque du Soleil. I'm here to present the  
9 alternative scenario that we see time and time again,  
10 that over-the-counter availability does increase  
11 access. But I think to fully understand the power of  
12 that, we need to understand naloxone in the context  
13 of the opioid epidemic, so I'm just going to make a  
14 few quick points on cost and access to heroin.

15 A bag of heroin today will set you back about  
16 \$5, the cost of a pumpkin spice latte. This is where  
17 the cost of acquisition continues to fall. So heroin  
18 has gotten less and less expensive. The supply chain  
19 both for heroin and fentanyl is global in nature and  
20 every bit as robust as the coffee beans that you  
21 grind up and consume at your local café.

22 As outlined in Dreamland, I thought very

1       compellingly, even the retail infrastructure for  
2       heroin distribution has seen dramatic innovation over  
3       time; so heroin, decreased cost, increasing access.  
4       How does that compare to naloxone?

5               Just to put this in historic perspective,  
6       1971, President Nixon, and cutting-edge technology at  
7       the time was a very rudimental scientific calculator,  
8       that was when naloxone received FDA approval. It  
9       went off patent under Reagan, and the Apple was now  
10      your cutting edge, the Apple, original Mac.

11             Widespread use by paramedics intranasally,  
12      lest any of us believe erroneously that intranasal  
13      drug delivery is somehow innovative, it is not in  
14      general, nor is it with respect to naloxone  
15      administration.

16             Today, we have a variety of different  
17      products, and we'll be talking more about those here  
18      quickly. I don't need to belabor the point, opioid  
19      deaths continue to rise as does the price of  
20      naloxone. This is from Meg Tirrell in an excellent  
21      investigative article she published looking at those  
22      prices over time.

1           Just to drive home a point, I'm trained as a  
2           clinical psychologist in addiction. So I'm going to  
3           put that hat on just for a moment and encourage you  
4           to fight the anchoring heuristic. So the anchoring  
5           heuristic is when someone tells you the price of  
6           something is \$1,000 and then it's priced at \$99, you  
7           anchor that estimate of whether \$99 is a value based  
8           on the fact that it used to be \$1,000, right? That's  
9           a fundamental way that our brains process  
10          information.

11           So when you see some manufacturers have  
12          recently lowered their prices, I would encourage you  
13          to think of it in those terms. The fact that  
14          something never should have cost \$4,500 does not mean  
15          that it's now a bargain at a hundred and some  
16          dollars. Likewise, the extent to which something has  
17          already been price gouged and now is available for  
18          \$140, the promise to not further price gouge that  
19          price should not be the cause of patting anyone on  
20          their back.

21           This was published in The New England Journal  
22          of Medicine a couple of years ago talking about that

1 price increase, and I want to focus just on nasal  
2 spray for a moment. Just so everyone's aware, just  
3 by gauge of sighs, that's a nickel beside the actual  
4 container that holds the naloxone intranasal  
5 formulation. I picked 5 cents because at commercial  
6 scale, the amount of solution, the cost there is  
7 about 4 cents.

8 The delivery, just to be clear, just so we  
9 are all aware, that is an Aptar generic intranasal  
10 device. It's very clever. It's used in a variety of  
11 different prescription products. But just to be  
12 clear, there hasn't been a lot of innovation on that  
13 front, either.

14 When Emergent BioSolutions acquired Adapt  
15 Pharma, I think it's worth pointing out that they did  
16 so at the cost of \$635 million with an additional  
17 \$100 million in post-acquisition milestones. As a  
18 businessman myself doing drug development for the  
19 past 20 years, I can assure you that you buy  
20 companies because you expect them to increase in  
21 value.

22 Where is that value to be derived from, from

1 this generic drug being delivered intranasally?  
2 Well, I would suggest to you there are two paths.  
3 One is by getting it approved co-prescription where  
4 it could recognize hundreds of millions of dollars in  
5 revenue over the next few years, but I would also  
6 point you toward an interview with Bloomberg Press on  
7 August 29th shortly after the acquisition where the  
8 CEO described schools as a growth opportunity.

9 So I assure you that one of the very first  
10 markets that I intend to steal from Emergent  
11 BioSolutions is public schools who price they pay for  
12 these products, I assure you absolutely does matter.

13 I also want to talk about access. You've  
14 already heard a lot of this, so I'm not going to  
15 dwell on it. Standing orders do not equal adequate  
16 access today. Time and time again when you survey  
17 pharmacies, many don't stock it. Many pharmacists  
18 are unaware of its status through standing orders.  
19 We also know that stigma continues to affect access  
20 as was touched on repeatedly.

21 Thought I'd end on this cartoon saying, "I  
22 have the invisible hand of the market." On line 2,

1 "Should I put it through?"

2 I want to just end with a few final thoughts  
3 of things I believe. Since I have the microphone for  
4 another 4 minutes, bear with me. I believe despite  
5 being the co-founder of a nonprofit pharmaceutical  
6 company, I strongly believe in capitalism. Profits  
7 drive innovation, and innovation is producing, as we  
8 speak, lifesaving treatments that are transforming  
9 medicine.

10 But that capital put at risk to develop those  
11 innovations deserves to be returned to investors  
12 many-fold. I've been fortunate to raise venture  
13 capital, and that's the very promise I make when  
14 you're developing innovative therapies. But just as  
15 innovators are creating the cures of tomorrow,  
16 there's another group, though thankfully a much  
17 smaller one, that follows in the wake of these  
18 innovators, and uses an imperfect system of  
19 incentives to wring profits by exploiting this  
20 system. And I'm sorry to say this is the state of  
21 the naloxone market today.

22 I also believe, quite contrary to popular

1 opinion, that the pharmaceutical industry is  
2 fundamentally a noble enterprise. The opportunity to  
3 develop new medicines is both an honor and an  
4 obligation, but we do so under a social contract  
5 where you recoup profits over the lifespan of a  
6 patent with the expectations that the price should  
7 then fall as the risk is removed.

8 I believe your work matters. This committee  
9 and ones like it can affect policy that in turn can  
10 cause lives to be saved or lost. I also, for what  
11 it's worth, believe this room should be packed, but  
12 the stigma surrounding addiction takes many forms.

13 Martin Shkreli and his price gouging of  
14 Daraprim and his pharma Bro persona made a perfect  
15 boogeyman for the media's fleeting attention span  
16 around price gouging. Likewise, when Mylan gouged  
17 the price of the EpiPen, likewise, it rightly pulled  
18 at our heartstrings, imagining children in the midst  
19 of unstoppable anaphylaxis not having access to the  
20 EpiPen. But make no mistake, it's our collective  
21 acceptance of the price gouging of naloxone; it would  
22 have received equal scrutiny to the public, if only

1 we believed collectively these lives had equal  
2 weight.

3 Lastly, I believe that if the free market,  
4 composed in part of individuals whose companies are  
5 represented in this room, will not do everything in  
6 their power to reduce the price and increase access  
7 through over-the-counter availability, then I assure  
8 you my colleagues and I at Harm Reduction  
9 Therapeutics intend to do just that.

10 Why? I believe that cost and access matter.  
11 They always have, they always will, and I would  
12 implore you not to believe otherwise. Thank you.

13 DR. BROWN: Thank you very much.

14 Will speaker number 3 step to the microphone  
15 and introduce yourself? Please state your name and  
16 any organization you're representing for the record.

17 MR. LOTT: This is going to be a dual  
18 presentation. Hi. My name is James Lott. I'm a  
19 pharmacist and the co-founder and CEO of Fiduscript.

20 MR. CARRYER: Hello, my name is Straker  
21 Carryer. I'm an experienced software developer and  
22 technical manager, and I'm the CTO and other

1 co-founder of Fiduscript PBC, and we're a public  
2 benefit corporation focused on technology solutions  
3 to help save lives.

4 MR. LOTT: In the next few moments, we are  
5 going to go over our solution to the opioid crisis,  
6 Naloxone Exchange. We're going to talk about some of  
7 our engagement with our patients and their loved  
8 ones, what we learned from them, as well as some of  
9 our next steps and how you folks could help us.

10 We're honored to be supported by esteemed  
11 groups such as the Clinton Global Initiative, Google,  
12 and Stanford Medicine, and also the nation's top  
13 startup accelerator, the University of Chicago, the  
14 Polsky Center for Entrepreneurship. And our  
15 affiliations, myself, I'm currently a graduate  
16 student at the University of Chicago, the Harris  
17 School of Public Policy.

18 MR. CARRYER: And I'm currently employed by  
19 Facebook. However, these thoughts are our own and  
20 are affiliated with Fiduscript PBC, and we have no  
21 other formal disclosures to report.

22 MR. LOTT: Our intervention to the opioid

1 crisis is Naloxone Exchange. It's an online  
2 marketplace where anyone can purchase the lifesaving  
3 antidote, naloxone, receive effective training on how  
4 to use it, and have it delivered straight to their  
5 door.

6 With Naloxone Exchange, it's easy to use. It  
7 works in three steps. Step 1, you go to our website  
8 at naloxoneexchange.com. Select, get naloxone.  
9 After that, you can select the version of naloxone  
10 that you want, and that's according to your  
11 administration approach, or if you're price  
12 sensitive, the best price that might work for you.  
13 After that, a pharmacy partner processes the order  
14 and ships it straight to the user or the entity's  
15 doorstep.

16 What we're providing immediately is easy  
17 access and a stigma-free experience, which I would  
18 note is extremely important through this crisis for  
19 all populations. We're quite aware that there are a  
20 lots of pain points to accessing naloxone, and if  
21 you're not, I'd like to inform you a little bit.

22 There have been some studies, quite a few

1 studies, that have shown stigma is an access point.  
2 There are some patients who even if naloxone is  
3 available free, they prefer not to go in public and  
4 access it because they've had poor experiences or  
5 they just can't fathom the courage to do it.

6 Pharmacy access also continues to be a  
7 problem. Before this visit, I walked into a pharmacy  
8 to purchase naloxone. The pharmacist didn't know  
9 what it was. It took about an hour and a half to get  
10 the order. It was not the best experience, and  
11 actually, they told me that it wasn't available and  
12 you had to get a prescription. This is in the city  
13 of Chicago. I don't know what the issue was, but it  
14 is an issue.

15 Community access is another thing. If you  
16 are an entity that is informed of the opioid crisis  
17 and you want to be responsible and carry naloxone in  
18 your facility, how do you get that since it is still  
19 a prescription? Then the debacle on price, which  
20 you've heard quite a bit on.

21 We do believe that all of these pain points  
22 are intolerable, and we would like to develop a

1 platform that can address all of these issues to some  
2 degree.

3           Prior to developing Naloxone Exchange, we  
4 reached out to over 500 substance users and their  
5 loved ones to better understand what they wanted.  
6 They also gave us some vital personal stories. One  
7 user, or responder rather, said that naloxone is a  
8 miracle. "We do not deserve to die for our  
9 addiction. If it was made available easily, so many  
10 lives would be saved."

11           This same user, or responder, is from South  
12 Carolina. This person remains anonymous. They  
13 self-reported that they have used heroin and  
14 prescription opioids. And also in their circle, they  
15 list themselves, their family, and friends who have  
16 also been affected by the crisis as having substance  
17 use disorder.

18           We got other feedback from the survey, which  
19 we plan on publishing pretty soon, but one thing that  
20 we want to share with you immediately is, through our  
21 survey, we found that these consumers want to  
22 maintain their privacy. And if given the option,

1 they want to get naloxone online and get it delivered  
2 to their home if they could.

3 Also, Dr. Leana Wen, who's been a long-term  
4 advocate for naloxone distribution, once said, "This  
5 is a public health -- when one small intervention can  
6 change the trajectory of people's lives." And us as  
7 an organization, we could not agree any more.

8 MR. CARRYER: I want to briefly talk about  
9 privacy and security and the technical solution that  
10 we're offering. Let me just be very clear. We take  
11 our customers' privacy and security very seriously.  
12 We're hosted entirely on AWS where we've signed a BAA  
13 agreement, and we're entirely HIPAA compliant, and we  
14 intend to remain that way the entire time.

15 Should a customer have any questions about  
16 the product despite offering formal training before  
17 they order it, we do have medical professionals that  
18 will be able to answer any questions they have after  
19 placing an order.

20 Lastly, we've been .pharmacy certified. So  
21 naloxoneexchange.pharmacy also goes to the same  
22 website, which is an independent third-party kind of

1 audit in terms of verifying that we are a safe and  
2 certifiable pharmacy service.

3           Additionally, you can see here is  
4 Fiduscript's current market position. The light blue  
5 represents states that we have regulatory approval to  
6 launch in. That is 18 states representing about  
7 40 percent of the U.S. population, and we plan on  
8 initially launching towards the end of Q1 2019.

9           The dark blue states are where we have  
10 approval currently pending. We're actively working  
11 on getting these additional states onboard. Then  
12 obviously, we want to expand to cover the entire U.S.  
13 population. It's dependent on state level  
14 regulation. We hope to do that by the end of 2019.

15           You can also see here at the bottom, you  
16 heard previously talking about desired customer  
17 bases. We don't discriminate against any particular  
18 person in the entire United States that wants to get  
19 naloxone.

20           MR. LOTT: Lastly, I would like to close with  
21 how you, the audience, and the committee can help us.  
22 If you're a physician, please review that map. If

1 you don't see your state highlighted, write a  
2 collaborative agreement with us. If you're an  
3 advocate for naloxone distribution, contact us,  
4 connect with us, so we can bring naloxone to your  
5 state.

6 If you're a healthcare executive, you have  
7 one of the most vital roles in this room. Not only  
8 can you expand access, but you can also help  
9 consumers reduce the cost.

10 If you're a government agency, including the  
11 FDA, assist us, subsidization, grants, and procuring  
12 contracts. This is the way that we found that  
13 patients want it, so we would like to scale it. And  
14 then if you're an investor, this is a unique social  
15 impact opportunity where you can save lives. Thank  
16 you.

17 DR. BROWN: Can I ask you what you expect  
18 your price point to be?

19 MR. LOTT: We are looking forward to working  
20 with the manufacturers to get the best rates  
21 possible. As a public benefit corporation, we're not  
22 about maximizing our returns. We're more so trying

1 to scale our public benefit, and that's how we  
2 measure ourselves as an organization.

3 DR. BROWN: Do you have any general idea of  
4 where injectable naloxone would be, the price point  
5 for injectables?

6 MR. LOTT: Injectable, as an early  
7 organization, we're not planning on doing injectable.  
8 We're only looking at the -- do you mean injectable  
9 as in the Evzio or as in --

10 DR. BROWN: No, the small vials.

11 MR. LOTT: Yes. As an organization, we are  
12 not offering that at the start. We do plan on doing  
13 it later, and we can help entities get that --

14 DR. BROWN: What about the nasal spray? I'm  
15 just trying to get the committee some idea of what  
16 your price point would be.

17 MR. LOTT: We plan on being around the market  
18 rate, but we would really like to work with  
19 manufacturers to lower the cost.

20 DR. BROWN: All right.

21 MR. LOTT: Thank you.

22 DR. BROWN: Thank you very much.

1 Will speaker number 3 step to the podium and  
2 introduce yourself? Please state your name and any  
3 organization you're representing -- 4.

4 MS. HAAS: Good morning. My name is Erin  
5 Haas. I work with the Maryland Department of Health,  
6 the assistant director in the Office of Prevention  
7 within the behavioral health administration.

8 Part of my role is to oversee our statewide  
9 naloxone distribution program. We have about 100  
10 programs that distribute naloxone locally. Twenty-  
11 four of those are our local health departments with  
12 whom I work very closely to set up their programs,  
13 provide them funding, and direct those resources to  
14 getting naloxone in the hands of people who use  
15 drugs.

16 I'm also a national consultant on harm  
17 reduction. I've worked with a lot of other states on  
18 their overdose prevention programs as well as some  
19 tribal nations. I've no financial disclosures or  
20 anything like that.

21 I really appreciate this opportunity for  
22 public comment. I just have three simple points to

1 make, and my goal is just to add a bit of a sense of  
2 urgency to the proceedings, hopefully within my  
3 modest time limit.

4 I want to first applaud the FDA. I really  
5 understand that this is a heavy lift for a federal  
6 agency. It's been a monumental shift to, I think,  
7 even have these meetings to bring together committees  
8 to focus on overdose prevention and naloxone. Having  
9 worked at naloxone policy at the state level, I know  
10 what it takes to change those laws, so at the federal  
11 level, it's even harder.

12 I can say that it's without frustration that  
13 I view having another meeting about naloxone. When  
14 we know that it's so easy to use, so safe, and all it  
15 does is restore breathing, it really feels unethical  
16 at this point in the opioid epidemic to provide any  
17 additional roadblocks to its access to those who are  
18 at risk of dying of overdose.

19 The only thing I can think of right now  
20 that's holding us back is stigma. I feel if we  
21 really believed that people who use drugs can use  
22 naloxone, if we really believe the research that for

1 20 years they've been saving each other, they've been  
2 taking care of each other where the healthcare system  
3 has failed them, I think if we really believed that,  
4 then we wouldn't have any restrictions to access to  
5 naloxone right now.

6 We've made it available to law enforcement,  
7 to friends and family, but the community where  
8 there's still a gap is people who use drugs. I think  
9 that there just really shouldn't be any more  
10 resistance to bringing down those barriers to access,  
11 especially in a changing risk environment with  
12 fentanyl continuing to permeate the heroin market,  
13 different fentanyl adulterants, and different new  
14 opioids that are being approved.

15 My second point is to again emphasize that  
16 over-the-counter naloxone would greatly expand  
17 access. From my perspective at the state, I think it  
18 would benefit our community programs, that they would  
19 be able to cut out working with a medical provider to  
20 order and distribute the drug.

21 I've spent a lot of time passing laws to  
22 ensure providers that they wouldn't be held liable

1 for writing this prescription for a lifesaving drug.  
2 I've spent a lot of time talking to providers,  
3 encouraging them, holding their hand through writing  
4 those prescriptions, and putting those laws into  
5 action, working with the medical boards. Really, all  
6 of that just feels unnecessary.

7 I think for new programs where the state  
8 hasn't made that lift across the country, making it  
9 over the counter will encourage them to provide  
10 naloxone and make it a lot easier for them to get  
11 started and have wide distribution of the drug.

12 Finally, I think related to the topic that I  
13 know is up for debate today, I think co-prescribing  
14 naloxone with opioids is a great idea. At this  
15 point, it just feels like why not do it. It's  
16 another way to expand access. I think it would  
17 improve our standards of care for people who use  
18 opioids.

19 Doctors should be having that conversation.  
20 If you're prescribed an opioid and you don't  
21 understand the risks for overdose, and don't  
22 understand that there is actually an antidote to that

1 overdose, again, it feels unethical at this point in  
2 time.

3 I also believe that that would drive demand  
4 at the pharmacy level. We've heard how difficult it  
5 is to get naloxone at a pharmacy despite standing  
6 orders, and again, despite all the efforts to educate  
7 pharmacists, all the CEUs, all the presentations to  
8 the Board of Pharmacy, it's still very, very  
9 difficult.

10 I hear over and over again from pharmacists  
11 that people just aren't coming in to ask for it, so  
12 why stock it, especially when they can order it  
13 within 24 hours, which is fine. But I think with  
14 that increased demand, we'll see more availability in  
15 pharmacies, more ready availability, so that they can  
16 provide it to anybody who walks in the door and asks  
17 for it, in lieu of it being over the counter.

18 That's my final point. Thank you very much,  
19 again, for the opportunity for public comment, for  
20 having this meeting, and I know doing all the hard  
21 work that it takes to get to this point in time.  
22 Thank you.

1 DR. BROWN: Thank you.

2 Would speaker number 5 step to the podium and  
3 introduce yourself?

4 DR. KOCHANOWSKI: Good morning. I'm Barbara  
5 Kochanowski, senior vice president of regulatory and  
6 scientific affairs at the Consumer Healthcare Product  
7 Association. CHPA is the trade association  
8 representing the manufacturers of over-the-counter  
9 medicines and dietary supplements. CHPA is one of  
10 the oldest trade associations in America and the only  
11 one representing OTC medicines.

12 CHPA has been a long supporter of access to  
13 appropriate medicines without a prescription, and  
14 that's what I'm here to talk about. I'll tell you  
15 how the power of access through prescription to OTC  
16 switch benefits consumers and the healthcare system.

17 Prescription to OTC switch has a 40-year  
18 track record of providing value to Americans through  
19 access, affordability, trust, empowerment, and  
20 at-hand benefits. Today I'll talk about these  
21 values, share some specific examples of the benefits  
22 of switch, and key principles behind prescription to

1 OTC switch.

2 Access to appropriate medicines without a  
3 prescription empowers consumers to take greater over  
4 their health and provides tremendous public health  
5 benefits. Fueled in part by innovation and  
6 prescription to OTC switch, the U.S. market for OTC  
7 medicines is strong, providing Americans with  
8 accessible, affordable, and trusted healthcare  
9 options available 24/7 in a wide range of retail  
10 outlets, including pharmacies, supermarkets, and mass  
11 merchandisers.

12 Looking broadly at the importance of access  
13 and affordability, CHPA worked with Booz and Company  
14 to estimate the value of OTC medicines to the U.S.  
15 healthcare system. The 2012 study determined value  
16 for seven of the largest treatment categories based  
17 on the cost of alternatives, including nontreatment  
18 if medicines were not available. It looked at  
19 behavior based on both actual experience with  
20 prescription to OTC switches and using a nationally  
21 representative survey of 3200 Americans.

22 Among the study's key findings, OTC medicines

1 saved the entire U.S. healthcare system,  
2 employer-sponsored healthcare plans, government  
3 programs, self-insured, and the uninsured  
4 \$102 billion annually. For every dollar spent on OTC  
5 medicines, the healthcare system saves 6 [dollars] to  
6 \$7.

7 The availability of OTC medicines in the  
8 seven treatment categories provides relief for  
9 millions of Americans in the U.S., 60 million of whom  
10 would not seek treatment if OTCs were not available.  
11 And the study found that OTC medicine offers  
12 additionally potentially 23 billion in potential  
13 worker productivity benefits by keeping the American  
14 workforce at work and not at home or in doctors'  
15 offices.

16 This original study has recently been  
17 updated, and while we're still analyzing the data, we  
18 expect to announce in the first quarter of next year  
19 that OTC medicines are even more important to the  
20 U.S. healthcare system than what we saw in 2012.

21 Looking at naloxone OTC access at an  
22 affordable cost definitely empowers consumers to be

1 prepared to act. We have active interested  
2 healthcare consumers who want to take control of  
3 their healthcare needs. They must have trust in the  
4 safety, quality, and effectiveness of their  
5 medicines.

6 For instance, in qualitative research we  
7 released in 2013 by Nielsen and IMS on drivers of  
8 trust, we found most Americans surveyed prefer to use  
9 OTC medicines instead of a prescription when the OTC  
10 is available. Three of those five surveyed visit a  
11 healthcare professional one to two times a year, and  
12 yet the average U.S. household reports four to five  
13 instances of cold and flu, three to four instances of  
14 heartburn each year.

15 The point, for a range of common illnesses or  
16 conditions, Americans rely on OTC medicines without  
17 having to see a healthcare professional. But that  
18 doesn't apply solely to patients. Healthcare  
19 professionals also report high trust in OTC  
20 medicines. For instance, 98 percent of primary care  
21 physicians report that they trust OTC medicines and  
22 recommend them to their patients.

1           Looking at naloxone, we've heard first  
2 responders and community-based organizations have had  
3 success administering naloxone. If naloxone becomes  
4 available OTC, consumers will need to trust that this  
5 very effective medicine with little risk can be used  
6 effectively by them to treat overdose.

7           Let's look at three specific prescription to  
8 OTC switch examples underscoring the power of access.  
9 First, the late 1990s brought us prescription  
10 nicotine replacement therapies. More than one study  
11 found a 150 to 200 percent increase in their use in  
12 the first year after switching to OTC status. That  
13 enhanced access has resulted in tens of thousands of  
14 people quitting smoking every year. That's longer,  
15 healthier lives. That's a \$2 billion public health  
16 benefit every year.

17           The past ten years have seen consumers  
18 receive the benefit of OTC access to frequent  
19 heartburn and allergy medicines. In the case of  
20 allergy medicines, since 2009, 5 medicines once  
21 available only via prescription, including intranasal  
22 steroids, are now available OTC.

1           A study by Nielsen and CHPA showed a very  
2 significant shift to OTC allergy products and a  
3 slight decrease in healthcare provider visits,  
4 indicating the important role access to OTC treatment  
5 provides without overwhelming healthcare providers  
6 with more visits for more sufferers.

7           Finally, a recent paper by Chang and Brass  
8 showed the benefit of OTC proton pump inhibitors,  
9 first introduced in 2003, in reducing doctor office  
10 visits for upper GI conditions.

11           The switch of a prescription medicine to OTC  
12 status is a science-based, data-driven process  
13 involving extensive interaction between the sponsor  
14 and FDA; as you heard yesterday from Ms. Cohen,  
15 thorough research to develop labeling, testing to  
16 make sure the consumers understand when the product  
17 is right for them and how to properly use it.

18           This research also informs education and the  
19 type of education that may be helpful in the OTC  
20 environment. Consideration of a switch also involves  
21 an analysis of risk-benefit. This is a model being  
22 used more and more. It's an international framework

1 for issue review, and in 2011, Drs. Chang and Brass  
2 and colleagues proposed it for use in switch.

3 While there's yet to be a determination from  
4 FDA about whether naloxone should be switched, we can  
5 look at some of the historical criteria and see how  
6 naloxone stacks up.

7 OTC status will certainly improve access to  
8 naloxone. Naloxone can reverse otherwise fatal  
9 opioid overdoses. There's a clear understanding of  
10 the expected benefit and often little to no time for  
11 physician or other healthcare professional to  
12 intervene and evaluate the condition. There's no  
13 special toxicity risk, a wide margin of safety, and  
14 no risk of overdose.

15 We await the development of a consumer-  
16 friendly label and demonstration of appropriate use  
17 of an OTC product. It's very rare for a potential  
18 OTC medicine to have such lifesaving possibilities.

19 In conclusion, access provides tremendous  
20 power for consumers. CHPA supports science-based,  
21 data-driven decisions on switch applications for  
22 direct consumer use. Evidence supports individual

1 and public health benefits of OTC medicines,  
2 including through prescription to OTC switch. I  
3 trust FDA will include consideration of the benefit  
4 of access as they evaluate naloxone for OTC status.  
5 Thank you.

6 DR. BROWN: Thank you.

7 Would speaker number 6 step up to the podium  
8 and introduce yourself?

9 MS. McLEMORE: Good morning. My name is  
10 Megan McLemore, and I'm an attorney and senior health  
11 researcher at Human Rights Watch. I have no  
12 financial interest to disclose.

13 Human Rights Watch is the largest  
14 independent, nongovernmental human rights monitoring  
15 organization based in the United States. We have  
16 researchers in more than 90 countries. We  
17 investigate human rights conditions, do policy and  
18 legal analysis, and advocate with governmental  
19 entities for change.

20 For more than a decade, I have focused much  
21 of my work on increasing access to health services  
22 for stigmatized, marginalized, and criminalized

1 populations, including people who use drugs.

2 We support efforts to increase co-prescribing  
3 naloxone with opioid medications as one of the many  
4 responses that are required in the midst of a public  
5 health emergency that is seeing hundreds of Americans  
6 lose their lives every day. But my remarks today  
7 will focus on the issue of over-the-counter naloxone,  
8 as we believe this is necessary and overdue as part  
9 of an all-hands deck approach that will reach the  
10 majority -- the majority -- of people dying of  
11 opioid-related overdose in the United States.

12 I would like to share some firsthand  
13 experiences from the ground that might help to  
14 understand why this is so important.

15 I spent this last week in Iowa, where I  
16 joined two community-based organizations in their  
17 harm reduction activities, Quad Cities Harm Reduction  
18 and the Iowa Harm Reduction Coalition.

19 In the three short days I spent with them,  
20 they attended one funeral of a friend who had  
21 overdosed after coming out of jail. The receptionist  
22 at the methadone clinic told us her brother had

1 recently died of overdose, and when we did outreach  
2 at the Davenport bus station, someone had overdosed  
3 in the bathroom a half an hour before we arrived.  
4 The fire department vehicle had just left.

5 Such is the situation on the ground in  
6 America's heartland, and the rate of overdose in Iowa  
7 is actually relatively low.

8 Kim Brown, whom Eliza mentioned in her  
9 presentation, started Quad Cities Harm Reduction a  
10 few years ago after her son Andy died of overdose  
11 after leaving the county jail. In their little  
12 office, they have a white board up with the latest  
13 data. In 2018 through Thanksgiving, they have  
14 distributed 1,201 naloxone kits and 240 reversals had  
15 been reported.

16 This reporting is informal and surely  
17 underestimates the number of reversals, as not  
18 everyone lets them know. That is at least 240 lives  
19 saved. And I don't need to remind you that these are  
20 more than numbers. These are people's mothers,  
21 fathers, brothers, sons, and daughters whose lives  
22 are saved by volunteers who are giving out naloxone

1 kits at the shelters, at the food banks, at motels,  
2 at trailer parks, at the methadone clinic, and at the  
3 bus stations.

4           These are all injectable kits because Kim  
5 says, quote, "We can't afford the nasal spray, and  
6 these work just fine."

7           How could moving naloxone over the counter  
8 help community-based organizations? The requirement  
9 for a standing order was a barrier. Kim said it took  
10 seven months to find a provider to do a standing  
11 order for them, and that is in a city. For smaller  
12 towns and rural areas, it might prove impossible.

13           Also, people who use drugs are not likely to  
14 use pharmacies when interaction with the pharmacist  
15 is required. Lindsay, a 23-year-old volunteer with  
16 QC Harm Reduction, told me that, quote, "When I was  
17 using, the last thing on my mind was health insurance  
18 or dealing with any of that. I wasn't about to go  
19 into a pharmacy and have a session with somebody in a  
20 white coat who might look down on me."

21           Lindsay might not have the money to buy a  
22 naloxone kit for herself even if it were over the

1 counter, but over-the-counter status would make it  
2 easier for community-based organizations to buy  
3 naloxone in bulk and then distribute greater amounts  
4 of the product for free. Mail order initiatives that  
5 are underway would also be able to scale up much more  
6 easily.

7 Prescription status is a legal barrier as  
8 well. In Florida, where I'm from, community-based  
9 organizations are not expressly permitted to  
10 distribute it under the naloxone laws, and none of  
11 the 67 county public health departments in Florida  
12 distribute naloxone. With no public health support  
13 and no express legal permission statewide for either  
14 Naloxone or syringe exchange, community-based  
15 distribution is extremely limited.

16 In Jacksonville, for example, no community  
17 organization distributes naloxone despite alarmingly  
18 high overdose rates in that city. In their minds,  
19 the prescription status raises liability issues, the  
20 law is unclear, and they do not distribute naloxone  
21 as a result.

22 In contrast, in Miami, under a pilot program

1        permitting syringe exchange, the one in the state of  
2        Florida, the syringe exchange has reversed more than  
3        a thousand overdoses in a year and a half of naloxone  
4        distribution. In order for a community to be  
5        saturated such as in Hamilton County, Ohio, every  
6        barrier must be addressed and reduced or eliminated.  
7        That is the only way to achieve significant results  
8        in mortality rates such as we heard about yesterday.

9                I call your attention to the public comment  
10              submitted by the National Health Law Project in your  
11              docket papers. NHeLP has addressed the  
12              misunderstanding that the FDA must wait for a  
13              manufacturer to apply to transition their product to  
14              over-the-counter status.

15              This is incorrect. The FDA has the authority  
16              right now to initiate a transition to over-the-  
17              counter status for numerous formulations of naloxone.  
18              Indeed, the commissioner has the obligation to do so  
19              when the product at issue has proven safe for over-  
20              the-counter distribution and the prescription is no  
21              longer serving the public health.

22              Naloxone is a safe generic medication that

1 has decades' long track record of use by laypeople,  
2 and in fact, many formulations are now expressly  
3 designed for use by nonmedical personnel. We applaud  
4 the efforts of the FDA to prepare every step for a  
5 manufacturer to come forward, including doing the  
6 label research for them, but the fact is that none  
7 have done so to date.

8 We support the recommendation by the National  
9 Health Law Project, the Harm Reduction Coalition,  
10 Dr. Peter Davidson, and others who spoke yesterday  
11 and today that at least some formulations of naloxone  
12 be approved immediately by the FDA for over-the-  
13 counter status.

14 Cost is certainly an issue, but one barrier  
15 should not be used to justify continuation of  
16 another. Some formulations could remain under  
17 prescription status for insurance purposes, and we  
18 believe that the public health emergency more than  
19 justifies government action to subsidize bulk  
20 purchases.

21 But most people who are dying are outside of  
22 the medical and insurance model. The fact is that

1 people like Lindsay in Iowa don't have insurance,  
2 they cannot afford naloxone now, and only community-  
3 based distribution is saving their lives. As a  
4 matter of public health and human rights, the FDA  
5 must use every means available to it to scale up  
6 those operations.

7 Human Rights Watch has submitted comments  
8 that are part of the docket, and if you need further  
9 information, please do not hesitate to contact me.  
10 Thank you very much.

11 DR. BROWN: Thank you.

12 Could speaker 7 step up to the podium and  
13 introduce yourself?

14 DR. PLUMB: Hello. My name is Jennifer  
15 Plumb. I'm a pediatrician, an ER doc, a mom, also a  
16 sister who lost her brother to a heroin overdose in  
17 1996. I wanted to talk to you a little bit today  
18 about my experience in Utah and taking lessons that  
19 I've learned, trying to figure out how to effectively  
20 get naloxone out in my state with the hopes that it  
21 can help inform you on what we really need.

22 To give you an idea, Utah is a little bit of

1 an unexpected spot to be thinking about this realm  
2 from. Here's an idea of what our injury deaths look  
3 like. Injury death equals preventable death. Injury  
4 doesn't happen; death doesn't happen. And in the  
5 state of Utah, we lose more people to drug poisonings  
6 or overdoses than we do to firearms and motor vehicle  
7 crashes put together.

8 Our opioid deaths in that state, this very  
9 conservative state, which actually has a lower usage  
10 rate of alcohol, tobacco, many of the illicit  
11 substances and doesn't have the highest prescribing  
12 but decently high prescribing, has opioid deaths, at  
13 least as of 2016, two-thirds of which were attributed  
14 to prescription opioids and one-third of which  
15 attributed to heroin and other illicit substances.  
16 We bury one Utahan every single day in this state.

17 This led to, by 2014, Utah being fourth  
18 highest in the nation for overdose deaths. Again,  
19 kind of an unexpected place certainly for most  
20 Utahans, but I think for a lot of the nation, you  
21 don't think of Utah that way. Kentucky, West  
22 Virginia, New Mexico were higher than us at that

1 point.

2 2014 was a pivotal year when we realized  
3 this, and we said we've got to step in. We've got to  
4 start doing something. Naloxone access was one of  
5 the largest steps that we took in doing that. By  
6 2015, we'd fallen to 7th in the nation. By 2016,  
7 we'd fallen to 19th in the nation.

8 Now, sadly, our rates weren't changing. We  
9 were still in the 22 to 23 per 100,000 range. Other  
10 states were leap frogging over us, so at least it  
11 felt like we'd held the dam. But we learned a lot of  
12 really important lessons in that time, and I think  
13 those are lessons I wanted to share with you today.

14 Lest it sounds a little bit negative and  
15 gloom and doom, and I show you as it goes across  
16 county by county by county, some of our counties have  
17 death rates up into the 50 to 70 per 100,000 in the  
18 center of the state.

19 We have actually finally started to see a bit  
20 of a turning of the tide in Utah. In 2017, as is  
21 reported by CDC data, we are one of the less than ten  
22 states that did experience a decrease in our death

1 rate, down about 19 percent in 2017. What that  
2 actually looks like as reported by our local Salt  
3 Lake City Tribune is that we've seen decreases in our  
4 heroin-related deaths, our prescription opioid-  
5 related deaths, but a bit of an increase in our bulk  
6 substances.

7 2017 meant that there were nearly 90 fewer  
8 people buried, 90 fewer families that had to go  
9 through what my family went through, 90 fewer  
10 devastations that happened. That is still one death  
11 every day, and that's too many. But I feel like  
12 we're perhaps on to something, and those are not  
13 lessons that I necessarily knew off the bat.

14 We wanted in 2014, like I mentioned, to  
15 impact change, and that was when we first got  
16 naloxone access laws. You're probably surprised; not  
17 many of you. Utah is fairly behind the curve in a  
18 lot of things. But 2014 was our first naloxone  
19 access laws, and they were important because they  
20 allowed for people to be prescribed or dispensed  
21 naloxone, so the very mainstream way that we think  
22 about, doc or pharmacy, if you were someone at risk

1 of overdose or at risk of witnessing an overdose.

2 All right; makes sense.

3 We also put into our law that there was no  
4 physician-patient relationship required, which I  
5 think is very important when we look at ways that we  
6 need to get access out and not have communities  
7 experiencing what many of the other public speakers  
8 are talking about, difficulties getting someone to  
9 prescribe it.

10 Our initial law did require -- the only legal  
11 requirement was that 911 would be called if you used  
12 your layperson naloxone kit, and then finally it  
13 clarified that this was a voluntary action to use it.

14 We felt really good about these laws. I felt  
15 really good about these laws, and I suppose on some  
16 level, I was thinking of it like a flu shot. Get it  
17 in the clinics, get it in the pharmacies, get it in  
18 the health departments, get it in the docs' offices.  
19 Guess what? Everybody is going to get naloxone.

20 I was wrong, and I was thinking at it, I  
21 suppose, from that doc, that MD, that mainstream  
22 perspective because there were about two docs, maybe

1 three, in the entire state that would write those  
2 prescriptions. And thankfully, because we had no  
3 physician-patient relationship required, I wrote a  
4 lot of scripts, literally across a huge state, north  
5 to south, east to west. But that's not a solution.  
6 Right?

7 So we went back in 2016 and created a clause  
8 in our law that authorized overdose outreach  
9 providers. These are people who can furnish naloxone  
10 without civil or criminal liability. And as you can  
11 imagine, we put everybody who would need to be on a  
12 list on the list: law enforcement, fire departments,  
13 EMS, folks that work in recovery settings, folks that  
14 work in health departments, folks that work with  
15 those experiencing homelessness, all the way down to,  
16 probably the smartest thing I will have accomplished  
17 in my lifetime, individuals.

18 Any individual in the state of Utah is  
19 allowed to furnish naloxone, and that's exactly the  
20 model that has worked for us because this mainstream  
21 setting idea is not where a lot of people who are at  
22 risk of witnessing or experiencing an overdose are

1 willing to go.

2 It's folks that work in outreach settings.  
3 It's folks that work in needle exchange. It's moms.  
4 I know one mom who 4 of her 8 kids are heroin  
5 addicts. She has saved dozens of lives by equipping  
6 other moms and other folks around her because they're  
7 not comfortable talking to their doc or their  
8 pharmacist, but they're comfortable talking to Lana,  
9 an individual within her community.

10 We did also get a standing-order bill and law  
11 through in 2016, which I think has been important for  
12 that behind-the-counter model as well as for other  
13 programs. But again, it's not where the majority of  
14 naloxone access is.

15 Where we are getting wins or where we are  
16 having lives saved is by getting kits directly into  
17 the hands of people who use drugs, the lessons  
18 learned from Dan Bigg and from Eliza Wheeler and from  
19 Sharon Stancliff in New York.

20 Actually, I thought I could do this much  
21 differently, and I was wrong. It wasn't a pharmacy  
22 model. It wasn't a go-by-the-mainstream model.

1 People don't want to go to the pharmacy, and they  
2 don't want to go to the health department where they  
3 get their benefits. And they don't want to talk to  
4 their doc because sometimes they're concerned their  
5 doc will cut off their prescriptions.

6 We've got to put it directly into people's  
7 hands by providing local points of access from people  
8 who know, by strategically targeting, and by getting  
9 into the communities of people that need it by  
10 trusted entities.

11 These are oftentimes atypical strategies. It  
12 isn't go just to the health department, go just to  
13 the pharmacy. It's the Lanas. It's getting kids in  
14 libraries. It's EMS setting leave on scene kits.  
15 And we do ensure training and competence as well, but  
16 we really believe that these atypical strategies are  
17 what have made a difference for us. Again, it's not  
18 like the flu shot. I really wish it would have been  
19 as simple as that. It is not like the flu shot for  
20 us.

21 To give you an idea, community versus  
22 pharmacy access, in 2017 with our standing order in

1 Utah, 4,275 doses of naloxone went out through 165  
2 pharmacies. They had 99 reversals reported. In 2015  
3 to 2017, Utah naloxone community-based distribution  
4 strategies put out 34,400 doses with 2,056 reversals  
5 reported. This year in 2018, we are on slate to have  
6 provided 44,000 doses out across our state, and our  
7 reversals are now up into the 2600 range, as it shows  
8 here.

9 Our total time, 74,000 doses have gone out  
10 with 2628 reversals. These are parents and spouses  
11 and friends and outreach workers. These are not EMS  
12 or doctors. We have trained and worked with 64, now  
13 65, law enforcement agencies in that same period of  
14 time, and in about a 1 to 10 ratio, they've had 268  
15 reversals reported to the 2600.

16 We've launched programs with EMS agencies  
17 where they leave naloxone kits on scene after an  
18 overdose where the family has seen it work, the  
19 friends have seen it work, and they are then provided  
20 with a kit.

21 In one of my favorite strategies, all of our  
22 18 Salt Lake County libraries given our outreach

1 prevention law, our librarians are furnishers of  
2 naloxone. Guess what? Librarians are the most  
3 trusted entity. I used to think it was firefighters.  
4 It's not; it's librarians. But you have to have ways  
5 for people to get naloxone from trusted folks,  
6 syringe exchange services as well.

7 Finally, what we do need? Well, I think  
8 honestly for me and the community-based setting,  
9 which is what we need to focus on, please clarify  
10 that a syringe and needle are FDA approved medical  
11 devices. They have been longer probably than I have  
12 been alive. Continue to support that 0.4 milligram  
13 intramuscular dosing. Approve a cheap, less than \$1  
14 over-the-counter form. Directly fund community-based  
15 organizations.

16 Don't let these new good ideas like  
17 co-prescribing and going big in the pharmacy take  
18 away the really good lived experience and effective  
19 community programming. Low-based, saturation-based  
20 distribution is really where the overwhelming wins  
21 are.

22 I support law enforcement and health

1 departments and pharmacies and co-prescribing and all  
2 of this, but please don't let these new good ideas  
3 squash what has really been thousands and thousands  
4 of lives saved. Thank you.

5 DR. BROWN: Thank you very much.

6 Would speaker number 8 step to the podium and  
7 identify yourself?

8 DR. BRATBERG: Good morning and thanks for  
9 the opportunity to talk. I'm Jeff Bratberg. I'm a  
10 clinical professor of pharmacy from the University of  
11 Rhode Island College of Pharmacy, and I'm a  
12 co-investigator or consultant on grants from the  
13 AHRQ, NIDA, the NIGMS, and the URI Foundation. These  
14 grants focus on expanding access to naloxone,  
15 addiction pharmacotherapy, hepatitis C treatments,  
16 and analyses of databases to enhance that work.

17 I'm also an unpaid advisor to two websites  
18 there, Prescribe to Prevent, where we've trained over  
19 60,000 health professionals in naloxone education,  
20 and Prevent-Protect, which provides tools for  
21 organizations conducting overdose prevention and  
22 naloxone advocacy, outreach, and communication

1 campaigns.

2 I want everyone to pause a little bit and  
3 think about why we're here. We're here because of  
4 death, unprecedented death. Four hundred people died  
5 of drug overdoses in this country while we debate,  
6 and they're going to die the next two days, and the  
7 next two days after that. So think about that.

8 I'm here to talk about solutions. So in  
9 Rhode Island, we've been working together across the  
10 state, across agencies, across disciplines to  
11 implement policy solutions, both supply and demand  
12 solutions. In the interest of time, I'm going to  
13 focus on three of our solutions; namely,  
14 documentation of naloxone in our prescription drug  
15 monitoring program, mandated insurance coverage of  
16 naloxone, and prescriber naloxone co-prescribing.

17 We saw a financial barrier to pharmacy access  
18 on naloxone, and so one of the laws we passed was  
19 mandated insurance coverage, both public and private  
20 payers. And we're the only state in the country that  
21 mandates insurance coverage for third parties. So  
22 anyone who has insurance in Rhode Island and goes to

1 a Rhode Island pharmacy can get naloxone for them if  
2 they're in a position to help someone from overdose,  
3 which is everyone in Rhode Island.

4 We also had a tracking barrier. We passed  
5 these policies; how do we know whether people are  
6 picking up naloxone? So we put it in the PMP, and we  
7 had a distribution barrier. Over five years ago, we  
8 were the first state to have a statewide  
9 collaborative practice agreement with pharmacies and  
10 a prescriber in Rhode Island, and we extended that to  
11 a standing order in 2014, and then just recently this  
12 summer, we mandated naloxone co-prescribing through  
13 regulation and statute.

14 Now, the desired outcome that many of my  
15 colleagues in presentations have outlined is to  
16 saturate the community with naloxone, understanding  
17 that community access is the number one access.

18 Here's our law. There are lots of words here  
19 like most laws, but the key phrase there is on the  
20 bottom under C, which is "intended for use on  
21 patients other than the insured." So that's the key  
22 thing here.

1           I think it was mentioned about how we define  
2 fraud. Fraud is defined as processing insurance  
3 under a name that does not appear on the  
4 prescription. So Jeff Bratberg goes to the pharmacy,  
5 and Jeff's Bratberg's insurance covers it. That's  
6 okay. You can do it for naloxone if you have a  
7 third-party access law.

8           Mandatory naloxone and PMP reporting, we've  
9 heard a lot of data on naloxone from these expensive  
10 comprehensive but not time sensitive databases where  
11 PMPs in most states are real-time comprehensive  
12 cost-effective solutions, and there are requirements  
13 for prescribers in opioid treatment programs who are  
14 treating the highest risk folks here, must check PMP.

15           Still when the law was passed, the third  
16 bullet there is that "the rules and regulations from  
17 the department removed prescriber information." So  
18 pharmacists and prescribers are unable to see  
19 naloxone in it, but the data I'll present are  
20 collected in aggregate and analyzed at the department  
21 of health level.

22           In July, we finished a year-long process to

1 do a regulation on the behest of what was done in  
2 Virginia in terms of co-prescribing but expanded it  
3 significantly. So we looked at CDC guidelines,  
4 aggregate greater than or equal to 50 MMEs of  
5 opioids, opioids plus benzos in the past 30 days or  
6 co-prescribed together, and anyone with opioid use  
7 disorder or a history of opioid overdose.

8           The bottom box really outlines the  
9 accountability, which is if co-prescribing is not  
10 appropriate for the patient, if it fits into one or  
11 more of those categories, they must document the  
12 reason in the patient's medical record. When the  
13 regulation was passed, all prescribers were notified  
14 in July of this year.

15           Now, in May, we introduced a bill that was  
16 passed at the end of our session in Rhode Island in  
17 June 30th, and the law is the most wide-ranging law  
18 for co-prescribing in the country. So I divided this  
19 to compare that regulation and the law and to see a  
20 lot of discussion has occurred on high-risk  
21 populations.

22           I paralleled this to a website from the

1 American Medical Association opioid task force  
2 question. PMP shows my patient's on high opioid  
3 dose. You've got 50 MME; further delineated in the  
4 statute, high dose extended-release and long-acting  
5 opioids, so more broad.

6 History of substance use disorder, in the  
7 regulation, substance use disorder or overdose  
8 history, but importantly, the law addresses some of  
9 the data that you've heard presented here: known  
10 history of intravenous drug use; documented history  
11 of alcohol or substance use disorder.

12 So patients who have cocaine use disorder,  
13 methamphetamine use disorder who inject drugs of any  
14 sort or misuse of prescription opioids, whether  
15 injecting or not, they should all get naloxone. The  
16 other bullet extends the overdose history to include  
17 hospitalized for opioid overdose, another solution,  
18 we've implemented in Rhode Island in providing  
19 naloxone at emergency departments.

20 We extended it further. Documented history  
21 of mental health disorder, respiratory ailments, and  
22 not just benzodiazepines, but also with other

1 respiratory depressants like alcohol, vaguely defined  
2 as other drugs.

3           Here's the data. I think it worked.  
4 Importantly, I want to start with April. We had  
5 165 -- there's the numbers at the bottom in terms of  
6 the numbers of naloxone dispensed. This is all  
7 formulations here. 165 percent increase was seen  
8 between our March and April numbers. That was due to  
9 three prescribers at one clinic in one of our  
10 39 cities and towns in Rhode Island. That might have  
11 been correlated to the Surgeon General's announcement  
12 earlier that month. We're not sure, but you see it  
13 fell down to normal levels there.

14           After the policy passed, there was a  
15 387 percent increase from June to July that was  
16 sustained over the last 4 months. Yesterday, I got  
17 our November numbers, which were 970. So more  
18 naloxone has been picked up from pharmacies in Rhode  
19 Island in the last 5 months than in the previous  
20 24 months due to co-prescribing.

21           We see a gender difference. There was really  
22 no difference until co-prescribing happened. Here

1 you can see in orange, females picked up more  
2 naloxone from pharmacies in the last 4 months.

3 Again, we've had the longest standing  
4 pharmacy access to naloxone in the country, we feel,  
5 and when we look at standing order versus  
6 co-prescribed. Again, the numbers are on the bottom  
7 there. The orange line clearly shows a massive  
8 increase in those co-prescribed.

9 Importantly, we see sustained standing-order  
10 naloxone from the prescribers who signed those  
11 standing orders. It remains the same. Actually  
12 between April and May, we saw a 57 percent increase  
13 in standing-order naloxone, so that's still trucking  
14 along there.

15 Who is prescribing this? It was an  
16 increasing number of prescribers from November '17  
17 through June '18, but again, a massive diversity of  
18 prescribers that were writing these prescriptions.

19 Who's paying for this? Remember, we mandate  
20 insurance coverage of naloxone, so the PMP breaks it  
21 down into five categories. I didn't have worker's  
22 compensation on here. But we look at Medicare,

1 Medicaid, and commercial insurance. You see  
2 sustained levels of each of those categories.  
3 Interestingly, Medicaid coverage is important. We  
4 have 96 percent of Rhode Islanders are insured. We  
5 see sustained Medicaid payment with Medicare showing  
6 a spike and then decreasing a bit throughout this  
7 summer and fall.

8 We have seen unintended consequences as  
9 stated. Pharmacists and pharmacy students in both  
10 informal surveys and in anecdotal conversations with  
11 me have said that prescribers -- one of the other  
12 solutions we have is starting in a year, we're  
13 mandating E-prescribing that other states have done  
14 for all prescriptions. We're already prescribing.  
15 About 92 percent of all prescriptions are  
16 E-prescribed.

17 So naloxone is being E-prescribed along with  
18 opioids to pharmacies. Pharmacists are filling it.  
19 Patients are unaware their prescribers have sent that  
20 prescription, creating perhaps an unintended  
21 conversation between the pharmacist and the patient.  
22 We've tried to train pharmacists. We think that

1 they're the best trained in the country because my  
2 colleagues and I helped train them, but I know that  
3 we have barriers there, too.

4           There are insurance co-pay barriers. My  
5 co-pay for insurance is \$25. I can pay that. Other  
6 people cannot. And I want to recollect Dr. Walley's  
7 data that we think that there's probably a 10-dollar  
8 price point in terms of co-pay. Even among people  
9 who interested in naloxone, if it's more than \$10,  
10 it's probably not going to do it there.

11           Limited formulation stocking, this goes to  
12 the generic vials of intramuscular, which again are  
13 the formulations saving the most people primarily  
14 through community groups. We provide that. Our law  
15 mandates generic naloxone. That needs to be stocked.

16           I'm sure you all have questions about please,  
17 Jeff, spend an hour and break down all of those  
18 different categories in the naloxone dispensary. I  
19 can't do that just yet, but we're working on it. And  
20 there may be stigma or discrimination, the pharmacist  
21 who doesn't want to dispense naloxone or doesn't have  
22 an emphatic conversation with a patient who may be

1 resistant to get it, the patient's not going to leave  
2 with it.

3 I must bring in my community colleague here.  
4 Michelle McKenzie presented this data sponsored by  
5 the CDC, interviewing people who inject drugs, a  
6 hundred of them. Luckily, 85 of them knew naloxone,  
7 65 carried it, 40 had used it.

8 When we look at this pie chart, the majority  
9 of naloxone getting to this high-risk population  
10 comes from the community, comes from syringe  
11 exchange, comes from drug treatment. We have an  
12 innovative partnership with pharmacies in our opioid  
13 treatment programs to process naloxone through  
14 insurance and deliver it to them.

15 We also have a mobile pharmacy system that  
16 allows -- for example, I last got my doses of  
17 naloxone from a conference room at the University of  
18 Rhode Island Memorial Union because the pharmacist  
19 had a laptop, a labeling machine, and a Square card  
20 reader to take my co-pay, labeled it, and handed it  
21 to me. That is something we should explore further.

22 What are the benefits? Lots of discussion

1 about does this does this reduce death? All the  
2 epidemiologists should hear in their heads,  
3 correlation is not causation. So I'll start with a  
4 graph looking at our mortality. This is from the  
5 Department of Health website.

6 Looking at the last 12 months, again,  
7 preliminary data is clearly linked there. Even  
8 though September data is still probably preliminary,  
9 we did see a 43 percent reduction in total deaths and  
10 a reduction in both fentanyl and non-fentanyl deaths.

11 We'd like to see where this goes. This is  
12 part of a general downward trend in overdose deaths  
13 in Rhode Island. We were one of the states that saw  
14 a decrease in 2017 of about 3.5 percent. We did see  
15 decreases between June and July in terms of overdoses  
16 in other years, so I don't know if this correlates  
17 with the policy change or the increase in naloxone.

18 Some other suggestions or potential benefits,  
19 pharmacies are harm reduction providers. They  
20 provide syringes. In some of our unpublished work,  
21 we've seen 70,000 syringes dispensed from pharmacies  
22 in high-risk areas in Massachusetts. So pharmacies

1 are syringe service programs if destigmatized  
2 pharmacists are working there.

3           Maybe this is increasing provider  
4 conversations about whether they need naloxone,  
5 whether they need opioid and benzo prescriptions.  
6 We've seen a downward trend in new opioid  
7 prescriptions, in high-dose opioid prescriptions  
8 above 90 MMEs. We've seen a decrease in opioid-benzo  
9 co-prescribing. Actually, we saw a 15 percent  
10 decrease between quarter 2 and quarter 3. This is  
11 all on preventoverdoseri.org, our public reporting  
12 website.

13           Potential benefits, again, insurance  
14 coverage, we don't know how many people were  
15 prescribed naloxone and how many people picked it up.  
16 That's an important ratio to determine but difficult  
17 to identify in the PMP data.

18           I think that while we mentioned and was cited  
19 several studies concerned with pharmacists' knowledge  
20 of standing order and with stocking naloxone, I can  
21 assure you that there's probably a very high coverage  
22 of naloxone in pharmacies in Rhode Island because

1 they're dispensing naloxone every day or every week  
2 instead of once a month. So they're keeping it  
3 stocked because it's being co-prescribed.

4           What can we do? I've talked about what Rhode  
5 Island has done compared to other states.  
6 Pharmacists do well, as most health professionals,  
7 when we're paid to practice at the top of our  
8 license. So recognizing pharmacists as providers is  
9 really important things that I know FDA can't do, but  
10 other federal agencies can do.

11           We can declare an actual public health  
12 emergency through the Stafford Act and deploy federal  
13 resources, makes naloxone generic through emergency  
14 means, add it to the strategic national stockpile,  
15 and deploy it because people are dying, hundreds of  
16 them every day. It's time that we get naloxone out  
17 in every single way possible.

18           Rescheduling to OTC, having an  
19 insurance-based mechanism to cover OTC, to cover  
20 prescription naloxone; it's got to get out there in  
21 every single way. Having layperson access to IM  
22 vials; we could require naloxone with syringe

1 purchases. Why don't we make syringes over the  
2 counter? We know that they save lives when we  
3 increase the quantity and actions of syringe service  
4 programs.

5 I have 30 seconds for questions. Thank you  
6 for the time.

7 DR. BROWN: Thank you very much.

8 Will speaker number 9 step to the podium and  
9 identify yourself?

10 MR. SMITH: Good morning. My name is Grant  
11 Smith, and I'm here representing the Drug Policy  
12 Alliance, the nation's leading organization working  
13 to reduce harms both from drug prohibition laws and  
14 illicit drug use. The Drug Policy Alliance  
15 appreciates the opportunity to contribute our  
16 perspective during this meeting, and I have no  
17 financial interest to disclose.

18 We were here in 2012 and 2015 when FDA also  
19 held public meetings examining the value of expanding  
20 naloxone access in community settings. We called  
21 then for FDA to prioritize support for  
22 community-based naloxone distribution by harm

1 reduction programs and bring an over-the-counter  
2 naloxone product to market.

3 We strongly believe that these same  
4 priorities apply today. While we support making  
5 naloxone available in as many settings as possible  
6 and have worked to help implement standing order and  
7 pharmacy-based access laws in a number of states, the  
8 continued stigmatization and criminalization of  
9 people who use drugs illicitly is likely to limit the  
10 effectiveness of these approaches of getting naloxone  
11 to people at highest risk of overdose.

12 Seeing a doctor or pharmacist can be a major  
13 barrier for people who use illicit drugs who report  
14 feeling stigmatized in healthcare settings. While  
15 guidelines recommending co-prescription for high-risk  
16 patients could help reduce overdose deaths, it's not  
17 clear how much this approach would mitigate overdose  
18 among people who use drugs illicitly.

19 The emergence of potent fentanyl and fentanyl  
20 analogs is a leading cause of overdose death across  
21 the country, underscores the urgent need for  
22 affordable and reliable access to naloxone in

1 community settings, and we urge the FDA to prioritize  
2 strategies that maximize the ability of heavily  
3 stigmatized and criminalized populations impacted by  
4 fentanyl and other illicit used opioids to have  
5 affordable and reliable access to naloxone products.

6 We see a critical strategy for accomplishing  
7 this is maximizing the loss in distribution to the  
8 community through harm reduction programs.

9 Community-based harm reduction programs currently  
10 serve populations vulnerable to fentanyl and other  
11 contaminants in the illegal drug supply, providing  
12 access to naloxone and other essential overdose  
13 prevention resources without judgment.

14 These distribution efforts are crucial to  
15 reversing the alarming rise in fentanyl-related  
16 overdose deaths as well as continuing to reduce  
17 preventable overdose deaths from prescription opioids  
18 and heroin. These efforts are also critical in light  
19 of the proliferation of drug-induced homicide laws  
20 and law enforcement hysteria regarding fentanyl that  
21 are undoubtedly deterring people who witness an  
22 overdose from calling 911.

1           We heard yesterday from Dr. Davidson that  
2 naloxone distribution programs distributed more than  
3 500,000 naloxone doses in 2017 alone, and this year  
4 are projecting to distribute up to 1 million doses in  
5 this alone.

6           The cost of naloxone is a huge issue that has  
7 hampered the ability of harm reduction programs that  
8 typically operate on shoestring budgets to distribute  
9 naloxone. Two concrete steps FDA can do now and that  
10 was discussed yesterday could help lower costs for  
11 these programs are approving intramuscular injectable  
12 naloxone for community distribution and extending to  
13 five years the shelf life of naloxone.

14           We also urge the FDA to prioritize making at  
15 least one formulation of naloxone available over the  
16 counter. FDA has the authority to do this through  
17 rulemaking, and a speaker earlier from Human Rights  
18 Watch went into detail on this. Having a low cost  
19 over-the-counter option could help eliminate many  
20 barriers to this lifesaving drug that having to  
21 obtain a prescription or consult with a pharmacist  
22 can perpetuate.

1           OTC would not take away a doctor's role in  
2           counseling patients about overdose risk, and a doctor  
3           can still prescribe an OTC product to their patient.  
4           Having an OTC product on the store shelves could also  
5           help remove stigma in society of talking about  
6           overdose risk, a factor identified in this meeting as  
7           an ongoing issue.

8           We applaud efforts by FDA to support industry  
9           development of an OTC product. We urge FDA to  
10          support any effort to bring a low-cost OTC product to  
11          market.

12          Finally, we urge FDA to give more  
13          opportunities for people who use drugs and harm  
14          reduction providers who are working on the front  
15          lines of this crisis to contribute wisdom and  
16          experience to agency meetings and process.

17          Peer-to-peer naloxone reversal was pioneered  
18          by people like Dan Bigg who used drugs long before  
19          the practice became mainstream. People who use drugs  
20          deserve an opportunity to have a greater role in  
21          meetings like this one, and FDA and other  
22          stakeholders have much to gain by listening to them.

1 Thank you.

2 DR. BROWN: Thank you.

3 Could speaker 10 step to the podium and  
4 identify yourself?

5 DR. MAYBARDUK: Thank you and good morning.

6 My name is Peter Maybarduk. I'm here for Public  
7 Citizen. We're a consumer advocacy group based in  
8 Washington, D.C. We have a 45-year history of  
9 representing the public interest before the federal  
10 agencies, Congress, and the courts.

11 I direct our Access to Medicine program.  
12 We're focused on issues of price and patents and  
13 competition in the United States and around the  
14 world. I have no conflicts of interest to declare.  
15 Public Citizen is supported by membership, dues, and  
16 foundations. We take no money from corporations or  
17 governments. We have approaching half a million  
18 members and supporters now.

19 We've heard quite a bit over the past couple  
20 of days of the challenges of cost that we are facing  
21 as a country in order to appropriately scale up our  
22 response to the opioid addiction crises. Depending

1 on the estimate, it seems that there are tens or  
2 hundreds of billions of dollars needed under current  
3 circumstances, but a spread of potentially hundreds  
4 of billions of dollars in the differences between  
5 using the patent-based products or potentially  
6 generic products.

7           Given that we face such an entrenched and  
8 complicated problem in many ways, we advise the  
9 government to do certainly every simple thing that it  
10 can, and we actually believe there is a relatively  
11 simple unexplored solution to the problem of cost  
12 where the U.S. government could essentially snap its  
13 fingers and open up the market to generic competition  
14 to deal with this public health crisis.

15           I'd like to take back the clock to 2001  
16 during the anthrax scare. At that time, Bush  
17 appointee, Secretary of Health and Human Services  
18 Tommy Thompson was in negotiations regarding the  
19 price of the anthrax response treatment Cipro. A  
20 mechanism of law came to that office's attention, and  
21 this is documented in the New York Times article and  
22 a Yale Law Journal article elsewhere that we can send

1       you.

2               It was noticed that the U.S. government  
3       actually has the authority to authorize generic  
4       competition any time. Secretary Thompson presented  
5       this possibility to the manufacturer of Cipro, Bayer.  
6       Bayer cut its price in half within a week at the  
7       prospect of potentially losing the monopoly rights  
8       that it had valued so highly.

9               Now, if the U.S. government was willing to  
10       take that action for anthrax, which ultimately  
11       resulted in 5 deaths, what will we do for one of the  
12       worst health crises in history, certainly in our  
13       nation's history, where probably that many people  
14       have passed away since we sat down this morning.

15               Our ask is essentially is that the federal  
16       government procure naloxone treatments and supply  
17       them to local health and law enforcement programs, to  
18       authorize such programs to procure generic versions  
19       of patented naloxone treatments.

20               Pursuant to 28 U.S.C. Section 1498, the  
21       government should authorize use of any and all  
22       patents necessary to allow for the production of

1 generic naloxone treatments and delivery devices to  
2 respond to the opioid addiction epidemic. This will  
3 facilitate competition and make treatment more  
4 affordable, and accessible.

5 We've made this request in writing. It's in  
6 the comments that you have with you. It's also in  
7 the letter that we filed with the administration  
8 together in partnership with the City of Baltimore  
9 Health Department earlier this year.

10 A little bit on the problem faced by our  
11 partners in Baltimore due to the high prices of  
12 Narcan, most especially. Everyday residents have  
13 used naloxone in Baltimore to save more than 1800  
14 lives since 2015. That total does not include the  
15 lives saved by first responders who reversed more  
16 than 10,000 overdoses over the same time period.

17 Baltimore city has approximately \$1 million  
18 per year to spend on naloxone, which even at the  
19 steeply discounted rate of \$75 per Narcan kit,  
20 purchases about 13,000 kits for the city.

21 Now, to have enough kits for every Baltimore  
22 resident with opioid use disorder, let alone kits for

1 their loved ones or community members, that number  
2 would need to be doubled under current budget  
3 estimates. To get to the point where Baltimore could  
4 actually have naloxone appropriately on hand for  
5 everyone, the city would have to spend \$49 million,  
6 which is twice the city's entire health budget.

7 Now, I think it bears mentioning that we're  
8 not talking about a product that is inherently  
9 expensive. We're not paying for manufacturing costs  
10 or even for technology. Naloxone was FDA approved in  
11 1971, and the delivery systems are not technically  
12 very complex. What we're really paying for is  
13 monopoly. We're paying for patents and exclusive  
14 control of the devices.

15 Now, it's a basic but sometimes forgotten  
16 principle of patents and the grant of patents by  
17 government that they are there to serve the public  
18 interest, and that the government always reserves the  
19 right to make use of patented technologies as it sees  
20 fit. This goes back to the very first patent statute  
21 in 1474 in Venice and has been used by many  
22 governments since. We don't give away exclusive

1 rights to essential technologies without reserving  
2 our fundamental right to protect the public interest.

3 A little bit on how this could work. One  
4 model for the type of -- once you make the  
5 authorization of the patents for what can be done,  
6 one possible model is the Vaccine for Children's  
7 program. Under the VFC program, the Centers for  
8 Disease Control purchases vaccines at a discount,  
9 distributes them to state health departments and  
10 certain local and territorial health agencies, which  
11 then provide them at no charge to physicians' offices  
12 and clinics that are registered as Vaccine for  
13 Children program providers.

14 Putting in place a similar program for  
15 naloxone purchasing and distribution would allow the  
16 government to purchase naloxone indicated for  
17 community use at lower costs and distribute it to  
18 local health departments, police departments, fire  
19 departments, first responders, and so on.

20 In the alternative, the federal government  
21 could authorize states and territories that receive  
22 federal funding to essentially act as federal

1 contractors under the statute and purchase their own  
2 generic naloxone. The statute that I'm talking about  
3 is a relatively simple and short one. This is  
4 something that the U.S. government can do at any  
5 time. There isn't even a negotiation or request for  
6 permission.

7 The entirety of the statute is about  
8 conditions and the royalty payments that will be made  
9 back to the patent holder as compensation for their  
10 investments in research and development. There's an  
11 academic literature about how to appropriately set  
12 those rates so that we are investing in R&D  
13 appropriately without giving away windfall profits.

14 This is a statute that the U.S. government  
15 has used routinely in other sectors such as defense,  
16 and while it was presented in 2001, not recently  
17 used, but as a commonly used vehicle for  
18 pharmaceuticals, a commonly used vehicle in the  
19 United States and around the world to ensure  
20 competition and deal with the problem of monopoly  
21 rents.

22 Narcan is protected by 7 patents that expire

1 in March 2035. while Evzio is protected by  
2 25 patents, the latest of which expires in July of  
3 2034. So unless we act, this is a problem that is  
4 going to be with us for a very long time. And it  
5 seems to us that the choice is essentially one  
6 between treatment rationing, which we have today,  
7 obviously in excess and costing a great many lives;  
8 coming up with tens or hundreds of billions of  
9 dollars; or taking a relatively simple step to  
10 authorize competition so that more producers can  
11 enter the market and we can bring prices massively  
12 down for the naloxone delivery systems, saving the  
13 federal government and many of the programs in this  
14 room, a tremendous amount of resources.

15 Obviously, there would be a short lag time  
16 while different producers figure out what sort of  
17 product they want to introduce and go through the FDA  
18 approval process, but we're talking about a very  
19 large market, so the incentives are there.

20 The only thing that is standing in the way is  
21 that we have accepted monopoly power by a few  
22 companies, price gouging access to some of the most

1 important products of our time. It's not the  
2 technology or the science that we are paying for at  
3 this point.

4 The statute is a very diffuse authority. It  
5 can be exercised by FDA for programs under its  
6 jurisdiction and other entities in the federal  
7 government.

8 This is the first opportunity, I think the  
9 only opportunity, we've had to discuss this idea with  
10 U.S. government, certainly to discuss it in a public  
11 forum. We believe that what your committees say,  
12 what your recommendations will be, matter quite a  
13 bit, and we'd urge you not to overlook this  
14 relatively simple response to an otherwise very  
15 complex problem that could save a great many lives.  
16 Thank you.

17 DR. BROWN: Could you repeat the specific  
18 section of the U.S. code?

19 MR. MAYBARDUK: Of course, and it should be  
20 in your materials. It's 28 U.S.C. 1498.

21 DR. BROWN: So that would be 28 U.S.C. 1498?

22 MR. MAYBARDUK: That's correct. We can

1 provide with a law review article and other materials  
2 that document the history and particularities of this  
3 statute.

4 DR. BROWN: It would be possible to be  
5 exercised by who?

6 MR. MAYBARDUK: The authority is diffuse. It  
7 can be used by essentially, I think, any official of  
8 the federal government. The question is what  
9 programs come under the purview of that official.

10 FDA could exercise this authority but can  
11 only directly authorize generic competition or use of  
12 the patent essentially for programs that come under  
13 its jurisdiction. But the federal government as a  
14 whole certainly could create a new program to deal  
15 with the opioid addiction crisis and authorize the  
16 use of the patents through that program, and just  
17 purchase generic products on behalf of everyone that  
18 needs it nationwide.

19 In other words, the federal government has  
20 this solution at its fingertips, (snaps) like that.  
21 It just has to decide to exercise the authority.

22 DR. BROWN: Thank you very much.

1 MR. MAYBARDUK: Thank you.

2 DR. BROWN: Could speaker number 11 step to  
3 the podium and identify yourself?

4 MR. TRIPODI: Good morning. My name is Mark  
5 Tripodi. I serve as chief development officer for  
6 Venebio Technologies, a Richmond-based life sciences  
7 research firm. I've spent 27 years in the health  
8 analytics space with various firms, small and large,  
9 mostly in the Medicaid analytics arena, run PBMs,  
10 population health, health analytics, and other  
11 businesses. I served as Xerox's chief innovative  
12 officer in government healthcare for several years.

13 My focus at Venebio is in the area of  
14 predictive analytics, specifically predictive  
15 analytics to identify elevated risk of overdose in  
16 patients prescribed opioid treatment.

17 Venebio is a firm mostly made up of doctorate  
18 level epidemiologists, biostatisticians, clinicians,  
19 and other researchers. It's a private firm servicing  
20 commercial and government clients in a variety of  
21 research funding agencies, including NIDA. Venebio  
22 provides services in epidemiology, bioinformatics,

1 biomarker, and drug safety research, and health  
2 economics.

3 For all of its ten years, Venebio has  
4 specialized in understanding the causes and treatment  
5 of addiction with a focus on opioid safety, and the  
6 firm's principals have maintained that same focus for  
7 well over 30 years. Venebio's opioid risk research  
8 and publications are well regarded. Some are, in  
9 fact, referenced in the CDC's current opioid  
10 prescribing guidelines.

11 Venebio has also worked with makers of  
12 naloxone delivery systems, with manufacturers of  
13 medication-assisted therapies for substance use  
14 disorder. And we, frankly, recognize the remarkable  
15 lifesaving value of naloxone. We acknowledge that  
16 universal co-prescription would indeed make this  
17 country a much safer place for opioid-treated  
18 patients.

19 However, we also recognize that in an  
20 environment where resources are limited, it may be  
21 that universal co-prescription of naloxone is  
22 determined to be impractical or cost prohibitive, and

1 we also recognize that a patient's risk of overdose  
2 exists on a spectrum. And while there is no  
3 zero-risk opioid use, there are tools that can  
4 effectively identify which patients are at elevated  
5 risk so that we can focus efforts to ensure that  
6 those patients at least have access to naloxone.

7 Based on its extensive research, Venebio  
8 created an algorithm-based tool able to predict the  
9 likelihood of overdose for opioid-treated patients.  
10 Venebio Opioid Advisor, or VOA, bases a risk  
11 prediction on a patient's readily available drug and  
12 medical data either taken from healthcare claims,  
13 extracted from the EMR systems, or manually entered  
14 by clinicians.

15 VOA targets 16 specific risk factors for  
16 overdose, constructs a patient risk profile, and  
17 predicts each patient's likelihood of experiencing a  
18 life-threatening opioid overdose in the subsequent  
19 six months. VOA also provides personalized clinical  
20 decision support to stakeholders and clinicians to  
21 guide them in reducing patient risk.

22 Importantly and unlike other tools, VOA

1 applies equally well to patients with substance abuse  
2 problems as it does for nondrug abusing patients that  
3 might have elevated risk for other clinical risk  
4 factors.

5 The patent pending algorithm is relatively  
6 lightweight, easily implemented, and per a 513(g) RFI  
7 was determined not to be a device. The tool is being  
8 used in hospital and retail pharmacy settings to  
9 inform opioid prescribing and dispensing, and it's  
10 used by health plans and Medicaid programs as a  
11 triage tool to surface patients at elevated risk for  
12 purposes of targeted naloxone distribution.

13 The research behind VOA is substantially  
14 funded by NIH, specifically by NIDA. It includes an  
15 initial discovery study of 2 million opioid-treated  
16 patients in the national VA system followed by a  
17 study of 18 million opioid-treated patients from a  
18 national commercial database.

19 Resulting from that research, Venebio  
20 published four peer-reviewed papers which document  
21 VOA's scientific underpinnings and demonstrate that  
22 the algorithm predicts the average patient's risk of

1       opioid overdose with 90 percent accuracy.

2               As shown here, VOA stratifies patients into 7  
3       different risk classes, each class corresponding to  
4       an average risk of overdose from a low in risk  
5       class 1 of just 2 percent to patients in risk class 7  
6       who would have an average risk of overdose of  
7       83 percent.

8               The dark blue bars show the algorithm's  
9       predicted risk of overdose in each class, and the  
10       light blue bars show the actual incidence of overdose  
11       observed in each group in the study. In each class,  
12       the variance is between 0 and just a few percentage  
13       points, thus the 90 percent predictive accuracy.

14               Healthcare algorithms with predictive  
15       accuracy in the 70s or 80s are generally considered  
16       excellent. Predictive accuracy in the 90s is  
17       exceptional, and that not only speaks to the quality  
18       of the algorithm but also to the fact that opioid  
19       overdose, as it turns out, is a highly predictable  
20       event.

21               All of this is to say that existing,  
22       validated, proven tools can assess with a high degree

1 of accuracy the average prescription opioid patient  
2 of overdose. Tools like VOA are built on the notion  
3 that digital data are available and ready to be used  
4 for purposes such as patient safety.

5 If we look at a sample Medicaid program, in  
6 this case with about 200,000 total patients, roughly  
7 55,000 had filled one or more opioid prescriptions in  
8 the prior six months. If we break down users by  
9 risk, not surprisingly, about half of those patients  
10 end up in that lowest risk class, risk class 1, with  
11 an average risk of overdose of just 2 percent.

12 At the other end of the spectrum in the  
13 highest three risk classes, where collectively the  
14 patients would have a 30 percent or greater  
15 likelihood of overdose, that's only about 11,000  
16 patients or 20 percent of opioid users in this  
17 program. If we expand that group to include patients  
18 that have a 15 percent or greater risk of overdose,  
19 we're still at less than a third of the  
20 opioid-treated patients in this health plan.

21 So you can see very quickly we can stratify  
22 patients by risk to determine who is most likely to

1 require rescue so we can focus resources to ensure  
2 that the highest risk patients are covered with  
3 access to naloxone.

4 In the absence of more reliable methods for  
5 identifying elevated overdose risk, healthcare  
6 practitioners will intuitively rely on a limited set  
7 of criteria in assessing patient risk for overdose.  
8 Abuse and addiction will remain a primarily focus,  
9 and while that population is certainly at elevated  
10 risk for overdose and should have access to naloxone,  
11 they represent less than half of the highest risk  
12 patients.

13 We also tend to focus on opioid dose or  
14 morphine milligram equivalent, and while it's also an  
15 important factor, MME alone is not necessarily a good  
16 indicator of overdose risk. As shown in the graph to  
17 the left, relying on SUD and MME markers alone would  
18 fail to identify about 40 percent of the patients in  
19 this program who had a 30 percent or greater  
20 likelihood of overdose.

21 A more comprehensive risk assessment must  
22 incorporate a larger number of weighted risk factors,

1 including medical code sets and an algorithm that  
2 goes far beyond possible top-of-the-head  
3 calculations. The graph on the right shows a  
4 distribution of the same high-risk patients but by  
5 the different types of risk factors contributing to  
6 the VOA risk score.

7 We're still capturing high-risk SUD patients,  
8 we're still capturing high utilizers, but  
9 importantly, we're also capturing harder to find  
10 patients who may be perfectly compliant with their  
11 opioid regimen but are still at high risk of overdose  
12 due to less obvious risk factors.

13 VOA is in use in hospitals, in health  
14 systems, in Medicaid and commercial payers, and in  
15 retail pharmacies. The tool has proven to be an  
16 effective and efficient method for evaluating and  
17 managing overdose risk.

18 In this example, a nationwide network of  
19 community pharmacies implemented the algorithm to  
20 identify high-risk opioid patients in 500 pilot  
21 locations. The highest risk patients in those  
22 pharmacies at baseline had an average naloxone

1 dispensing rate of just 4 percent.

2           After about 3,000 interventions, we're seeing  
3 a naloxone dispensing rate now of over 30 percent in  
4 that same group, almost an eight-fold increase in  
5 on-hand naloxone for those high-risk patients. That  
6 increase was achieved in just the first three months  
7 of the program. That work was co-funded by a NIDA  
8 grant, by the Pharmacy Network, and by Venebio.

9           We encourage the committee to consider making  
10 digital risk assessment tools like VOA a core  
11 component to the federal government's strategy in  
12 promoting opioid safety and specifically in assessing  
13 appropriateness for naloxone dispensing. We believe  
14 this more targeted approach will reduce costs; will  
15 more accurately identify high-risk patients,  
16 including the hard to find high-risk patients; and  
17 will focus meaningful risk mitigation on the patients  
18 most in need of assistance.

19           Thank you, and I'm happy to answer any  
20 questions.

21           DR. MEISEL: Steve Meisel with Fairview.  
22 Just a clarifying question, this is available today?

1 And you say you can integrate this with electronic  
2 health records. Could you elaborate on that, please?

3 MR. TRIPODI: Yes. The tool is available  
4 today. The algorithm has been licensed by entities  
5 and embedded in their analytics engines. Pharmacy  
6 Network, for example, in EMR can embed the algorithm.  
7 We can also provide the algorithm on a web services  
8 basis to entities that wish to use it.

9 DR. BROWN: Dr. Ciccarone?

10 DR. CICCARONE: Dan Ciccarone, UCSF.  
11 Mr. Tripodi, in your pilot data, you have 2700 or so  
12 interventions in that pilot study. What did you mean  
13 by intervention?

14 MR. TRIPODI: VOA was used in the pharmacy  
15 setting to identify high-risk patients. The  
16 intervention occurred when the pharmacist conducted  
17 an MTM-type consultation with the patient to promote  
18 the use of naloxone, and in some cases, to coordinate  
19 therapy with the prescribing physician.

20 DR. CICCARONE: How long was the  
21 pharmacist-led intervention?

22 MR. TRIPODI: The duration of the

1 intervention averaged about 10 to 12 minutes.

2 DR. BROWN: Dr. Staffa, you have any --

3 DR. STAFFA: Yes, Judy Staffa from FDA. Are  
4 the details of the methods around the validation work  
5 available or published?

6 MR. TRIPODI: The validation work is  
7 published in four separate publications that are  
8 available. We're happy to share those. They're  
9 publicly available, yes.

10 DR. STAFFA: Thank you.

11 MR. TRIPODI: You're welcome.

12 DR. BROWN: Any other questions?

13 (No response.)

14 MR. TRIPODI: Thank you very much.

15 DR. BROWN: Thank you.

16 Could speaker number 12 approach the podium  
17 and identify themselves?

18 DR. GREEN: Hello. My name is Traci Green.  
19 I'm an epidemiologist, and I'm an associate professor  
20 of emergency medicine and community health sciences  
21 at Boston University, as well as professor of  
22 emergency medicine and epidemiology at Brown.

1           Today I am going to talk with you about some  
2 of the work we've been doing through AHRQ-funded and  
3 NIDA-funded research work. I am a special government  
4 employee of CDC and of FDA, and the views expressed  
5 today here by me are my own and do not represent  
6 those of the agencies.

7           First, I wanted to share with you this  
8 diagram that really emerged directly from our work at  
9 the AHRQ-funded MOON study, some of which you have  
10 seen previously. But this really is an important  
11 component to what we unearthed, and that is that the  
12 pharmacy is much more than the entity on the corner  
13 in your community.

14           Moving from left to right, we've really been  
15 focusing on the first two components, direct to  
16 consumer through the prescriber approach and perhaps  
17 co-prescription contributes to that idea. It's a  
18 very traditional approach.

19           The second, where the pharmacy provides  
20 naloxone directly to the consumer through a  
21 co-dispensing model, is one that has emerged in the  
22 last couple years since about 2014, spearheaded in

1 Rhode Island.

2           The third and the fourth, though, are ones  
3 that have emerged almost exclusively from the  
4 challenges put forth by the opioid crisis driven by  
5 fentanyl. And by this, I mean the idea that the  
6 pharmacy can be a massive distributor of naloxone to  
7 high-risk institutions or at high-risk times, those  
8 kind of partnerships that we've been able to catalog  
9 and to promote the expansion of through regulations,  
10 or through by storytelling even, and connecting dots,  
11 partnerships, and collaborations where the pharmacy  
12 is critical to that.

13           The last one also reflects the idea of a  
14 mobile pharmacy and innovations. I've observed them  
15 in Kentucky. Dr. Wermeling actually spoke to you  
16 about his mobile van from University of Kentucky, and  
17 until you run out of gas, it's a great idea.

18           Also in Massachusetts and in Rhode Island,  
19 we've been pioneering these ideas, whether it's a  
20 rally for recovery and a pharmacy like Walgreens  
21 showed up early on and created their own makeshift  
22 pharmacy in the middle of a park; or a pharmacist

1       like Dr. Bratberg had suggested that goes to his  
2       hospital.

3               These are really important because they  
4       address the time and space challenge that fentanyl  
5       poses to us and the nature and innovation that all  
6       the community, health departments, community  
7       activists, and organizations can use with the tools  
8       that you provide us, prescriptions, dispensing  
9       mechanisms, reimbursement models.

10              These are important because we need an  
11       opportunity to have rapid deployment of naloxone.  
12       You can imagine something like this model in the  
13       hands of CDC when we have a carfentanil outbreak in a  
14       certain part of the country and can mean naloxone in  
15       the streets and in the hands of people who need it  
16       just as our community organizations are partnered and  
17       doing so as well.

18              I want to reflect to you that these multiple  
19       paths to naloxone are a real focus of our work. You  
20       can discover these on our volunteer run  
21       prescribetoprevent.org site as well as the  
22       prevent-protect.org site, which is AHRQ funded.

1           The important components of our study were  
2 really recognizing that we need different models to  
3 address the nuances of naloxone need in our  
4 communities. After 16 focus groups with over  
5 65 people and interviews with 85 patients who taught  
6 us that we need passive and active offers of  
7 naloxone, the patients said that some of them don't  
8 know about naloxone, and they needed awareness.

9           Some of them were afraid to know, and they  
10 needed help to see their risk in a compassionate and  
11 partnered conversation. Some of them knew all too  
12 well that they and the people that were around them  
13 and that they loved were at risk, and they needed  
14 help to ask for naloxone.

15           So each of these tools were meant to help us  
16 understand and help the patients ask for naloxone  
17 under a standing-order model.

18           The pharmacists also needed help, and  
19 underneath that black box, you can see on  
20 [prevent-protect.org](http://prevent-protect.org). as well as on  
21 [prescribetoprevent.org](http://prescribetoprevent.org), the full guide. It's an  
22 academic detailing guide, a very simple teaching tool

1 for the pharmacist to use with a patient, but also  
2 the pharmacist to work with their technician and  
3 staff to talk about access to naloxone, and to set a  
4 bar for how to create consistency and an environment  
5 that is conducive to non-stigmatizing, low  
6 discrimination, and improved naloxone receipt.

7           Developing a trust and a harm reduction  
8 environment in the pharmacy was something we learned  
9 from the community because we asked them in a  
10 partnered approach to help us develop these tools.

11           In particular, for instance, the second image  
12 that shows the sticker, this is the sticker that's  
13 placed on 10 packs of syringes that are sold in a  
14 non-prescription form at pharmacies all over the  
15 country because we know that non-prescription syringe  
16 sales complement well the activities of state health  
17 departments and community organizations getting  
18 naloxone and syringes out in the community.

19           Much of your discussion has been  
20 focused -- for instance, your questions 3 to 5 are  
21 directed on the patient and risk factors, and the  
22 prior speaker just noted to this, the indications and

1 diagnoses, the importance of identifying patients.

2 I would urge you in our work, and as you've  
3 been continuing to hear, that stigma is so profound  
4 around addiction, and by consequence, around  
5 naloxone, that the importance of focusing on the  
6 dose, the drug, the agent, or the combination and  
7 less on the patient is something that your labeling  
8 and your words can help direct. By doing so, you  
9 erode the stigma. Being stigma aware is a really  
10 critical component of what you can do today.

11 I'd like to take a second just to talk about  
12 some of these additional distribution hubs. We  
13 discovered in Massachusetts and Rhode Island that a  
14 number of the drug treatment programs were providing  
15 naloxone to their patients and their clients.

16 In Massachusetts, this was a natural history  
17 evolution, but in Rhode Island, following an  
18 emergency regulation that required all detox and  
19 residential sites to provide overdose education and  
20 naloxone distribution to patients, created a  
21 mechanism where everyone going into treatment had  
22 access to naloxone.

1           In truth, this really brings Dr. Katzman's  
2 work from the OTP program that she presented  
3 yesterday to scale, and we've been doing this for  
4 years. You can see on the left that any pharmacy  
5 involvement in naloxone provision in these drug  
6 treatment programs was actually pretty high already.  
7 This was in 2016. The idea of creating a  
8 collaboration with a pharmacy in their neighborhood  
9 was something that naturally emerged in the blue in  
10 Massachusetts treatment centers.

11           In Rhode Island, at the orange lines, you can  
12 see they were required. Ninety-six percent of the  
13 treatment programs had an active -- they were  
14 complying with the law, thankfully, but they had the  
15 means by which naloxone could be accessed and then  
16 sustainably provided to their clients and caregivers  
17 as well.

18           I wanted to also reflect that Rhode Island is  
19 a great example of when you have insured mandated  
20 coverage, private and public. You have low-cost  
21 access to community-based naloxone. You have a  
22 comprehensive combined approach that maximizes

1 naloxone distribution, and this leads to mortality  
2 reductions.

3 We've seen it last year, and we continue to  
4 see it this year. It's very exciting. But as you  
5 can see, whether it's through a hospital ED, through  
6 the pharmacy that partners with the drug treatment  
7 program, or provides direct to consumer, or as I  
8 mentioned, the mobile option, or community  
9 organization that is really out there doing the work,  
10 amazing good Samaritan work, we have a more  
11 comprehensive and broad access to this lifesaving  
12 medication.

13 Now, while there are many intended and  
14 unintended good consequences, as Dr. Hertz mentioned  
15 yesterday, there are many potential bad consequences,  
16 too. I am extremely disappointed to share that in  
17 both states that I work, we have two examples of good  
18 Samaritans, healthcare providers, who have obtained  
19 naloxone and unfortunately also this fall, attempted  
20 to obtain life insurance.

21 These were different people in different  
22 healthcare institutions, a federally qualified health

1 center, and my own Boston Medical Center. These were  
2 not the same life insurance company. There are  
3 multiple of them. If you want to know what stigma  
4 looks like, that's it. If you want to know what  
5 discrimination looks like, that's it.

6 We need parity. We need leadership. We need  
7 to shame these institutions because it's  
8 unacceptable, and it's inconsistent with the Surgeon  
9 General, with your task today, and with the science.  
10 Thank you.

11 DR. BROWN: Thank you.

12 Would speaker number 13 step to the podium  
13 and identify yourself?

14 MR. BRASON: I'm Fred Brason from Project  
15 Lazarus based out of North Carolina. I have no  
16 disclosures to declare, and I'd like to thank the FDA  
17 for the opportunity for me to share but also to thank  
18 the FDA for your approach to not only reduce harm but  
19 also to prevent and for the hearing over these past  
20 two days.

21 Project Lazarus is a community-based  
22 initiative mobilizing communities around substance

1 use, specifically opioids, heroin, and fentanyl. In  
2 dealing with that, we developed a model years ago in  
3 order for communities to be able to replicate their  
4 efforts. Part of the spokes on the wheel of our  
5 model is harm reduction, but everything we do is harm  
6 reduction.

7 I want to just make one comment about harm  
8 reduction. When we talk about the infrastructure of  
9 communities, it isn't some other entity that's out  
10 there. It is part of the infrastructure in the  
11 communities and should be supported and funded just  
12 like any other component and sector within that given  
13 community.

14 As we studied in communities and worked in  
15 our own communities in Wilkes County, North Carolina,  
16 we realized to reach the individual, we had to change  
17 the village, which means we had to empower every  
18 single community sector in order to do that with the  
19 right best practice, with the right messaging,  
20 whatever it was that was necessary for the population  
21 that they served.

22 Our harm reduction component that we

1 initiated was and is naloxone. Now, we have syringe  
2 exchange in our community and other things, but I had  
3 to learn about harm reduction because I was not  
4 familiar with it. I had to learn about naloxone.  
5 And I first heard about it in 2006 when we realized  
6 in our community how many people were dying from  
7 overdose from prescription medications. When I  
8 learned about it, my first question was, "Who has it?  
9 Where is it? If it can reverse an overdose, let's  
10 have it."

11 I found out EMS had it and the emergency  
12 department, but the folks in our community never made  
13 it that far. They were at home. They were on their  
14 couch. They were at a friend's place. They were in  
15 the same room with other individuals in a living room  
16 dying from an overdose, and the others did not even  
17 realize it.

18 When I realized that -- I'm a logical  
19 thinker -- I said, "Well, okay. If it's legal, can  
20 be prescribed, why isn't it available to those  
21 individuals who are at risk?" And I made inquiries,  
22 and we did some studies within our community to find

1 out what's the face of the person? What happened to  
2 them? Who were they? Who are they? So that we could  
3 investigate and learn the trail of what led to that  
4 eventual overdose.

5 We did have patients who misused their  
6 medication. We did have patients who took more of  
7 their medication than they were supposed to or mixed  
8 something else with it. We do and did have family  
9 and friends who shared medication to self-medicate.  
10 Wasn't to get high; wasn't to divert. It's just that  
11 there was medication in the home and they had an  
12 ailment that that possibly could fix. Unfortunately,  
13 it didn't.

14 We had accidental ingestion because of the  
15 amount of meds that are in the home. We have  
16 recreational users where the prescription opioids and  
17 now heroin and others become part of the party mix,  
18 not somebody with substance user disorder but  
19 somebody who is just out with friends. Then, of  
20 course, we do have individuals with substance use  
21 disorder in and out of treatment and recovery.

22 Those were all individuals in our community

1 that we learned were dying. So we looked at, okay,  
2 how can we reach all of those individuals within our  
3 community, how can we ensure their safety, and how  
4 can we get naloxone into their hands? Well, when I  
5 asked the question where is naloxone and found out  
6 only two places had it, I made the logical conclusion  
7 and called the president of our North Carolina  
8 Medical Board, Dr. Janelle Rhyne, and said, "Why  
9 isn't this not routinely available to somebody who  
10 may be at risk? Because we have patients who simply  
11 are dying because of a comorbid condition or misusing  
12 their medication."

13 Thankfully, she said, "Yes, let's take a look  
14 at this." And they gave us a public hearing in 2007,  
15 and five of us went over to Raleigh to sit down at  
16 the medical board and present our case to five policy  
17 directors, medical directors on their board for doing  
18 that. They gave us 30 minutes.

19 Well, we're a little passionate. We took 45,  
20 and after 45 minutes, he stopped us. The policy  
21 director admitted at that time, he says, "You know,  
22 we discussed this program before you came, and we

1 were pretty much against this program. But you have  
2 shown us, through what you've been doing in Wilkes  
3 County and the studies that you've done, that we  
4 ourselves as practitioners have patients in our own  
5 practices that are at risk from an overdose right  
6 now."

7           So therefore, they were the first medical  
8 board in the country, in 2007 and published in 2008,  
9 for a position statement that simply said -- and  
10 here's part of it -- "The Board has reviewed and is  
11 encouraged by the efforts of Project Lazarus, a pilot  
12 program in Wilkes County that is attempting to reduce  
13 the number of drug overdoses by making the drug  
14 naloxone and an educational program on its use  
15 available to those persons at risk of suffering a  
16 drug overdose.

17           "The prevention of drug overdoses is  
18 consistent with the Board's statutory mission to  
19 protect the people of North Carolina. The Board  
20 therefore encourages its licensees to cooperate with  
21 programs like Project Lazarus in their efforts to  
22 make naloxone available to persons at risk of

1 suffering opioid overdose."

2           The practitioners did not say we're going to  
3 stop prescribing, no; we're going to make it safer,  
4 and we're going to do more education, and we're going  
5 to provide naloxone, and then we were able to do  
6 that. And we provided them the risk factors, some of  
7 which you saw in some of the presentations yesterday,  
8 of all the different factors where somebody could be  
9 at risk: opioid treatment; recent incarceration;  
10 previous history; comorbid conditions of sleep apnea,  
11 asthma, emphysema, and other concurrent issues.

12           As we provided that to individuals, we  
13 provided the education to the practitioners of  
14 looking at pain, culture, genetic factors, substance  
15 use, mental health, environmental factors, that if  
16 you're prescribing 120 tablets into a home every  
17 single month and there could be other individuals,  
18 toddlers or individuals with substance use disorder  
19 within that home, naloxone should be co-prescribed,  
20 and it should be looked at across the board.

21           I have concerns sometimes about  
22 co-prescription when we look at just an MME as a

1 factor and realize, well, because of the conditions  
2 we have now, where you're on 90 MMEs and the  
3 recommendation or guideline is 50, so therefore, I'm  
4 going to titrate you down, might not take care of all  
5 the pain that's necessary -- the same factor is  
6 looking at naloxone, can you just say, well, if it's  
7 50 MME, maybe I'll only take you to 40 so I don't  
8 have to go into that route and have that overdose  
9 conversation.

10 That's where my mind goes in just looking at  
11 all the barriers that might come up, because when I  
12 see a barrier, I prefer to go under, over, around, or  
13 through in order to make that change to make it  
14 better for the individuals.

15 We did it in the military. They instituted  
16 co-prescribing naloxone back in 2009. Their overdose  
17 deaths were 15 per 400. In one year, it went to 1  
18 out of 400. Yet, there was not one rescue. It was  
19 the education and awareness surrounding that  
20 medication of the soldier, the family, the spouse,  
21 whoever it was that brought about change in behavior  
22 surrounding that. But naloxone was still available

1 should there have been an adverse event.

2           When we first started with the community  
3 dispensing, the first call I got was the spouse of a  
4 chronic pain patient thanking us that their  
5 practitioner had provided the education, given them  
6 information, given them the naloxone, and they  
7 understood the ramifications of adverse events and so  
8 forth.

9           The first rescue was a brother who saved a  
10 sister because that brother had received naloxone  
11 through the methadone treatment program, because it  
12 gets into the environment where naloxone needs to be,  
13 and that's the community; community education,  
14 provider education, so co-prescription is across the  
15 board for many different factors, all of the risk  
16 factors, not just the MME.

17           Hospital emergencies, if somebody is there  
18 and warrants it, they should walk out with that.  
19 Addiction treatment, when we talk about  
20 co-prescription, it should also be co-prescribed for  
21 somebody in methadone, buprenorphine, and naltrexone,  
22 also.

1           In corrections, harm reduction, of course, we  
2           could give Eliza's programs across the country  
3           2 million and they still would not be enough to  
4           saturate the communities, but it should be done. Law  
5           enforcement and EMS, that's on the back end. I'd  
6           rather have it on the front end; co-prescribed,  
7           opioid treatment programs, community-based, and we  
8           can do that by saturating through all the different  
9           entities and modalities and the devices that we  
10          currently have. Thank you.

11           DR. BROWN: Thank you, Mr. Wells [sic].

12           Could speaker number 14 step to the  
13          microphone and identify yourself.

14           DR. TWILLMAN: Good morning. My name is Bob  
15          Twillman. I'm the executive director of the Academy  
16          of Integrative Pain Management. I have no potential  
17          conflicts of interest.

18           For two or three years, AIPM has had an  
19          official position on the issue of naloxone  
20          co-prescribing. In short, our position boils down to  
21          this: Every patient prescribed an opioid analgesic  
22          should have a risk assessment based on an available

1 empirically derived assessment instrument; a complete  
2 understandable explanation of his or her risk; the  
3 opportunity to discuss that risk assessment with a  
4 competent clinician; and a prescription for naloxone,  
5 which the patient may choose to fill or not to fill.

6 Assessment of the patient's overdose risk  
7 when using an opioid analgesic should be routine and  
8 should be carried out using an empirically-derived  
9 assessment instrument such as the RIOSORD or VOA.

10 It's our belief that this assessment should  
11 be carried out for every patient prescribed an opioid  
12 analgesic, for acute pain as well as for chronic  
13 pain, to minimize the possibility that a high-risk  
14 patient will be overlooked because of an incomplete  
15 assessment conducted due to the short-term nature of  
16 a prescription to treat acute pain.

17 The only patient who has no risk of opioid  
18 overdose is the patient who's not using an opioid.  
19 Any patient who uses a prescribed opioid has an  
20 elevated risk of overdose, and you've seen data  
21 indicating that most patients who overdose do so  
22 while prescribed doses below 50 MMED.

1 Policies that encourage risk-based  
2 prescribing thus require that the prescriber  
3 determine philosophically what constitutes an  
4 acceptable risk that does not require a naloxone  
5 prescription. We find such a requirement to be  
6 challenging on both clinical and ethical grounds.  
7 Clinically, risk is dynamic and can change for  
8 unforeseeable reasons, almost always in a direction  
9 of increased risk.

10 Such a policy also fails to recognize the  
11 limited extent to which a prescriber can anticipate  
12 the likelihood that the patient's opioid analgesics  
13 will be accessed and used by some unintended party.

14 Additionally, asking the prescriber rather  
15 than the patient to determine what level of risk is  
16 acceptable is ethically challenging. Such a policy  
17 requires the prescriber to make a paternalistic  
18 decision about what constitutes an acceptable level  
19 of risk and denies the patient's autonomous right to  
20 make that decision for himself or herself.

21 Any time a patient's given an prescription  
22 for any medication, that patient ultimately exercises

1 his or her autonomy right in deciding whether to fill  
2 that prescription. There may be a variety of factors  
3 influencing such a decision, but in the case such as  
4 this where a foreseeable adverse outcome is death,  
5 considerable efforts should be made to ensure the  
6 patient is making a truly informed decision. The  
7 patient has no decision to make if no risk  
8 information is provided and has no decision to make  
9 if a naloxone prescription is not offered.

10 In conclusion, we note that the mere fact of  
11 offering the patient a naloxone prescription prompts  
12 a discussion about risk, and that can only be a good  
13 thing. The patient should be given the opportunity  
14 to make an informed decision about his or her need  
15 for this important risk mitigation tool. Thank you.

16 DR. BROWN: Thank you.

17 Could speaker number 15 step to the mic and  
18 identify yourself?

19 DR. WAGNER: Good morning. Thank you for the  
20 time to speak today and for your attention to this  
21 important topic of increasing naloxone access for  
22 people at risk of dying of opioid overdose.

1           My name is Karla Wagner. I'm an associate  
2 professor of public health at the University of  
3 Nevada Reno. I'm here speaking on behalf of myself  
4 based on my experience doing research in this field,  
5 not on behalf of my institution. I have no financial  
6 conflicts of interest, though I do hold several  
7 grants from NIH and the Laura and John Arnold  
8 Foundation related to research in this area.

9           I've been doing research on community-based  
10 naloxone distribution in the U.S. since about 2006.  
11 This morning, I don't have any slides or really any  
12 data. What I'd like to do for the next couple of  
13 minutes is call your attention to the rural west and  
14 some of the issues that we face there.

15           Since 2014, I've lived and worked in Reno,  
16 Nevada. Just to give you a little bit of  
17 perspective, 87 percent of Nevada is rural. Reno is  
18 7 hours by car from Las Vegas. If you were to drive  
19 seven hours north from here, you'd end up somewhere  
20 in New Hampshire after passing through 5 other  
21 states. When you drive seven hours north of Las  
22 Vegas, you end up in Reno, and then you still have

1 several hours to reach the border.

2 Transport times, as you can imagine, to  
3 hospitals can be several hours in Nevada. Many of  
4 our frontier counties are served by EMS agencies  
5 staffed by few, if any, paramedic level responders.  
6 Many of those agencies consist mostly of volunteers.

7 Fifty percent of Nevada is federally  
8 designated as a healthcare shortage area. One  
9 implication of that shortage is that a large share of  
10 the population doesn't have regular or easy access to  
11 a healthcare provider. When I moved to Nevada, it  
12 took me almost a month to find a primary care doctor.

13 My research and that of others have shown  
14 that less than half of overdoses come to the  
15 attention of uniformed first responders via a 911  
16 call. In rural communities, it can take a long time  
17 for those uniformed first responders to arrive, if  
18 they're called at all.

19 Even though in Nevada we have regulations  
20 that allow for pharmacists to furnish naloxone  
21 without a prescription, significant barriers remain,  
22 not the least of which is that the sale of naloxone

1 is at the discretion of the pharmacist. This means  
2 that a pharmacist can refuse to sell naloxone without  
3 a prescription if they don't want to.

4 I understand that your charge today is mainly  
5 related to questions about co-prescription, but I'd  
6 like to ask you to consider that a low-cost,  
7 over-the-counter solution could supplement existing  
8 efforts and dramatically lower barriers for people  
9 who use illicit opioids, their friends, and family  
10 members. Those folks face numerous barriers to  
11 accessing naloxone via a co-prescription model,  
12 including lack of insurance, cost, stigma, lack of  
13 interactions with medical providers, and geography.

14 Focusing solely on a co-prescription strategy  
15 ignores this population, and it does a disservice for  
16 rural communities where access to healthcare  
17 providers is limited. Stigma, long distances, and  
18 lack of access to providers are huge barriers to  
19 having ready access to the medicine when it is  
20 needed, especially if access requires interaction  
21 with a medical professional.

22 As you heard yesterday and this morning, we

1 have decades of collective experience and thousands  
2 of accounts of success from community-based naloxone  
3 programs. But in some states, even finding a  
4 provider to sign a standing order to empower a  
5 distribution program is difficult; never mind getting  
6 individual prescriptions for people through  
7 individual one-on-one interactions with healthcare  
8 providers.

9 Removing barriers is critical. We need as  
10 many solutions as possible to allow states like  
11 Nevada to craft solutions that work for us.

12 Co-prescription might be one of those solutions, but  
13 supporting easy, affordable over-the-counter access  
14 is another solution that should be seriously  
15 considered. Thank you.

16 DR. BROWN: Can I ask a question? And other  
17 members of the panel may want to ask you some  
18 questions, also.

19 Do you have any idea -- have you looked at,  
20 or investigated, or do you have any knowledge of what  
21 a reasonable price point would be for an OTC product  
22 that would make it available for folks that are

1 actually going to buy it?

2 DR. WAGNER: I don't have any data that would  
3 allow me to speak to that with any confidence. I  
4 would defer to my colleagues who've talked about a  
5 dollar price or a \$5 price. I don't have any good  
6 data to inform that, though.

7 DR. BROWN: Any other questions of this  
8 speaker?

9 (No response.)

10 DR. BROWN: Thank you very much.

11 Could speaker number 16 step to the mic and  
12 identify yourself?

13 MS. BELL: Hello. My name is Alice Bell.  
14 I'm the overdose prevention project coordinator for  
15 Prevention Point Pittsburgh. I don't have any  
16 financial relationships to disclose.

17 Prevention Point began distributing naloxone  
18 at our syringe exchange site in 2005 with medical  
19 prescribers who volunteered to write individual  
20 prescriptions for people who were injecting heroin  
21 and other opioids, who came to get safer injection  
22 supplies.

1           In the first two years after we started  
2 naloxone distribution through prescription, we saw a  
3 drop in local heroin overdose deaths, while at the  
4 same time experiencing the rise in deaths from  
5 pharmaceutical opioids that was witnessed across the  
6 country.

7           We began working with physicians prescribing  
8 naloxone through the syringe exchange program and a  
9 few other medical providers to develop messaging and  
10 navigate logistical issues to co-prescribe naloxone  
11 in their medical practices. We also worked to  
12 educate local pharmacists about take-home naloxone.

13           We saw the value of this practice as, one,  
14 getting naloxone in the hands of people who use  
15 opioids but did not inject and, two, to reduce  
16 stigma. If it became routine to prescribe naloxone  
17 to anyone who used opioids, the hope was people would  
18 not need to identify or be identified as, quote,  
19 "substance abusers" to get naloxone.

20           While we had some limited success, regular  
21 prescribing seemed to hinge on a high level of  
22 commitment by individual prescribers and pharmacists.

1 The complexity and irregularity of insurance  
2 coverage, pharmacist knowledge, and individual fear  
3 of being seen as a substance abuser made these  
4 efforts extremely labor intensive with a generally  
5 low rate of people actually naloxone.

6 In 2015, Pennsylvania Act 139 allowed  
7 naloxone prescription to anyone who might witness an  
8 overdose, followed by a statewide standing order for  
9 pharmacies. However, the standing order does not  
10 cover the generic injectable formulation of naloxone,  
11 nor does it provide for community distribution.

12 Availability has increased in Pennsylvania  
13 but unevenly. Rural areas without syringe access  
14 programs continue to have great difficulty getting  
15 naloxone in the hands of people who need it. A major  
16 obstacle seems to be the need to have a doctor's help  
17 with purchasing, writing a separate standing order,  
18 and/or overseeing the dispensing process in some way.

19 Making naloxone available over the counter  
20 would be a tremendous help to people who are  
21 struggling and watching their loved ones die in rural  
22 parts of the state and country.

1           Prevention Point has provided naloxone to  
2 more than 4,000 individuals just in our local area  
3 and documented close to 3,000 rescues, 635 in 2017  
4 alone. Ninety-eight percent of those reversals were  
5 accomplished by people who use opioids themselves.  
6 We distributed over 7,000 doses of naloxone since  
7 January of 2017, only possible due to our ability to  
8 purchase cheap injectable naloxone.

9           While our efforts have been augmented in the  
10 past two years by distribution of nasal naloxone  
11 through the county jail, hospitals, and other  
12 settings provided by state funding, the injectable  
13 formulation works fine and is literally and  
14 figuratively a lifesaver. Its availability is vital  
15 to programs like ours, which are sustainably  
16 providing naloxone to the most critical population.

17           While reports across the state and country  
18 are of continually rising deaths, Allegheny County  
19 may be turning the corner. In 2017, deaths dropped  
20 each quarter throughout the year. While the total  
21 number of deaths for the year was a record, each  
22 quarter dropped. Early medical examiner reports

1 anticipate a drop in overall deaths for 2018. We're  
2 cautiously optimistic in this.

3 While we applaud all efforts to make naloxone  
4 available, community-based distribution should be the  
5 highest priority for scarce resources.

6 I also just wanted to note that in Allegheny  
7 County, as in many other places, we've seen a  
8 dramatic increase in fentanyl in the heroin supply.  
9 In 2013, 3 percent of deaths in the county involved  
10 fentanyl. In 2017, over 80 percent involved  
11 fentanyl.

12 We provide 2.4 milligram per milliliter doses  
13 of injectable naloxone in a kit along with two  
14 intramuscular syringes and an instruction card. And  
15 while the amount of fentanyl in the heroin supply has  
16 dramatically increased, we've continued to find that  
17 in 93 to 95 percent of the cases where naloxone is  
18 used, one or two doses of that type of naloxone has  
19 been sufficient. We haven't seen a dramatic increase  
20 in the number of doses of naloxone needed. That's  
21 just a point that I wanted to make as well. Thank  
22 you.



1 over-the-counter or low-cost generic, what do you all  
2 need?

3 DR. DAVIDSON: Peter Davidson, responding  
4 after a very quick consult with my colleagues.

5 (Laughter.)

6 DR. DAVIDSON: I think one of the ways to  
7 answer that question is to talk about what the  
8 busiest programs in the country are already doing.  
9 Eliza's DOPE project, covering the San Francisco Bay  
10 Area, gives out 60,000 doses a year for a population  
11 of 800,000 people.

12 My colleagues Ricky Bluthenthal and Alex Kral  
13 did a study about two years ago in that city. One of  
14 the things they were studying -- they were doing a  
15 big cohort study with injecting drug users in that  
16 city, and one of the things they asked all the  
17 participants was have you been trained to use  
18 naloxone, and if so, do you have it on you right now?  
19 And in that study about two year, about 25  
20 participants of the study actually produced the  
21 naloxone they'd received from Eliza.

22 So by the estimates of the number of drug

1 users in that city, about 1 in 4 drugs users in that  
2 city actually was equipped with naloxone on the day  
3 that they participated in that study.

4 The death rate in San Francisco dropped from  
5 a high of around about 18 per 100,000 people in 2008  
6 down to about 13.6 per 100,000 in the most recently  
7 available year, and that's during a period where  
8 fentanyl was entering the community.

9 So I would say that 60,000 doses per year for  
10 a community of 800,000 is basically the bottom of  
11 what we want to be doing to actually completely flood  
12 a community with naloxone. That's some ball park  
13 numbers for you to start playing with.

14 Does that answer your question?

15 DR. CICCARONE: Thank you.

16 DR. BROWN: Dr. Besco? And these questions  
17 need to be clarifying questions based on the  
18 presentations.

19 DR. BESCO: Thank you very much, and again,  
20 thank you all for those great presentations and your  
21 commitment to this work.

22 I do have a clarifying question in that fact

1 that many of the recommendations presented involve  
2 action outside of FDA's authority. So how would any  
3 legislative recommendations made today by the panel  
4 be socialized with other agencies? And perhaps  
5 that's a question for our FDA friends.

6 DR. HERTZ: This is Sharon Hertz. That's a  
7 good question. I think the best that I can offer is  
8 if the committee ultimately has a strong sense of  
9 particular actions that aren't necessarily those for  
10 our agency; we are actively working with other  
11 agencies to address many aspects of the current  
12 problems with prescription opioid abuse, naloxone  
13 distribution, development of more effective MATs, all  
14 of that.

15 We don't work in isolation. If we need to  
16 share the discussion, we have a number of different  
17 venues where we can try and do that. I'm on an  
18 interagency pain research coordinating committee with  
19 a large number of other federal agencies, as well as  
20 there are members of patient advocacy groups and  
21 academics as one example of the kinds of things that  
22 we can try and use to spread the word.

1           Judy's on a committee. We're on number of  
2 different -- we have the opportunity through many  
3 different venues to try and share the messaging and  
4 also just simply calling them. We have contacts.

5           So I would encourage the discussion to really  
6 reflect what you think -- I feel like I'm getting to  
7 the charge now -- but really reflect what you think  
8 are the best approaches, even if those aren't the  
9 ones for us to work on directly because we will share  
10 the messaging to the extent that we can, but we have  
11 those opportunities.

12           DR. BESCO: Thanks.

13           DR. BROWN: Dr. Goudra?

14           DR. GOUDRA: Dr. Goudra from Penn Anesthesia.  
15 A couple of questions; as an anesthesiologist, the  
16 only time we use naloxone is if we suspect a patient  
17 has too much of morphine or whatever, and we use in  
18 small quantities, typically 100 mics and maybe up to  
19 400 mics. Even then, we are very, very careful in  
20 terms of possible potential side effects, including  
21 pulmonary edema and things like that.

22           In my 27 years, I probably have given maybe

1 10 times. So as a result, I don't have any  
2 experience in using it or any direct knowledge of  
3 anybody using it, and that the committee  
4 [indiscernible].

5 My question is, since a lot of you guys have  
6 been doing that work, a couple of things, one, you  
7 all talk about decreased hospitalization. My guess  
8 is if somebody gets naloxone, they're probably  
9 required to go to the hospital for a problem like  
10 re-opioidization; maybe they can go back into an  
11 overdose again, number one. And second, there could  
12 be issues with acute withdrawal symptoms and  
13 excitation, delirium, and things like that.

14 Has anybody had any experience with these  
15 issues?

16 DR. HERTZ: Dr. Goudra, I'm going to step in  
17 here. We're going to have to close the open public  
18 hearing section of the meeting now, just based on the  
19 limitations of what the rules allow us to do in terms  
20 of engagement.

21 So rather than asking broader questions of  
22 the speakers from the OPH, I think hopefully we have

1 a committee here who has both personal knowledge and  
2 background, and based on the speakers who gave the  
3 presentations yesterday, hopefully we've given you a  
4 lot, if not enough, if not everything, to work on the  
5 questions.

6 I will say that if you have a particular  
7 interest in the dose and that question, we covered  
8 the dose for what we would encourage development in  
9 products back in 2016. So the interest that we have  
10 now is about access and availability, and some of the  
11 other questions, which are still important, we have  
12 tackled in other settings.

13 DR. BROWN: Thank you, Dr. Hertz.

14 The open public hearing portion of this  
15 meeting has now concluded, and we'll no longer take  
16 comments from the audience. The committee will now  
17 turn its attention to address the task at hand, the  
18 careful consideration of the data before the  
19 committee as well as the public comments.

20 At this point, we're going to take a break,  
21 and we will reconvene in 15 minutes. Panel members,  
22 please remember that there should be no discussion of

1 the meeting topic during the break amongst yourselves  
2 or with any member of the audience. We will resume  
3 at 11:10.

4 (Whereupon, at 10:55 a.m., a recess was  
5 taken.)

6 Dr. Sharon Hertz will now provide us with a  
7 charge to the committee.

8 **Charge to the Committee - Sharon Hertz**

9 DR. HERTZ: Hi. This is Sharon Hertz. I  
10 think that we've had a really interesting day and a  
11 third, and I just feel like we're going to have a  
12 really good conversation based on the bits that have  
13 arisen so far, and I'm really looking forward to  
14 that.

15 I think what I'd like to emphasize in this  
16 charge is what I said before: This conversation is  
17 much broader than just whether or not we should  
18 co-prescribe. This conversation is about where  
19 resources may be best applied to increase  
20 availability of naloxone in the community where it's  
21 needed. What we tried to do with the structure of  
22 this meeting was to make sure that the committees had

1 a good sense of what that is.

2 I suspect the ultimate answer will not be  
3 simple, and it will be multifactorial, and that's  
4 okay. But we'd like to hear what you think might  
5 have the biggest bang for the buck; what might be the  
6 most effective; and what role, if any, you think we  
7 should be having as part of that solution.

8 The questions will be read prior to each one.  
9 I'm not going to go over them now. If you have  
10 questions about the wording, we'll try and clarify,  
11 and we'll go from there. Thank you.

12 **Questions to the Committee and Discussion**

13 DR. BROWN: We will now proceed with the  
14 questions to the committee and panel discussions. I  
15 would like to remind public observers that while this  
16 meeting is open for public observation, public  
17 attendees may not participate except at the specific  
18 request of the panel.

19 I'm going to read through the first question.  
20 Naloxone is currently available through individual  
21 prescriptions for patients from their healthcare  
22 providers and without individual prescriptions

1 through community-based programs offering overdose  
2 education and naloxone distribution and by direct  
3 access from pharmacies under programs such as  
4 statewide naloxone standing orders or collaborative  
5 practice agreements.

6 Discuss the comparative and collective  
7 effectiveness of these programs with regard to  
8 prevention of overdose death and their ability to get  
9 naloxone where it is most needed in the communities  
10 to save lives.

11 Is that clear to everyone? Questions or  
12 discussion? Dr. Ciccarone?

13 DR. CICCARONE: Thank you to the researchers,  
14 community representatives, and all the folks who  
15 spoke this morning, for your concern, your expertise,  
16 and your work in the community. This committee has  
17 learned a lot from you, particularly also from the  
18 folks who spoke yesterday.

19 My own experience is as a street-based public  
20 health researcher looking at the heroin use and  
21 consequences over the last 20 years, I was involved,  
22 since the late 90s, in some of the early rollout

1 community-based naloxone distribution. My two  
2 publications came out in 2003 and 2005. Karen Seale  
3 now at the VA led this work. We showed the  
4 feasibility of peer-based distribution of naloxone.  
5 The work has continued in a tremendous way the  
6 evidence base has built.

7           The clarion call is clear, that opioid to  
8 heroin to fentanyl triple wave epidemic is a crisis.  
9 The fentanyl opioid deaths rose 45 percent just in  
10 the last year. There was no peaking of that curve.  
11 We need urgent action on expanding naloxone access,  
12 and we need it now. Community-based naloxone  
13 delivery has a good evidence base. It's showing that  
14 it's dose dependent, therefore, we must increase  
15 access by all measures. We need a saturation model.

16           The current issue is pricing and  
17 availability. Given the scale of the crisis, we need  
18 to quickly move forward with over-the-counter  
19 availability and generics.

20           The co-prescribing will help in the ways that  
21 the still high opioid pill, overdose death rate will  
22 come down, but particularly through the conversations

1 that will happen with patients and providers, and  
2 also by increasing overall pharmacy access. And I'll  
3 leave it at that.

4 DR. BROWN: Ms. Numann?

5 MS. NUMANN: Thank you for your time.

6 I believe the collective effectiveness of  
7 these programs appears to be quite successful, but it  
8 does feel that generic is the only way that's going  
9 to help serve them the most.

10 I had a quick question for FDA in regards  
11 their invitation to the companies for that. By  
12 chance, did they state why they declined? Did they  
13 give any reason? Did they just decline the  
14 invitation, or did they give any indication as to why  
15 they're not here?

16 Secondly, curiosity, did any insurance  
17 representatives, were they invited at all? Thank  
18 you.

19 DR. HERTZ: I don't know that we specifically  
20 invited generic companies. We invited commercial  
21 sponsors that we knew were involved in the area. We  
22 did not specifically invite insurers.

1 MS. NUMANN: Thank you.

2 DR. MAHONEY: I actually think you might have  
3 been referring to the question yesterday about OTC  
4 rather than generic, and I just want to emphasize  
5 that we have had a robust response from sponsors in  
6 the IND phase.

7 As you know, the IND phase is confidential,  
8 so it's not surprising to me that not all of those  
9 companies are here to talk today. But once the  
10 public information regarding FDA's unprecedented step  
11 in designing and conducting a label comprehension  
12 study, once that information became public, we had a  
13 big uptick in interest from companies who do want to  
14 develop OTC naloxone products. They recognize that  
15 FDA's really bending over backwards, trying to make  
16 this possible.

17 MS. NUMANN: Thank you. Yes, that did answer  
18 my question. Thank you.

19 DR. BROWN: Dr. Zacharoff?

20 DR. ZACHAROFF: Hi. Kevin Zacharoff. I have  
21 a number of things I jotted down with respect to this  
22 issue, but first as a question for the FDA, we heard

1 a lot of presentations talking about the fact that  
2 the least expensive way to effect delivery of  
3 naloxone was kits that contained syringes and  
4 injectable forms of naloxone.

5 My question is, is it within the scope of  
6 reality that the FDA make a decision to approve,  
7 without a number of studies, injectable naloxone to  
8 be distributed and disseminated freely, or is that  
9 something that would require typical safety and  
10 efficacy studies in order to happen?

11 DR. HERTZ: I feel like there is a couple  
12 pieces in there, so I just want to clarify.

13 DR. ZACHAROFF: Okay.

14 DR. HERTZ: Naloxone is approved for  
15 injection.

16 DR. ZACHAROFF: Right. I'm talking about in  
17 a community level setting.

18 DR. HERTZ: So are you asking what would it  
19 take for a kit to be made available? Are you asking  
20 about it being generic or OTC? I'm not completely  
21 sure.

22 DR. ZACHAROFF: If somebody's making a kit,

1 if I decide I'm going to put together a kit with two  
2 syringes with needles, enough injectable naloxone to  
3 be packaged along with that for injection, whether  
4 intravenous or intramuscular, is that an off-label  
5 use of naloxone, to be administered by a  
6 non-healthcare professional?

7 DR. HERTZ: I would say that it's not  
8 technically off label because it's being used for  
9 what's written in the indication.

10 DR. ZACHAROFF: Okay.

11 DR. HERTZ: The product is something else,  
12 but the use of the injectable is not off label.

13 DR. ZACHAROFF: Okay.

14 I just want to make it clear so if and when  
15 we get to a discussion, because I heard a lot in the  
16 public comments this morning about the fact that it's  
17 the least expensive, most effective way. I want to  
18 make sure it's within the scope of reality as things  
19 exist today, from a labeling perspective, that it's  
20 really possible that if we arrive at a decision that  
21 that's the way to go, that that doesn't create a  
22 whole series of steps that would need to happen in

1 order for that to take place.

2 DR. THROCKMORTON: This is Doug Throckmorton.  
3 Dr. Zacharoff, we've heard this concern. We've heard  
4 a lot of -- it's on the list of things that we're  
5 going to need to take back and look at. I think this  
6 isn't the place for us to say what's on label and off  
7 label; details matter.

8 Making naloxone widely available is a goal  
9 we're all sharing; so how to do that, where this  
10 piece fits in, one of the things we need to do.

11 DR. ZACHAROFF: Thank you.

12 Other points that I took away with respect to  
13 question 1 is we did hear some encouraging data in  
14 Rhode Island about outcome measurement in the  
15 presentation this morning, but I did hear a lot of  
16 talk about reversals.

17 It's not entirely clear to me as to whether  
18 or not those reversals end up really saving lives at  
19 the end of the day, whether or not those reversals  
20 resulted in situations where people did end up  
21 seeking medical attention and the naloxone  
22 administration was truly utilized as a bridge to a

1 higher level of care or not.

2 I did find that troubling with respect to the  
3 collective effectiveness because it's hard for me to  
4 know whether or not a reversal ended up saving lives,  
5 especially with the data we saw come out from CDC  
6 just last month.

7 Additionally, we heard a lot in the public  
8 hearing this morning about substance abuser level  
9 risk reduction. I didn't necessarily hear a lot with  
10 respect to patient level risk reduction like we heard  
11 about co-prescribing of benzodiazepines and things  
12 like that yesterday. And that leads me to believe  
13 that a lot of what we heard in our open public forum  
14 this morning was really directed towards PWUD, people  
15 who use drugs, not an acronym I use, but I know it  
16 now, and I'll use it again.

17 People who use drugs don't necessarily have a  
18 lot to do with, in my mind's eye, people who are  
19 prescribed opioids for therapeutic reasons. I think  
20 Dr. Goudra definitely brought up an issue with  
21 respect to effectiveness about negative outcomes,  
22 withdrawal, pulmonary edema, seizures, things that

1 could happen to truly physiologically addicted  
2 patients because I have certainly in my 34 years in  
3 anesthesia witnessed that when naloxone has been  
4 administered to people who have high level of opioids  
5 in their system. It makes me wonder, again, about  
6 the fact that maybe not necessarily these people who  
7 had reversals are ending up seeking medical  
8 attention.

9           Then just lastly, as a physician who's  
10 licensed currently in the state of Arizona, last  
11 year, the governor of Arizona made any naloxone  
12 administration a state reportable incident, and that  
13 includes hospital administrators, emergency first  
14 responders, physicians, and nurses. Just about  
15 anyone who can administer a naloxone dose in the  
16 state of Arizona is mandated to make it state  
17 reportable under the penalty of the laws in the  
18 state, no different than a child abuse situation.  
19 Everybody's a designated reporter.

20           That to me is an example of a situation in  
21 which the state decision might not necessarily be in  
22 line with what the broader goals are. Because if I

1 were actively practicing in the state of Arizona, I'm  
2 not sure as a clinician I would know what to do if  
3 somebody came back to me and said I need a second  
4 prescription, a third prescription, a fifth  
5 prescription, because as a mandated reporter, I would  
6 need to be able to account for what's happened to the  
7 naloxones that I've already prescribed.

8 We didn't hear anything in the course of this  
9 day and a half so far about what people might do in a  
10 prescribe situation when people repeatedly came back  
11 for refills and what would be documented in the  
12 medical record every single time those refills were  
13 provided if we were under the assumption that a  
14 prescription was necessary.

15 Obviously, with respect to this question, a  
16 lot of things were going through my mind.

17 DR. HERTZ: This is Sharon Hertz. I think  
18 you raise a lot of really interesting points, but I  
19 want to say that there is a reason why we did not  
20 start the presentations with does the use of naloxone  
21 in the community work; does it achieve a goal?  
22 Because I take it personally as an assumption that

1 that's already known. There are data that support  
2 that. The assumption is that people are already  
3 aware.

4 I see this AC as starting a step further  
5 along the way, that the only way you can help someone  
6 with opioid use disorder who overdoses get into  
7 treatment is by helping them live long enough to get  
8 there; that patients who mistakenly take something  
9 that they shouldn't combine with their opioid needs  
10 an opportunity to survive that to be educated how to  
11 avoid that in the future.

12 Also, going into opioid withdrawal, that was  
13 a big part of the 2016 discussion. And we all know  
14 that in the ER, with somebody who is well trained,  
15 who's going to be oxygenating the patient, careful  
16 titration is the standard of care, but for somebody  
17 on the sidewalk with a layperson, there's not really  
18 an opportunity.

19 We're trying to teach people to know about  
20 naloxone and give it, and to ask them to titrate the  
21 dose in that setting was also something that was  
22 discussed, and at that time agreed upon that first,

1 get them up even if they're in withdrawal. It's  
2 still better than the alternative.

3 I don't want to dismiss any of that as  
4 important, but we progressed to this meeting past  
5 that to ask what specifically our committees think  
6 and our invited guests think about how to get what we  
7 think is an effective approach to saving lives out  
8 into the community in the greatest way possible.

9 I don't know what's going on in Arizona.  
10 That is a little disturbing, but state items aside,  
11 local authorities aside, I'd like to ask us to focus  
12 on the opportunities we have here to hear your  
13 thoughts on the different approaches and how to  
14 facilitate the wider, bigger safety improvement.

15 DR. ZACHAROFF: Thank you.

16 DR. BROWN: Dr. Lloyd, could you introduce  
17 yourself?

18 DR. LLOYD: Josh Lloyd, deputy director in  
19 FDA.

20 DR. BROWN: And just to reiterate exactly  
21 what Dr. Hertz said, specifically, we're here to  
22 address how we can assist the agency in understanding

1 how to increase access.

2 Dr. Hernandez-Diaz.

3 DR. HERNANDEZ-DIAZ: Thank you. I would like  
4 to thank the presenters yesterday and the  
5 participants today for the very important information  
6 that we are absorbing here.

7 I agree with them that this is an emergency  
8 and we need to move quickly, and I think we have  
9 enough data to understand that saturation mode is  
10 important and that the benefits are clear. We hear  
11 about some potential adverse effects from naloxone,  
12 from the opioid withdrawal.

13 I think two things that we hear today also is  
14 that there are some complications with insurance and  
15 legal issues that I think need to be solved. And I  
16 know it's not up to FDA, but maybe passing that to  
17 the appropriate agencies would be important because  
18 these are the adverse effects that we are discussing  
19 that are beyond the pharmacology that we are  
20 expressing.

21 Then another potential adverse effect to  
22 consider I think is the education component of the

1 access that might be missed depending on which  
2 strategy is recommended. But regarding the  
3 effectiveness, I think it was clear from the  
4 discussion that we need to get naloxone where the  
5 overdoses are happening, and that that means putting  
6 it in the hands of individuals that are likely to  
7 witness the overdose, and that includes users, and  
8 family members, and others.

9 I think to get there, we have to consider at  
10 least two populations, and we heard that this morning  
11 in the presentations. One is the individuals that  
12 misuse or abuse opioids. I think the crisis is  
13 there, the explosion is there, and most of the  
14 overdoses, not all, are happening there. So I think  
15 if we have to prioritize high risk versus cost, we  
16 have to start there as step number 1.

17 I think we just want to get them as much  
18 naloxone as possible. I understood from the  
19 discussion these days that either over-the-counter or  
20 online access to get to universal access in that  
21 population and particularly collaborating on learning  
22 from the community-based programs that have been

1 saving lives already, and they are the best thing to  
2 teach us how to do it, will be important.

3 Then there is this other population being  
4 prescribed opioids for pain management, and that's  
5 probably where we need to start because of the cost  
6 right now with a targeted approach and maybe  
7 selective co-prescribing to higher risk groups that  
8 are easy to identify and being aware of not creating  
9 the stigma that we discussed today.

10 We mentioned risk factors like high dose,  
11 co-prescription of benzodiazepines, and that's  
12 another thing that is not part of the discussion, but  
13 why are we prescribing benzodiazepines is another  
14 topic; substance abuse, mental health, and so forth.

15 So I think in that approach, we might have to  
16 start with a targeted approach, and I think that  
17 would help also saturate -- by prescribing to those  
18 patients and reaching the households so that the  
19 naloxone is there, it will indirectly help the  
20 saturation and the availability of naloxone and  
21 probably also reduce the stigma because it's given in  
22 a prescription way and indirectly increasing access.

1 I think that's what is in my mind for the  
2 discussion.

3 DR. BROWN: Dr. Hertz, is it within the  
4 purview of FDA to create a model community program or  
5 suggest how a community based program -- we've seen  
6 and heard about a lot of models, and my question is  
7 along the lines of there are some places that are  
8 very successful, and some places don't have a clue,  
9 that if we gave them 2 million amps of Narcan, they  
10 would not know how to distribute it.

11 Is it within the purview of FDA to push that  
12 along?

13 DR. HERTZ: Not specifically. Whether or not  
14 you think what we can do would facilitate that within  
15 the realm of things that the agency does, OTC  
16 generic, co-prescription, that sort of thing, you can  
17 consider that. There are other agencies that are  
18 involved more with that kind of outreach. SAMHSA  
19 comes to mind, and I think I heard some other  
20 collaborations as well as some of the state and local  
21 authorities.

22 DR. BROWN: Dr. Dasgupta?

1 DR. DASGUPTA: The SAMHSA toolkit on naloxone  
2 already has a lot of the best practice guidelines in  
3 it, and that was made in consultation with many of  
4 the community groups we heard from this morning.

5 The experience with the syringe exchange  
6 programs and having national standards has had both  
7 good and bad effects. I think part of what we heard  
8 from Dr. Oliva's presentation was that what has  
9 worked in the VA system is the ability to have each  
10 facility tailor the program to their individual  
11 needs. The amount of collaboration they have to  
12 foster the heterogeneity is part of what has made the  
13 VA program a success.

14 I think while national standards and  
15 practices are helpful, I think maintaining that  
16 flexibility at local levels is going to be critical.

17 DR. BROWN: Dr. Meisel?

18 DR. MEISEL: Steve Meisel. Once again, I  
19 want to reiterate how excellent this last day and a  
20 half has been in terms of quality and depth of the  
21 speakers and thought provoking.

22 One of the things that strikes me is that one

1 of the most effective things that could come out of  
2 this is to take this last day and a half and  
3 replicate it everywhere around the country with  
4 audiences like state health commissioners, county  
5 health commissioners, insurance companies,  
6 professional practice groups, HHS, you name it,  
7 legislators and governors and whatever. Let's take  
8 this on the road. That in and of itself would have a  
9 major impact. I mean that very seriously. It is  
10 that powerful.

11 One of the themes that strikes me about  
12 everything that we've heard yesterday and again this  
13 morning is the word "innovation" comes to mind. We  
14 saw lots of innovative programs from New Mexico or  
15 the VA or Rhode Island or elsewhere, Utah, that are  
16 all a little different.

17 One of the things that I think we need to  
18 encourage is more and more innovation and more and  
19 more freethinking in this space because I don't think  
20 anybody has got the right answer. They've got some  
21 answers that help to some extent, but nobody has  
22 gotten this down to zero. Nobody has gotten this

1 down to a 90 percent reduction of anything. It  
2 requires a lot more work, but the innovation that  
3 happens on a local level, I think is very important.

4 I see this as really a two-part problem. One  
5 is it's a public health problem, and public health  
6 problems have to be solved in a public health manner.  
7 The notion that by co-prescribing or those kinds of  
8 tactics are going to help with people who are taking  
9 fentanyl on the street, that's not going to happen,  
10 and that's 60, 70 percent of the deaths that we're  
11 seeing out there. That has to be approached by a  
12 public health problem.

13 The saturation programs that we heard about  
14 are one tactic to get there, but I think there is  
15 other ways of getting there, many of which haven't  
16 been thought of yet, and that's where I get back to  
17 the innovation. But I think the idea of  
18 co-prescribing and all that is probably not all that  
19 helpful.

20 We heard about co-prescribing for patients  
21 who are admitted with overdoses. Well, you're not  
22 going to be co-prescribing them because you're not

1 going to be prescribing a narcotic. That's primary  
2 prescribing of the naloxone. That's a little  
3 different. That's a different type of model.

4 I think the lessons that I took away from  
5 this is innovation and saturation are the key and how  
6 can we get there with that. That co-prescribing  
7 piece of it, will it help a little bit, maybe, but  
8 that's not going to be the same as the public health  
9 model.

10 Two other points, one is we can start  
11 thinking about naloxone as we have for decades  
12 thought about ipecac. Every parent with small kids  
13 has got ipecac in the home because you never know  
14 what they're going to swallow. Well, what if we put  
15 naloxone in everybody's home like we think about  
16 ipecac? How do we get to that framework?

17 The over-the-counter stuff helps with that  
18 maybe, the saturation stuff, but all of the  
19 educational pieces with that. It starts in the  
20 pediatrician's office. Perhaps even it starts in the  
21 obstetrician's office, in that space. To think about  
22 that in a public health framework and really raise

1 that level of awareness so that people are demanding  
2 to have naloxone in the home like they would have  
3 ipecac in the home, I think would be helpful.

4 Then the last point I'd make in this space  
5 before ceding the floor is that there's been a lot of  
6 suggestion that if we just had some generics, the  
7 prices would go down. I don't buy that. I think our  
8 experiences with generics over the last number of  
9 years, whether it's the hospital space or the  
10 ambulatory space, is that the prices are going up  
11 dramatically. Unless there's a buck to be made,  
12 people aren't going to make this stuff, and so we  
13 have fewer and fewer generic manufacturers and the  
14 prices go up.

15 We see that over-the-counter forms of  
16 ibuprofen and naproxen, whatever, are more expensive  
17 than the prescription versions of that because of the  
18 marketing and what have you. So I would just caution  
19 us not to be lulled into an assumption that if  
20 something's available generically, it's going to  
21 lower the price.

22 Now, if it was available over the counter and

1       there was generic, and it was subsidized by somebody,  
2       Congress, somebody, that might be a different story  
3       where you have a maximum price point. But just the  
4       idea that you have it over the counter and have it  
5       generic doesn't by itself guarantee a price point.

6               DR. BROWN: Dr. Brand?

7               DR. BRAND: Thank you, Mr. Chair.

8               I won't reiterate it, but some of the stuff I  
9       was going to say Dr. Hernandez-Diaz already commented  
10      on, and Dr. Meisel, too, just that we do have two  
11      distinct populations that need two distinct  
12      strategies.

13              One of the unintended consequences we have to  
14      be sure we don't do is in any way impede the  
15      wonderful work done in the community with the  
16      community distribution centers. So whatever decision  
17      is made by the FDA today, if anything, we need to  
18      help expand those programs nationwide as quickly as  
19      possible. While we've been here for 2 days, over  
20      300 people have died, so this is an emergency.

21              One of the big things -- and you touched on  
22      it a little bit, Dr. Meisel -- I hope I'm saying that

1 right --

2 DR. MEISEL: I've been called so many things.  
3 That's okay.

4 DR. BRAND: -- and I'm not sure it's been  
5 emphasized enough, is education as a public message,  
6 not through the doctor's office or through the  
7 pediatrician's office, but on television, on the  
8 radio, everything else, education to the patients,  
9 education to the prescribers. In every publication  
10 that we need naloxone co-prescribed, we need naloxone  
11 in these community programs.

12 That's the only way to destigmatize it, is to  
13 start talking about it, how to recognize the signs of  
14 overdose. Just like we're seeing on television right  
15 now about how to recognize the signs of stroke, we  
16 need to see those messages constantly on television  
17 to destigmatize overdose. We need people to  
18 understand accidental overdoses are going to occur.  
19 There's no stigma attached to it. It's a disease for  
20 some people just like diabetes.

21 I think we need to focus on two separate  
22 distinct ways to get naloxone. I do disagree. I do

1 think that it should be co-prescribed with high-risk  
2 patients in particular.

3 But at the same time, and to answer the  
4 question one of the other gentlemen,  
5 anesthesiologists -- I'm sorry, I forgot your  
6 name -- as far as over the counter, the kits that we  
7 have right now, just keep in mind -- and this is down  
8 the road -- we teach people how to use insulin and  
9 Lovenox in the community all the time, EpiPens.

10 People can very quickly be trained how to do  
11 an intramuscular or subcutaneous injection. I just  
12 want to make sure we're not limiting their ability to  
13 do that with whatever decision we come up with.

14 DR. BROWN: Dr. Krebs?

15 DR. KREBS: Thank you. I'll echo what  
16 everyone has said about how outstanding the  
17 presentations were, and I'll say that I came here  
18 with, I think, a reasonable understanding of the  
19 evidence and limitations of the evidence related to  
20 co-prescribing and how this might work in terms of  
21 practice, primary care, pharmacy, physician, and  
22 collaborative models.

1           That's where I was familiar, so that's  
2 probably my bias coming. I understand the potential  
3 of those kinds of approaches better than I understood  
4 the potential of other kinds of approaches.

5           Since this question is really about  
6 comparative effectiveness, what I'd like to emphasize  
7 is that it seems clear that the community  
8 distribution model is highly effective in getting the  
9 naloxone to the people who will use it to reverse  
10 overdose and save lives. It seems like that is very  
11 clear.

12           We don't have any similar information about  
13 prescribed naloxone to patients receiving opioids.  
14 In fact, the evidence we have really actually  
15 suggests that if there is a benefit, it's not the  
16 naloxone itself that is the benefit. It's the  
17 discussion about the physiology of opioid poisoning  
18 causing sedation and respiratory depression, and that  
19 we're not having that conversation.

20           That's the conversation that is needed.  
21 That's where the value probably is. Even in  
22 Dr. Coffin's study, I think the best thing we have

1 showing that there's some potential benefit, again,  
2 it did not seem to be from the naloxone itself.

3 So we don't need to give the drug to get the  
4 benefit there. If what we're talking about is a  
5 labeling change, there are things other than  
6 recommending co-prescribing of naloxone that could  
7 get that information that seems to be the active  
8 ingredient out to the patient.

9 Of course, in reality, we talk about two  
10 populations here, pain patients and people who use  
11 drugs who may or may not be patients. That's one way  
12 to look at our two groups of populations, and it can  
13 be sometimes helpful. But I think actually a better  
14 way to look at it -- because sometimes we don't know  
15 when you see a person if they belong to one or both  
16 of those groups.

17 No fancy statistical modeling can do it. If  
18 you dig right in, the positive predictive value of  
19 those models is never very good. You just don't  
20 always know, especially, when people who use drugs  
21 have a really strong incentive to not let their  
22 physician know sometimes.

1           I think really what we're doing with this two  
2 types of at-risk persons, we have people who know  
3 they are at risk or their loved ones are at risk of  
4 an overdose. Those people are the customers for  
5 naloxone, and so they're the ones who are the most  
6 likely to use it, the most likely to benefit from it,  
7 and we just need to make it much easier for them to  
8 get it.

9           The other type of at-risk person are the  
10 people who do not know they are at risk, and these  
11 are the patients whom we are prescribing to perhaps  
12 higher intensity regimens than we should; perhaps a  
13 low value regimen, more risk than benefit to the  
14 regimen. What they need is information because  
15 getting naloxone may not itself be what changes their  
16 risk.

17           Then a related issue I think, too, again when  
18 advocating for it, yes, let's do everything, to me, I  
19 think we need to always think about unintended  
20 consequences of our actions. I think although we  
21 have some hypothetical benefits of co-prescribing,  
22 mostly that it would promote education, or decrease

1 stigma, or make pharmacists stock the drugs more  
2 frequently, we also really have some hypothetical  
3 harms. Recommending co-prescribing for the many,  
4 many millions of people who are receiving high-risk  
5 opioid regimens would drive up drug costs in  
6 unpredictable ways.

7 The debate we had yesterday about this really  
8 convinced me that I have no idea what the heck would  
9 happen, but it could be really bad, and that could  
10 adversely affect the community programs that we think  
11 are the most effective.

12 Also, let's always remember there's an  
13 opportunity cost. I work for the government, and I  
14 know we can't do everything at once. So if we focus  
15 a lot of energy on something that has a hypothetical  
16 benefit maybe for some people, to what extent are we  
17 missing out on the opportunity for some other  
18 activity to really push forth something that could be  
19 much more high value?

20 Ultimately, when we're talking about people  
21 who know they're at risk and people who do not, those  
22 highest risk patients for whom I'm prescribing

1       opioids, they know more than I do about their risk.  
2       If the drug is available at a low threshold for them,  
3       they can go get that or their family member who's  
4       concerned about them can get it. They don't need me  
5       to do a predictive model to say, oh, I think you  
6       might be at high risk so here's this prescription.

7                The truth is that when I prescribe something,  
8       people often fill it whether or not they want it, so  
9       I'm not respecting their agency on that level.  
10       Thanks.

11               DR. BROWN: Dr. Gerhard?

12               DR. GERHARD: Tobias Gerhard, Rutgers. I  
13       also want to start with thanking the presenters  
14       yesterday and today both for the information they  
15       provided, but also in the majority of the cases  
16       really for the tireless work they've done for many  
17       years, often decades, and that really should be  
18       appreciated.

19               I want to start by saying I think the  
20       discussion and the answers to many of the questions  
21       we're discussing really depends on the framework  
22       we're taking to look at this. Are we thinking about

1 this as business as usual within the regulatory  
2 framework that we've used for many of the other  
3 questions that we've addressed in similar advisory  
4 committees, or do we think about it in the context of  
5 a public health emergency that kills tens of  
6 thousands of people every year?

7 I think that changes the answers and our  
8 ability to think out of the box dramatically. I  
9 would very much recommend that we take the latter  
10 approach and really do not treat this as business as  
11 usual and think about unorthodox approaches that  
12 might actually work.

13 I think as not somebody that's in the field  
14 specifically, it's very clear that saturation of the  
15 community with naloxone really is the goal.  
16 Everybody that should have access needs to have  
17 access at minimal cost with minimal barriers. In  
18 some form that is clearly the goal.

19 I think the narrow question of the committee  
20 today, the issue of co-prescribing, when we remove  
21 other considerations, so without other interventions,  
22 I think is a very inefficient tool to get to

1 saturation. It would be very expensive. It would  
2 target, depending on the targeting mechanisms of  
3 which high-risk populations would be selected, groups  
4 that aren't at the highest risk. It certainly would  
5 miss the particularly high-risk groups of drug users,  
6 vast majority of which would not have insurance and  
7 so on.

8           So I think that by itself it's an inefficient  
9 tool, and that doesn't mean that there isn't a role  
10 for it as well.

11           I think reducing barriers for naloxone  
12 availability, and use is what it is all about, those  
13 barriers are slightly different or the context is  
14 slightly different depending on what population we're  
15 talking about. Are we talking about drug users or  
16 are we talking about people that have a prescription  
17 for an opioid for chronic pain or for acute pain?

18           Nonetheless, I think reducing the barriers to  
19 availability, the solutions are actually similar and  
20 would support ideally both populations. Number one,  
21 I think is clearly the price. So it's really an  
22 issue of how do we make this available at -- and I

1 don't know what the number is, but I think a dollar a  
2 dose or something like this should be the goal. That  
3 is a number that I think is not feasible if we stay  
4 within the traditional framework, but it is a number  
5 that's feasible to achieve when we step out of that  
6 framework and think about real government buying  
7 power, invalidating patents -- I'm not a specialist  
8 in these subsidies -- some way to make through  
9 commitment of regulatory authority from the federal  
10 government plus funding in some form, make naloxone  
11 available at a dollar a dose to whoever wants it.

12           We can talk about what dosage form this would  
13 be or so on. That's a significant commitment, but  
14 again, we're talking about the response to public  
15 health emergency that we would take for many other  
16 types of public health emergencies.

17           The second barrier I think is the issue of  
18 access and stigma, where standing orders clearly help  
19 but still have problems. I think there the move to  
20 somehow get this to OTC availability would help  
21 because it would cut down on problems in some states  
22 where maybe standing orders aren't in place or more

1 difficult to implement and would take that level of  
2 access away.

3 I think the move to OTC without any  
4 intervention on the price, I probably wouldn't do so  
5 much. It wouldn't help to have a 200-dollar naloxone  
6 product OTC in a pharmacy. It would not reach the  
7 right populations. But together with this price  
8 intervention, I think it could be incredibly  
9 powerful.

10 I think basically what we need is a concerted  
11 effort by multiple government agencies that certainly  
12 extends the purview of what's under the authority of  
13 FDA. But again, if we think about it as the response  
14 to a public health emergency, I think this becomes  
15 very much justified, and I think it's the only way  
16 that we get to something that really works.

17 One last brief comment, obviously, even with  
18 all that effort, this would not be a cure-all by any  
19 means. I think to think about education,  
20 availability, and support of addiction treatment  
21 ideally would be part of this discussion. Other  
22 areas of stigma like what we heard, the effect on the

1 availability of life insurance and things like that,  
2 would be part of that discussion. But I think the  
3 intervention on the price and lowering any regulatory  
4 barriers on access together would be the solution  
5 that I think is needed as a response to the problem  
6 we're facing.

7 DR. BROWN: It's close to lunchtime now, and  
8 rather than get started on another question, I'm  
9 going to break for lunch. We'll reconvene again in  
10 this room in one hour, about 1:00.

11 Please take any personal belongings you may  
12 want with you at this time. Committee members,  
13 please remember that there should be no discussion of  
14 the meeting during lunch amongst yourselves, with the  
15 press, or with any member of the audience. Thank  
16 you.

17 (Whereupon, at 11:58 a.m., a lunch recess was  
18 taken.)

19  
20  
21  
22

A F T E R N O O N S E S S I O N

(1:37 p.m.)

1  
2  
3 DR. BROWN: We're going to reconvene and  
4 continue with our discussion of question 1. Again,  
5 I'm going to ask that we focus our attention on the  
6 specifics of the question, which in this case relates  
7 to the comparative and collective effectiveness of  
8 the various programs that we have heard about in the  
9 last two days.

10 The next person would be Ms. Robotti.

11 MS. ROBOTTI: Thank you. Sue Robotti.  
12 Follow-up question to Dr. Hertz. It's a follow-up to  
13 Dr. Zacharoff's question, and then I have a comment  
14 afterwards about on and off label.

15 Does the needle packaged with the generic  
16 naloxone impede approval of a drug going OTC?

17 DR. HERTZ: I don't understand the question.

18 MS. ROBOTTI: Sure. If naloxone was to move  
19 to be an OTC product -- you did a really good review  
20 of what makes it such a unique drug. It's a drug  
21 that people will have and generally can't use on  
22 themselves, somebody else uses it; all of that. And

1 it has a needle if it's the generic syringe one.

2 The fact that it has a syringe, are there  
3 other OTC products that have a syringe?

4 DR. MAHONEY: Yes. This is Karen Mahoney  
5 from the nonprescription division. Regular and NPH  
6 insulin are OTC.

7 MS. ROBOTTI: Of course. Thank you. Great.

8 I'm still back on question 1 or discussion  
9 point 1, and I just want to say the community-based  
10 programs are clearly the priority. But what happens  
11 in the many areas of the country that don't have  
12 these programs in place? Even needle exchange  
13 programs are still very controversial in many places.

14 I have intelligent and poorly informed  
15 friends who think that naloxone encourages drug use  
16 and mutter about naloxone parties, which I believe  
17 are mythical because they make no sense. There's a  
18 lot of public information that has to be straightened  
19 out.

20 I live in one of the most famously liberal  
21 areas of the world, the upper west side of Manhattan,  
22 but if somebody parked a truck on the upper west side

1 and was giving away naloxone, there would be an  
2 outcry, "Not on my street, not in my neighborhood.  
3 It will attract drug dealers. It will attract bad  
4 people."

5 So expansion of this program, I a hundred  
6 percent support it, and I think it's the way to go.  
7 I think it's going to be very difficult, and I don't  
8 know how the government supports it and can make that  
9 happen, but I hope you can.

10 Separately, the discussion at the doctor's  
11 office or at the pharmacist counter of using naloxone  
12 when somebody is first prescribed an opioid, I think  
13 is a crucial discussion. I think that it will make  
14 people stop and think. If I'm at risk of overdose,  
15 do I have alternatives to using this drug? Maybe I  
16 really should try some alternative pain relief  
17 methods before I go on the opioid.

18 Just having the discussion, while most people  
19 will continue to get the opioid, just having the  
20 discussion not only helps destigmatize it, but also  
21 it makes it personal, the risk of overdose. It makes  
22 people realize that it's not just other people who

1 might overdose, that you yourself could overdose by  
2 mistake. It's a big destigmatizer. Those are my  
3 points. Thank you.

4 DR. BROWN: Dr. Besco?

5 DR. BESCO: Thank you. Kelly Besco,  
6 OhioHealth. I just want to add a little bit more to  
7 what Dr. Brand was saying about OTC status and just  
8 cautioning against moving toward OTC status without  
9 some sort of provision that it be obtained by  
10 individuals from behind the pharmacy counter.

11 I feel like, as we heard yesterday, that  
12 pairing access with education produces successful  
13 outcomes, and I think omitting that educational  
14 component would be a missed opportunity to ensure  
15 that naloxone is used appropriately by individuals.

16 That being said, I do believe that we need to  
17 remove access barriers and provide a greater  
18 government funding stream or procurement program for  
19 national distribution programs. Coming back to I  
20 think during one of the public presentations,  
21 thinking about the CDC pediatric vaccination  
22 distribution program, is there something innovative

1 that we could put together for a national naloxone  
2 distribution program?

3 Those are just my comments, especially on the  
4 OTC status.

5 DR. BROWN: Dr. Garcia-Bunuel?

6 DR. GARCIA-BUNUEL: Thank you. Martin  
7 Garcia-Bunuel. I'll try to cut to the chase; a lot  
8 of great comments and thoughts.

9 One, once again, I think to the agency, thank  
10 you for this opportunity for all of us. What I'm  
11 struck by, the data suggests a public health crisis.  
12 I'm not sure. I think we tried to dig into the data,  
13 but right now what I can walk away with is that we do  
14 have the public health crisis in terms of overdose  
15 and death from overdose.

16 Having said that, the community-based  
17 programs just stand out remarkably in terms of how we  
18 address the crisis. Coming from the established  
19 healthcare system, I want to caution us because the  
20 established healthcare system at its best won't touch  
21 this. Co-prescribing is an excellent tool, and I  
22 think we should engage around it as a tool, once

1 again, to engage patients.

2 In the opening remarks, I'm still struck by  
3 one of the graphs that show how many opioids we  
4 prescribe in the healthcare system. So I would be  
5 remiss not to make sure we keep that on the table in  
6 terms of trying to come up with naloxone as a  
7 cure-all or co-prescribing as a cure-all for a  
8 problem that we created.

9 I was here a few years ago where we were  
10 discussing all kinds of permutations on how to  
11 discuss risk of opioid prescribing with patients, and  
12 how we should engage the continuing medical education  
13 industry to support this effort in conjunction with  
14 the pharmaceutical industry. This was just several  
15 years ago, but we were still on a launchpad to  
16 prescribe, as we are, millions and millions and  
17 millions of doses of these medications that are  
18 killing people.

19 Having said that, I want to make sure that we  
20 do discuss this from both sides as a healthcare  
21 system and have a good discussion and recommendation  
22 about co-prescribing, but definitely already want to

1 mostly emphasize how do we leverage community  
2 partners to help us.

3 Organized healthcare because of fragmentary  
4 payer systems, potential less reliability of payer  
5 systems and coverage for individuals in the community  
6 throughout our country, will not be something we can  
7 rely on to solve the problem.

8 As a primary care physician, I also caution  
9 us to try to solve public health problems through the  
10 primary care office. There's a tremendous shortage  
11 of primary care physicians throughout the country.  
12 It will only get worse.

13 We have medication-assisted therapy that we  
14 also want primary care to get involved with. We have  
15 coronary artery disease, type 2 diabetes,  
16 hypertension. I could go on. And these are all  
17 expectations, as we move forward, that the primary  
18 care office will be the touchpoint for all of these  
19 illnesses and how do we keep preventing morbidity and  
20 mortality through organized medicine? Impossible.  
21 But to then put another layer on this by saying that  
22 we will solve it by co-prescribing, we just have to

1 be careful and cautious.

2 My last comment would be, I would ask us also  
3 to strategically think, as we make recommendations  
4 today, how can we actually see the community-based  
5 organization as the future of addressing problems  
6 such as this.

7 In the here and now, we need to actually make  
8 some recommendations I think that address the crisis  
9 right now. I can't imagine how we couldn't. I can't  
10 imagine looking at this data for a couple more years  
11 and expecting it to change if we don't do something  
12 differently.

13 I'd also like to think that the community  
14 organizations that have shown us what they can do  
15 when coming from the patient perspective and the  
16 family perspective and the community perspective,  
17 they can actually offload the organized healthcare  
18 system. They can offload the primary care physician,  
19 the urgent care physician, the subspecialty offices.  
20 They can actually help us address healthcare issues  
21 that we will never be able to do as an organized  
22 healthcare system.

1           My struggle with the co-prescribing is, look  
2           at me; currently, I work in the VA healthcare system.  
3           So I am an incredible supporter of organized  
4           healthcare systems that share data, that collaborate  
5           care, and look at human beings through their lives  
6           from a population health model, but that's still a  
7           limited approach.

8           I thank everybody, and especially thank those  
9           who have shared the information about what they've  
10          done out in their communities because it's impressive  
11          and inspiring. Thank you.

12          DR. BROWN: Dr. Goudra?

13          DR. GOUDRA: Basavana Goudra from Penn  
14          Medicine. Going back to the question again, one of  
15          the points for discussion, or at least part of the  
16          discussion here, is comparative and collective  
17          effectiveness of these programs with regard to  
18          prevention of all those deaths. I asked at least  
19          two speakers yesterday, and one of my colleagues  
20          asked this question as well.

21          I'm not convinced whether anybody came up  
22          with definite data, robust data, suggesting that

1 these measures have contributed to reduction of  
2 death. The closest I came was in the state -- I  
3 forget which state -- that they moved from number 1  
4 and then number 4 and then 14 and 17. That might  
5 very well that others have gone up, not necessarily  
6 this data has gone down.

7 I still wonder where is proper data to  
8 suggest that naloxone was specifically contributing  
9 to the reduction of death at the exclusion of many  
10 other measures that have initiated or implemented  
11 over a period of time.

12 It looks like FDA has made up its mind that  
13 naloxone is effective with regard to prevention of  
14 all those deaths.

15 DR. MAHONEY: Mr. Chairman, if I may. This  
16 is Karen Mahoney, nonprescription. I just want to  
17 make one clarification. In the United States, there  
18 is not a behind-the-counter status. Drugs are either  
19 over the counter or prescription. I just want to  
20 make that clarification.

21 DR. BROWN: Thank you. Dr. Faul?

22 DR. FAUL: Hello. As we think about the two

1 different types of users, illicit and  
2 prescription-based users, I wanted to clarify the CDC  
3 graph that keeps getting presented.

4 A lot of people think that the line  
5 represents people. It really does not. It  
6 represents the substance found in the dead person's  
7 body. So it's easy to look at that graph and say,  
8 well, this is the proportion of prescription drug  
9 deaths, and it's just a misinterpretation of it.

10 It's a mirror of the death certificate where  
11 there's an underlying cause of death, is the main  
12 reason why the person died. In this case, it would  
13 be a drug overdose. But there's ten different  
14 multiple causes of death that get scanned; if there's  
15 heroin, there's fentanyl. Opioids, you cannot  
16 distinguish between illicit and prescription opioids  
17 in a body. There's no way, but that falls under the  
18 prescription opioids because that's where it makes  
19 the most sense.

20 The point of bringing this up is that there  
21 may actually be more illicit type opioid, heroin  
22 deaths than actually projected on that graph because

1 it's a combination, it's a polysubstance problem. So  
2 I just wanted to clarify. Thanks.

3 DR. BROWN: Dr. McCann?

4 DR. McCANN: Hi. Mary Ellen McCann. I have  
5 a couple of points. One, I'm still struck by the  
6 ipecac model, and I looked it up this morning.  
7 Families before the year 2001 were recommended by  
8 their pediatricians to buy ipecac to prevent  
9 poisoning in their children. I don't know how many  
10 families got it, but I would presume a majority of  
11 households went out and bought some ipecac.

12 It's over the counter. The price presently  
13 is about \$8 a bottle. And I actually think if this  
14 were an over-the-counter product of naloxone, that a  
15 price point between \$5 and \$10 per household would  
16 not be unreasonable. Now, that's dealing with the  
17 not high-risk community, the low-risk community.

18 The other point that I'd like to make, I  
19 would like to say that I think co-prescribing is a  
20 very inefficient, super expensive way to saturate the  
21 low-risk population with naloxone. In our  
22 households, I probably could find three or four

1 bottles of some sort of narcotic that we've  
2 accumulated over 30 years, such to the degree that  
3 when I broke my arm a couple of years ago, I didn't  
4 bother to get any pain pills. I knew I could find  
5 some at my house.

6 The question is, the at-risk population is  
7 not necessarily those that are getting prescribed new  
8 narcotics, the low-risk population is probably all  
9 American households or most of them. So then it  
10 comes down to the question of the expiration dates,  
11 are they parallel? Because I'm sure my narcotics at  
12 home are technically expired. I'm also pretty sure  
13 that they're probably still effective.

14 Are we going to advocate that people get  
15 naloxone for the house somehow every three years, or  
16 do we have any data whether it really does expire  
17 every two years?

18 DR. BROWN: Dr. Bateman?

19 DR. HERTZ: Did you want an answer?

20 DR. McCANN: I did.

21 DR. BROWN: Sorry.

22 DR. HERTZ: This is Sharon Hertz. So those

1 very old opioids that you're taking --

2 DR. McCANN: Rarely.

3 (Laughter.)

4 DR. HERTZ: On the very rare occasion of a  
5 broken bone -- sorry about that; it sounded  
6 terrible -- yes, there's probably still some opioid  
7 in them, but there's also degradants. So it's not a  
8 quality product anymore, and there are certain  
9 standards for how a product behaves on stability that  
10 support an expiry.

11 The expiries are databased. What people may  
12 be surprised to hear is companies -- I always hear  
13 this from family members. "Oh, those pharmaceutical  
14 companies want a really short expiry so you have to  
15 keep buying drug," but the reality is, I think in  
16 general, it's much easier to have a longer expiry in  
17 terms of manufacturing and storage than to have a  
18 very short one.

19 The two years is based on data. So at two  
20 years and a month or two and a half years, there's  
21 still naloxone in there, but the question is, how  
22 much is left and what are the conditions under which

1 it's been stored? Do you want it on hand? Has it  
2 been in a glove box during the summer?

3 So there are a lot of circumstances in which  
4 the potency of the actual drug substance can be  
5 affected, so the expiry is there. So it's not that  
6 the drug turns off at the day the expiry is over, but  
7 you start to lose the reliability of having a quality  
8 product. That's the part I'll answer.

9 DR. BROWN: Dr. Bateman?

10 DR. BATEMAN: Thank you. I agree with the  
11 comments that were made, that really the most  
12 important thing that we can do as a society is to  
13 scale up the community-based distribution programs.  
14 This gets the medication to the patients or the  
15 people who are at the highest risk and the people  
16 around them who are at the highest risk.

17 But to achieve the kind of saturation that  
18 we've seen in the model programs, the Hamilton County  
19 programs, some of the Bay Area work that's ongoing,  
20 is going to require an enormous amount of medication.  
21 Dr. Davidson suggested that for the community of San  
22 Francisco, which has 800,000 residents, it would

1       require 60,000 doses.  If we translate that to what  
2       would be required across the entire country, that's  
3       something in the order of 20 to 25 million doses of  
4       this medication.

5               I think it's going to be hard to achieve that  
6       kind of penetrance of the medication through  
7       traditional models, whether it's even converting  
8       Narcan to a generic or making it available over the  
9       counter.

10              Someone raised the point earlier that what we  
11       need is a national naloxone distribution program.  
12       And if the federal government can pay for half of the  
13       vaccines that are administered in the U.S. -- I think  
14       the CDC does that and other government entities  
15       together do that -- this is something, given the  
16       scope of the opioid crisis, that our government  
17       should pursue.

18              DR. BROWN:  I'm going to stop our discussion  
19       of this right now unless somebody's on fire.  I'm  
20       going to try my best to say what we have said over  
21       the last 45 minutes to an hour.

22              The overwhelming majority of deaths occur in

1 those using illicit opioids or prescription opioids  
2 without therapeutic purpose. In order to provide the  
3 maximum effect, these subjects, as well as patients  
4 prescribed opioids for therapeutic purpose, must be  
5 considered.

6 Co-prescribing of naloxone with opioids could  
7 provide some benefit but would be expensive with no  
8 model suggesting the extent of effectiveness that  
9 could be expected. Education at the time of  
10 prescribing may be as effective as the drug itself.  
11 Community-based programs have been very effective but  
12 lack the resources to expand their effort.

13 For the agency to provide the maximum  
14 efficacy, assisting these community groups would seem  
15 to be the best use of scarce resources. This should  
16 include using the available capacity of the agency to  
17 produce over-the-counter naloxone rapidly. This may  
18 also mean a change in the distribution of naloxone  
19 through the federal government.

20 Can we move to question 2? I'm going to read  
21 the question. Discuss potential burdens and barriers  
22 associated with co-prescribing naloxone currently

1 with opioid prescriptions for all or some patients  
2 and with targeted prescribing for individuals  
3 considered at high risk for overdose.

4 Discuss how these burdens or barriers may  
5 affect implementation of co-prescription or targeted  
6 prescribing and what steps could be taken to mitigate  
7 these impacts.

8 Is that question clear to everyone? So we're  
9 going to be discussing the issues of burdens or  
10 barriers to co-prescribing of naloxone with opioids.

11 Ms. Numann?

12 MS. NUMANN: Sabrina Numann, patient  
13 representative. Thank you. In regards to burdens  
14 and barriers, this is in regards from a patient  
15 standpoint, not a patient that Dr. Krebs described.  
16 Even as an informed patient, stigma and language is  
17 very important.

18 A discussion from my physician and/or my  
19 pharmacist advising naloxone, due to possible risks  
20 and interactions with opioids and comorbidities, it  
21 will catch my attention much more effectively than  
22 advising that I'm being prescribed naloxone for

1       opioid overdose.

2               Language does matter, thus the education  
3       and/or media campaigns -- Dr. Brand touched on that  
4       very well -- geared towards reaching all the  
5       patients, it's vital for the average  
6       opioid-prescribed patient who is not abusing in any  
7       form or accidental ingestion from maybe small  
8       children.

9               However, people who use drugs, opioid use  
10       disorder, I understand they're more receptive to the  
11       overdose word, but I think that this is a barrier  
12       that requires industry, physician discussion, and  
13       maybe FDA label discussion of interest for sure.

14               I understand that this is crisis mode, but  
15       for mass distribution and making sure that every  
16       household receives this for reasons such as I've  
17       described, I believe the language itself needs to be  
18       thought thoroughly to remove the stigma and make sure  
19       that patients like myself understand what they're  
20       really saying, rather than implying that I'm misusing  
21       my opioids or that I'm suicidal, which may turn me  
22       around from that. Thank you very much.

1 DR. BROWN: Dr. Zacharoff?

2 DR. ZACHAROFF: Thank you. Kevin Zacharoff.  
3 With respect to discussion point number 2 and  
4 co-prescribing, I'd like to share with you that one  
5 of the pieces of knowledge that I have really  
6 assimilated into my mindset by serving on this  
7 committee is the idea that my old definition of a  
8 risk-benefit analysis is not what it used to be with  
9 respect to this medication.

10 I try to communicate that to almost everybody  
11 I meet and at talks that I give. Dr. Argoff  
12 mentioned warfarin yesterday, and he probably got  
13 that from me because I use the Coumadin analogy all  
14 the time. But that's a situation where the risk of  
15 prescribing something directly affects the patient,  
16 and the healthcare provider, like most other  
17 medications, needs to just weigh that risk with  
18 respect to the patient.

19 Something I've learned is that with respect  
20 to opioid prescribing and risk, it now has to expand  
21 beyond just the bubble of the patient and the  
22 prescriber. It needs to include the household, it

1 needs to include the community, and it needs to  
2 include society. When it intersects society, I think  
3 is where we see the intersection of maybe these two  
4 distinct risk populations.

5 For me, with respect to co-prescribing and  
6 mitigating risk, one of the things that I think is  
7 really important and it could be a challenge and it  
8 could be a barrier, is to bring up the issue of how  
9 does a healthcare provider capture the information  
10 necessary to formulate an appropriate risk-benefit  
11 analysis. It could be difficult, and it could be a  
12 different paradigm.

13 When I talk to primary care providers, who I  
14 consider to be the most important group in this  
15 discussion, I talk about how important it is to ask  
16 if there's someone else in the household with a  
17 history of substance abuse. Are there people who  
18 possibly may come into the household who have a  
19 history of substance abuse, and so on and so forth.

20 With the simple act of co-prescribing  
21 naloxone concurrently for all patients, I don't know  
22 that I would feel that that would be a barrier that

1 could actually be overcome. Certainly in reading a  
2 lot of the comments that were posted on the docket  
3 for public commentary, we heard a lot about the  
4 second population, which is substance abusers, but we  
5 heard a lot from pain patients about the burden of  
6 being saddled with that.

7 We had a lot of discussion yesterday using  
8 the word "offering naloxone" to patients and that the  
9 act of offering naloxone to patients actually  
10 promoted a certain mindset. It promoted a certain  
11 level of discussion, and that it's possible that just  
12 the act of offering the medication naloxone to  
13 patients where there might be increased risk is the  
14 most important ingredient.

15 As opposed to co-prescribing, I would really  
16 urge the idea that the offering part be what really  
17 happens and the documentation of that offering.  
18 Taking into account of what I call the new math for  
19 the risk-benefit analysis is the way it gets decided.  
20 I've been telling people for years that every time an  
21 opioid is prescribed or refilled, there needs to be  
22 re-justification of the fact that the medication is

1 the appropriate thing to use.

2 Continuing current treatment plan just  
3 doesn't cut it anymore, and if we do consider risk to  
4 be something that is dynamic, as we heard mentioned  
5 this morning, then that idea of offering it when  
6 appropriate seems to make a lot of sense to me.

7 I worry about the over-the-counter model  
8 because I think that might circumvent the  
9 communication and the discussion part of this. I  
10 think most patients who seek medical attention for a  
11 pain-related complaint, we all know, those of us who  
12 are clinicians, patients have tried over-the-counter  
13 solutions before they ever come through the office  
14 door. I worry about the fact that over-the-counter  
15 distribution could short circuit the communication  
16 process and short circuit all the benefits of that.  
17 So I wouldn't be a fan of that, and I don't consider  
18 offering to be the same thing as co-prescribing.

19 Then just lastly, while I think targeted  
20 prescribing for individuals who are high risk for  
21 overdose is important, I would change that wording to  
22 "targeting situations where there may be high risk of

1 overdose." That would take into account that new  
2 math and not just imply that the only person at risk  
3 is the patient because they have COPD or they have  
4 obstructive sleep apnea, because I'm not hearing a  
5 lot of discussion about that. I'm hearing about  
6 people getting into Mary Ellen's medicine cabinet  
7 because they know she stores three different kinds of  
8 opioids --

9 DR. McCANN: Now they do.

10 (Laughter.)

11 DR. ZACHAROFF: -- and getting their hands on  
12 them.

13 I think targeted prescribing with the mindset  
14 that you're really targeting whether the situation,  
15 where the person lives and the context of where they  
16 live, sets up a stage for a high-risk situation is  
17 much more deep than just using a simple tool to  
18 determine opioid-induced respiratory depression  
19 because that only applies to the patient. It doesn't  
20 apply to other members of the household, other  
21 members of the community, and other members of  
22 society.

1           Just lastly, a major barrier in this  
2 situation, in my mind, with this whole thing, is the  
3 fact that the person who's going to be receiving the  
4 education is not likely to be the person who's going  
5 to be using the naloxone. While I could teach a  
6 person to give an injection, the likelihood of that  
7 person actually giving the injection, if I determine  
8 them to be high risk, is extremely low.

9           I really struggle with the idea of how am I  
10 going to reach everybody else on the planet how to  
11 give an injection, and that leads me to think about  
12 innovative things, which maybe we'll talk about when  
13 we get to Item 3, like AED models for naloxone, where  
14 everybody knows there's a naloxone available in the  
15 area if I witness somebody having what I think is a  
16 respiratory arrest, but we'll get to that.

17           Those are my thoughts with respect to the  
18 burdens and barriers associated with this and my  
19 definition of what I consider to be targeted  
20 prescribing. Thank you.

21           DR. BROWN: Dr. Meisel?

22           DR. MEISEL: Steve Meisel. First of all,

1 well said, Dr. Zacharoff, excellent points. I have a  
2 hard time teasing apart questions 2, 4, and 5 on here  
3 because I think they interrelate. But let me point  
4 out a couple of additional barriers to this beyond  
5 what Dr. Zacharoff described.

6 First of all, if this becomes we're going to  
7 pick a target population, well, we don't really know  
8 what that target population is. That calculus is  
9 changing as research goes on. Dr. Oliva yesterday  
10 had a model that may be helpful here, but that's not  
11 going to be the same model that's going to apply to  
12 everybody.

13 So how do we apply a risk-benefit model?  
14 What do we define as high risk, moderate risk, low  
15 risk? That needs to be defined. If you put it into  
16 labeling we're going to co-prescribe for high risk  
17 and try to define what that is, that's a moving  
18 target and will be for some time.

19 What's going to happen here is a doc makes  
20 the decision that it's not a high-risk situation and  
21 doesn't co-prescribe, but then something happens, and  
22 then there's a lawsuit. And now somebody is going to

1 say, well, look at all the recommendations, and you  
2 co-prescribed it in a higher risk situation. Maybe  
3 it's in the package insert, maybe it's elsewhere, and  
4 maybe it's in a REMS, and, "You didn't do it, Doctor.  
5 Why not?"

6 That sets up a lot of failure and then a lot  
7 of over-prescribing and defensive medicine that comes  
8 along with that. And it's no longer high risk; it's  
9 darn near everybody. We have to, I think, account  
10 for that because this isn't really clear if A and B,  
11 then do C. This is a moving target.

12 Then what happens out of that is it becomes a  
13 rote exercise. It becomes part of an order set or an  
14 order panel or something. Every time you prescribe  
15 something, a naloxone dose comes along with it, that  
16 sort of thing. And what you lose is exactly what's  
17 going to be effective, and that's the conversation.

18 I think we heard many times yesterday and  
19 through some of the discussion today that the key  
20 here, particularly when dealing with patients as  
21 opposed to the public health piece, is the  
22 conversation. If it becomes rote, because now it's

1 required, we're going to do it for this population  
2 and we're going to build it into order sets, we lose  
3 the opportunity for that conversation. I think we  
4 have to be aware of that.

5 I go back to the notion that we want to be  
6 careful not to stifle innovation. I think Mary Ellen  
7 mentioned it before. It's so inefficient a model to  
8 saturate the community by this particular  
9 methodology, and I think we need to keep that in  
10 mind.

11 One other point is, Kevin, you mentioned the  
12 fact that people who you're going to be prescribing a  
13 narcotic to are not the persons to use the drug  
14 because if they get into trouble, they're not going  
15 to give it to themselves. It's got to be somebody  
16 else.

17 We also have a population of people who live  
18 alone. Well, now what? Somebody lives alone. Maybe  
19 they are high risk. Maybe we all agree they're high  
20 risk. Well, what do you do? Co-prescribing in that  
21 situation is not going to make a hill of beans of  
22 difference because they're living alone and there's

1 nobody there to give it to them.

2           So again, we have to think about more  
3 innovative models in those kinds of settings beyond  
4 this co-prescribing thing. I think the  
5 co-prescribing is a tactic that will get us to a  
6 very, very tiny advance in reducing narcotic overdose  
7 deaths.

8           DR. BROWN: Dr. Hernandez-Diaz?

9           DR. HERNANDEZ-DIAZ: I think when we  
10 mention -- one thing that comes to mind is cost, and  
11 I'm not sure how cost will move up or down with an  
12 increasing demand. It might go down. But leaving  
13 cost aside for a second, we discussed that to  
14 saturate the populations that most need to have  
15 naloxone available, we may need 25 to 30 million  
16 doses per year.

17           I was wondering if increasing the demand  
18 through the co-prescription might, at least short  
19 term, deplete the resources and maybe actually be  
20 negative to saturate the demand where it is most  
21 needed through this and is probably not the most  
22 efficient way to get it to the market. I don't know

1 if that's a concern, at least short term, for the  
2 production of enough doses to saturate the market as  
3 we want it to.

4 DR. BROWN: Dr. Amirshahi?

5 DR. AMIRSHAHI: I actually was going to bring  
6 up that point. One of the things that we've talked  
7 about today that's been a common theme is really  
8 saturating and flooding the market, which I think is  
9 a great idea to improve access.

10 However, one of the things I think that we  
11 really need to consider is the fact that we may not  
12 be able to do so. If you look at prescription drug  
13 shortage trends in the past decade or so, you'll find  
14 that naloxone has been impacted by multiple, multiple  
15 long-term shortages during the course of the past two  
16 decades.

17 That being said, when we're thinking about  
18 implementing these strategies, we have to think about  
19 how we are going to have capacity to saturate the  
20 market. We know that there's not a lot of redundancy  
21 in a lot of pharmaceutical productions, and we know  
22 that generic injectable drugs are disproportionately

1 impacted by drug shortages.

2 I think a lot of these ideas that we've  
3 thrown around today and the past couple of days have  
4 really been great for improving naloxone access. We  
5 have to think about how we're going to do that with  
6 regard to manufacturing capacity, and that's  
7 something that we're going to have to engage industry  
8 in as well as the FDA.

9 DR. BROWN: Dr. Dasgupta?

10 DR. DASGUPTA: In 2018, we can't have a  
11 conversation about drugs in America without  
12 addressing race, and what we have seen in the slides  
13 that Eliza presented, the faces there, and the data  
14 that have been presented in the community programs is  
15 that the community programs are serving a large  
16 minority community.

17 We also know, as been well established, that  
18 minorities in the healthcare system, when they have  
19 the same pain conditions, are less likely to get  
20 opioid treatment. So what we need is parity in  
21 naloxone as well.

22 Right now, we have two products that are

1 being considered for co-prescribing, which have  
2 specific label language that enables community use.  
3 The liquid injectable used in the community programs  
4 does not because it's an evolving labeling thing.

5           If we don't have parity in the labels between  
6 these formulations, we are perpetuating a form of  
7 institutionalized racism. I think an action that can  
8 be taken immediately, and I think FDA has the  
9 authority to initiate it, is to update the injectable  
10 label to include, specifically and explicitly, that  
11 community-based distribution is allowed.

12           DR. BROWN: I'm sorry. What was  
13 the -- community distribution is?

14           DR. DASGUPTA: Is an allowed use of that  
15 medication, the same as the wording in the two  
16 branded labels.

17           DR. BROWN: Dr. Bateman?

18           DR. BATEMAN: I guess I want to speak out or  
19 speak against the notion of universal co-prescribing,  
20 in addition to the economic consequences that we've  
21 talked about and some of the supply issues and the  
22 way that practice may redirect supply away from the

1 community-based programs that really need the  
2 medication most. I'm also a little bit concerned  
3 about the alarm fatigue that might along with that  
4 type of a recommendation.

5 I remember as an intern writing medications,  
6 and every other medication you'd write into the EMR,  
7 there'd be a popup that warned about a drug-drug  
8 interaction, or about an adverse effect of a drug.

9 Just clicking through those, I think if every  
10 time you're prescribed an opioid, there was a  
11 recommendation that popped up to co-prescribe  
12 naloxone, and you're writing a prescription for  
13 low-dose oxycodone for a short supply to a patient  
14 who had some type of an injury, very quickly you  
15 would start to ignore that recommendation and perhaps  
16 not think about prescribing naloxone when you had a  
17 patient who really was at risk, who was on high doses  
18 and co-prescribed benzodiazepines.

19 I think if we're going to think about  
20 co-prescribing, it really should be targeted to those  
21 who are going to benefit from it the most.

22 DR. BROWN: Dr. Ballou?

1 DR. BALLOU: Yes. I just wanted to echo some  
2 of the comments that have already been made,  
3 certainly with Ms. Numann in talking about how  
4 language matters with patients, as well as Dr. Besco  
5 and Dr. Meisel about OTC status.

6 I think the hope is that -- I'm speaking as a  
7 pharmacist -- when you all co-prescribe, the hope is  
8 that it then is co-dispensed; as our debate  
9 yesterday, whether it's 10 percent of prescriptions  
10 that eventually get dispensed, or 70, or somewhere in  
11 between.

12 Just thinking about recent drugs that have  
13 come to the market such as the Shingrix, the new  
14 shingle vaccine, for example, became a huge shortage  
15 because it was marketed out to the public  
16 drastically.

17 Now the pharmacies can't get it and can't  
18 give it, cannot provide the second dose for those who  
19 got a first or even a first for those who have none;  
20 just thinking about things like that and if then the  
21 naloxone products are no longer available, and the  
22 level of trust that a patient has in their pharmacist

1 to provide them with the drugs that they need,  
2 particularly with something that is lifesaving, and  
3 that not being available for patients, if we do flood  
4 the market in this way, in this co-prescribing model.

5           Additionally, a second point -- and not to be  
6 bashing any particular industry, if you will -- we  
7 are in a period now of time where insurance often  
8 dictates healthcare instead of the healthcare  
9 providers. I worry about co-pays being a barrier.  
10 We've talked about cost a lot; prior authorizations  
11 being a barrier as well for our patients. And those  
12 are things that I think FDA can regulate to help  
13 prevent those issues of -- again, increasing access  
14 through these means of going through the healthcare  
15 system that we've discussed are important as well.

16           I just wanted to raise those two points  
17 related to shortages that has been already mentioned,  
18 as well as insurance and cost access issues as well.

19           DR. BROWN: Dr. Macher?

20           DR. MACHER: I just want to briefly echo some  
21 of the comments made by Drs. Hernandez-Diaz and  
22 Amirshahi [indiscernible].

1           First, I think at least in the short run, any  
2 solution that provides naloxone to all patients is a  
3 theoretical ideal. Instead, we need to look at  
4 feasible alternatives, at least in the short run.  
5 There's simply not going to be the supply there that  
6 you'll need in order to do a blanket coverage.

7           The discussion of that, if this is a public  
8 crisis, is going to require that you put the right  
9 amount to those patient populations that are at the  
10 most high-risk. And it seems, as far as I've seen,  
11 evidence-based policymaking has some data out there  
12 with which we know what high-risk populations are,  
13 whether they're concurrently prescribed opioids,  
14 whether they're engagement pain management, if they  
15 have a history of substance abuse disorders, if they  
16 have mental health disorder, if they have some other  
17 medical issues. So there's a lot of data out there  
18 with which FDA can make these hard and fast choices.

19           Finally, any change to that is going to take  
20 some time. The industry has indicated, yes, they're  
21 going to double capacity, triple capacity, but that  
22 takes time. Narcan has indicated it's doubling

1 capacity in 2019 and up to 10 million or 20 million  
2 devices in 2020. Generics, facilitated by the FDA,  
3 will take time. Any procurement of large purchases  
4 by the government will take time. Any effort by FDA  
5 to promote OTC will take time.

6 Right now in the short run, I think the best  
7 solution and the only solution is targeted  
8 prescribing for individuals that are high risk. Then  
9 hopefully, through the competitive forces if we  
10 believe in markets, which I certainly do, the market  
11 will work its way, and more generics will find  
12 themselves -- more individual companies will put  
13 forth an effort to increase the supply into this  
14 industry.

15 If we don't, I think, realize the short run  
16 implications of non-targeting, we run a dangerous  
17 precedent.

18 To Dr. Hernandez-Diaz, I would agree  
19 completely with what she said about the drugs going  
20 to the wrong individuals, and therefore not allowing  
21 what I think is a great approach, community-based  
22 approaches, to do their heroic jobs.

1 DR. BROWN: I think one of the most important  
2 burdens that we've heard about is capacity, and I  
3 cannot imagine a model where the current capacity  
4 would take care of the saturation model that we have  
5 heard is successful in saving the number of Americans  
6 that we have.

7 The saturation model that we have now is that  
8 we're being saturated with fentanyl and white and  
9 black tar heroin from Mexico, and we have not  
10 demonstrated any capacity whatsoever to reduce that.  
11 We must figure out another way to rapidly increase  
12 the capacity to produce naloxone. I simply do not  
13 believe that industry has that -- although that is  
14 the American model, that they have the wherewithal to  
15 do that. There must be some other way to do this.

16 Someone mentioned the childhood vaccine model  
17 this morning, and I think that that has to be invoked  
18 on an emergency basis to get us enough product to  
19 attenuate the number of deaths that we're having.

20 Ms. Robotti?

21 MS. ROBOTTI: Hi. Suzanne Robotti. On the  
22 concept of getting naloxone into every medicine

1 cabinet, we've been told several times that there are  
2 no bad side effects to naloxone and that it can be  
3 used safely by anybody at any time. But when I go  
4 into websites and look to see what are the side  
5 effects of naloxone, there are side effects, and some  
6 can be significant.

7 I get concerned if we put it in every cabinet  
8 like ipecac, you can't overdose on that because it  
9 makes you puke, but this you could. What happens if  
10 a child in a home finds it and uses it? What if an  
11 anxious bystander gives 3 doses when 1 would have  
12 been fine? All I heard earlier was that's not going  
13 to happen or it wouldn't cause any problems, but  
14 somehow I feel it would.

15 Also, to remember the vast majority of people  
16 using opioids never overdose, never come near it. So  
17 co-prescribing would create a huge amount of wasted  
18 naloxone and increase costs. I push for require the  
19 offer of naloxone in an opt-in kind of program, but  
20 definitely no co-prescribing requirement.

21 DR. BROWN: Dr. Krebs?

22 DR. KREBS: Just going back to barriers, I

1 previously said it seemed like from what we heard  
2 that the hypothetical benefits of co-prescribing are  
3 mostly about the education that is received. So I  
4 think the relevant barriers there are really the time  
5 of the prescriber.

6 As was mentioned, primary care has a lot to  
7 do, and there aren't enough of us. I don't think  
8 there are enough pharmacists to automatically take  
9 over for all those challenges, either. Ultimately,  
10 primary care prescribes probably more than 90 percent  
11 of the opioids, so would be responsible for 90  
12 percent of these co-prescriptions.

13 We currently have a situation where many  
14 policymakers think the main answer to any problem  
15 with opioid safety is make another requirement for  
16 the prescriber. So if I prescribe opioids, I'm  
17 required to check the PMP, get a urine drug screen,  
18 get consent, or have my patients sign an agreement.  
19 I have multiple documentation requirements.

20 The average primary care visit is 18 minutes,  
21 so when is that happening? Did I assess the pain?  
22 How did I do that also in that time? Now what we've

1 heard about how long it takes to do the naloxone  
2 education, everyone has said 8 to 10 minutes, so  
3 where's that coming from?

4 Also, aren't I supposed to be assessing  
5 whether my patient has depression, drug use, is  
6 feeling suicidal, has intimate partner violence,  
7 might be at risk of cardiovascular disease, is  
8 overweight? When are these things happening?

9 We're going to have this targeting occurring  
10 in primary care. We have a resource issue there,  
11 too. I agree, universal is not practical, but if  
12 we're targeting, are we relying on primary care to do  
13 a risk assessment, whether it's a computerized risk  
14 assessment, or a psychosocial history, or any of  
15 those things, again, it's yet another thing, yet  
16 another barrier.

17 Like I said before, people who know they're  
18 at risk, probably those are the people who could most  
19 benefit from naloxone. So let's let self-selection  
20 be what targets the naloxone.

21 DR. BROWN: Dr. Besco?

22 DR. BESCO: Kelly Besco. Just revisiting the

1 theme of drug shortages, even if we could increase  
2 the capacity of our manufacturers to make enough  
3 naloxone to saturate our entire country, it will go  
4 on shortage eventually.

5 Just one thought I have is we have a chemical  
6 cache of antibiotics, vaccines, antidotes, other  
7 antiviral medications. If this is a big enough  
8 crisis and we need to keep naloxone in the pipeline,  
9 should we consider a national cache of naloxone for  
10 instances where we do have an overwhelming depletion  
11 of supply? Just one thought.

12 DR. BROWN: Dr. Gerhard?

13 DR. GERHARD: First, a brief comment about  
14 the co-prescribing in general. I think as I said  
15 before, I believe it's an extremely inefficient way  
16 to get naloxone in the community. It probably  
17 targets exactly opposite to the way you'd want to  
18 target it. It would be distributed to people with  
19 the best insurance that probably would be at lowest  
20 risk for actual witnessing an overdose or  
21 experiencing an overdose.

22 So I think it's an extremely inefficient way

1 that at the same time really would just generate a  
2 windfall to industry because prices wouldn't be  
3 affected in any meaningful way, maybe over a really  
4 longer time frames, but certainly not in the  
5 immediate future.

6           Again, I believe we need a different level of  
7 response to a public health crisis. That means not  
8 relying on market forces and slow change in  
9 adaptation strategies to slowly increase production  
10 capacity. It would mean some kind of coordinated  
11 government intervention to secure access. And  
12 obviously, it can't be done immediately but on a  
13 shorter time frame to assure the needed supply in  
14 naloxone.

15           If there were something like an anthrax  
16 outbreak, nobody would suggest that we should let  
17 market forces address this issue and find a cure or  
18 find capacity to produce vaccines in time. It just  
19 wouldn't occur to everybody. So I think here we need  
20 to recognize what we're facing and what the  
21 appropriate response is. I don't think the normal  
22 channels are appropriate for that response.

1 DR. BROWN: Dr. Pisarik?

2 DR. PISARIK: Paul Pisarik. I have a  
3 question for the FDA. Somebody else mentioned this,  
4 is that we have two issues here. We have an issue of  
5 illegal substances being overdosed on and legal  
6 substances being overdosed on.

7 My question is, there's obviously a crisis in  
8 the illegal substances being overdosed on. What  
9 about the legal substances? Is there a temporal  
10 trend that's showing us that that's also increasing a  
11 lot or a little bit?

12 DR. STAFFA: This is Judy Staffa, and I think  
13 some of Dr. Faul's comments address this. I think  
14 from the latest data from CDC, we are still slightly  
15 increasing with regard to prescription opioid deaths,  
16 but the challenging part is that people who die from  
17 overdoses often don't die from one substance.  
18 There's often multiple substances involved in deaths.

19 So I'm not sure that we can cleanly separate  
20 it out that easily. I think we have to look at it  
21 overall in terms of opioids in general because  
22 oftentimes, both may be onboard.

1 DR. PISARIK: Then another comment, if we  
2 co-prescribe with narcotics, unless the cost of the  
3 naloxone is reasonable, it's going to be really  
4 expensive, number one. Number two, we have no idea  
5 what the efficacy is of co-prescribing naloxone with  
6 prescribed opioids.

7 What is the cost effectiveness per life saved  
8 if we do this? I don't know if we have any data on  
9 that at all.

10 DR. STAFFA: This is Judy Staffa again. I  
11 think when we went to the literature and found what  
12 was there, we've tried to invite a lot of our guest  
13 speakers to be talking about all the different ways  
14 to get naloxone out there and what's known. So what  
15 you've seen and what was in our background packet is  
16 what we know. And I agree with you; we haven't seen  
17 a lot of data to say how effective it is. It doesn't  
18 mean it isn't effective. We just haven't seen data.

19 DR. PISARIK: I'm just concerned about the  
20 cost. One of the downstream side effects of  
21 co-prescribing naloxone along with opioids, however  
22 it's done, is that healthcare costs are going to go

1 up. And then employers can't afford insurance;  
2 employees can't afford it. So the downstream side is  
3 that more people might be hurt overall if naloxone is  
4 co-prescribed with narcotics than would be helped by  
5 having lives saved by naloxone being co-prescribed.

6 DR. BROWN: Dr. Hernandez-Diaz, and this is  
7 going to be our last comment for this section.

8 DR. HERNANDEZ-DIAZ: Very briefly just to  
9 highlight that when we say prescription opioid  
10 overdoses, I think that the data included opioids  
11 that are given by prescription. That doesn't mean  
12 that they were used by the person that was given the  
13 prescription for the pain, but could happen in the  
14 context of a party and young people having opioids,  
15 and one of them dying of an overdose. That would be  
16 counted as prescription opioid, but it wasn't in the  
17 context of a prescription for the pain.

18 DR. BROWN: Number 2 is discuss how these  
19 burdens and barriers associated with co-prescribing  
20 and how these burdens may affect the implementation  
21 of co-prescription, and this is what I think I've  
22 heard.

1           The major burden to co-prescribing is cost.  
2           That includes cost to the patient certainly but also  
3           the healthcare system and secondary costs. Secondary  
4           burdens are also failure to address the larger public  
5           health issue of increasing illicit opioid deaths and  
6           the stigma of revealing a need for naloxone to a  
7           healthcare provider.

8           If we try to target a high-risk population,  
9           that is a problem because we don't know what is high  
10          risk. We have not identified what a high-risk  
11          population is and what it is not. We may need to  
12          develop a separate situational targeting model.  
13          Offering naloxone rather than co-prescribing naloxone  
14          may be more important.

15          Shortages are a problem. We will need to  
16          expand capacity dramatically to meet the needs of any  
17          expansion in the distribution of naloxone.

18          How can the FDA affect capacity? What  
19          happens when we need influenza vaccine? This will  
20          likely not be something that industry will be able to  
21          keep up with and will require the intervention of the  
22          federal government, FDA, and other aspects of HHS.

1 Any other comments?

2 DR. DASGUPTA: And the parity between the  
3 branded and the generic -- I'm sorry.

4 DR. BROWN: I'm sorry?

5 DR. DASGUPTA: This is Dr. Dasgupta. The  
6 parity between the branded and the generic in terms  
7 of community use.

8 DR. BROWN: I will include that.

9 DR. DASGUPTA: Thank you.

10 DR. BROWN: Let's go on to discussion  
11 question number 3, which I'll read through. Because  
12 of the significant costs for patients and the  
13 healthcare system associated with increasing naloxone  
14 availability, prioritization of strategies will  
15 likely be needed.

16 Discuss in terms of available data on  
17 effectiveness and cost. Which, if any, of the  
18 following approaches may be beneficial for public  
19 health? A, relying on alternative approaches for  
20 increasing naloxone availability such as  
21 community-based distribution programs or statewide  
22 standing orders; or B, limiting co-prescribing or

1 targeted prescribing to certain populations that may  
2 potentially benefit the most from having naloxone  
3 available such as those at highest risk for overdose  
4 or death due to overdose. If so, identify these  
5 populations along with the evidence supporting this  
6 benefit.

7 Anybody? Dr. Ciccarone?

8 DR. CICCARONE: Dan Ciccarone, UCSF. Not to  
9 repeat all of what I said earlier, the fentanyl  
10 epidemic is the gamechanger here. It's increasingly  
11 illicit. It's increasingly street-based. It's  
12 increasingly an overdose problem among non-patients.  
13 Therefore, community-based programs are the current  
14 best solution, the most evidence-based, and the most  
15 cost-effective solution. We need a saturation model,  
16 we need generics, we need over the counter for that.

17 If we decide to move forward with  
18 co-prescribing, the best evidence is for high-risk  
19 populations. That would include people with known  
20 substance use disorders. I would suggest that the  
21 best single population to target would be folks who  
22 have been brought into clinic, emergency room,

1 hospital situations who have had an overdose.

2           Anyone with a history of an opioid-like  
3 overdose should be co-prescribed, and that would  
4 include someone who is a patient on chronic pain who  
5 has overdosed on their meds. People with  
6 comorbidities, that would include other illnesses  
7 that put them at risk for CMS or respiratory  
8 problems, and also, comorbid prescriptions including  
9 benzodiazepines. That way, we can be more cost  
10 effective with the co-prescribing because this is the  
11 population that's at the highest risk within the  
12 clinic.

13           DR. BROWN: Dr. Zacharoff?

14           DR. ZACHAROFF: Kevin Zacharoff. I briefly  
15 mentioned this before, and this is in line with  
16 thinking outside the box, innovative kinds of  
17 solutions with the idea of controlling cost. Maybe  
18 there's an AED model, which can be utilized. Maybe  
19 having a naloxone that's available to be  
20 administered, available to a thousand people is wiser  
21 than giving a thousand naloxones to a thousand  
22 people.

1           When AEDs first became popular, they were  
2 pretty darn expensive, and they were very difficult  
3 to get. Living in a community at that time where we  
4 had our own little police force, we had to as a  
5 community chip in to buy AEDs so all the law  
6 enforcement officials in our community could have one  
7 if they needed one. So just a thought; maybe that's  
8 an outside-the-box kind of thing that kind of tempers  
9 it.

10           There's no question that what Dr. Dasgupta  
11 mentioned, I couldn't agree more. The least  
12 expensive way to deliver the medication that we saw  
13 presented to us multiple times definitely seems like  
14 something we really need to consider.

15           Then maybe lastly, maybe there's some kind of  
16 situation where we could have people who don't have  
17 third-party insurance or government-supplied  
18 insurance to get vouchers.

19           Dr. Green isn't with us anymore. I've done a  
20 lot of work with her over the years, and she's done a  
21 lot of work with the homeless patient population.  
22 And homeless patients are not likely to be able to go

1 into a pharmacy and buy anything off the shelf, over  
2 the counter, et cetera, et cetera. But maybe giving  
3 them a voucher where they could go in, no questions  
4 asked, and get a naloxone is something that could be  
5 done.

6 Those are just some ideas that I've been  
7 thinking about over the course of these two days that  
8 are maybe a little bit of a way to temper the cost  
9 because certainly if there's 134 million  
10 prescriptions written or 200 million prescriptions  
11 for an opioid written every year in this country,  
12 there's no way we're going to supply those kinds of  
13 naloxones to people. Thank you.

14 DR. BROWN: Dr. Bateman?

15 DR. BATEMAN: I think while I agree that the  
16 greatest gains are to be obtained in the population  
17 that's using fentanyl, that's using heroin, that's  
18 using opioids illicitly, there is a robust body of  
19 epidemiologic literature identifying risk factors for  
20 overdose amongst those that are dispensed  
21 prescription opioids, so higher than 50 milligrams of  
22 morphine equivalent, co-prescribed benzodiazepines,

1 having psychiatric disorders, having history of  
2 overdose.

3           These are patients who are interacting with  
4 physicians who are able to identify those risk  
5 factors, so recommending co-prescribing in those  
6 circumstances, really targeted co-prescribing for  
7 patients that have quite a high absolute risk of  
8 overdose, makes a whole lot of sense to me, and I  
9 think would be cost effective.

10           DR. BROWN: Steve? Dr. Meisel?

11           DR. MEISEL: Steve Meisel. It just occurred  
12 to me as Dr. Bateman was speaking, the system that we  
13 heard -- I can't remember their name -- that  
14 presented this online modeling of risk factors, that  
15 may or may not be a perfect model. But if one could  
16 build that into the electronic health record and as  
17 you're prescribing, you're told that this is a  
18 high-risk patient, that might ease some of that  
19 decision-making and make it more standardized.

20           That might be something to consider, whether  
21 it's from that vendor, or independently, or whatever,  
22 that's something that could overcome a barrier for

1 identification that's front and center.

2 Another caution I would have about the AED  
3 approach, I was thinking about that as well, I think  
4 we ought to be thinking real hard about doing  
5 something like that. There's an AED over here at the  
6 front desk in this building. Took a while to find  
7 it, but there is one here. But the likelihood of  
8 somebody OD'ing on narcotics here in the Great Room  
9 is pretty slim. They're more likely to overdose in  
10 their apartment, or under the bridge, or someplace  
11 like that where access to an AED is pretty limited.

12 The location, at least for the illicit  
13 overdoses, is unlikely to be in places where AEDs are  
14 located, and the accidental overdoses, they're  
15 probably also not going to happen at the airport.  
16 They're probably still going to be at home and places  
17 like that where AEDs aren't. But I think it's a  
18 model that we ought to be thinking about pursuing to  
19 see what can come of that, but I worry that it may be  
20 one of those false hopes.

21 DR. BROWN: Oh my, who else would like to  
22 speak? Dr. Garcia-Bunuel?

1 DR. GARCIA-BUNUEL: I know Dr. Hertz warned  
2 us about not coming up with simple solutions, and I  
3 completely agree. These are very, very complex  
4 situations. But having said that, I'm still caught  
5 by Dr. Dasgupta's comment about does the FDA have the  
6 ability to clarify labeling language for generics  
7 that could help us. Though maybe simple in its  
8 construct and clearly not the end-all, but is that  
9 something as an committee and obviously the  
10 partnership with the agency that we could support in  
11 order to then help and leverage that?

12 Once again, seeing examples of how other  
13 organizations, other communities could potentially  
14 benefit from that, there might be a multiplier there,  
15 understanding that there could be either lack of  
16 supply, depending on how industry responds to that,  
17 if that would be something that would be potentially  
18 be a gamechanger. But I'd still like to put that on  
19 the table as a simple solution for our very complex  
20 problem.

21 DR. BROWN: Dr. Ciccarone?

22 DR. CICCARONE: Dan Ciccarone, UCSF. I just

1 want to agree with this notion on parity of labeling  
2 to allow the much lower cost injectable to have the  
3 same label as the fancier intranasal products.

4 I also want to remind us, we've heard several  
5 times the Surgeon General Jerome Adams telling us  
6 that naloxone is one of our top ways of addressing  
7 the overdose crisis in America. He suggests greater  
8 access, much greater access, which would include  
9 family, friends, neighbors, his language, of folks  
10 who are using opioids and illicit opioids.

11 In order to get that, it's an  
12 over-the-counter product. In order for the family  
13 members -- family members are not going to go to the  
14 doctor and say, "You know, my nephew has" -- those  
15 conversations aren't happening. Maybe they would  
16 talk to the pharmacist and get it; ideally, over the  
17 counter.

18 Community-based programs, if the  
19 over-the-counter product is cheap enough, will be  
20 able to access it at a better price point. Australia  
21 and Canada have both moved to over-the-counter  
22 naloxone. If they can do it, we can do it.

1           The FDA commissioner can initiate the  
2 over-the-counter switch for naloxone. They have the  
3 authority to exempt drugs from the Rx requirements  
4 for the protection of public health. We're in a  
5 public health crisis, and we can move forward on  
6 this.

7           DR. BROWN: Dr. Shoben?

8           DR. SHOBEN: I'm just re-reading the question  
9 here, and I'm struck by the discussion in terms of  
10 available data on effectiveness and cost. We don't  
11 really have great data in order to compare these  
12 different approaches.

13           As a statistician, I really wish you could  
14 have better data, and I don't think that necessarily  
15 precludes making decisions, but we don't really have  
16 the data on how effective are some of these  
17 community-based programs. We have a lot of anecdotes  
18 and some suggestions that they really work. I'm not  
19 trying to argue that they don't work. I just don't  
20 think that we necessarily know is this  
21 community-based program more effective than  
22 co-prescribing would be.

1 I think we can speculate, and there are  
2 certainly very smart people who have speculated, but  
3 we don't really have the data in order to answer the  
4 question in terms of available data on effectiveness  
5 and cost.

6 DR. BROWN: Dr. Krebs?

7 DR. KREBS: Just a comment on that, the real  
8 outcome we really want to hear about is mortality,  
9 but there is this interim outcome, which is naloxone  
10 being administered. What I heard is that when you  
11 prescribe it to patients, it doesn't get  
12 administered. It just sits there in somebody's  
13 medicine cabinet. That seemed to be the case,  
14 whereas these community organizations are clearly  
15 getting the drug administered. It's not the perfect  
16 outcome, but it is an outcome.

17 DR. BROWN: If we are thinking about how we  
18 could do an expansion of naloxone in a cost-effective  
19 way, I think that Dr. Ciccarone is moving in the  
20 direction that I would move in suggesting that the  
21 commissioner of the FDA likely at this point has the  
22 capacity to move OTC naloxone ahead much more rapidly

1 than it has been moved ahead in the past.

2 We've been talking about moving to OTC  
3 naloxone for about at least 2011. I think it's time  
4 to do that. And what I fear is that moving OTC ahead  
5 will be done in the same way that every other drug is  
6 considered within the FDA, and this is an emergency.  
7 So I'm not certain that that's really something that  
8 needs to happen right now.

9 The second thing I would say is that the  
10 United States, I believe through the FDA, carries a  
11 strategic drug pharmacopeia, which allows for  
12 emergencies. I'm not certain of all the drugs that  
13 are in there. I believe morphine is in there, maybe  
14 Cipro, but if naloxone is not in there, it should be.

15 If it was and if the federal government was  
16 purchasing naloxone at scale, then the cost could be  
17 lowered, or they could use the U.S. code that was  
18 suggested this morning, 28 Code 1498, to take the  
19 patent and negotiate a lower cost. Those drugs could  
20 be distributed at a lower cost to the community  
21 programs.

22 Yes, ma'am?

1 DR. MAHONEY: This is Karen Mahoney,  
2 nonprescription. I'd just like to address the idea  
3 that the FDA process for a nonprescription form of  
4 naloxone would go along at the same pace as the  
5 development progress for other types of drugs. So  
6 that's not the case. That's not what's happening  
7 now. We're doing everything we can.

8 Because we have performed the label  
9 comprehension study, the development program for a  
10 nonprescription form of naloxone would be much  
11 shorter, and also, when an application is submitted,  
12 it will be considered very quickly. I just want to  
13 clarify that point.

14 Separately, I just want to clarify one thing  
15 that's a bit unrelated, but there's been talk of an  
16 ipecac model. The idea would probably still be the  
17 same, but I just want to clarify that the American  
18 Academy of Pediatrics and poison control centers  
19 recommend against stocking ipecac in your medicine  
20 cabinets and against using it immediately in the case  
21 of a poisoning. I just didn't want that to get out  
22 there that ipecac is recommended all the time.

1 DR. BROWN: Thank you. I know you're doing  
2 everything that you possibly can to move this forward  
3 in the usual way. I think that what we're saying is  
4 that this is a highly unusual time in the history of  
5 the United States and that we may have to move beyond  
6 the routine management of this. But I'm not in any  
7 way suggesting that individuals within the agency are  
8 not doing everything they can to solve this problem.

9 DR. MAHONEY: I'm in complete agreement that  
10 we want to move as quickly as we can, and I just want  
11 to clarify that nothing is off the table in terms of  
12 trying to use whatever authorities we have.

13 DR. BROWN: Thank you. Dr. Dasgupta.

14 DR. DASGUPTA: I'll keep it brief. I think  
15 having an impact assessment is going to be critical  
16 before we make any large-scale policy recommendation  
17 that would introduce a very large new player into a  
18 small market that's dependent on controlled  
19 substances as a precursor to make naloxone.

20 What had happened during the shortages that  
21 were alluded to with naloxone over the last decade,  
22 when there were other shortages, the big

1 institutional purchasers like health systems, VA, and  
2 other places, were able to find their suppliers to  
3 get more naloxone. But it was the community programs  
4 that had the least clout, were the smallest buyers,  
5 and were the ones who were squeezed the most. And  
6 people died during those shortages because the  
7 smaller programs could not have access to naloxone.

8           If we make any sort of recommendation that  
9 causes a perturbation to the market, I think there  
10 needs to be a formal impact assessment that includes  
11 all of the community-based programs to understand  
12 what could happen to their supply, and that needs to  
13 be an ongoing process throughout any rollout to  
14 continue bringing them into the table. Because if we  
15 do anything to impact their availability of naloxone,  
16 then we are doing more harm than good.

17           DR. BROWN: Point well taken.

18           Thus far, we have spoken to a lot of  
19 different ways for getting naloxone into the  
20 environs. Folks have spoken about identifying  
21 high-risk populations as a possibility that would  
22 reduce the amount of naloxone that was required, but

1 we've heard also evidence that identifying the  
2 population is very difficult.

3 We've heard about using the AED model to  
4 distribute naloxone geographically rather than  
5 distributing it to individuals. We've heard about  
6 the use of voucher programs for patients or subjects  
7 that don't have any fixed address, and then we  
8 mentioned bulk buying of supplies of IV naloxone  
9 cheaply from major distributors by the federal  
10 government, either using the U.S. code to expand  
11 capacity or not.

12 We also talked about moving the agency to  
13 increase the likelihood that OTC naloxone would have  
14 an availability in the shortest possible time,  
15 keeping in mind that if we change the market, that we  
16 have to be concerned about who is getting the  
17 naloxone that they need. We need to examine what the  
18 possibilities are prior to the time that we make  
19 major moves.

20 Is this a reasonable time to take a break?  
21 Why don't we take a break for about 15 minutes and  
22 come back and begin to talk about question number 4.

1 We'll meet back here at about 20 till.

2 (Whereupon, at 2:22 p.m., a recess was  
3 taken.)

4 DR. BROWN: We can re-gather and begin our  
5 discussion of question number 4. I'm going to read  
6 the question. Discuss any potential unintended  
7 consequences that should be considered if naloxone is  
8 co-prescribed to all or some patients prescribed  
9 opioids and what steps can be taken to mitigate them.

10 Is that a reasonable question that everyone  
11 can understand and respond to?

12 DR. HERTZ: Hi. This is Sharon. I just want  
13 to say I don't want to quell discussion, but I think  
14 we definitely covered some of this, so there can be  
15 reference back as well.

16 DR. BROWN: Dr. Besco?

17 DR. BESCO: Kelly Besco. One thing I don't  
18 think we've touched on in terms of consequences is  
19 what the impact of community access to naloxone means  
20 from an inpatient acute care setting.

21 I'm from Ohio where, quite frankly, we no  
22 longer have an epidemic, but we have an opioid

1 plague. I'm well aware of stories that happen in our  
2 hospitals where patients bring in their illicit  
3 substances and unfortunately overdose in the hospital  
4 and need to be rescued.

5 Now that we have standing-order programs in  
6 Ohio, we've had reports of patients' visitors coming  
7 in, engaging in use of illicit substances with the  
8 patient and the visitor, and then the visitor  
9 reversing a patient's opioid-induced respiratory  
10 depression with their own supply of naloxone. Then  
11 that goes unreported to the acute care team.

12 While I don't have a good mitigation strategy  
13 for this other than potentially developing some  
14 screening protocols for visitors -- but then again,  
15 acute care facilities are very sensitive to patients'  
16 rights, ethics, and patient satisfaction  
17 scores -- that may be something agencies need to  
18 consider as well as increased access permeates across  
19 the country.

20 DR. BROWN: Dr. Krebs?

21 DR. KREBS: This is a clarification  
22 personally, a comment. The question is about

1 naloxone co-prescribing, and clearly, naloxone is  
2 currently labeled that it can be prescribed to anyone  
3 who might be at risk.

4 So it's not about the naloxone label. I  
5 think the question here is about whether the opioid  
6 label ought to be changed to encourage  
7 co-prescribing.

8 This question, is it about potential  
9 unintended consequences of naloxone prescribing, or  
10 is it about unintended consequences of labeling  
11 opioids to recommend naloxone co-prescribing?

12 DR. HERTZ: What we're trying to ask is if  
13 the labeling on opioids was changed to recommend  
14 co-prescribing to all or some, what are the  
15 unintended consequences there?

16 DR. KREBS: Excellent. So that's what I'll  
17 address is the labeling of opioids. I already  
18 co-prescribe naloxone sometimes, but that's an  
19 on-label prescription decision for naloxone. This is  
20 about opioids.

21 I think if this is part of the opioid label,  
22 an unintended consequence is that becomes the

1 standard of care that all of us primary care docs are  
2 supposed to uphold. And if it's based on risk,  
3 again, that requirement that we're assessing risk,  
4 we're assessing risk accurately, and that we're going  
5 to be held to some sort of standard of prescribing  
6 it, I think that could be a problem in all the ways  
7 we've already talked about.

8 DR. BROWN: Dr. Meisel?

9 DR. MEISEL: Steve Meisel. This is an  
10 unintended consequence or risk or whatever regardless  
11 of whether it's co-prescribed or the community-based  
12 distribution or over-the-counter. And I think the  
13 agency and all of us probably need to be prepared  
14 with our response to this because just like there is  
15 a segment of the populace that says that we should  
16 not be distributing birth control in high school  
17 because it's going to encourage sex, or HPV vaccine  
18 because it's going to encourage unprotected sex, that  
19 sort of thing, there will be people that will say  
20 don't give out or make readily available antidotes to  
21 narcotics because that will just encourage the use of  
22 illicit drugs.

1           Now, I don't personally believe that model.  
2           I think we ought to be making this available, but I  
3           believe that there's going to be a significant  
4           segment of the political establishment and others who  
5           will take that position and lobby in that space. I  
6           think we need to be prepared and the agency needs to  
7           be prepared to address those kinds of questions head  
8           on.

9           DR. BROWN: Dr. Amirshahi?

10          DR. AMIRSHAHI: I just actually have two  
11          brief comments. Number one, as an emergency  
12          physician, I administer naloxone very regularly, and  
13          I have seen firsthand the effects of precipitated  
14          withdrawal. Not to discourage people from  
15          administering naloxone, definitely not, but at the  
16          same time, I think that we need to address this and  
17          maybe provide some education for bystanders that  
18          patients may, in fact, become violent; just something  
19          to consider for bystander safety.

20          The second comment I had relates to  
21          medication shortages once again. We know from prior  
22          history with regard to medication shortages that when

1       you do have a drug shortage, what can happen is you  
2       develop a gray market, which drives costs up. So one  
3       of the unintended consequences could potentially be  
4       that this drives up the cost of naloxone, which could  
5       particularly impact the community programs, so just  
6       one other thing to be mindful of. Thank you.

7               DR. BROWN: Anyone else?

8               (No response.)

9               DR. BROWN: This is what I have. The  
10       unintended consequences of co-prescribing for all  
11       include the cost to the healthcare system and the  
12       effect that could have on prescribing. This cost  
13       could affect the cost of other drugs as capacity is  
14       transferred to naloxone.

15              The standard of care could be changed by  
16       changing the labeling, increasing the liability risk  
17       to clinicians. Some will take the position that  
18       co-prescribing extends the risk of addiction to a  
19       larger population. In addition, we heard that we may  
20       need to educate the population about the acute  
21       effects of opioid withdrawal from the administration  
22       of naloxone.

1           Can we move to our vote question, number 5?

2           I'm going to read the question.

3           Would labeling language that recommends  
4           co-prescription of naloxone, for all or some patients  
5           prescribed opioids or more targeted prescribing for  
6           patients otherwise at high risk for death from opioid  
7           overdose, be an effective method for expanding access  
8           to naloxone and improving public health? If so,  
9           which populations do you believe should be included  
10          in such labeling?

11          Is that clear? Dr. Zacharoff?

12          DR. ZACHAROFF: Hi. Kevin Zacharoff. Just a  
13          clarification of the question, so when we get to the  
14          vote part, I know exactly what I'm voting for.

15          If I believe that targeted prescribing could  
16          be beneficial for people other than the patient,  
17          meaning other members of the household, for example,  
18          if there's a high-risk member of the household, would  
19          that fall into this wording? Because it says "or  
20          more targeted for patients otherwise at high risk of  
21          death from an opioid overdose," which to me implies  
22          that I'm only thinking about patient-level risk, not

1 other risk.

2 DR. HERTZ: That's a good point. I think  
3 that if you think that co-prescribing with that in  
4 mind would be good and you want to vote yes, then in  
5 the A discussion part, you can clarify that.

6 DR. ZACHAROFF: Thank you.

7 DR. KREBS: The opioid label, not the  
8 naloxone label.

9 DR. HERTZ: Yes, labeling for the opioid  
10 label about co-prescribing naloxone with that opioid.

11 DR. BROWN: Dr. Macher?

12 DR. MACHER: I guess another point of  
13 clarification for Dr. Hertz. This is one label, not  
14 two different labels targeted to two different  
15 populations.

16 DR. HERTZ: This would be language that we  
17 would include in opioid analgesics. It would go in  
18 the package insert, and then possibly/probably, the  
19 medication guide, which is considered patient  
20 labeling, and then there would be a ripple of other  
21 documents where it would be mentioned.

22 DR. BROWN: Discussion? Questions?

1 Dr. Krebs? No, you have to ask a question.

2 (Laughter.)

3 DR. BROWN: Yes, ma'am?

4 DR. SHOBEN: You're talking about this like  
5 in general, so in some time in the relatively  
6 near-term future? Are you talking about doing this  
7 right away? Does that make sense as a question?

8 DR. HERTZ: I don't know how to exactly  
9 answer that. I think that if you feel differently  
10 based on timing but ultimately at some point, it  
11 should be you would recommend that we do that, you  
12 could vote yes and then explain it. Or if you think  
13 other things need to be in place before you could  
14 consider it, you could vote no and then explain it.

15 I say, in general, vote if you want something  
16 about this done, and then you can put qualifications  
17 or explanations in the after part.

18 DR. BROWN: Everyone that votes around the  
19 table will have the opportunity to explain their vote  
20 after all the votes are in. Dr. Ballou?

21 DR. BALLOU: I think that there's just a lot  
22 of pieces to this question, so it's hard to say yes

1 or no, because if you say yes, are you saying yes to  
2 the whole thing? I realize we can clarify our  
3 response, but I think there are too many pieces to  
4 this one question for the answer to just be yes or  
5 no.

6 DR. HERTZ: Perhaps you can think about it as  
7 would labeling for co-prescription be a useful tool  
8 to expand access and improve public health? The  
9 assumption is connecting, I guess, the expanded  
10 access with improving public health. Sometimes if we  
11 don't put enough in the question, then it's too  
12 ambiguous, and sometimes, apparently we put too much  
13 in, and then it's -- so it's hard to balance  
14 sometimes.

15 DR. BROWN: Sharon, could you repeat that,  
16 what you just said? Because I think that makes  
17 things a lot more clear.

18 DR. HERTZ: The first part of the question is  
19 some form of co-prescribing language in opioid  
20 labels, then it's something you would recommend as a  
21 way to expand access and improve public health. And  
22 if there's somehow a yes in your mind to that

1       concept, no matter how extensive or limited, you can  
2       describe when we go around after the vote.

3               DR. CICCARONE: I have a radical idea. What  
4       if we continue the discussion before we voted?  
5       Because it seems like there's still -- what if we  
6       voted to see -- are people clear?

7               Do they have a clear answer in their head and  
8       they want to vote right now, or are they still fuzzy  
9       about it? Because I'm definitely going to say that  
10      I'm on the fuzzy side. I have to choose black or  
11      white, yes or no, and then explain myself later.

12              DR. HERTZ: If you want to ask questions to  
13      your peers here at the committee or want to engage in  
14      conversation -- I got to ask the big boss. Yes,  
15      that's okay. So feel free to -- don't preview your  
16      vote. Keep your vote close to the chest, or vest,  
17      but if you want to discuss the issues to help you  
18      decide how you want to vote, that's okay.

19              DR. BROWN: Dr. Garcia-Bunuel?

20              DR. GARCIA-BUNUEL: Martin Garcia-Bunuel. A  
21      comment and maybe a question related to how we all  
22      get to a point to make an answer. But on another

1 topic, the question of language and the language we  
2 use to communicate with patients has come up I think  
3 as a significant point in these discussions, whether  
4 it's communication between the healthcare provider  
5 and their patient or how that information is shared  
6 in a variety of settings.

7 One comment I have about where we are  
8 now -- what matters to me, a bit, is the labeling  
9 language because I think that's where we start to  
10 think about its potential implications, downstream  
11 effects, what's the message.

12 What I've heard and what I've gleaned over  
13 the last couple days, and many important and  
14 significant things, is I have picked up on some  
15 themes around the whole idea of engaging patients,  
16 engaging family, engaging friends, engaging the  
17 community around risk; namely, as we discussed, the  
18 risk of overdose and death and how co-prescription  
19 and/or supplying naloxone may very well have a  
20 significant benefit to decrease the risk of death  
21 from overdose.

22 How that would be stated in a label of an

1 opioid and how that's framed actually I think is a  
2 significant part of this.

3 DR. HERTZ: If you have thoughts on the  
4 messaging that you think would accomplish a yes vote,  
5 meaning if you think that there could be a positive  
6 impact, based on specific language, I would consider  
7 that a yes with an explanation.

8 DR. GARCIA-BUNUEL: Right.

9 DR. HERTZ: Unless you feel really strongly  
10 that it's a no with a small exception.

11 DR. GARCIA-BUNUEL: Right, yes.

12 DR. HERTZ: These things can go either way.  
13 If the labeling tool -- that's our primary source of  
14 communication, is our labeling. That's how we get  
15 the word out, and we can work off of that.

16 If you think there's a role for us to put  
17 information in opioid labels about co-prescription of  
18 naloxone, you can tell us exactly what you want us to  
19 say. You can share any of that as well after the  
20 vote.

21 DR. GARCIA-BUNUEL: In our comments?

22 DR. HERTZ: Yes.

1 DR. GARCIA-BUNUEL: So I'm not trying to  
2 couch this. I'm trying to maybe get a little bit  
3 farther into it because I do think those words and  
4 how it's framed could -- and I say that because the  
5 struggle I'm having from the excellent opinions that  
6 we've heard from all around the table is -- and maybe  
7 being a primary care physician as well, it's the  
8 engagement, it's the discussion, it's the listening,  
9 it's the understanding the context of an individual,  
10 their family unit, their community unit, and how this  
11 is playing out around our country.

12 If there's a way -- and maybe this is a big  
13 reach for me, but if there's a way to use the label  
14 to help form or begin that conversation, I might find  
15 that quite helpful. Thank you.

16 DR. BROWN: Ms. Numann?

17 MS. NUMANN: Sabrina Numann, patient  
18 representative. I think I'm expanding on what they  
19 are saying. I don't feel like we've had much of a  
20 discussion on opioid labeling as much as we have on  
21 the crisis of naloxone distribution. I don't feel  
22 like I have enough information. I don't feel like I

1 have enough information to really even make a  
2 decision on this vote.

3 This is coming just as a patient  
4 representative. If we could get into a little bit  
5 more detail of what that actually means and that  
6 impact, I would feel much better with that decision.  
7 Thank you.

8 DR. HERTZ: Product labeling has defined  
9 sections, and it's a very clear format. We have the  
10 opportunity to put information that we think is  
11 useful. Then there's the part that's really intended  
12 for the prescriber, and then there's the part that's  
13 focused on patients, and opioid labels have both.

14 So if you think that the prescriber should be  
15 co-prescribing naloxone, for some reason -- if you  
16 think they should be co-prescribing naloxone to  
17 achieve what's in the question, and you think that  
18 for some reason, then you would vote. And we don't  
19 typically label here at the table because I'd need to  
20 keep you for a week.

21 So if you think the labeling needs to be  
22 improved with regards to risk communication but you

1 don't particularly favor co-prescription, then tell  
2 us that. Vote no about co-prescription. You don't  
3 think it's going to achieve the goals, but you would  
4 prefer this other communication element to be  
5 included.

6 That's why the actual language is not  
7 specific here because labeling takes us a really long  
8 time. This is really about should we include in the  
9 labeling something to tell prescribers to  
10 co-prescribe to achieve that goal.

11 Is that the tool that would be useful to help  
12 achieve that goal? And if that's not the tool, the  
13 co-prescribing, if there's something else you want to  
14 use the labeling for, that would be a no, but this is  
15 what we'd like you to add to the label.

16 MS. NUMANN: Thank you.

17 DR. BROWN: Dr. Meisel?

18 DR. MEISEL: Steve Meisel. I'm going to take  
19 a contrarian view. In this case, I usually have a  
20 lot of problems with the way the questions are worded  
21 and in the past have suggested the agency go to  
22 question writing 101 school. But in this case, I

1 think the question is perfect because as I unpack  
2 it --

3 (Laughter.)

4 DR. MEISEL: Well, I do. As I unpack this  
5 question, the first thing I want to ask myself is,  
6 okay, would co-prescribing expand access and improve  
7 public health? And if the answer to that is no, then  
8 I would vote no. And if the answer to that is yes,  
9 would labeling -- putting in the package insert some  
10 suggestions to the provider that either for a large  
11 population or a targeted population, that they do so,  
12 if the answer to that is yes, then I'd vote yes.

13 To me, it's a relatively simple question  
14 here. The first part that I unpack is do I believe  
15 in co-prescribing, that it's actually going to  
16 achieve an outcome here. And then if the answer to  
17 that is no -- but if I say yes, okay, well, then how  
18 do we get there and would labeling the product be an  
19 avenue to get there; or maybe I think that would be  
20 ineffective, so I would say no. It's a good goal,  
21 but labeling is not the way to get there. There are  
22 other mechanisms to get there.

1           So from my point of view, I think it's a  
2 relatively easy and simple question to answer.

3           DR. BROWN: Dr. Krebs?

4           DR. KREBS: I think we all have this belief  
5 that sometimes physicians should co-prescribe  
6 naloxone, and I suspect everyone agrees that that's  
7 sometimes the case. Also, I think we probably all  
8 agree that most patients should know more about the  
9 risk of opioid poisoning, meaning inadvertent  
10 sedation or respiratory depression.

11           Being both in VA and in primary care and  
12 having been involved in the CDC guideline development  
13 process, I remain concerned about how things -- the  
14 most subtly worded things, the most carefully parsed  
15 recommendations to consider something, or potentially  
16 do something, or evaluate, as soon as they're out  
17 there, the world would like to turn it into a quality  
18 metric. Did it get done? Yes/No?

19           A label recommendation on a drug that  
20 recommends another drug with it is just such an easy  
21 yes/no. Did it get done or not? So I am just very  
22 concerned about how aggressively this will be

1       enforced on many levels and the unintended  
2       consequences we've all described for labeling  
3       language that recommends co-prescribing; so just  
4       separating that labeling language that recommends  
5       co-prescribing from the general concept of should we  
6       sometimes co-prescribe. I think that's a very  
7       important distinction here.

8                 DR. BROWN: Dr. Ciccarone?

9                 DR. CICCARONE: Thank you, Chair. Dan  
10       Ciccarone, UCSF. This is good. Thank you. I'm glad  
11       we're discussing more instead of moving right to a  
12       vote.

13                Thank you, Dr. Krebs. I think this notion of  
14       unintended consequences, which was raised earlier  
15       today, is very important. If I break up Dr. Meisel's  
16       simple question, which is now two questions, does one  
17       believe in co-prescription, I think there's some  
18       evidence that you can either accept or not accept  
19       about co-prescription.

20                But really what would be underlined here is  
21       the labeling language. And what I'd like to have  
22       more conversation about is does labeling move

1 practice. Does it change how prescribers move?  
2 Would it also -- if it does work, does it move them  
3 too far? Because I think there's also some  
4 concerns -- and I'd like to hear more conversation  
5 about this -- that if we got lots of co-prescribing  
6 to happen, that we might get shortages, and we might  
7 get other inadvertent effects.

8 So I'm still trying to stimulate that  
9 conversation. Thank you.

10 DR. MEISEL: If I can just respond to that, I  
11 think you've set up a model to answer the question.  
12 Because if you think that co-prescribing is good in  
13 some cases but you think that labeling, thereby  
14 proscribing it, has unintended consequences that  
15 offset the value, then you vote no.

16 DR. CICCARONE: [Inaudible - off mic].

17 DR. MEISEL: No. It's a no vote, because  
18 what the agency is asking is, should they put  
19 recommendations in the package insert for oxycodone  
20 that some people should be co-prescribed naloxone?  
21 That's what they're asking for. They need guidance  
22 from us as to whether they should put that, in one

1 language or another, into the package insert to push  
2 the envelope to prescribers, please prescribe more  
3 naloxone in some cases.

4 DR. BROWN: Dr. Bateman?

5 DR. BATEMAN: I'd say there are lots of ways  
6 the label could be written. It could be  
7 consideration should be given to co-prescribing in  
8 naloxone in circumstances where the patient's at  
9 heightened risk for overdose because of high  
10 milligrams of morphine equivalent co-prescription of  
11 benzodiazepines.

12 I don't think it has to be so cut and dry and  
13 necessarily have all of the effects that Dr. Krebs  
14 alluded to regarding performance metrics and the  
15 like.

16 DR. BROWN: Dr. Dasgupta?

17 DR. DASGUPTA: Are there previous examples of  
18 labels that have co-prescription that's mentioned,  
19 and if so, in which sections of the label would that  
20 be in?

21 DR. HERTZ: There's Leucovorin for  
22 methotrexate -- am I getting that right? -- but not

1       sure of an antidote to the primary action. That's  
2       more of avoiding unintended effects. I think that if  
3       there is, it's pretty rare, and we certainly can't  
4       come up with it very easily.

5               The labels do have a mention of naloxone or  
6       an antagonist in Section 10, which is overdose, which  
7       is different. This might go into a couple of  
8       sections of labeling. It's a big deal, so it would  
9       probably require some association with the risks, so  
10      the respiratory depression, the risk for overdose.  
11      And there could also be some instruction, possibly,  
12      which would be dosing and administration.

13              So it could potentially go somewhere like  
14      Section 5, warnings. It could go in Section 10,  
15      overdose, something additional. And it could go in  
16      Section 2, which is dosing and administration.

17              DR. DASGUPTA: Section 5 is also the REMS  
18      section, right?

19              DR. HERTZ: The REMS is listed in the  
20      Section 5 and in the box, and Section 17, which is  
21      information for patients, and the medication guide,  
22      which this also has, which is part of labeling,

1           although not the full prescribing information.

2           DR. DASGUPTA:   So one avenue could be to put  
3           it in 17 as a patient communication thing, so it's  
4           not as much of a strong directive for co-prescribing  
5           as in higher in the label?

6           DR. HERTZ:   No.   Generally, it is in the  
7           label, and then it's the recommendation to convey  
8           that information from elsewhere to patients, so  
9           that's what listed in 17.

10          DR. DASGUPTA:   Would you guys consider  
11          something like this to be an element to assure safe  
12          use?   Would you want to go that direction, or would  
13          that create so much --

14          DR. HERTZ:   We really didn't want to ask that  
15          question.   Thank you for bringing that up.   If you  
16          feel strongly enough about co-prescribing that you  
17          think it should be somehow part of a REMS, you can  
18          say that separately when we go around.   Right now,  
19          we're really just talking about labeling.

20          DR. BROWN:   Dr. Zacharoff?

21          DR. ZACHAROFF:   My personal opinion is that  
22          in 2018, even in a primary care setting, based on all

1 of the different guidelines and recommendations I see  
2 from pretty much every regulatory agency and every  
3 association, that at least consideration of offering  
4 naloxone to patients needs to be considered in 2018  
5 if an opioid is being prescribed for anything other  
6 than acute basis.

7 To me, we're only talking about when you're  
8 prescribing opioids. So if all the  
9 recommendations -- the Federation of State Medical  
10 Boards clearly defines inappropriate prescribing of  
11 an opioid, and they talk about the fact that if  
12 naloxone is not considered as part of that package,  
13 then that is considered inappropriate prescribing.

14 From my personal opinion, it's already  
15 standard of care, and if it's already standard of  
16 care, then it belongs in the label when these  
17 medications are prescribed. Thank you.

18 DR. BROWN: Dr. McCann?

19 DR. McCANN: I don't have anything.

20 DR. BROWN: Ms. Robotti?

21 MS. ROBOTTI: Hi. Suzanne Robotti. I guess  
22 this is more of a question. What I would like is a

1 label that didn't say naloxone should be prescribed.  
2 I would like a label that says a conversation should  
3 ensue with the patient about naloxone and opioid  
4 overdose possibilities.

5 My point is to encourage conversation, but  
6 mostly to increase the patient's self-awareness of  
7 being an opioid overdose risk, and for the patient to  
8 be brought into the consideration of what level that  
9 risk is.

10 So my question is, am I suggesting  
11 co-prescribing? I'm suggesting a conversation. Can  
12 one suggest a conversation on a label?

13 DR. HERTZ: It depends what conversation  
14 you're suggesting. If you think that it's important  
15 for the label to say engage in a conversation about  
16 shared decision-making concerning risks associated  
17 with opioids, possible opioid overdose, possible use  
18 of -- if that's what you would like, that's not  
19 recommending/requiring co-prescribing.

20 If you think we should be doing something  
21 specifically about co-prescribing, and if you don't  
22 but you still want to comment on the other, if you

1 don't want the label to have something to say about  
2 co-prescribing but you want that further engagement,  
3 you can certainly let us know that.

4 DR. BROWN: Are there any other comments or  
5 questions prior to the time that we take a vote on  
6 this very clear question?

7 (No response.)

8 DR. BROWN: If not, we'll be using an  
9 electronic voting system for this meeting. Once we  
10 begin the vote, the buttons will start flashing and  
11 will continue to flash even after you have entered  
12 your vote. Please press the button firmly that  
13 corresponds to your vote. If you're unsure of your  
14 vote or if you wish to change your vote, you may  
15 press the corresponding button until the vote is  
16 closed.

17 After everyone has completed their vote, the  
18 vote will be locked in. The vote will then be  
19 displayed on the screen. The DFO will read the vote  
20 from the screen into the record. Next, we will go  
21 around the room, and each individual who voted will  
22 state their name and vote into the record. You can

1 also state the reason why you voted as you did if you  
2 want to. We will continue in the same manner until  
3 all questions have been answered or discussed.

4 Now we can vote.

5 (Voting.)

6 LCDR SHEPHERD: For the record, the vote is  
7 12 yes, 11 no, no abstain, zero no voting.

8 DR. BROWN: We are going start down at this  
9 end with Dr. Faul.

10 DR. FAUL: Mark Faul here. I voted yes  
11 because it's part of the CDC guideline. The  
12 guideline sets forth the risk populations and the  
13 MME. It was really not gray for me. It was pretty  
14 straightforward.

15 DR. BRAND: This is Paul Brand. I voted yes  
16 because the wording, as a couple people here reworded  
17 how it could appear, I think it opens a conversation  
18 with a patient. So I asked myself the question, will  
19 this improve the well-being and health of the public,  
20 and my answer to that was yes.

21 DR. BALLOU: This is Jordan Ballou. I voted  
22 yes because I tried to simplify the question as much

1 as possible. Would labeling language that recommends  
2 co-prescription, for at least some people, be an  
3 effective method for expanding access to naloxone and  
4 improving public health? I do believe that it would  
5 be one of many potential effective methods, and as  
6 many have discussed, that it would require at least a  
7 conversation to happen with the patient.

8 I would be in favor of language that not  
9 necessarily -- it does say "recommends," not  
10 "requires," so that's one thing to think about as  
11 well as an offer to co-prescribe, not necessarily  
12 co-prescription, but at least an offer, which again  
13 reiterates that need for the conversation.

14 DR. MACHER: This is Jeff Macher from  
15 Georgetown. I too took a similar approach to  
16 answering the question, would labeling language that  
17 recommends co-prescription of naloxone be an  
18 effective method for expanding access to naloxone and  
19 improving public health?

20 The caveat is I believe it should be targeted  
21 to those high-risk categories that we've discussed  
22 for the past day and a half, those that have

1 concurrent prescription of other opioids, pain  
2 management, history of substance abuse disorders,  
3 mental health, and any other medical issues.

4 I was also convinced by Dr. Zacharoff's point  
5 that it's already a standard of care. If it is, then  
6 I think the benefits far outweigh the harm.

7 DR. GARCIA-BUNUEL: Martin Garcia-Bunuel. I  
8 voted yes, and I came to the conclusion for a couple  
9 reasons. One, I thought of my clinical self, and  
10 actually thought of my clinical self years ago,  
11 trying to understand how we all evolve in terms of  
12 our knowledge, and how we take care of patients, and  
13 how do we respond to changes both in our patients'  
14 lives and what's going on around us.

15 I think the labeling, if done properly, will  
16 help create a conversation, standardize as a  
17 conversation, that protects patients who aren't  
18 getting this conversation. So it may help bend some  
19 behaviors and some interaction, even if the  
20 motivations may not be completely patient centered,  
21 but it might help some clinicians have that  
22 conversation.

1           I think this brings it one step closer to the  
2 center of the fold as we continue to confront a very  
3 complex situation. Thank you.

4           DR. PISARIK: Paul Pisarik. I'm going to be  
5 the first no. I voted no in this question. It's not  
6 to me that it wouldn't help, but part of the question  
7 that hit me was "be an effective method." I think  
8 it'd be a method. I don't know if it'd be an  
9 effective method for expanding access to naloxone.

10           The whole idea of improving public health,  
11 improving public health isn't so much one-on-one,  
12 it's more casting a huge net over everything, and  
13 then trying to get as many people into the net as  
14 possible. That's what public health means to me.

15           It would help some people for sure, but I  
16 don't think it'd be an effective method for improving  
17 public health. I think having some sort of public  
18 distribution program for naloxone the government  
19 might provide at a reduced cost for public health  
20 centers, for community health departments, that would  
21 be an effective method of expanding naloxone.

22           DR. KREBS: I voted no, and I've mentioned

1 some of the reasons. But importantly, I do think  
2 there's a great deal of difference between  
3 considering co-prescription, which is what the CDC  
4 guideline recommends, and labeling language that  
5 recommends co-prescription, which I think creates a  
6 standard of care that will be implemented in a way  
7 that could potentially undermine public health by  
8 directing resources away from the most effective  
9 approaches to expanding naloxone access while  
10 generating a great deal of cost, and potentially less  
11 time for consideration of other more effective  
12 strategies to improving the safety of opioid  
13 prescriptions in the primary care office.

14 DR. BROWN: Dr. Krebs, state your name.

15 DR. KREBS: Oh, sorry. That was Erin Krebs.

16 DR. CICCARONE: Dan Ciccarone, UCSF. I have  
17 to say this vote is the hardest decision I've made in  
18 a long time and I'm not one to be shy about  
19 decisions. I usually get it and go with it. And I  
20 didn't decide until my finger was about an inch away  
21 from the button. Perhaps I should have chosen  
22 abstain, really.

1           The positives, the reasons why I voted yes,  
2       51 percent was the evidence presented by folks in San  
3       Francisco and Rhode Island, showing there's some  
4       evidence co-prescribing will have public health  
5       benefit. It enhances the conversation. There will  
6       be spillover effects to the community,  
7       including -- and I think this is probably the extra  
8       salt on one side of the balance scale -- increased  
9       pharmacy stocking. Pharmacies don't always stock.  
10      This will push that momentum. Most pharmacies will  
11      start stocking.

12           In public health, access is important. When  
13      you increase access, you have increased access, and  
14      you usually see a benefit. It's almost always a good  
15      thing.

16           Having said that, the ways in which it might  
17      not be a good thing were weighing on the other side  
18      of the scale. We have language questions that  
19      persist, how to label this but also what goes out to  
20      the community. It may compel the medical community  
21      to move too far, and then the idea of shortages come  
22      in.

1           As the pendulum is swinging, there is a  
2 little bit of opioid-phobia; maybe not a little bit,  
3 maybe a moderate amount of opioid-phobia going on  
4 there. Will prescribers overdo it? We see effects  
5 of people overdoing it in this epidemic because it is  
6 a crisis and there's a lot of fear.

7           Co-prescription can happen whether the FDA  
8 labels it or not. If it's a good idea, it can be  
9 promoted, CMEs and all that stuff. What we really  
10 need is to support our friends in the community who  
11 are doing great work over multiple years. We need  
12 OTC switch. We need federal stockpiling. We need  
13 parity in the injection versus intranasal labeling.  
14 We need generics. Thank you very much.

15           MS. NUMANN: Sabrina Numann, patient  
16 representative. I was splitting my vote kind of into  
17 two. Bear with me here.

18           I voted no, I think because there wasn't like  
19 a to-be-determined later type of vote. I feel like  
20 co-prescription does already exist out there, and I  
21 don't know if that necessarily addresses the crisis.  
22 I don't feel like I have enough information to say

1       yes.

2               On the second part regarding labeling, I  
3       would have abstained because I feel that I would  
4       worry there are additional barriers yet that I don't  
5       understand myself, i.e., standard of care.

6               As for A, had I voted yes, then I feel that  
7       the high-risk group would be where I would address  
8       this crisis. It does seem logical to at least start  
9       there. Also, I believe this discussion needs to  
10       continue. I just don't feel like a vote today really  
11       resolved much.

12              I ask that the FDA consider the excellent VA  
13       model, very impressive presentation' VOA; the  
14       Fiduscript ideas; educational media campaign for  
15       education, definitely an option there; and language  
16       to discussions to lower the stigma. Thank you very  
17       much.

18              MS. ROBOTTI: Hi. Suzanne Robotti. I voted  
19       no to co-prescription, but I do vote yes to a label  
20       that lists the profile of high-risk patients with a  
21       recommendation to discuss the risk of opioids,  
22       particularly when used with other respiratory

1 depressive drugs in order for the patient to  
2 understand and evaluate his/her own level of risk.

3           Somebody mentioned that naloxone should be  
4 offered by doctors and pharmacists all the time, much  
5 like would you like fries with that. That type of  
6 normalizing naloxone and maintaining awareness of  
7 ongoing risk and changing risk is exactly what I'm in  
8 favor of. I think it's also another good reason to  
9 move naloxone to OTC status.

10           DR. GOUDRA: Basavana Goudra. I voted yes.  
11 To make the decision, I went both by the published  
12 evidence that is out there and by whatever the  
13 discussion that happened between today and yesterday.  
14 I think there is no debate about the fact that this  
15 will benefit the method for expanding access.

16           In terms of improving public health, I'm not  
17 so sure about it, whether it will be the discussions  
18 surrounding, or education element, or availability of  
19 the actual drug. It doesn't matter what it is, I  
20 think it is going to help in resolving or addressing  
21 the crisis to some extent.

22           DR. BATEMAN: Brian Bateman. I voted yes. I

1 think this is just one more approach that's available  
2 to heighten awareness of the potential role for  
3 naloxone in a targeted high-risk population. We know  
4 there's a segment of the opioid-prescribed population  
5 that are at greatly heightened risk, those on high  
6 doses, those with a history of overdose, those on  
7 certain concomitant medications. And getting this  
8 medication to them I think is important. It's really  
9 become the standard of care, and this will just  
10 reinforce that message.

11 I'd also agree with some of the comments made  
12 by others that this is not really the most important  
13 issue with respect to naloxone. I think what's  
14 emerged from the discussion is we need a way of  
15 getting inexpensive naloxone to community-based  
16 programs and finding a sustainable model for funding  
17 that and lowering all of the barriers that might  
18 impede that.

19 DR. McCANN: Mary Ellen McCann. I voted no  
20 for several reasons. I think the evidence was weaker  
21 that co-prescribing is efficacious compared to the  
22 community programs that are out there.

1 I'm very, very concerned about mission creep.  
2 I think the opposite of public health would be  
3 somebody going to the emergency room with a broken  
4 arm and ending up with \$30 worth of some codeine  
5 product and an autoinjector at \$4,000 plus. I think  
6 that's a problem.

7 I think for the generic versions of naloxone,  
8 I think that there's a possibility that there would  
9 be a diversion of resources from community-based  
10 programs away from them, so that would be another  
11 point.

12 I would like to make the point that it may be  
13 standard of care to co-prescribe in very high-risk  
14 groups, but I don't know that we need a label change  
15 to do that. We've never done it before. You  
16 couldn't even come up with another example. I would  
17 think responsible prescribers would already be  
18 co-prescribing for their vulnerable high-risk groups.

19 DR. ZACHAROFF: Hi. This is Kevin Zacharoff,  
20 and I voted yes with some wording recommendations,  
21 which I'll get to in a minute. But I voted yes for  
22 reasons already stated by Drs. Ballou and Brand and

1 things I've said before.

2 I think it is worth mentioning, despite the  
3 fact that I'm often educating primary care providers  
4 about what guidelines and recommendations say. It  
5 always comes as a surprise to them, even though it's  
6 2018, almost 2019, and that really scares me. I look  
7 at this as a message to healthcare providers that are  
8 prescribing opioids.

9 My wording recommendations would be  
10 "recommends considering offering co-prescription of  
11 naloxone for targeted prescribing for patients and/or  
12 households and communities at high risk for death  
13 from an opioid overdose." That's my recommendation  
14 for tweaking the wording to go along with my yes  
15 vote.

16 Certainly, I would never recommend  
17 prescribing -- I removed "for all or some patients  
18 prescribed opioids" because I think it needs to be,  
19 as we've heard mentioned by many people, something  
20 that promotes the discussion, the idea of offering.

21 We heard one of the public speakers today  
22 talk about the ethical analysis of this whole thing,

1       which unfortunately, I don't hear enough discussed  
2       about. There is no ethical pendulum with respect to  
3       autonomy and with respect to the fact that patients  
4       get to have things offered to them and make their own  
5       decisions about what happens to them. Ethics  
6       pendulums don't swing.

7                If we think it's an autonomous right of a  
8       patient to know what's available to them; to know  
9       what could potentially impact the risk-benefit  
10      analysis of them, their households, and their  
11      communities; that's inalienable scenario as far as  
12      I'm concerned and that's why I think it needs to be  
13      in the label of all prescribed opioids so it will  
14      promote clinicians to offer this and promote the  
15      discussion. Thank you.

16               DR. BROWN: I'm Rae Brown, and I voted no. I  
17      think that as a healthcare system, as a nation, we're  
18      dealing with broad issues, one of which is limited  
19      resources. And there are very limited resources to  
20      address the public health problem of 100 or so people  
21      dying every day.

22                Focusing the agency to get their attention

1 directly on providing the most efficient method of  
2 managing naloxone distribution will require time and  
3 money, and it would be detracted from by taking the  
4 eye off the prize of co-prescribing. Co-prescribing  
5 is the least efficient method that we talked about in  
6 terms of actually providing product to a patient.

7 A couple of things that it would do, it would  
8 allow for the maintenance of the status quo in terms  
9 of the price point, which is not going to be helpful  
10 in providing the naloxone to the 80 percent of people  
11 that are dying because of illicit drugs, and it  
12 doesn't address the issue of capacity.

13 We're living in a healthcare emergency. We  
14 need to be thinking along the lines of providing more  
15 product rapidly to our community programs. I agree  
16 with Dr. McCann that making a hard stop declaration  
17 in the label could turn into unimaginable legal creep  
18 and regulatory creep, and those are very important  
19 unintended consequences that I personally don't want  
20 to have to deal with.

21 DR. HERNANDEZ-DIAZ: Sonia Hernandez-Diaz. I  
22 voted yes, but I was completely neurotic about what

1 to vote. And I voted yes with two huge  
2 qualifications, and if I had voted no, I would have  
3 had qualifications as well.

4 I voted yes because I think it might be  
5 effective in increasing a little bit accessibility,  
6 and for some very specific groups like those  
7 prescribed buprenorphine, it might help. But just to  
8 be very clear, I don't think this is the most  
9 effective strategy.

10 As we discussed, the first strategy that  
11 would be most effective is probably going after those  
12 who know they are at risk, like Dr. Krebs put it,  
13 those abusing or injecting opioids, by lowering the  
14 barriers through OTC and other potential ways that we  
15 discussed today.

16 Strategy number 2 would be to go after those  
17 that are unaware, like the first prescription of  
18 opioids for pain, with information, education, and as  
19 we mentioned, offering, which takes me to my second  
20 qualification, emphasis on offering, when we say  
21 recommending, so that is not taking us mandated  
22 co-prescription but just offering.

1           If going after strategy number 1 is not done,  
2 then I will not go into labeling. I will first after  
3 strategy number 1 and then take care of the labeling.  
4 And if the labeling is going to impair strategy  
5 number 1, then I will not do it.

6           So I vote yes as long we go first with what  
7 we have discussed might be the most effective first  
8 step.

9           DR. SHOBEN: Abby Shoben. I voted yes with  
10 some of the same qualifications that have been  
11 previously discussed. I think what I want to  
12 emphasize here is that my vote yes was on strict  
13 interpretation of the question, that it would be an  
14 effective strategy, not the most effective strategy.

15           Part of the reasons I think it could be an  
16 effective strategy is more widespread distribution  
17 than some of the community-based programs. This  
18 would get it out to communities that don't  
19 necessarily have community-based programs. It would  
20 encourage discussion with the provider and with  
21 education as we've discussed previously.

22           I do have significant concerns similar to

1 Dr. Hernandez-Diaz and others about unintended  
2 consequences on more effective strategies, so that's  
3 part of my concern about doing it right away versus  
4 waiting until some supply issues can be resolved.

5 DR. BESCO: Kelly Besco. I voted no, and I  
6 had a little bit of a different interpretation of an  
7 effective method than what Abby had. While I don't  
8 necessarily disagree with the concept of  
9 co-prescribing as an access method, I believe that  
10 medication labeling in general is a passive strategy

11 So I think a more effective, active strategy  
12 would be to adopt and develop risk stratification  
13 algorithms that we could embed in electronic health  
14 records to guide providers on appropriate patients  
15 and families that would qualify for co-prescribing  
16 selection.

17 Lastly, just like others, I just want to  
18 restate that we do need to remove barriers and  
19 provide a greater government funding stream and  
20 procurement program for our national naloxone  
21 distribution programs that were overwhelmingly shown  
22 to be effective during this meeting.

1 DR. MEISEL: Steve Meisel. I voted no for a  
2 lot of the reasons that others have stated. A public  
3 health problem requires a public health solution, and  
4 an individual one-patient-at-a-time approach is not  
5 going to get us to anything near improving public  
6 health.

7 As others have said, all of the attention on  
8 whether we should put something in the label, as  
9 Kelly just described, nobody reads the label anyway.

10 DR. BESCO: I didn't want to say that.

11 DR. MEISEL: It's passive, and there's got to  
12 be -- none of us would disagree that there are going  
13 to be individual situations; that it's the right  
14 thing to do to co-prescribe. I think that's a given.  
15 But whether we should put it in the label and set the  
16 expectation that it will happen under these  
17 circumstances, and then what happens when it doesn't,  
18 I think is problematic.

19 Risk groups, of course, are going to be  
20 evolving. Yes, we can use what the CDC says. We can  
21 use what Dr. Oliva talked about yesterday, but it's  
22 going to be a changing landscape for quite some time

1 and therefore subject to interpretation.

2           What all of this focus on co-prescribing does  
3 is takes away focus on what we know and really  
4 believe. I think if we had a vote on should we make  
5 this product OTC, we wouldn't have a 12 to 11 vote  
6 here. We'd probably have a 18 to 5 vote or maybe  
7 even higher than that, I would suspect.

8           Something like that and enhancing the  
9 community partnerships that we heard so much about  
10 today, that's what's going to impact public health,  
11 an inexpensive, readily available product without  
12 barriers through community health, through OTC  
13 programs, through government stockpiles, through  
14 whatever. That's what's going to impact public  
15 health.

16           All of this discussion and all of this angst  
17 about whether or not we should be putting  
18 co-prescribing as a recommendation in the product  
19 labeling for oxycodone sort of misses that point, and  
20 misses the big picture, and really won't impact  
21 public health.

22           DR. BOUDREAU: Denise Boudreau, and I voted

1 no. This was a difficult vote. Clearly, access  
2 needs to be expanded, and while a labeling change may  
3 increase access some, for certain patients, this  
4 didn't seem to rise to the top of the list, as many  
5 have stated, as far one of the biggest barriers.

6 In looking specifically at the question and  
7 breaking it down, yes, it may improve access for some  
8 patients, but I'm not sure about improving public  
9 health. I had concerns that have already been stated  
10 of what this would do to the community programs,  
11 prices, the healthcare system, the burden on  
12 providers, and there's nothing preventing it from  
13 happening now, anyways.

14 So as others have stated, I think the efforts  
15 for putting efforts with our finite resources towards  
16 things that we've heard in the last couple of days,  
17 that are probably the top things that are barriers,  
18 would be a better effort.

19 DR. GERHARD: Tobias Gerhard, Rutgers. I  
20 voted no. I believe the co-prescribing approach is a  
21 fairly inefficient way to get naloxone to the people  
22 that need it the most. However, that being said, I

1 think a carefully targeted co-prescribing approach or  
2 recommendation is likely useful at some point in the  
3 future if many other things are already in place. So  
4 I think there's a place for it, but it's not the  
5 primary place.

6 Most importantly, I didn't want to vote yes  
7 and give the impression that we vote yes here, and  
8 this really is something that addresses the problem  
9 because I think that's not the case. I think what we  
10 need is a response that's appropriate and  
11 proportional to the challenge that we're facing,  
12 which is a major and unprecedented public health  
13 crisis that kills tens of thousands of people every  
14 year.

15 While that response is incredibly complex and  
16 difficult, one key component of it is to assure a  
17 stable and affordable supply of many millions of  
18 doses of naloxone for various distribution channels  
19 that's procured by the federal government.

20 I think this is purely a question of  
21 political will. This is entirely feasible. Naloxone  
22 is a product that has been on the market for many

1 decades. It is not expensive. This is doable and  
2 can save a lot of lives, but it requires a concerted  
3 effort that goes outside of the usual approach to  
4 regulate prescription drugs.

5 DR. DASGUPTA: This is Nabarun Dasgupta. I  
6 voted no. Since 2007, I've been helping pharmacists  
7 and doctors co-prescribe, and I've been waiting for  
8 this vote for 12 years, and --

9 (Laughter.)

10 DR. DASGUPTA: -- to my great surprise, I  
11 voted no, in large part because the impact on the  
12 harm reduction programs has not been adequately  
13 explored.

14 I found the failure to acknowledge the  
15 programs in the sponsors' presentations was shameful  
16 and deceitful and exploitative. I think the absence  
17 of the harm reduction programs more deeply in this  
18 conversation is so inadequate that I cannot vote to  
19 change the status quo without taking their wisdom  
20 directly into account.

21 Since Dan Bigg died in August, I've often  
22 wondered what would Dan vote, what would Dan do with

1 this situation. Since he's not here to talk to my  
2 heart, I'm going to have to talk from my head. So  
3 looking at where the data are that were presented,  
4 the benefit, the people who use these medications are  
5 often not the person who they were prescribed to.

6 I firmly believe that the U.S. Food and Drug  
7 Administration's drug label is one of the most  
8 important public health documents in the world. The  
9 information contained in there has a level of  
10 objectivity and direct relevance to the biological  
11 and clinical aspects of a drug.

12 To include in the label someone who is not  
13 the intended recipient, I feel like would create a  
14 precedent that I don't know that I would be willing  
15 to endorse at this time.

16 DR. AMIRSHAHI: Maryann Amirshahi. I voted  
17 yes. While I don't feel that co-prescribing is the  
18 most efficient way to improve naloxone access, I do  
19 believe that it does start a dialogue between the  
20 provider, and it serves as a reminder to the provider  
21 to bring it up.

22 Additionally, I feel that by starting that

1 conversation, perhaps we can identify patients that  
2 may be at risk that we didn't initially think about.  
3 I think that the effort should be targeted  
4 specifically to high-risk populations, at least  
5 initially. I also think that we should try to gather  
6 data as to how efficient it is moving forward so that  
7 we can re-mine [indiscernible] our interventions.  
8 Thank you.

9 DR. BROWN: Before we adjourn, Dr. Herring,  
10 do you have any comments about any of the discussions  
11 that we've had here today and yesterday?

12 DR. HERRING: Sure, yes. This is a tough  
13 issue and presents a lot of challenges, particularly  
14 given the situational differences between illicit and  
15 prescribed drug abuse. I think that was really  
16 clearly illustrated by the discussions.

17 I want to commend FDA, the sponsors, speakers  
18 for their thoughtful views that were expressed, and I  
19 think one thing we can agree on is that we need a  
20 multiprong strategy; that no single intervention is  
21 really going to solve this very complicated problem,  
22 and that regulated industry fully supports and

1 endorses the continued dialogue and collaboration on  
2 this front to stem the opioid crisis.

3           Along those lines, regulated industry's  
4 participating with NIH and the public-private  
5 partnerships that have resulted in the HEAL  
6 initiative, Helping to End Addiction, with Long-term  
7 strategy. There's industry-sponsored research and  
8 development that continues, as you know, for the  
9 abuse-deterrent formulations to try to make it harder  
10 to overdose on opioid medications, as well as efforts  
11 to produce non-opioid analgesics that can helpfully  
12 provide patients with effective treatments for their  
13 pain in the future.

14           DR. BROWN: Thank you, Dr. Herring.

15           Any last comments from Dr. Hertz or others in  
16 the FDA?

17           DR. HERTZ: Well, thank you. I often say  
18 that the discussion is more informative sometimes  
19 than the vote, and that's clearly the case today, so  
20 thank you. Thank you for taking the time to come  
21 help us with this. The discussion was really  
22 excellent, and we'll be poking through this for some

1 time. So thank you all.

2 DR. STAFFA: This is Judy Staffa. Can I just  
3 add one more thing? In addition to thanking the  
4 committee, I'd also like to thank the unprecedented  
5 number of guest speakers who came and took their time  
6 to share all of their relevant work with the  
7 committees and also the outstanding participation in  
8 the open public hearing. I think we learned a lot,  
9 and I'm very grateful for the time people spent in  
10 coming.

11 (Applause.)

12 DR. MEISEL: I'd like to acknowledge that I  
13 believe this is Dr. Brown's last meeting as chair.  
14 I'd like to acknowledge his strong leadership of this  
15 committee, and we thank you very much for your  
16 leadership and skills.

17 (Applause.)

18 **Adjournment**

19 DR. BROWN: Thank you.

20 We kindly ask that all attendees dispose of  
21 any trash or recycling in proper receptacles. Please  
22 remember to take all your personal belongings.

1 Please leave your name badge on the table so that it  
2 can be recycled. All other meeting materials left on  
3 the table will be disposed of.

4 Thank you, and we will adjourn the meeting  
5 now.

6 (Whereupon, at 3:49 p.m., the meeting was  
7 adjourned.)

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