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FOOD AND DRUG ADMINISTRATION
CENTER FOR DRUG EVALUATION AND RESEARCH

DRUG SAFETY AND RISK MANAGEMENT AND ANESTHETIC AND
ANALGESIC DRUG PRODUCTS ADVISORY COMMITTEES

Wednesday, May 4, 2016
8:00 a.m. to 5:00 p.m.

FDA White Oak Campus
White Oak Conference Center
Building 31, The Great Room
Silver Spring, Maryland

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P R O C E E D I N G S

(8:00 a.m.)

Call to Order

Introduction of Committees

1 DR. WINTERSTEIN: Good morning, everyone.
2
3
4
5 Welcome to the second day of our meeting. I would
6
7 first like to remind everyone to please silence
8
9 your cell phones, smartphones, and any other
10
11 devices if you have not already done so. I would
12
13 also like to identify the FDA press contact, Sara
14
15 Petticord, back in the back. If you are present,
16
17 please stand.

18
19 My name is Almut Winterstein. I'm the
20
21 chairperson of the Drug Safety and Risk Management
22
23 Advisory Committee, and I will be chairing this
24
25 meeting. I will now call the joint meeting of the
26
27 Drug Safety and Risk Management Advisory Committee
28
29 and Anesthetic and Analgesic Drug Products Advisory
30
31 Committee to order. We'll start by going around
32
33 the table and introducing ourselves. Let's start
34
35 down on my right.

36 DR. SCARAZZINI: Yes, good morning. Linda

1 Scarazzini, industry rep from AbbVie.

2 DR. HERRING: Good morning. William
3 Herring, industry rep from Merck.

4 DR. KRASNOW: Hi. I'm Steve Krasnow,
5 medical oncologist from the VA in Washington, D.C.

6 DR. BOHNERT: I'm Amy Bohnert from the
7 University of Michigan.

8 DR. HOFFMAN: I'm Erika Hoffman. I'm a
9 primary care physician from VA Pittsburgh.

10 DR. RAGHUNATHAN: I'm Trivellore Raghunathan
11 from the University of Michigan.

12 DR. McCANN: Mary Ellen McCann from Boston
13 Children's Hospital, pediatric anesthesiologist.

14 DR. GERHARD: Tobias Gerhard, Rutgers
15 University.

16 DR. HIGGINS: Jennifer Higgins, consumer
17 representative.

18 MR. O'BRIEN: Joe O'Brien, patient
19 representative. I'm also president of the National
20 Scoliosis Foundation, a condition that impacts
21 about 7 million people in the United States, of
22 which more than 15,000 have surgery in a given

1 year. And I am also a patient that's had four
2 spinal fusions and fused from T4 to L5.

3 DR. GARCIA-BUNUEL: Martin Garcia-Bunuel,
4 primary care physician, VA Maryland Healthcare
5 System.

6 DR. BILKER: Warren Bilker, biostatistician,
7 University of Pennsylvania.

8 DR. FLOYD: James Floyd, University of
9 Washington.

10 DR. CRAIG: David Craig, Moffitt Cancer
11 Center, Tampa, Florida.

12 DR. KAYE: Alan Kaye, chairman of
13 anesthesia, LSU School of Medicine, New Orleans.

14 DR. ISRAEL: Heidi Israel, St. Louis
15 University Medical School.

16 DR. EMALA: Charles Emala, anesthesiologist
17 at Columbia University.

18 DR. PERRONE: Jeanmarie Perrone, emergency
19 physician and medical toxicologist, University of
20 Pennsylvania.

21 DR. WINTERSTEIN: I'm Almut Winterstein.
22 I'm professor and chair of pharmaceutical outcomes

1 and policy at the University of Florida.

2 LCDR BEGANSKY: Stephanie Begansky. I'm the
3 designated federal officer for today's meeting.

4 DR. BROWN: Rae Brown. I'm a pediatric
5 anesthesiologist from the University of Kentucky.

6 DR. SHOBNEN: Abby Shoben. I'm a
7 biostatistician from Ohio State University.

8 DR. MORRATO: Good morning. Elaine Morrato.
9 I'm an epidemiologist and health services
10 researcher at the Colorado School of Public Health,
11 University of Colorado.

12 DR. GALINKIN: Jeff Galinkin, pediatric
13 anesthesiologist from the University of Colorado.

14 DR. BATEMAN: Brian Bateman,
15 anesthesiologist, Mass General and Brigham and
16 Women's Hospital.

17 DR. GUPTA: Anita Gupta, anesthesiologist
18 and pharmacist from Drexel University at
19 Philadelphia.

20 DR. FRY: Michael Fry, pharmacist,
21 Providence Health and Services, Oregon.

22 DR. STANDER: Paul Stander, internist,

1 geriatrics, and palliative care from the VA and the
2 University of Arizona in Phoenix.

3 DR. BUCKENMAIER: Trip Buckenmaier, director
4 of the Defense and Veterans Center for Integrated
5 Pain Management, Uniform Services University.

6 DR. TYLER: Linda Tyler, chief pharmacy
7 officer at the University of Utah Hospitals and
8 Clinics.

9 DR. CHOUDHRY: Good morning, Niteesh
10 Choudhry. I'm a general internist and health
11 services researcher at Brigham and Women's Hospital
12 and Harvard Medical School.

13 DR. PARKER: Ruth Parker, Emory University
14 School of Medicine. I'm in medicine, peds, and
15 public health there.

16 MS. SHAW PHILLIPS: Marjorie Shaw Phillips,
17 pharmacist at Augusta University Medical Center at
18 University of Georgia College of Pharmacy.

19 DR. HERTZ: Sharon Hertz, division director
20 for the Division of Anesthesia, Analgesia, and
21 Addiction Products here at CDER and FDA.

22 DR. STAFFA: Good morning. I'm Judy Staffa.

1 I'm the acting associate director for public health
2 initiatives in the Office of Surveillance and
3 Epidemiology, FDA.

4 DR. MANZO: Good morning. I'm the director
5 of the Office of Medication Error Prevention and
6 Risk Management in CDER.

7 DR. LaCIVITA: Good morning. I'm Cynthia
8 LaCivita, director of the Division of Risk
9 Management in CDER at FDA. Thank you.

10 DR. THROCKMORTON: And I'm Doug
11 Throckmorton, deputy director for regulatory
12 programs, CDER, FDA.

13 DR. WINTERSTEIN: For topics such as those
14 being discussed at today's meeting, there are often
15 a variety of opinions, some of which are quite
16 strongly held.

17 Our goal is that today's meeting will be a
18 fair and open forum for discussion of these issues,
19 and that individuals can express their views
20 without interruption. Thus, as a gentle reminder,
21 individuals will be allowed to speak into the
22 record only if recognized by the chairperson. We

1 look forward to a productive meeting.

2 In the spirit of the Federal Advisory
3 Committee Act and the Government in the Sunshine
4 Act, we ask that the advisory committee members
5 take care that their conversations about the topic
6 at hand take place in the open forum of this
7 meeting. We are aware that members of the media
8 are anxious to speak with the FDA about these
9 proceedings. However, the FDA will refrain from
10 discussing the details of this meeting with the
11 media until its conclusion. Also, the committee is
12 reminded to please refrain from discussing the
13 meeting topic during breaks or lunch. Thank you.

14 Now I will pass it to Lieutenant Commander
15 Stephanie Begansky, who will read the conflict of
16 interest statement.

17 **Conflict of Interest Statement**

18 LCDR BEGANSKY: Thank you. The Food and
19 Drug Administration is convening today's joint
20 meeting of the Drug Safety and Risk Management
21 Advisory Committee and the Anesthetic and Analgesic
22 Drug Products Advisory Committee under the

1 authority of the Federal Advisory Committee Act of
2 1972. With the exception of the industry
3 representatives, all members and temporary voting
4 members of the committees are special government
5 employees or regular federal employees from other
6 agencies and are subject to federal conflict of
7 interest laws and regulations.

8 The following information on the status of
9 these committees' compliance with federal ethics
10 and conflict of interest laws, covered by but not
11 limited to those found at 18 U.S.C., Section 208,
12 is being provided to participants in today's
13 meeting and to the public.

14 FDA has determined that members and
15 temporary voting members of these committees are in
16 compliance with the federal ethics and conflict of
17 interest laws.

18 Under 18 U.S.C., Section 208, Congress has
19 authorized FDA to grant waivers to special
20 government employees and regular federal employees
21 who have potential financial conflicts, when it is
22 determined that the agency's need for a special

1 government employee's services outweighs his or her
2 potential financial conflict of interest or when
3 the interests of a regular federal employee is not
4 so substantial as to be deemed likely to affect the
5 integrity of the services which the government may
6 expect from the employee.

7 Related to the discussions of today's
8 meeting, members and temporary members of these
9 committees have been screened for potential
10 financial conflicts of interest of their own, as
11 well as those imputed to them, including those of
12 their spouses or minor children, and for purposes
13 of 18 U.S.C. Section 208, their employers.

14 These interests may include investments,
15 consulting, expert witness testimony, contracts,
16 grants, CRADAs, teaching, speaking, writing,
17 patents and royalties, and primary employment.

18 Today's agenda involves discussion of
19 results from assessments of the extended-release
20 and long-acting, ER/LA, opioid analgesics risk
21 evaluation and mitigation strategy, REMS. The
22 agency will seek the committee's comments as to

1 whether this REMS, with elements to assure safe
2 use, assures safe use, is not unduly burdensome to
3 patient access to the drugs, and to the extent
4 practicable, minimizes the burden to the healthcare
5 delivery system.

6 The ER/LA opioid analgesics REMS requires
7 that prescriber training will be made available to
8 healthcare providers who prescribed ER/LA opioid
9 analgesics. Training is considered REMS compliant
10 if it, one, training provided by continuing
11 education providers is offered by an accredited
12 provider to license prescribers; two, it includes
13 all elements of the FDA blueprint for prescriber
14 education for ER/LA opioid analgesics, blueprint;
15 three, it includes a knowledge assessment of all
16 the sections of the blueprint; and four, it is
17 subject to independent audit to confirm that
18 conditions of the REMS training have been met.

19 The agency will seek the committees' input
20 on possible modifications to the ER/LA opioid
21 analgesics REMS, including expansion of the scope
22 and content of prescriber training and expansion of

1 the REMS program to include immediate-release
2 opioids.

3 This is a particular matters meeting during
4 which general issues will be discussed. Based on
5 the agenda for today's meeting and all financial
6 interests reported by the committee members and
7 temporary voting members, no conflict of interest
8 waivers have been issued in connection with this
9 meeting

10 To ensure transparency, we encourage all
11 standing committee members and temporary voting
12 members to disclose any public statements that they
13 have made concerning the topic at issue.

14 With respect to FDA's invited industry
15 representatives, we would like to disclose that
16 Drs. Joseph Herring and Linda Scarazzini are
17 participating in this meeting as non-voting
18 industry representatives acting on behalf of
19 regulated industry. Drs. Herring and Scarazzini's
20 roles at this meeting are to represent industry in
21 general and not any particular company.

22 Dr. Herring is employed by Merck and

1 Dr. Scarazzini is employed by AbbVie.

2 We would like to remind members and
3 temporary voting members that if the discussions
4 involve any other topics not already on the agenda
5 for which an FDA participant has a personal or
6 imputed financial interest, the participants need
7 to exclude themselves from such involvement, and
8 their exclusion will be noted for the record.

9 FDA encourages all other participants to
10 advise the committee of any financial relationships
11 that they may have regarding the topic that could
12 be affected by the committee's discussions. Thank
13 you.

14 DR. WINTERSTEIN: We will now proceed with
15 FDA's opening remarks from Dr. LaCivita.

16 **FDA Introductory Remarks - Cynthia LaCivita**

17 DR. LaCIVITA: Good morning. Yesterday, you
18 heard from a variety of presenters, and it was a
19 considerable amount of information to digest. I'm
20 not going to try and summarize it. The serious
21 outcomes resulting from inappropriate prescribing,
22 misuse and abuse of these products, assessing the

1 impact of the REMS, and additional concerns about
2 the immediate-release products are not easy issues
3 to address.

4 We do really appreciate the work that the
5 RPC and the CE providers have done to evaluate this
6 REMS, and at the FDA, this is one of our top
7 priorities. Speaking on behalf of my FDA
8 colleagues, we are looking forward to the
9 presentations today, the open public hearing, and
10 the advisory committees' discussion with regard to
11 the REMS. I'm sure it's going to be informative
12 and interesting. Thank you.

13 DR. WINTERSTEIN: Thank you. We will now
14 proceed with today's presentations from
15 organizations, and Dr. Katzman will start.

16 **Organization Presentation**

17 DR. KATZMAN: Thank you so much for
18 allowing me to come here to speak today. It's
19 really a privilege and an honor. I come from the
20 University of New Mexico, where I've been for the
21 last 19 years, coming from Los Angeles, California
22 at UCLA Medical Center prior to that. I direct the

1 University of New Mexico Pain Center and also
2 started ECHO Pain in 2008.

3 What I'd like to share with you and was
4 asked to respond to was how the State of New Mexico
5 mandated continuing medical education specific to
6 pain and opioid substance use disorder in 2012,
7 specifically the New Mexico Medical Board
8 regulation. The title of my talk is A Coordinated
9 Regulatory and Educational Approach to the Public
10 Health Crisis of Chronic Pain and Addiction.

11 The goal at the time in 2012 was such that
12 New Mexico really had led the country for the past
13 decade in drug overdose, not only to prescription
14 opiate overdose, but also to heroin. And as you
15 know, New Mexico has not been new to heroin
16 overdoses in the country.

17 Northern New Mexico in particular has had an
18 intergenerational epidemic or endemic to heroin
19 overdoses, and it really only has been in the past
20 three years that we have seen a change in the type
21 of heroin, specifically black tar heroin.

22 But really, we've had a tremendous problem

1 in Northern New Mexico, the counties of Rio Arriba,
2 Mora County, and Taos County, with opiate overdose
3 deaths not only to prescription but to heroin, with
4 five and six times the national average. And we
5 still have the highest counties in the whole
6 country.

7 So the goal in 2010, when key stakeholders
8 in this state, when representatives from the
9 University of New Mexico, the New Mexico Department
10 of Health, the New Mexico Medical Board, the New
11 Mexico Board of Nursing began meeting, was to
12 really develop a grassroots exchange of
13 conversation on a monthly basis in how the state
14 can come together with very little financial
15 resources and work to solve the crisis of the
16 undertreatment of chronic pain, the unintentional
17 opiate overdose deaths that we were seeing not only
18 in New Mexico from heroin, but the rising rates of
19 prescription opiate overdose deaths.

20 We also realized that, because New Mexico is
21 the fifth largest state and quite impoverished,
22 with only a population of 2,000,000 people, we had

1 to do something quickly.

2 We wanted to emphasize that prescriber
3 education was first and foremost. We wanted to
4 have a positive effect on dispensing high-dose
5 opiates, realizing that the combination of opiates
6 and benzodiazepines was what was really causing
7 deaths in many of our patients, not only opiates
8 and benzodiazepines, but opiates and alcohol, and
9 opiates and respiratory depressants. And we also
10 wanted to have an impact on our prescription drug
11 monitoring program.

12 As Dr. Woodcock yesterday and Dr. Compton
13 from NIDA mentioned, the southwest has really been
14 hit hard along with Appalachia and now certain
15 states in the northeast of the United States.

16 As I mentioned, New Mexico has been not only
17 number one in the country, but it's really been in
18 the top five for the past decade for prescription
19 drug overdose deaths and heroin overdose deaths. I
20 mentioned that it's the fifth largest state with
21 only 2 million inhabitants. We're a very diverse
22 state with not only non-Hispanic whites, but

1 Hispanic population and a large American Indian
2 population. We have 29 pueblos and much of the
3 Navajo Nation resides in New Mexico.

4 As you know, the American Indian population
5 has a very high rate of opioid misuse. Compared to
6 the national rate of 4.2 percent of Americans
7 misusing opiates at the age of 12 or older,
8 American Indians, on average, misuse opiates at the
9 rate of 6.9 percent.

10 The heroin epidemic, as I mentioned, has
11 been going on for decades, so we know a lot about
12 the misuse of heroin, but the death rates due to
13 heroin have been increasing.

14 This is a little bit of our overdose death
15 rates in New Mexico. Again, Rio Arriba County,
16 Mora County, as well as states throughout, the
17 counties throughout New Mexico, are just studded
18 with a tremendous burden of overdose death rates.

19 Only two counties in the entire state have
20 averages of overdose death rates lower than the
21 U.S. average, Curry County and Cibola County. So
22 it's not just Northern New Mexico, but it's even

1 southwest counties in the state.

2 So for the year and a half or two years
3 preceding the New Mexico Senate Bill 215, which
4 revised the Pain Relief Act, we were meeting on a
5 regular basis, key stakeholders from around the
6 state. We knew as a state we did not want to
7 impose opiate dosing threshold such as states like
8 Washington that had imposed opiate dosing
9 threshold.

10 We also knew, however, that high doses of
11 opiates were associated with increasing death
12 rates, especially when combined with
13 benzodiazepines, when combined with alcohol.
14 Because New Mexico is a small state, we only have
15 one Office of the Medical Examiner, which resides
16 right at the University of New Mexico, so our
17 autopsy findings are within one purview and rather
18 accurate.

19 But we also know that there's a great
20 chilling effect in New Mexico, and we did not want
21 to have a chilling effect with primary care
22 providers who are really at the front line very

1 much so in taking care of patients who are
2 suffering from chronic pain.

3 We know that, in many small towns, it's one
4 nurse practitioner, one physician assistant, one
5 physician who are taking care of a population of
6 patients who may be suffering from chronic pain,
7 performing palliative care, hospice care on that
8 community. And if you take away their confidence,
9 their care of taking care of patients with chronic
10 pain, that town is really going to suffer.

11 So we needed to educate the state. So in
12 2012, there were about three or four bills that
13 were dropped at that time. Three of them wanted to
14 impose opiate dosing thresholds. And this was not
15 okay, really, with many of the folks at the
16 University of New Mexico, our committee who had
17 been meeting for two years prior.

18 The one bill that we did advocate for and
19 that did pass was this Senate Bill 215. It
20 required all healthcare licensing boards to mandate
21 continuing medical education related to chronic
22 non-cancer pain for all clinicians with

1 prescriptive authority.

2 There were no exclusions whatsoever, so that
3 if you were a radiologist, not prescribing opiates,
4 if you were a pathologist, if you were a retired
5 doctor who is not seeing patients anymore but
6 wanted to keep your license up to date, you still
7 had to take continuing medical education specific
8 to pain and opiate substance use disorder, or at
9 that time, we were calling it addiction.

10 This bill also mandated the formation of a
11 governor's advisory council, composed of key
12 stakeholders, the similar stakeholders that we were
13 meeting about regularly, to review prescription
14 drug misuse, overdose prevention, and pain
15 management.

16 We realized very much that what the
17 community of clinicians, not just physicians, but
18 pharmacist clinicians, physician assistants, nurse
19 practitioners needed was more tools in their tool
20 chest to be able to take care of patients, with
21 pain and opiate substance use disorder, and
22 palliative care better so that they could learn how

1 to take care of patients with pain without using
2 opiate analgesics as first line.

3 We needed to teach them how to talk to
4 patients. We needed to teach them how to screen
5 for opiate misuse. We needed to teach them how to
6 use exercise, integrative approaches. We needed to
7 teach them how to use non-opiate pharmacotherapy.

8 So what happened is, the bill passed with
9 almost bipartisan support, 68 to 0 in the House;
10 31 to 8 in the Senate. So what happened is, every
11 clinical licensing board then had to promulgate
12 rules to mandate continuing medical education.

13 The first licensing board to do this was the
14 New Mexico Medical Board. 16-10-14 was the rule
15 from the New Mexico Medical Board. They said, "You
16 know what? We should treat this like a medical
17 emergency no different than hantavirus, or a
18 bioterrorism attack, or a medical emergency."

19 So between March 31st, 2012 and
20 November 1st -- and actually, August 1st, they
21 decided on an immediate 5 hours of CME in pain and
22 addiction.

1 They told their physicians and their
2 physician assistants, who they were responsible
3 for, that between November 2012 and June 30, 2014,
4 in that year-and-a-half time, every clinician who
5 they were responsible for had to get 5 hours of CME
6 specific to pain and addiction, and then again at
7 every renewal cycle. For physicians in New Mexico,
8 it's every three years, and for physician
9 assistants, it's every two years.

10 After that, it was like a domino effect.
11 Every clinical licensing board in New Mexico, the
12 New Mexico Board of Nursing, the New Mexico Board
13 of Dentistry, mid-wifery board, osteopathic board
14 and so on, followed the same 5-hour immediate rule
15 and every renewal thereafter.

16 The New Mexico Medical Board 16.10.14
17 included the following. The 5 hours must include
18 an understanding of pharmacology and risk of
19 controlled substances, a basic awareness of
20 addiction, abuse and diversion, state and federal
21 requirements for controlled substance prescribing.
22 And then the last one is management of pain.

1 Here is where it also tied in very much with
2 the prescription drug monitoring program. It also
3 required that every physician and physician
4 assistant registered with the PDMP and checked the
5 PDMP if they were going to write a prescription for
6 more than 10 days and every 6 months thereafter.

7 So beginning in 2012, we had the most robust
8 combination, if you will, in terms of the
9 50 states, in terms of 5 hours of CME plus checking
10 the PDMP initially and every 6 months. Just two
11 months ago, New Mexico passed legislation to
12 actually make the PDMP more robust legislatively in
13 terms of now checking the PDMP if writing for more
14 than 4 days' worth of opioids and checking it every
15 3 months.

16 So our UNM Pain Center faculty decided that
17 we needed to really get on the bandwagon and train
18 as many New Mexico clinicians with prescriptive
19 authority as we can. So beginning in November of
20 2012, right as soon as this legislation passed, we
21 began setting up courses, and we trained over half
22 the state's clinicians.

1 Our New Mexico Pain Center faculty who
2 taught these courses included two ACGME pain
3 specialists, a neurologist, an internal medicine
4 physician, physiatrist with pain specialty, two
5 addiction psychiatrists, and a pediatrician. We
6 also had a dentist teaching one section of the
7 course as well. We also studied this with IRB
8 approval from the University of New Mexico
9 Institutional Review Board.

10 The topics of our course, for the 5-hour
11 course, included an overview of opioid overdose
12 nationally and statewide. We then taught about use
13 of non-opioid medications and other non-
14 pharmacologic treatments for pain management, a
15 significant talk on identification of patients at
16 risk for opioid substance use disorder, misuse, and
17 aversion.

18 We talked about opiate screening tools as a
19 significant part of the talk. We talked about how
20 to talk to patients about opioid risk and harm
21 reduction. We had a talk on pediatric and
22 adolescent pain management and another talk on

1 federal and state laws pertaining to controlled
2 substances and the PDMP as well as safe opiate
3 prescribing.

4 We then asked the clinicians taking the
5 course to choose between two of the following
6 breakout sessions, and these included vignettes. I
7 started the project ECHO Pain program in 2008, so
8 case studies and case presentations are near and
9 dear to my heart, so these breakout sessions
10 followed a typical case presentation.

11 Clinicians were asked if they wanted to hear
12 about safe opiate prescribing, management of the
13 patient who is misusing opiates, pediatric and
14 adolescent pain. This was particularly pertinent
15 to the pediatricians and family practice clinicians
16 who were taking the course, as well as pain and
17 psychiatric co-morbidities. We began dental
18 courses in 2013.

19 I might add as an aside that the New Mexico
20 Medical Board didn't only approve these courses at
21 the University of New Mexico, they also approved
22 courses at the New Mexico Medical Society. They

1 approved courses at the American Academy of Pain
2 Medicine, Pain Management, the AMA, the American
3 Academy of Family Physicians. They approved
4 courses on their website, and clinicians from all
5 over New Mexico, or even physicians that were
6 practicing in other states but wanted to maintain
7 their New Mexico licensure, could take courses
8 based on the approval that was on the New Mexico
9 Medical Board website.

10 So we studied this. We got IRB approval.
11 We studied pre/post course surveys in knowledge,
12 self-efficacy, and attitudes. I might add that the
13 study participation was voluntary and had no
14 bearing on receiving the 5 hours needed to maintain
15 their New Mexico Medical Board licensure, but we
16 did have a 99 percent voluntary -- they
17 participated in taking this pre- and post-survey
18 99 percent of the time.

19 We published this in 2014 in the American
20 Journal of Public Health. We studied six courses.
21 We have continued these courses to this date, but
22 we just studied the first year of these courses.

1 Four of the courses were located in Albuquerque at
2 two different locations, both at the University of
3 New Mexico and the VA Medical Center at the New
4 Mexico VA Healthcare System. One course was
5 located in Northern New Mexico, in Santa Fe. One
6 course was located in Southern New Mexico, in Las
7 Cruces.

8 We did study about 1,090 clinicians;
9 67 percent were MDs or DOs; 30 percent were
10 mid-level providers, PAs or NPs, and 3 percent were
11 dentists, certified nurse midwives, pharmacists, or
12 psychologists. I might add that that bottom number
13 is quite low because the dentists began their own
14 courses.

15 This is quite small, but you should have
16 this on your handouts. We had very statistically
17 significant improvement pre- and post-course in
18 knowledge, self-efficacy, and attitudes. And I can
19 get you the detailed questions if you'd like at a
20 later time. I can get the FDA these if you'd like.

21 Again, this is also very detailed, but what
22 I'd like to emphasize here are a few things. This

1 goes way before the course, beginning in January of
2 2008, going through June of 2013. There's a few
3 things that I'd like to note here, that we had a
4 significant reduction in the total morphine
5 milligram equivalents of opiates dispensed.

6 This is data from the New Mexico
7 Prescription Monitoring Program and New Mexico
8 Board of Pharmacy. We did have a significant
9 reduction in total morphine milligram equivalents
10 dispensed since beginning the course. Obviously,
11 this is association and not causal. And similarly,
12 we had a reduction in the total diazepam or value-
13 milligram equivalents of benzodiazepines dispensed.
14 I was very interested in looking at the opiates and
15 value-milligram equivalents dispensed.

16 What I was also very happy to see, although
17 others might not be so thrilled with this, is that
18 we did not have a chilling effect. In New Mexico,
19 it's very important that we see not a drop-off of
20 prescriptions for opiates because we have such a
21 rural state, and we need to make sure that our
22 primary care providers are not saying, "I'm not

1 taking care of pain anymore."

2 I might add, and this is anecdotal, but I do
3 have the CME comments from our ACCME-certified
4 continuing medical education department at the
5 University of Mexico, that we had hardly any
6 pushback or any comments in a negative fashion such
7 as, why do I have to take this course, I'm a
8 radiologist, or I'm not treating patients anymore,
9 or this is stupid, it doesn't pertain to me, things
10 like that. We had very, very high satisfactions
11 related to this course.

12 This is current data in that my close
13 colleagues at the New Mexico Department of Health
14 added just-in-time data to the older data from the
15 American Journal of Public Health paper. We've
16 continued since the course to see a decrease of
17 high-dose prescribing of opiates.

18 We can't tell if this is long-acting or
19 short-acting, but clinicians are decreasing their
20 rates of prescribing high doses of morphine
21 milligram equivalents and are prescribing lower
22 doses of opioids 'til this day.

1 Similarly, there's been a decrease in total
2 opioids prescribed. Unfortunately, what we have
3 seen is a trend in days' supply of opioids. We're
4 also continuing to see a decrease in the percent of
5 clinicians providing opiates, over 100 morphine
6 milligram equivalents a day. It's similar to the
7 two slides previous.

8 Now, I need to show this to you. I don't
9 like the 2014 data, but there was a significant
10 drop-off after we started the courses in the opioid
11 overdose death rates, and this is when we went from
12 number 1 in the country to number 3 in the country.
13 Unfortunately, New Mexico gets a lot of number 1's
14 in many things because we're such an impoverished
15 state.

16 In 2014, it's hard to tell why we bumped up.
17 What I just heard from Mike Landon, the state
18 epidemiologist, is it's a little bit unclear. He
19 thinks we're going to go down in the number of
20 death rates in 2015. We think it's related
21 particularly to the number of heroin overdose
22 combined with benzodiazepines and especially black

1 tar heroin.

2 What I'd like to just share as my closing
3 slide is a publication that will come out within
4 the next two weeks in the American Journal of
5 Public Health. I've been involved, as you know,
6 with Project ECHO since 2008 and started ECHO Pain,
7 and have been working closely to help other
8 academic medical centers replicate Project ECHO
9 Pain, and been working closely with VA SCAN-ECHO
10 and particularly with the Department of Defense and
11 the Army and Navy Pain ECHO.

12 We did these 5-hour trainings with the Navy
13 three times. They were quite successful. We've
14 not published these courses, but we did them with
15 two Navy sites both in the Navy Med on the east
16 coast and the Navy Med in Balboa. The trainings
17 were very well-received.

18 We started a telehealth with the Indian
19 Health Service ECHO three years ago. Then
20 effective January 2015, Susan Karol, the chief
21 medical officer for the Indian Health Service,
22 really saw our program in New Mexico, and she

1 effectively mandated all Indian Health Service
2 clinicians to take 5 hours of training based on our
3 New Mexico courses.

4 Since January of 2015, we have given these
5 courses -- our new UNM faculty have given these
6 courses 8 times virtually, through a
7 videoconferencing platform, to 1700 IHS clinicians.
8 We've seen the same results. We've studied this,
9 and we found the same results. We've studied this
10 with qualitative results as well. And I can share
11 them with you once they're published. Thank you.

12 DR. WINTERSTEIN: We will continue with
13 Dr. McMahon.

14 **Organization Presentation - Graham McMahon**

15 DR. MCMAHON: Good morning, everybody. It's
16 a real pleasure to be here. My name is Graham
17 McMahon. I am the president and CEO at the
18 Accreditation Council for continuing medical
19 education. I am an endocrinologist and, like many
20 of you here, have been a prescriber of opioids and
21 have been affected by my patients, and by my
22 community, who have had both challenges as well as

1 benefits from those prescription medicines.

2 We are honored to be here and to be invited
3 to participate, and really appreciate FDA's
4 recognition of the value of accredited CE to be a
5 mechanism to drive change, innovation in the
6 system, and support best practices, and applaud
7 certainly FDA's commitment to listening to
8 stakeholders and to engaging in ongoing
9 improvement.

10 The accredited CE system that's out there
11 has had a long-standing commitment to supporting
12 clinicians to do right by their patients both in
13 terms of managing their pain, but also limiting and
14 avoiding addiction and dependence.

15 Our ACCME system essentially reflects a
16 diversity of community values. We were set up over
17 35 years to reflect community values by this
18 7-member organizations to be an independent non-
19 profit and to reflect what the community feels
20 matters in education.

21 In that role, we set the standards for what
22 counts in continuing education to ensure that

1 clinicians who are attending educational events
2 know that, by attending an accredited event, they
3 will receive education that's balanced and evidence
4 based, that's designed to maximally be relevant for
5 their needs; to address real gaps and needs, not
6 those that are other people's, but are theirs; that
7 the activities are evaluated to guide safe,
8 effective care; and importantly, that those
9 activities are free of commercial influence that
10 would otherwise be working to derive promotion or
11 marketing efforts for particular products or
12 devices.

13 To make these efforts real, we not only set
14 the standards, but perform audits. We perform
15 surveys. We respond to complaints and engage a
16 wide and diverse network of CE providers who are
17 able to abide by these standards and reflect our
18 community's values in accredited continuing
19 education.

20 We've worked to establish those values of
21 independence of educational quality in a very
22 dynamic and changing world for clinician learners.

1 Standards are changing. Expectations of our
2 clinicians are changing. And our expectations of
3 the clinicians themselves are changing.

4 We used to think that we would be able to
5 launch our clinicians out of medical school, out of
6 residencies, out of fellowships, out of particular
7 programs, and they would be launched out in the
8 community in a ballistic model, and they would
9 maintain a level of performance for a long time,
10 hopefully only reaching that zenith of staying
11 above standards until just the day before
12 retirement.

13 But that model is obviously defunct, and the
14 continuing education enterprise is really designed
15 to reflect not just over time the change in
16 standards or to reflect or address the persistent
17 and frustrating forgetting curve of clinician
18 practice, but in order to try and address this
19 zig-zag in changing performances and abilities of
20 our clinicians over time to create opportunities
21 for reflection and self-awareness so that
22 clinicians' abilities, their real intrinsic ability

1 to do right by their patients and do the right
2 thing that is a professional value of our
3 community, is made aware to them so then they can
4 go out and change, and we can sustain their
5 persistent efforts at doing the right thing for a
6 long time.

7 In order to do that, you really have to
8 think about engagement as a primary currency for
9 learning. Engagement is difficult to achieve
10 amongst professional learners like we have to
11 address. And unless you think about issues of
12 maximizing relevance, making the education
13 efficient, making the education effective, making
14 the learning meaningful, it's very hard to engage
15 the hearts and minds of our community.

16 It's easy to drive people through
17 box-checking behaviors and complete activities that
18 aren't meaningful for them for the sake of actually
19 achieving numbers. But if you really want to
20 change practice, you really have to create
21 relevant, efficient, effective, and meaningful
22 educational efforts that connect with clinicians

1 for the long term. That's what drives behavior.

2 In many ways, our CME community is designed
3 to achieve just that. They know our learners
4 because they are in their institutions, in their
5 localities. They know the challenges that they
6 face, whether they're in New Mexico or in
7 Manhattan, and helping them connect with their
8 learners in a maximal way will most likely drive
9 actual meaningful change in the long term.

10 We have a very diverse array of continuing
11 education providers that are each represented
12 geographically by these yellow dots in the
13 accredited CME system nationally. We accredit
14 about 1900 providers nationally. Those 1900
15 providers deliver about 147,000 different
16 activities, culminating up into about over a
17 million hours of instruction across the range of
18 disciplines and enterprises nationally.

19 That results in at least 13 and a half
20 million physician interactions, but importantly,
21 11 and a half million other learner interaction.
22 That means the quality of the CE enterprise is

1 attracting our nurse colleagues, our colleagues who
2 are physician assistants, and pharmacists, and
3 dentists, and podiatrists, and optometrists, and
4 the entire healthcare team.

5 The reason that we have this data is that
6 our system requires that activities are created
7 that are listed in our databases as they're
8 created, which is a terrific asset to the community
9 because it allows us to drive data, and evaluate
10 programs, and measure all sorts of information
11 about the health of the enterprise.

12 When it comes to our opioid REMS CME
13 activities, this system allows us to track many
14 components of that. And I think many of you know
15 our database systems, we modified several years ago
16 to accommodate very specifically the REMS modules
17 and track information for the RPC.

18 From that data, there's a slew of report
19 data in our formal comments that were submitted by
20 written testimony, but a sliver of that information
21 shows that the majority of our participants who are
22 prescribers according to the FDA definition were,

1 naturally enough, physicians, but included
2 advanced-practice nurses, physician assistants,
3 optometrists, dentists, as well as a range of other
4 professionals.

5 The programs that were produced that are
6 listed in PARS show 612 different types of course
7 activities that were predominantly based on live
8 courses in hospitals and clinics distributed across
9 every type of organization and every state in the
10 nation, just about.

11 A minority of the programming was based on
12 the internet-based activities, those enduring
13 materials. But you'll see that it was those
14 enduring and internet-based activities that drew
15 the largest number of participants.

16 So of the 168,000 learners who engaged with
17 activities that were tracked in our REMS system,
18 the majority of those were participating in
19 internet-based learning. And many of you may have
20 an outdated view of the ways in which our
21 activities are being created now.

22 While traditionally you might think of

1 courses as being sage on the stage and internet
2 activities being narrated PowerPoint slides held
3 online, very many of our courses now are case
4 based, interactive, use case-based simulations,
5 problem-solving skills, communities of learning,
6 and all sorts of other types of activities that
7 drive quality in education.

8 There's a whole series of lessons that we
9 can learn from what we've been doing over the last
10 few years. The first is to recognize that our
11 continuing education providers are at the elbows of
12 their learners. They know their audiences the
13 best, and they're most likely to be successful when
14 you give them permission, flexibility, and liberty
15 to adapt their education and the modular
16 assessments to their learners' needs.

17 The more in which you mandate or restrict
18 those types of formats, approaches, types of
19 engagements, the least likely you are to actually
20 be successful in your mission because our learners
21 are incredibly diverse, and their needs are
22 incredibly diverse. And the ways to create

1 relevant, meaningful engagement is incredibly
2 diverse.

3 I would encourage us to use things like our
4 search engine to be able to direct learners to
5 activities that maximally meet their needs based on
6 their learning preferences and styles because their
7 activities now are listed in our system. They're
8 searchable, retrievable, and that creates a much
9 more nuanced view of what works for an individual
10 learner.

11 I would recommend that we revise the
12 blueprint to focus on high-level direction
13 regarding risks without constraining educational
14 providers' ability to tailor that education.

15 I would encourage us to enable educators to
16 use the blueprint as a basis for identifying and
17 designing activities to meet learners' caps and
18 needs.

19 I would recommend advising participant
20 numbers to reflect the diversity of the types of
21 providers that are prescribers, but also those that
22 engage teams, and also those that sustain

1 individual clinician-prescribing behavior through
2 teamwork. And fundamentally, we would say we fully
3 support the continuation of accredited CE as a
4 delivery mechanism for prescriber-based training in
5 the early opioid analgesic REMS.

6 Accredited CE can also support a whole
7 series of other activities. We can play a role in
8 addressing patient safety issues addressed in other
9 REMS, where those are pre- or post-approval or
10 single-product REMS. And we would think that that
11 system is ideally suited to engage the community in
12 maximal and safe prescribing of drugs and use of
13 devices nationally.

14 Accredited CME is not standing still. We
15 are evolving to try and encourage best practices in
16 education to maximally meet the learners' needs.
17 Our new accreditation standards focus on things
18 like team-based care, integrating patients in
19 public and education, public and population health
20 initiatives, collaborations with healthcare systems
21 and communities, and a movement towards high-level
22 outcomes data to measure change in physician

1 performance, patient care, and community health.

2 Our accredited CE system is working every
3 day to make a difference. We are committed to
4 improving the health of the nation and supporting
5 your efforts to reduce risk and promote drug
6 safety. Thank you very much.

7 **Clarifying Questions**

8 DR. WINTERSTEIN: We have now some time for
9 questions. Sorry. Dr. Krasnow, yes?

10 DR. KRASNOW: The question is for
11 Dr. Katzman, slide 21. Looking at all the numbers
12 on that slide, all the deaths by year going from
13 the top to the bottom, it appears that there's
14 really no trend whatsoever. Isn't the proper
15 conclusion to your talk that there's been no
16 discernible effect of education on these outcomes
17 to date? I don't see any other conclusion.

18 DR. KATZMAN: I think we can conclude an
19 association with the decrease in the morphine
20 milligram equivalents dispensing and the diazepam
21 milligram equivalent-dispensing. I agree that the
22 death rate is up for discussion in terms of the

1 decrease.

2 I think that there has been a trend until
3 2014, beginning in 2011 with a trend downward until
4 the 2014 bump-up. But I agree that we can't say
5 anything about the overdose death rate bump-up.

6 DR. KRASNOW: But if you look at the years
7 before 2011, you also see variations in the same
8 range.

9 DR. RAGHUNATHAN: Right. That's why I don't
10 think we can say anything about the death rate.

11 DR. WINTERSTEIN: Dr. Brown?

12 DR. BROWN: This is for Dr. Katzman also.
13 On slide 18 -- put that up, staff -- it appears
14 that the percentage of all opioid prescriptions
15 greater than 100 MMEs per day has been static from
16 2008 to 2015. Is that how you would interpret
17 that?

18 DR. KATZMAN: In terms of the 100 morphine
19 milligram equivalents?

20 DR. BROWN: Right. It's been relatively
21 static at 10 percent for, it appears, over the
22 course of time. If you go then to slide number 20

1 and look at the percent of practitioners providing
2 opioid prescriptions over 100 MMEs per day, there's
3 been what appears to be a significant drop over the
4 same time frame from about, it looks to me, like
5 78 percent down to about 50 percent.

6 My question relates to whether or not -- I
7 think these are significant data because it is
8 beginning to identify a separate population of
9 prescribers. And I wonder if the Department of
10 Health or UNM have had an opportunity to -- since
11 you're condensing that number, that population, had
12 an opportunity to look at that more closely.

13 Maybe those are the people that need the
14 education.

15 DR. KATZMAN: In terms of where there are
16 some very, very high-dose prescribers that are now
17 prescribing a lot less, is that --

18 DR. BROWN: It looks like doctor shopping,
19 is what it appears. It appears that there are the
20 same number of prescriptions being written by fewer
21 people and that the folks in New Mexico are doctor
22 shopping to find somebody to write those

1 prescriptions. And I just wonder if the issue of
2 doctor shopping has come up.

3 DR. KATZMAN: The issue of doctor shopping
4 has come up. We talk about this at our monthly
5 governor's council meetings. I think that the
6 Board of Pharmacy and the prescription Drug
7 monitoring program does quite a good job with this.

8 I can look more into this and get you the
9 information about the discrepancy, but I do think
10 that the Department of Health has seen a decrease
11 in the percent of practitioners showing a drop in
12 prescribing the 100 morphine milligram equivalents,
13 but I can get you a decrease in this.

14 DR. BROWN: I think the important point to
15 be made -- and this relates to continuing
16 education -- is that it appears that there's a
17 special population of prescribers that we could
18 focus continuing education on, and that we would be
19 more successful in getting a better outcome.
20 That's the only point I'm trying to make.

21 DR. KATZMAN: New Mexico is one of the 16
22 states that did get the grant from the CDC, and one

1 of their components is doing a study looking at
2 just those prescribers. Thank you.

3 DR. WINTERSTEIN: I have a quick follow-up
4 question on this. The denominator on this slide,
5 is this every prescriber, or is this every
6 prescriber who writes for opioids? I mean, it
7 seems to me 50 percent still who write. I mean,
8 this is a fairly high dose. Would that surprise
9 you? What's the denominator there?

10 DR. KATZMAN: I don't want to be off, so I
11 will get you that data. Thank you.

12 DR. WINTERSTEIN: Dr. Gerhard?

13 DR. GERHARD: Also, a question for
14 Dr. Katzman. Toby Gerhard, Rutgers. This
15 obviously was a mandated education effort, and we
16 heard yesterday some comments that suggested that
17 clinicians weren't receptive to mandated education
18 efforts and there would be a lot of resistance or
19 poor learning outcomes in a sense.

20 What was your experience with a mandated
21 program in terms of the clinicians' receptiveness,
22 and participation, and so on?

1 DR. KATZMAN: Right. It still continues
2 four years later. Clinicians all around the state
3 are still participating robustly. I just actually
4 participated in a New Mexico Medical Society in
5 Greater Albuquerque Medical Association 5-hour
6 course last Saturday.

7 I gave 2 hours of the talk. I gave the
8 overview of the national crisis of opioid and
9 heroin deaths. I also gave the non-opioid
10 medication management. Three other clinicians gave
11 the other 3 hours. It was attended by 250
12 physicians. I heard no comments to why are we
13 having to take this. It was attended by
14 physicians, mid-level providers, dentists, and so
15 on.

16 Again, clinicians can get their CMEs also
17 through our Project ECHO program. They can get one
18 hour at a time. And with the Indian Health Service
19 program, like I mentioned, they get it through the
20 virtual platform as well.

21 Like Dr. Graham said, many learners know, as
22 you know, most of them are getting their CME

1 education virtually, and online, and with
2 case-based learning. Many of our original courses
3 at UNM were with vignettes, and standardized
4 patients, and case-based presentation. With the
5 DoD JPEP curriculum, that's an amazing way for a
6 DoD VA to obtain the CME as well.

7 DR. WINTERSTEIN: I have a quick follow-up
8 on this as well. Those extra 5 credits, CME, is
9 that part of the total credits that physicians have
10 to take, whatever that might be, 40, or is there an
11 add-on? So in other words, can they basically
12 count that to their total credit. So it's not
13 really an extra burden.

14 DR. KATZMAN: Yes. So it's not an extra
15 burden. The original thought was that it was going
16 to be a slippery slope. I've heard many things.
17 The original thought was from the New Mexico
18 Medical Board.

19 A member of the governor's council is also a
20 member of the New Mexico Medical Board, and there
21 was a thought originally, lots of thoughts, well,
22 why pain and addiction, why not diabetes, why not

1 cardiac? So the member of the New Mexico Medical
2 Board, who also sits on the governor's council,
3 really impressed upon the fact that there's a
4 crisis of undertreatment of chronic pain in this
5 country and also opiate overdose deaths. And it's
6 been working, and we've been continuing down that
7 road, but it was incorporated into the overall CME.

8 DR. WINTERSTEIN: Dr. Morrato?

9 DR. MORRATO: I also had a question for
10 Dr. Katzman, and it builds on what we've just been
11 talking. I was really struck by your comment,
12 "treat like a medical emergency," which sounds is
13 important and sounds like it's feasible within New
14 Mexico. If we're being asked how we might scale
15 this, if you will, to take it to a national level,
16 it would be useful to hear your thoughts.

17 If we think about scaling, it could be state
18 by state, as states like New Mexico have done in
19 trying to affect policies at the state level. It
20 could involve a separate REMS certification system
21 where we've heard about why build a separate
22 system -- that might be adding burden - or one

1 that's been discussed before is at a federal
2 licensure level through DEA licensing.

3 Maybe there's other opportunities as well,
4 but what advice would you have to us as we think
5 about taking New Mexico to scale? My impression is
6 that your state numbers probably aren't being
7 counted in the REMS numbers of doctors that are
8 prescribers that have been certified.

9 So we wouldn't want to complicate things
10 going on in New Mexico by doing something at a
11 federal level, so thoughts on how we might move
12 forward to take this to scale, I guess.

13 DR. KATZMAN: I've thought about this a
14 little bit. This is my passion. This is kind of
15 what I do on a daily basis. Yes, starting Project
16 ECHO in 2008, and what I do is I educate about
17 chronic pain. And I truly believe that the way to
18 combat the epidemic of unintentional opiate
19 overdose deaths is to really teach clinicians about
20 chronic pain.

21 You have to teach about chronic pain to get
22 at opioids. You have to teach both. The teaching

1 of non-opioid pharmacology, and pharmacotherapy,
2 and non- pharmacotherapy has to be built in there
3 as well. And that's why I think it has to be kind
4 of a full program so to speak.

5 I don't know if the model of New Mexico
6 would be the best approach state by state. I think
7 that's definitely one option. Another option would
8 be a DEA approach in terms of as you renew your DEA
9 license, you have to get the hours.

10 So that would be kind of my other thought,
11 to go to kind of the federal level. The IHS is
12 doing it. In order to be an IHS employee, you're
13 having to take the 5 hours.

14 The one thing about New Mexico is we are
15 tailoring our trainings, like Dr. Graham said, to
16 the state. And so cultural sensitivities come into
17 play. Just like the problem in Appalachia, they
18 might tailor their statewide education to the
19 problems in the region. Just like the problems in
20 Alaska, their region might tailor their trainings
21 to their region. So their clinicians might enjoy
22 the trainings better and take it to heart.

1 We teach a lot about naloxone in our
2 trainings now. We teach about the two FDA
3 products. We teach about the Good Samaritan law in
4 New Mexico. So that might be something to think
5 about if you're going to adopt kind of a DEA
6 approach, tagging it along to DEA licensure,
7 whether you're going to do a state-by-state
8 approach, whether you're going to do a restricted
9 REMS approach -- I mean, there are different ways
10 to do it -- or if you're going to continue along
11 unrestricted REMS.

12 So that's my thoughts.

13 DR. MORRATO: Thank you. So it also sounds
14 like, just to confirm that I heard correctly, as we
15 think about this, that content is important, that
16 it might be more of a thematic outline that allows
17 adaptation and that it's important that we teach
18 the broad issue of opioids and pain management as
19 opposed to just, let's say, focusing on extended-
20 release, long-acting in terms of from an
21 educational standpoint, and that it's important
22 that there's allowable adaptation over time

1 because, if this is a renewal process, it's going
2 to adapt with the messaging of the time.

3 So whatever's being built needs to allow
4 that.

5 DR. KATZMAN: Absolutely. For instance,
6 last year, we changed our slides. We have a half
7 an hour slide on federal and state guidelines
8 pertaining to controlled substances, so we had to
9 change our slides. As you know, hydrocodone was up
10 in terms of its schedule.

11 So we changed our slides; the same with
12 naloxone, the FDA approval of the nasal naloxone
13 formulation. So we're changing our slides every
14 time to adhere to best practices and what's the new
15 rules.

16 So all of this is changing just so much, so
17 we want to provide just-in-time best practices,
18 delivery, and because some of the schedules change
19 by state. But the DEA approach or the restricted
20 REMS approach, yes.

21 DR. WINTERSTEIN: Dr. Manzo?

22 DR. MANZO: Yes, a couple questions for

1 Dr. Katzman. Is the training required to be live
2 training? That's the first. And I guess the
3 second is, are you considering requiring a module
4 in treating overdose?

5 DR. KATZMAN: I'm not sure who spoke, but
6 okay. So the New Mexico Medical Board -- and I was
7 asked to speak strictly on that rule, the New
8 Mexico Medical Board rule. If you go to their
9 website, you see that they accredit many different
10 programs, whether it's our New Mexico course,
11 whether it's the New Mexico Medical Society course,
12 whether it's our ECHO Pain course.

13 You can take a 5-hour course. You can take
14 5 1-hour ECHO Pain courses, our ECHO Pain program,
15 in which you know ECHO pain has been replicated in
16 many other academic medical centers, by the Army,
17 by the Navy. And they offer 90-minute, 120-minute
18 weekly programs. ECHO Pain now will fulfill the
19 CME for this New Mexico licensure as well.

20 So the answer is you can take it live or
21 virtually with a videoconferencing platform. The
22 IHS program that's now mandated for all IHS

1 clinicians, it's a virtual platform.

2 DR. WINTERSTEIN: Just a quick reminder, we
3 are focusing on clarifying questions right now.
4 The discussion is coming after the public hearing,
5 so just in order to try to get this as efficient as
6 possible, Dr. Fry is next.

7 DR. FRY: Quick question for you. I worked
8 two years in Rio Arriba County, . and I know some of
9 the issues there would be the proximity to
10 Colorado. Has the Board of Pharmacy reached out
11 for the PDMP to get both states? I had patients
12 that would go both states depending on what they
13 wanted to get, so it would not show up when we did
14 the search.

15 DR. KATZMAN: Yes. I believe all
16 surrounding states to New Mexico are now included
17 except for Texas. That's been the one stickler so
18 far in terms of the PDMP. New Mexico has a pretty
19 robust PDMP system right now. It's almost
20 immediate. But yes. I hear you on that with the
21 crossover and Rio Arriba County is a real
22 challenge, Rio Arriba and Mora County, in terms of

1 the heroin and prescription drug epidemic.

2 DR. WINTERSTEIN: Dr. Buckenmaier?

3 DR. BUCKENMAIER: Trip Buckenmaier, Uniform
4 Services University. This is for Dr. Katzman. I
5 want to clarify one issue. It's my understanding
6 that you did not have granularity on your death
7 data as to what was prescription related and what
8 was illicit drug use.

9 My second question that I'd like you to
10 comment on -- and in full disclosure, the DoD has
11 drunk the purple Kool-Aid on ECHO. It's a very
12 important program for us. But could you comment on
13 the knowledge network that's developed?

14 You're the first clinician thus far that has
15 talked about actually reducing opioid use in
16 providers and using other mechanisms for therapy.
17 And do you have any metric that you could point to
18 on your success in that regard as far as building
19 these knowledge networks and changing the way
20 providers are practicing as far as therapies?

21 DR. KATZMAN: Thanks, Dr. Buckenmaier. So
22 the first question is that the OMI data in New

1 Mexico, I can get that for you in terms of what
2 these overdoses are due to. As you know, it's very
3 difficult to tell sometimes, is it heroin or a
4 combination of heroin and prescription drugs. We
5 definitely know that many of these deaths are
6 mixed. Many of them are not just opioids there.
7 They're opioids and benzodiazepines or opioids and
8 alcohol and other respiratory depressants.

9 The second is that our courses, especially
10 our University of New Mexico courses that we
11 studied, we started with in opening lecture. We
12 talked about the national crisis and why are you
13 here today. And we talked about the fact that you
14 might not prescribe any controlled substances, but
15 you're here because this is a national epidemic,
16 not only because of the undertreatment of chronic
17 pain in this country, but opioid overdose death
18 rates.

19 You're here because if you don't prescribe
20 opiates, you can still help because you're a
21 healthcare provider and you can teach your
22 community about safe and effective ways to manage

1 this epidemic. And then we go on, and our second
2 topic is screening for opiate overdose deaths and
3 ways to use screening in talking to patients and
4 getting their psychosocial history.

5 Our third talk is not about safe opiate
6 prescribing and using opiates, but our third talk
7 is non-opioid modalities because we believe that
8 that's what we really need to be teaching.

9 We need to be providing clinicians, all
10 healthcare providers, other ways to use
11 opioids -- other ways to manage pain, whether it's
12 non-opioid pharmacotherapy, gabapentin, neuropathic
13 agents, serotonergic oradrenergic reuptake
14 inhibitors, tricyclic antidepressants, and then
15 integrative approaches, exercise, diet, physical
16 therapy, rehab, acupuncture, and so on.

17 We teach you about best practices, evidence-
18 based approaches, integrative approaches. And then
19 we talk about, if you need opiates, this is how you
20 safely prescribe, beginning with immediate-release,
21 moving up, titrating up to long-acting, extended-
22 release, and so on. And then we talk about federal

1 and state guidelines.

2 So that's how we do it.

3 DR. BUCKENMAIER: Thank you.

4 DR. WINTERSTEIN: Dr. Emala?

5 DR. EMALA: So my question is also for
6 Dr. Katzman, slide 21. So we've heard a lot of
7 discussion yesterday and today about the
8 educational impact of the CE activities. But I
9 just want to make a point that the goal of the REMS
10 was not to assess education and prescriber
11 knowledge, but was to assess the impact on adverse
12 outcomes.

13 Those specific outcomes were addiction,
14 unintentional overdose, and death. So I think
15 slide 21 of your presentation is the one data slide
16 that attempts to get close to the charge of the
17 REMS program. And I just want to reinforce what
18 Dr. Buckenmaier already referred to, knowing what
19 portion of these are attributable to prescription
20 opioids versus heroin overdoses I think it's
21 imperative to understand the impact of this
22 educational program.

1 DR. KATZMAN: Yes.

2 DR. WINTERSTEIN: Do you have a direct
3 comment?

4 DR. KAYE: I have that data. It's from the
5 Albuquerque Journal. And it's 265 for prescription
6 opiates: 154 were heroin, 111 were
7 methamphetamines, and 70 was cocaine. And if you
8 look from 2013 to 2014 and you take out the
9 prescription opiates, 66 of those were from heroin,
10 methamphetamine, and cocaine.

11 If you go back to 2008 and line up
12 everything, you see that methamphetamines went up
13 from 23 to 111 prescriptions. Opiates we know have
14 gone up, 2 to 4 times depending on the state and
15 what year you compare it to, went from 256 to 265.

16 So in that regard, you might say with a
17 larger population and with the curve nationwide
18 being as it is that, actually, it is impactful
19 because it's mostly flat, probably statistically
20 insignificant. And if you look at the size, it's
21 probably an improvement per person prescription
22 overdose death.

1 Does that answer?

2 DR. EMALA: Yes. But just to follow up
3 again, this is surveillance data over time. And as
4 we saw countless times yesterday, we can't dissect
5 out the impact of this educational program against
6 other efforts that are being made as well.

7 DR. WINTERSTEIN: Just to clarify, you said
8 from 2008 to 2014, it's 256 to 265. That sounds
9 like a slight increase to me. I mean, it's not a
10 decrease. Basically, what you're saying is, it
11 might have plateaued.

12 DR. KAYE: What I'm saying that -- I figured
13 someone would ask. I didn't want to be too
14 compulsive. But I'm just guessing that the
15 population from 2008 to 2014 has gone up. So the
16 relative death by prescription opiates, I would
17 think, would have actually gone down. I can pull
18 it up and make a calculation if you want, but
19 certainly it's better than the national average,
20 which over, what, 10, 15 years is anywhere from 2
21 to 4 times increase in overdose death from
22 prescription drugs.

1 So in that regard, it's certainly better
2 than trends of the United States.

3 DR. KATZMAN: This is Joanna. I think that
4 the methamphetamine deaths were -- tell me if I'm
5 wrong, but I think you meant, they've gone up,
6 almost straight up, perpendicular.

7 DR. KAYE: Yes. It was 111 and that
8 compares to 2008 at 23. So just to be fair, I
9 don't know how much your course or your teachings
10 focused on methamphetamines. Since we're talking
11 about prescription opiates -- because we can't
12 control illicit drug use to be fair. These numbers
13 include cocaine, methamphetamine, and heroin, at
14 least from what I'm looking at on the internet.

15 DR. KATZMAN: We're Breaking Bad. We're the
16 City of Breaking Bad.

17 (Laughter.)

18 DR. WINTERSTEIN: We'll move on with
19 Dr. Auth now for the FDA presentation. We still
20 have a number of questions and people listed here.
21 We'll get back to that after Dr. Auth's
22 presentation, just to stay a little bit on time.

FDA Presentation - Doris Auth

1
2 DR. AUTH: Good morning. My name is Doris
3 Auth with the Division of Risk Management.

4 Yesterday, you were presented with a lot of data
5 from the assessment of the extended-release and
6 long-acting opioid analgesic REMS.

7 Later today, you'll be asked to discuss,
8 among other things, whether the data supports the
9 effectiveness of this program. You'll also be
10 asked to vote on whether any REMS modifications are
11 necessary. And this morning, I'll be presenting
12 some considerations for modifications to the
13 extended-release and long-acting opioid analgesic
14 REMS.

15 I'll first provide some information on the
16 current state of REMS programs, then walk through
17 the options available for modifying the REMS. I'll
18 also illustrate the operations of two restrictive
19 REMS programs, then provide some numbers of
20 stakeholders that may be affected if a restrictive
21 REMS for the extended-release and long-acting
22 opioids or the ER/LA plus immediate-release

1 products were approved, and finish with some final
2 thoughts on these modifications.

3 There are currently 75 REMS programs.
4 Thirty-five of these do not include elements to
5 assure safe use, or ETASU, while 40 have elements
6 to assure safe use. These elements were described
7 yesterday in detail in Dr. LaCivita's presentation.

8 Of these programs without elements to assure
9 safe use, there's an almost even split between
10 those that are medication guide only and
11 communication plan only, with a handful of programs
12 that combine these two elements.

13 Of the 40 programs with elements to assure
14 safe use, 33 of those are restrictive and 7 are
15 non-restrictive. I'd like to note that all of
16 these programs with elements to assure safe use may
17 also include a medication guide or communication
18 plan as a component of the program.

19 This is a slide you saw yesterday. These
20 ETASU programs that are restrictive require some
21 action on the part of the prescriber, pharmacy, and
22 patients in order to prescribe, dispense, or use

1 the drug. This is most often accomplished through
2 requiring certification or training of stakeholders
3 as well as documentation that a safe-use condition
4 was met prior to dispensing or administering the
5 drug.

6 An example of a safe-use condition would be
7 the verification that a patient has been enrolled
8 in the program and has completed a patient provider
9 agreement form, or PPA, prior to the pharmacist
10 dispensing the drug.

11 The only requirement in the current non-
12 restrictive ETASU programs is for the application
13 holder to make training available to likely
14 prescribers. The ER/LA opioid analgesic REMS is
15 one of these programs.

16 For these REMS with restrictive ETASU,
17 program participation varies widely. The numbers
18 on this slide were pulled from the most recent REMS
19 assessments for restrictive REMS programs. The
20 numbers do not include REMS approved recently as
21 these programs may still be in the implementation
22 phase.

1 For patients, participation ranges from as
2 few as 75 to as many as 235,000. For prescribers,
3 this ranges 84 to 18,000, and for pharmacies, as
4 little as 3 to as many as 47,000 pharmacies. We
5 have a table in the background document that also
6 illustrates that many of these restrictive REMS
7 programs are relatively small, and roughly
8 60 percent have less than 10,000 patients,
9 prescribers, and pharmacies participating.

10 This is likely due to the fact that many of
11 the REMS programs are for drugs that either treat
12 orphan diseases or other conditions with relatively
13 small patient populations.

14 Next, I'll describe options for modification
15 of the REMS. There are a couple of options, as we
16 heard yesterday, for modifying the extended-release
17 and long-acting opioid analgesic REMS. They're
18 categorized into either the scope, the elements, or
19 some combination of these two.

20 Focusing our modifications on the scope of
21 the program might incorporate revisions to the FDA
22 blueprint to include general pain management

1 principles, medication-assisted therapy for
2 addiction, the treatment of overdose, as well as
3 other topics.

4 Modifications to the scope of the current
5 REMS could also include incorporation of the
6 immediate-release opioids if it's believed that a
7 REMS for these products are necessary.

8 The ER/LA opioid REMS could also be modified
9 to include additional elements to assure safe use.
10 This would make the program restrictive. This
11 could include the requirement for prescriber
12 certification, pharmacy certification, or patient
13 enrollment.

14 You may recall from the presentation
15 yesterday that none of these elements can be added
16 in isolation, and the requirement for prescriber
17 education and certification under a REMS almost
18 always requires that pharmacies in turn become
19 certified in order to ensure that prescriptions
20 dispensed for the REMS product are only those that
21 are provided by prescribers who have been educated
22 and certified in the program. And finally, the

1 program could be modified to include an expansion
2 of both the scope and the elements.

3 Next, I'd like to illustrate the operation
4 of a couple of restrictive REMS programs that might
5 help to clarify how the modifications I just
6 described could be operationalized for either the
7 ER/LA or the ER/LA plus the immediate-release
8 opioids. Both of these examples are intended to be
9 a high-level overview of operations and do not
10 include all program requirements.

11 The first example is a transmucosal
12 immediate-release, fentanyl, or TIRF, REMS, which
13 is a shared-system REMS approved in December 2011
14 that currently includes 8 application holders.

15 The TIRFs are indicated for breakthrough
16 pain in cancer patients already receiving and
17 tolerant to around-the-clock opioid therapy for
18 management of their underlying persistent cancer
19 pain. The majority of formulations are indicated
20 for patients 18 years of age or older, and only one
21 of these is approved for those 16 years of age and
22 older.

1 Formulations include buccal tablets, buccal
2 film, a lozenge, a sublingual, and a nasal spray.
3 The TIRF REMS was designed to mitigate misuse,
4 abuse, addiction, overdose, and serious
5 complications due to medication errors associated
6 with these products.

7 In this next slide, I'm going to walk
8 through an overview of the requirements for
9 stakeholders involved in the outpatient
10 prescribing, dispensing, and use of the TIRF
11 products.

12 Requirements for inpatient prescribing,
13 dispensing, and use differ. First, prescribers are
14 required to review the educational program and
15 successfully complete a knowledge assessment to
16 become enrolled in the program. They must counsel
17 each patient on the risks and safe-use conditions
18 and complete the patient-provider agreement with
19 the patient.

20 Pharmacies also have the same education and
21 knowledge assessment requirement. They must
22 provide patients with a medication guide with each

1 prescription. Pharmacies actually enroll patients
2 into the TIRF REMS program upon the initial
3 prescription as long as the prescriber is enrolled.
4 There is a 10-day window that allows the patient to
5 receive the TIRF product prior to the REMS system
6 receiving that completed patient-provider agreement
7 form.

8 Pharmacies obtain authorization to dispense
9 based on the confirmation that patients and
10 prescribers are enrolled. Now, for outpatient
11 retail pharmacies, this is done through the claims
12 adjudication system or pharmacy switch system.
13 This allows for that authorization to occur within
14 the regular flow of the outpatient pharmacist
15 workload. This REMS authorization occurs prior to
16 any insurance authorization.

17 On the other hand, pharmacies operating
18 under closed-system health plans such as the VA,
19 Department of Defense, and some large managed
20 healthcare systems do not use this claims
21 adjudication system. Therefore, authorization to
22 dispense a TIRF in these systems must be obtained

1 through an entirely different process that entails
2 calling or faxing the REMS program for
3 authorization. And again, patients are required to
4 sign a patient-provider agreement as a safe-use
5 condition.

6 In this document, the patient is
7 acknowledging that he or she understands the risks,
8 the proper use, safe storage, and disposal of the
9 TIRF products.

10 The next example is isotretinoin or iPLEDGE
11 REMS. This is also a shared-system REMS that was
12 originally approved in 2005 and currently includes
13 6 application holders. The indication for
14 isotretinoin is severe recalcitrant nodular acne.
15 Patients typically receive isotretinoin for 4 to
16 6 months.

17 The risk that the REMS is designed to
18 mitigate is the risk of teratogenicity. The goals
19 of the REMS are to prevent fetal exposure and
20 educate patients, prescribers, and pharmacies about
21 the safe-use conditions.

22 There are many similarities between the TIRF

1 and the iPLEDGE program in terms of stakeholder
2 requirements. Prescribers have to review the
3 educational material in order to enroll in the
4 program, though there is no required knowledge
5 assessment. They're required to counsel all
6 patients and to enroll them by the appropriate risk
7 category.

8 For patients in the risk category of females
9 of reproductive potential, prescribers have to
10 document that safe-use conditions have been met,
11 both prior to the first prescription and upon each
12 monthly prescription.

13 These safe-use conditions include ordering
14 and reviewing pre-treatment and monthly pregnancy
15 tests. Prescribers also have to access the REMS
16 program either online or by phone each month to
17 document pregnancy test results have been
18 completed, and counseling has been completed, and
19 the safe-use conditions have been met.

20 Pharmacies also have educational materials
21 to review in order to enroll. They must also
22 provide a patient with a medication guide each

1 month. In addition, the pharmacies have to obtain
2 authorization to dispense by the REMS program.

3 This is where the TIRF and the iPLEDGE
4 programs differ. For the iPLEDGE program, this
5 authorization is done through the pharmacy
6 accessing a phone or web-based system that is
7 outside the pharmacy management software.

8 Pharmacies obtain an authorization number
9 through the REMS system that serves to document
10 that the safe-use conditions I've already described
11 have been met prior to dispensing. And finally,
12 all patients enrolled in iPLEDGE have to review and
13 sign an informed consent.

14 Those who are female of reproductive
15 potential have to agree to have pre-treatment and
16 monthly pregnancy tests. Patients also have to
17 access the REMS system each month and complete
18 monthly comprehensive testing questions on the
19 program requirements and document that they are
20 complying with their chosen form of contraception.

21 The next slide includes data on
22 participation for these two programs. Again, this

1 is from the most recent REMS assessment reviewed by
2 the FDA. For most of our REMS assessments, we ask
3 that the sponsor or sponsor groups provide the
4 number of active stakeholders during the assessment
5 period, which for prescribers, pharmacies, and
6 patients means those who have written, dispensed,
7 or received at least one prescription during the
8 assessment period, which is typically a 12-month
9 period.

10 The one exception to this -- actually not
11 the only exception. But the exception for the TIRF
12 program is that we currently receive the number of
13 newly enrolled patients. So this number of just
14 shy of 9,000, all the way on the right in the top
15 column, represents those newly enrolled in the last
16 assessment period. We expect that the actual
17 number of active patients may be higher.

18 Now, you can see, with the exception of the
19 participating outpatient pharmacies, the TIRF
20 program is relatively small. On the other hand,
21 the iPLEDGE program is larger and is in fact the
22 program with the most prescribers, pharmacies, and

1 patients currently enrolled.

2 So if you only consider the number of active
3 prescribers of ER/LA opioids, the number of
4 prescribers potentially impacted by a more
5 restrictive REMS for these products would be over
6 300,000.

7 Now, if the extended-release long-acting as
8 well as the immediate-release opioid products were
9 under a restrictive REMS, this could impact up to
10 1.5 million prescribers. That is currently the
11 number registered with the DEA. Assuming all
12 outpatient pharmacies would participate, the number
13 of pharmacies would be approximately 67,000.

14 Once again, these numbers are for outpatient
15 retail dispensing. An additional system would need
16 to be put into place to accommodate inpatient
17 dispensing if a more restrictive REMS for all of
18 these opioid products were required.

19 So if you recall, on both the TIRF and the
20 iPLEDGE overview slides, I mentioned that an
21 authorization to dispense is required each time a
22 prescription is dispensed by a pharmacist and that

1 the mechanism for obtaining this authorization
2 differs between these two programs.

3 This is a bar graph from IMS data of
4 outpatient retail prescriptions. It shows
5 dispensing of the TIRF products for the last five
6 years. So beginning in 2012, for each of the
7 prescriptions dispensed, which is the number above
8 the bar, an authorization was required by the REMS
9 program. For 2015, a little less than 91,000
10 prescriptions were authorized by the TIRFs.

11 I don't have a similar slide for iPLEDGE,
12 but from the most recent REMS assessment we
13 reviewed, there were approximately 1.2 million
14 authorizations granted, so about 91,000 for the
15 TIRFs, 1.2 million for our largest REMS program.
16 Keep these numbers in mind as I move to the next
17 slide.

18 I promise this is probably the last time
19 you're going to see this slide for this meeting.
20 It is helpful to look at this graph, though, again
21 in the context of how modifications to the current
22 ER/LA opioid REMS that would make the program

1 similar to either the TIRF or the iPLEDGE program
2 would impact a portion of the healthcare delivery
3 system. A restrictive closed-system REMS for the
4 ER/LA products alone would require over 20 million
5 pre-dispensed authorizations per year looking at
6 2015. Those would have to be obtained by
7 pharmacies prior to dispensing.

8 This number skyrockets if you consider a
9 restrictive REMS program that includes the
10 extended-release as well as the immediate-release
11 opioid products to roughly 150 million.

12 This may introduce significant burden on
13 prescribers and pharmacies and has the potential
14 also to negatively affect patient access. Again,
15 remember that this slide only shows outpatient
16 dispensing. We know that opioids are used in a
17 wide variety of settings. This would require that
18 additional systems be put into place in order to
19 allow opioids to continue to be used in these other
20 settings.

21 When considering the development of any REMS
22 program, the elements required to ensure safety

1 must be balanced with the potential program
2 burdens. We attempt to develop programs, keeping
3 in mind which elements are minimally necessary to
4 ensure safety as well as how those requirements
5 will be integrated into the current healthcare
6 delivery system.

7 So in summary, there are a number of options
8 to modify the extended-release long-acting opioid
9 REMS. The decision to modify this REMS must be
10 balanced with potential burdens on the healthcare
11 delivery system and potential negative impacts on
12 patient access. We look forward to your thoughtful
13 consideration of these issues and input at the
14 discussion this afternoon. Thank you.

15 **Clarifying Questions**

16 DR. WINTERSTEIN: We'll continue with our
17 questions. Next on the list here was
18 Dr. Garcia-Bunuel.

19 DR. GARCIA-BUNUEL: I actually have one
20 question for Dr. Katzman, actually, just a general
21 question about your activities in New Mexico. What
22 were the reasons that there was not an opiate dose

1 threshold included in your initial plan? Was that
2 based on other experiences in other states, and has
3 that been reconsidered?

4 DR. KATZMAN: It has not been reconsidered
5 at this time. I believe there might have been
6 another bill or two dropped not in the last
7 session, but in 2013 or 2014 legislative session in
8 New Mexico, but it didn't get very far, but it has
9 not been seriously reconsidered.

10 The worry was frankly kind of the chilling
11 effect of such a rural state, in many towns and
12 villages, the chilling effect of primary care
13 providers being worried about prescribing and the
14 thought that it would be better to take a more
15 collaborative educational approach rather than a
16 regulatory approach to physicians, and nurse
17 practitioners, and physician assistants, and rather
18 educate clinicians about better ways to take care
19 of chronic pain, and take the emphasis off opioids,
20 and put the emphasis more on best practices of pain
21 management.

22 DR. GARCIA-BUNUEL: Thank you.

1 Then I was going to ask Dr. Auth, just on
2 her presentation just now, is there data? As we've
3 been trying to discern, looking at the REMS over
4 the last day or so, trying to understand impact and
5 obviously trying to decrease the risk of the ER/LA
6 class, the two programs that you just described in
7 these restrictive programs, in your assessments,
8 have we seen hopefully a decrease in the risks or
9 the adverse outcomes associated with those
10 different agents?

11 DR. AUTH: I think, as I mentioned
12 yesterday, we're still evolving our science of
13 assessing REMS. And for some of these restrictive
14 programs, we are focusing heavily on knowledge as
15 well as processes and that the processes are being
16 implemented and being followed.

17 So for example, for the iPLEDGE program, we
18 do in our assessment receive the number of
19 pregnancies that were reported. And as you can
20 imagine, that is fraught with difficulties because
21 these are spontaneous reports. So we've received
22 those, and we ask that the sponsors follow up and

1 conduct root-cause analyses.

2 So each year, we are looking at the numbers
3 of pregnancies and what occurred. Obviously, we
4 know what occurred for the pregnancy, but just the
5 program broke down and why the patient became
6 pregnant. Did they not understand? Did they not
7 comply? Did the actual system fail and the patient
8 got an authorization when they shouldn't have?

9 For the iPLEDGE program, we also look at
10 those pre-treatment pregnancy tests and we look at
11 the number of exposures that were prevented through
12 the program. So we do have some of that
13 information.

14 I really am not prepared to speak so much
15 about the TIRF program. We do collect some
16 surveillance data. It looks like Dr. Hertz is
17 going to comment on that.

18 DR. HERTZ: What's important to recognize
19 with the TIRF program in particular is that these
20 products have never existed without some type of
21 risk mitigation strategy. With the initial
22 approval of the first of the class, there was a

1 risk mitigation strategy. It was before the REMS
2 authority was available to us.

3 Then each product that subsequently was
4 approved either had a risk map or was already in
5 that context, and then when we got the REMS
6 authority. So we don't have a before and after to
7 the same way we might have with some other
8 situations.

9 DR. WINTERSTEIN: Dr. Higgins?

10 DR. HIGGINS: This question is actually for
11 Dr. McMahon or Dr. Katzman. I'm particularly
12 interested in Dr. McMahon's slide 7 regarding the
13 participants, and I'm wondering if there has been
14 any subgroup analysis done on the method by which
15 people choose to be educated. It looks like a
16 number of people really wanted the internet-based
17 coursework. And I'm just wondering if you've
18 looked at age or any other demographics to explain
19 some of the differences in preference.

20 DR. MCMAHON: Thank you. The learning
21 preference is very substantially
22 intergenerationally, and those are changing

1 dramatically over time. You're seeing a wide
2 up-spring in the use of digital technology for
3 learning that's episodic and micro-bursts,
4 literally in 2- to 3-minute bursts between patient
5 visits to try and engage particularly
6 younger -- early-career clinicians.

7 However, you also see wide penetration of
8 internet-based learning for modular components of
9 curriculum in blended learning environments, so
10 those who need consolidation of their learning or
11 look for consolidation of their learning over time
12 turn to digital environments because of its
13 flexibility and its availability outside of office
14 hours or locations of work.

15 So those trends are continuing. Having said
16 that, it's very important to balance the learning
17 that can be achieved online with that achieved by
18 talking to a peer and collaborating with a peer
19 around solving a case. That tends to drive much
20 more higher levels of reflection and absorption of
21 information that's meaningful for the actual
22 learner.

1 So you are seeing trends towards an
2 expanding array of the use of digital environments
3 for maximizing learning, but the importance of a
4 variety can't be overemphasized.

5 DR. KATZMAN: This is Joanna. Do you mind
6 if I just comment on that? Our ECHO Pain program
7 is virtual and, again, the New Mexico clinicians
8 can get their CME for the New Mexico course
9 virtually. So our rural clinicians, who can't
10 drive 4 and 5 hours to Albuquerque, or Las Cruces,
11 or Santa Fe, can sign in if they have internet
12 connectivity. And they find that much more easy.
13 They don't have to take time away from seeing their
14 patients.

15 Then the prior question answered [sic], why
16 did not we impose opiate dosing thresholds, well,
17 states like Washington did that. New Mexico does
18 not have enough pain specialists to impose opiate
19 dosing thresholds. If you go above a certain dose,
20 you need to get a pain specialist and such.

21 What I might add is that we teach to this
22 all of the time. If you go above 90 morphine

1 equivalents or 100 morphine equivalents, we teach
2 about the dangers of this. We're always teaching
3 about best practices, about opiate dosing
4 thresholds. But we have many clinicians that would
5 much rather stay in their home or stay in their
6 clinic and take an online course, just as
7 Dr. McMahon said.

8 DR. WINTERSTEIN: Dr. Kaye, you did the epi
9 homework. And so the death rates in New Mexico
10 were, as you may recall, 256 opioid-related deaths
11 in 2008, and that's per 2.01 million people. You
12 may recall this went up to 265. There was a slight
13 population growth that equates to the exact same
14 incidence rate, essentially. So it's .127 per
15 1,000 population. So the message is, it's flat.
16 Thank you.

17 We should have people on call for stuff like
18 that. That's very handy. Dr. Stander?

19 DR. STANDER: Yes. Thank you. My question
20 is for Dr. Auth. The examples you gave of
21 restrictive practices were for two relatively
22 low-frequency-use medications, the fentanyl and the

1 isotretinoin, and there were other examples of
2 cardiac arrhythmics and so forth.

3 So if I understand you correctly, you're
4 extrapolating that process to the ER/LAs and
5 possibly the immediate-release. But that seems
6 impractical, as you've just described. And I was
7 under the assumption, or at least possibility that,
8 if we tied the training to DEA registration, then
9 you really wouldn't have to check, have a pharmacy
10 authorize each individual prescription. You would
11 simply say that, if this is being prescribed by a
12 practitioner who has the DEA license, then you
13 could go ahead.

14 I'm just trying to clarify that whole
15 process that you're suggesting.

16 DR. HERTZ: So I would perhaps suggest
17 that's a little more than clarification and perhaps
18 engaging in discussion. I mean, we gave you
19 examples of what we have and what's involved, and
20 it's going to be part of the discussion. I'd like
21 to hear a very robust discussion about the options.
22 We would like to hear that. So could we do that?

1 DR. STANDER: I'm fine to delay the further
2 discussion, but the implication was, if we're going
3 to have a restrictive REMS, this is the only way we
4 can do it, and it's going to have a million
5 authorizations or something. And I just wanted to
6 clarify.

7 DR. HERTZ: It's not so much it's an
8 implication. We have authority that's been
9 utilized, and this is what it looks like when it's
10 utilized. It's just the examples that we have.

11 DR. STANDER: Okay. So we can have more
12 discussion. I appreciate it. Thank you.

13 DR. WINTERSTEIN: Just to clarify this, it
14 appears that's the authority that's currently being
15 utilized consists of prescriber registration, which
16 is essentially handled by an external entity, which
17 is not the DEA, but perhaps a commercial entity or
18 whatever. And essentially, the only way for a
19 pharmacy to check whether the physician
20 registration has happened is to query this
21 consistently.

22 DR. STANDER: Right, which is probably

1 feasible with those kind of medications that aren't
2 prescribed that often, but it raises all kinds of
3 other implications on a much higher volume of
4 prescribing.

5 DR. WINTERSTEIN: If there were a controlled
6 substance prescription, which we know can only be
7 done by somebody who is DEA licensed, which in turn
8 might be linked to a particular certification, then
9 that request would go away. That's essentially
10 what you're --

11 DR. STANDER: Yes, exactly, thank you.

12 DR. AUTH: Right. That's correct. Each of
13 these programs has a REMS system that manages all
14 of these functions and that is a source of
15 providing those yes/no authorizations and captures
16 all of that. So that is correct. And you are
17 correct that most of these programs are very small,
18 and a lot of them are prescribers or specialists.
19 And it is a little bit easier to manage.

20 DR. WINTERSTEIN: Dr. Choudhry?

21 DR. CHOUDHRY: So I have three brief
22 questions, one for each of our speakers. So first,

1 for Dr. Katzman, I'm wondering if we know anything
2 about patient outcomes, not in terms of adverse
3 effects, but in terms of quality of life, pain and
4 suffering, disability, to the extent that there's
5 obviously a trade-off here. And this is the whole
6 debate about opiates in general and we don't want
7 anyone to suffer.

8 We all believe that reducing opioids won't
9 cause suffering, especially if there's multi-
10 modality therapy. But it'd be nice to know if
11 that's true. So maybe I'll just state the three
12 questions if that's all right so the other speakers
13 can think about them.

14 For Dr. McMahon, I'm curious about your
15 thoughts about mandated CME or education -- kind of
16 picking up on Professor Gerhard's comment -- and
17 its impact on behavior change. So what do we know?
18 Ultimately, we're trying to change behavior. We
19 heard a little bit about checkboxes, and ticking
20 the box, and other questions like this.

21 We all can imagine what that looks like, and
22 just if you had comments on the mandate and what

1 that does in terms of ultimate outcomes from the
2 adult education learner perspective.

3 For Dr. Auth, my question really is just a
4 clarification of what scope means. So we heard
5 yesterday about the duration of training, one stop,
6 2 to 3 hours being a barrier to completion. So I'm
7 wondering if in the mandate of changing the scope
8 is changing the method of delivery. I presume it
9 is, but I just wanted to get some clarification.

10 DR. AUTH: That's correct. That would all
11 be on the table under scope.

12 DR. CHOUDHRY: Perfect. So that's an easy
13 one. Please, Dr. Katzman and Dr. McMahon?

14 DR. KATZMAN: In terms of patient outcomes,
15 in terms of the New Mexico study that was published
16 in the American Journal of Public Health, the
17 IRB-approved study looking at the courses, we did
18 not look at patient level, the Mora's level 5 data
19 in terms of patient-level outcome, unfortunately.

20 We have looked at practice change effects
21 from our ECHO Pain program, our telementoring ECHO
22 Pain program, and looked at the benefits to

1 clinicians in terms of how it's affected their
2 practice change, so not directly patient-level
3 data. But clinicians that come in the ECHO network
4 routinely have told us in focus groups time and
5 time again that it significantly affects their
6 practice change; that their patients benefit, that
7 they feel as though they are improving their
8 knowledge, their confidence, their skills, and the
9 way they manage their patients.

10 We have published on that as well. Thank
11 you.

12 DR. WINTERSTEIN: One announcement for
13 the -- oh, sorry.

14 DR. MCMAHON: I was just going to follow up
15 Dr. Choudhry's question. Behavior change is
16 obviously very complicated, and mandates have a
17 complicated effect on behavior. If you really want
18 to drive somebody to change their practice behavior
19 in a formative way, you have to engage their heart,
20 and their soul, and their mind and generate durable
21 reflective practice.

22 Mandates are complicated because, while they

1 create an audience and our clinician community are
2 rule followers, you often engage them at the lowest
3 possible level. And you have the greatest
4 difficulty through mandates of engaging those who
5 need it the most in many cases.

6 So most educators feel that mandates can be
7 very counterproductive to actually changing
8 behavior. If you want to change behavior, you need
9 to engage people voluntarily so that they're
10 actually listening, they're open-hearted,
11 open-minded, and there to learn, not there to
12 follow a rule.

13 So we have to be very thoughtful about the
14 effect of mandates on potentially breeding in fact
15 cynicism and the worst possible outcomes for the
16 behavior change of our community.

17 While it may drive some numbers, it may not
18 create the behavior change that you're looking for
19 unless you offer the type of robust longitudinal
20 engaging materials that are attractive to learners,
21 that will ultimately engage them in self-reflection
22 and drive actual behavior change.

1 DR. WINTERSTEIN: One announcement for those
2 who have registered for the open public hearing,
3 there are a few people who haven't checked in at
4 the front desk yet. During the break, please make
5 sure you do so, so that we have you on the list for
6 speaking.

7 Among those, we still have at the list here,
8 in the interests of time -- are there anybody who
9 really has a clarifying question, not a discussion
10 question? I'd like to finish those and then have
11 the break. I see Ms. Shaw Phillips, and
12 Dr. Raghunathan, and Dr. Floyd, so maybe in that
13 order.

14 Anybody else? Okay. Just a number, that
15 sounds short.

16 DR. PARKER: Marjorie Shaw Phillips. This
17 is for Dr. McMahon, and this is related to outcome
18 assessments, evaluating continuing education. And
19 obviously, the long-term outcome evaluation data
20 that we got from the CE registrants nationally was
21 horrible if they only got follow-up for a few
22 hundred people.

1 I know it's certainly a trend, and I know in
2 pharmacy education, too, in querying attendees at
3 programs and saying how did you change your
4 practice, what did you do different.

5 Can you give us some feedback on what the
6 latest innovations are in continuing education and
7 what you would recommend for doing that evaluation
8 to ensure that attendees have that change of
9 behavior or have those skills, and what you would
10 suggest doing differently for a really meaningful
11 evaluation of educational programming?

12 DR. MCMAHON: That's a big issue. The first
13 reflection is that education is not an event; it's
14 a process. And think of education as completing a
15 series of tests and off you go; you're ready to do
16 whatever you need to do. It is a fundamental
17 misunderstanding of how our clinician community
18 prescribes, how they learn, how they practice.

19 Education has to be embedded in the system
20 of care in which they operate. Education that does
21 that is, for example, our accredited providers who
22 are based locally and disseminated around clinics

1 and hospitals around the country to develop a
2 curricula that ultimately supports clinicians to do
3 right by their prescribing practices.

4 Those systems, when correctly
5 constructed -- and about 60 percent of our
6 accredited providers, for example, are integrated
7 into quality systems in their institutions and
8 environments -- they can do much more sophisticated
9 outcomes-based assessments. They can look at their
10 own electronic medical record systems. They can do
11 audits of practice behavior locally and tie those
12 outcomes to local behaviors.

13 When you do that, you prove time and time
14 again that education is very effective. We know
15 that people can learn. That question has been
16 answered for millennia. But we know educational
17 structures, when put in place correctly, not only
18 drive learning, but meaningfully affect behavior.
19 And it's very hard to extract the value of
20 education and those outcome delivery systems from
21 the outcomes that you're seeing in terms of patient
22 outcomes because there are so many variables that

1 affect that.

2 The last thing I will tell you is that the
3 education community in the post-graduate space is
4 progressively augmenting their outcomes assessment
5 quality to the highest levels. So for example,
6 right now, though 60 percent of our activities are
7 designed to change performance, only about
8 40 percent are measuring some of those performance
9 outcomes nationally across every dimension of
10 curricula.

11 Although about 30 percent are designed to
12 create patient-outcome change, only about
13 11 percent are actually measuring that patient
14 outcome change because of the real challenge of
15 connecting patient outcomes to education.

16 But that number is rising fast and there are
17 plenty of efforts and structures developing to
18 support additional connection between the quality
19 of the education and the quality of outcomes and
20 trying to understand how to maximize that impact.

21 DR. WINTERSTEIN: Dr. Raghunathan?

22 DR. RAGHUNATHAN: I have this question for

1 Dr. Katzman. In your pre-post study, do you have
2 data on prescribing behavior of before and after of
3 your participants? So can you see whether or not
4 there has been a shift in the dose recalibration?

5 Are they changing from opioid to non-opioid
6 and also whether they are going from a high dose to
7 a low dose? And my second question is that your
8 online system, is that marginalized or is it one
9 setting for 5 hours?

10 DR. KATZMAN: The first question is, we do
11 not have particular data on those that took the
12 University of New Mexico course, what was their
13 prescribing behavior exactly before and after, are
14 they prescribing more or less opiates. We just
15 have the Board of Pharmacy dispensing data in
16 aggregate, unfortunately, to show because, for
17 instance, many of the University of New Mexico Pain
18 faculty taught in many of the other courses around
19 the state. So we were teaching all over the state
20 at the time and still are. So it's been a big kind
21 of public health endeavor.

22 The second is that the online, or the

1 video-conferencing platform, is one hour at a time.
2 So for the Project ECHO Pain, it's 1 hour or
3 2 hours at a time. The ECHO Pain is offered 12:00
4 to 2:00 in New Mexico, for instance, on a Thursday
5 afternoon. So they can get 2 hours of CME, no-cost
6 CME for free. Or they can claim 1 hour if they
7 attend for 1 hour.

8 DR. WINTERSTEIN: Dr. Floyd?

9 DR. FLOYD: So this is a clarifying question
10 for Dr. Auth about restrictive and non-restrictive
11 REMS. So you gave a couple examples of restrictive
12 REMS, which seem to have been effective in
13 preventing some adverse effects or reducing
14 prescribing.

15 Do you have any examples from all the other
16 REMS of voluntary REMS that were actually effective
17 in preventing adverse effects or reducing
18 prescriptions? Then the second part is, do you
19 have examples of restrictive that were just
20 education that were effective, so in either of
21 those areas?

22 DR. AUTH: I'm not quite sure I'm following

1 the question. I think you're asking whether we
2 have any data from the non-restrictive ETASU where
3 training is being made available. We do, and we're
4 particularly looking at uptake of the training.
5 That's one of the metrics that we use.

6 So just comparing this program with some of
7 those other programs, if you calculate, if you
8 ignore our performance metrics and just look at
9 320,000, there has been 66,000 educated. That's
10 about 21 percent. These other programs, the
11 highest we've gotten is 22 percent. And again,
12 it's a much smaller prescriber population.

13 I'm not quite sure I follow the second part
14 of your question.

15 DR. FLOYD: That's okay. Quick
16 follow-up --

17 DR. AUTH: You were asking about outcomes.
18 Right?

19 DR. FLOYD: Yes. So I'm not interested in
20 uptake or knowledge assessment.

21 DR. AUTH: Right. Sorry about that.

22 DR. FLOYD: I mean, actual prescribing

1 levels and adverse effects, do you have any
2 evidence that other REMS for other products have
3 been effective that were voluntary?

4 DR. AUTH: Again, we're using the same
5 metrics. We are looking primarily at knowledge.
6 We do ask for adverse event reports and look at
7 those in some of the programs. But again, that
8 data is often confounded by the spontaneous nature
9 of the reports.

10 I think probably where we get some really
11 good data is for the very restrictive programs,
12 where patients are required to enroll in a
13 registry. So we can actually capture what's
14 happening with those.

15 One of those programs is a Tysabri program,
16 where every 6 months, there are 4 filled about
17 events and continued use of additional drugs that
18 may impact the risk for PML. So for programs like
19 that where we have a very, very tight system, we're
20 able to get that information.

21 DR. WINTERSTEIN: But that wouldn't be a
22 voluntary education program.

1 DR. AUTH: Right.

2 DR. WINTERSTEIN: Dr. Morrato?

3 DR. MORRATO: My question is also for
4 Dr. Auth on the slide, I think it is 16, where you
5 talked about the stakeholders impacted. So this is
6 talking about the current isotretinoin program,
7 which is the result of many years of going from
8 voluntary efforts to a previous stage of smart
9 labeling, which is sort of in between where it is.

10 So to help us understand, really, the impact
11 on access, and burden, and chilling effect of
12 usage, do you have what the prescribing numbers or
13 the active patients or prescribers were when it was
14 at the voluntary level?

15 My sense is, it was much more widely used by
16 pediatricians, for example, and primary care. Now
17 it's largely by specialist. So that would give us
18 a sense of --

19 DR. AUTH: We had a public meeting about the
20 iPLEDGE program in 2011. I'm not sure if you
21 attended that. And I can give you some of that
22 information, but I think, just very basically, what

1 we did see was, when the iPLEDGE initially was
2 implemented, there was a dip in prescribing.

3 Then over the course of -- maybe Claudia can
4 help me out on this -- a period of time, the
5 prescribing levels were, again, about as high as
6 they were prior to the implementation. So there
7 were a lot of growing pains in just getting that
8 program implemented. But I don't think we've seen
9 a whole lot of difference in the actual numbers of
10 those who are prescribing.

11 DR. MORRATO: So that's good to know. Thank
12 you.

13 DR. MANZO: I think there probably were
14 prescribers that procedure it at very low levels
15 that decided not to prescribe it. But again, with
16 regard to the number of prescriptions, they almost
17 went up to what they were prior to the
18 restrictions.

19 DR. WINTERSTEIN: We will break now, and
20 we'll resume the meeting at 10:20.

21 (Whereupon, at 10:04 a.m., a recess was
22 taken.)

Open Public Hearing

1
2 DR. WINTERSTEIN: Let's get started with the
3 public hearing session. Both the Food and Drug
4 Administration and the public believe in a
5 transparent process for information gathering and
6 decision making. To ensure such transparency at
7 the open public hearing session of the advisory
8 committee meeting, FDA believes that it is
9 important to understand the context of an
10 individual's presentation.

11 For this reason, FDA encourages you, the
12 open public hearing speaker, at the beginning of
13 your written or oral statement, to advise the
14 committee of any financial relationship that you
15 may have with today's industry group, its products,
16 and if known, its direct competitors. For example,
17 this financial information may include industry's
18 payment of your travel, lodging, or other expenses
19 in connection with your attendance at the meeting.

20 Likewise, FDA encourages you, at the
21 beginning of your statement, to advise the
22 committee if you do not have any such financial

1 relationships. If you choose not to address this
2 issue of financial relationships at the beginning
3 of your statement, it will not preclude you from
4 speaking.

5 The FDA and this committee place great
6 importance in the open public hearing process. The
7 insights and comments provided can help the agency
8 and this committee in their consideration of the
9 issues before them.

10 That said, in many instances and for many
11 topics, there will be a variety of opinions. One
12 of our goals today is for the open public hearing
13 to be conducted in a fair and open way, where every
14 participant is listened to carefully and treated
15 with dignity, courtesy, and respect. Therefore,
16 please speak only when recognized by the
17 chairperson, and thank you for your cooperation.

18 Will speaker number 1 step up to the podium,
19 introduce yourself? Please state your name and any
20 organization you are presenting for the record.

21 DR. RUPP: Good morning. Thank you for the
22 opportunity to speak today. My name is Tracy Rupp.

1 I was previously a clinical pharmacist at Duke
2 University Medical Center and am now the director
3 of public health policy initiatives at the National
4 Center for Health Research.

5 Our research center analyzes scientific and
6 medical data and provides objective health
7 information to patients, providers, and
8 policymakers. We do not accept funding from the
9 drug or medical device industry, and I have no
10 conflicts of interest.

11 Our center strongly supports research and
12 programs to improve the safety and appropriate use
13 of opioids. In 2012, healthcare providers
14 prescribed enough opioid prescriptions for every
15 adult in the United States to have a bottle of
16 pills.

17 In 2014, more Americans died of opioid
18 overdose than in any other year on record. Amidst
19 a crisis of mounting deaths from opioid overdose,
20 we must reexamine whether REMS for opioids are
21 actually reducing the risks associated with their
22 use.

1 REMS were developed to enable the FDA to
2 approve drugs with serious risks like opioids by
3 providing a mechanism to mitigate those risks. But
4 as we've heard at this meeting, data from the
5 fourth REMS assessment show that we still don't
6 know whether opioid REMS are effective at reducing
7 either inappropriate prescribing or opiate
8 overdose.

9 Since only about 20 percent of long-acting
10 opioid prescribers have completed the voluntary
11 REMS training and 41 percent of prescribers are not
12 even aware such training is available, it's not
13 realistic to expect the program to have a
14 significant impact.

15 Of those who have completed the training,
16 the prescriber survey indicates gaps in knowledge
17 about initiation, modification, and discontinuation
18 of opioid therapy. Scale in these areas is
19 critical to safe and appropriate opioid
20 prescribing.

21 It's very disappointing that so few
22 prescribers have been trained, and after repeated

1 REMS assessments, we still don't know if opioid
2 REMS are effective even when prescribers are
3 trained. For those reasons, we support a mandatory
4 prescriber training program that is linked to a
5 prescriber's DEA registration and rigorously tested
6 for its ability to mitigate the risks of opioid
7 use.

8 The less-than-rigorous approach to studying
9 the effect of REMS should not be acceptable to any
10 of us, given the scope of the opioid overdose
11 problem. FDA reviewers pointed out many
12 limitations in the applicant's patient and provider
13 surveys.

14 For example, the prescriber's study sample
15 was not randomized or self-controlled with pre- and
16 post-test comparisons. Self-reported behavior was
17 not validated out of prescribers or patients, and
18 we don't know how the survey population compares to
19 the targeted population. It's also not possible to
20 know whether the REMS training itself is
21 responsible for the observed changes in opioid use
22 since the changes began prior to the implementation

1 of REMS.

2 We strongly urge the FDA to require a more
3 rigorous evaluation of the REMS training where
4 actual behavior rather than self-assessed behavior
5 or knowledge is studied. The study should be a
6 well-controlled longitudinal study with the
7 behavior of prescribers who have taken the training
8 compared to behavior of those who haven't received
9 training.

10 The study should also be designed to tell us
11 whether the opioids that are prescribed are being
12 prescribed appropriately at the patient level. We
13 also support expansion of REMS to include
14 immediate-release forms of opioids. Most patients
15 who start taking opioids are initially prescribed
16 immediate-release products.

17 There is some evidence of an increase in the
18 use of some immediate-release opioids under some
19 circumstances. For example, drug patterns and
20 prescribing data show that, despite a decrease in
21 overall immediate-release opioid use, the use of
22 immediate-release oxycodone actually increased.

1 Similarly, self-reported non-medical use of
2 short- and long-acting opioids increased among
3 college students in the years since REMS have been
4 required. Effective REMS could potentially help
5 reduce the inappropriate use of immediate-release
6 opioids.

7 Lastly, we urge the FDA to perform its own
8 assessment of the effectiveness of opioid REMS on
9 an ongoing basis and make the data publicly
10 available on FDA's website. Currently, REMS
11 assessments are completed by the application holder
12 and reviewed by the FDA. This process cannot
13 ensure that assessments are unbiased, accurate, or
14 rigorous.

15 Given the enormous cost of opioid abuse in
16 terms of human life, quality of life, family
17 tragedies, and lost productivity, we must be
18 certain that REMS assessments are providing
19 unbiased information about the effectiveness of the
20 program. Making the data publicly available would
21 allow stakeholders to perform their own assessment
22 of the program's effectiveness.

1 In conclusion, if we want to reduce deaths
2 and addiction due to opioids in the United States,
3 we must demand more from everyone involved.
4 Prescribers must be better informed, REMS
5 assessments must be more rigorous, and the data
6 must be transparent.

7 We must all work together to find a more
8 effective solution to the challenge of opioid
9 abuse. Thank you for the opportunity to comment
10 today and for consideration of our views.

11 DR. WINTERSTEIN: Thank you. Would speaker
12 number 2 step up to the podium, introduce yourself?
13 Please state your name and any organization you are
14 representing for the record.

15 MS. ZIMMER: Good morning. I'm Phyllis
16 Zimmer, president of the Nurse Practitioner
17 Healthcare Foundation, a faculty member at the
18 University of Washington School of Nursing and a
19 board-certified nurse practitioner. The Nurse
20 Practitioner Healthcare Foundation is a member of
21 CO*RE. I have no conflicts of interest to report.

22 This testimony was prepared with

1 consultation from Dr. Paul Arnstein and Dr. Barbara
2 St. Marie, national experts in the area of pain
3 management. Many patients with serious conditions
4 experience chronic pain and deserve safe and
5 effective treatment to achieve a reasonable quality
6 of life. Some of these patients require the use of
7 opioids to effectively manage their pain.

8 At the opposite end of the spectrum,
9 however, is the drug-seeking individual, who may
10 abuse, misuse, or divert opioid meds. In the
11 middle are patients who begin with legitimate
12 opioid therapy, but who may become addicted to
13 their medication, or may become drug seeking.

14 The clinician has to make a series of
15 complex clinical decisions each step of the way,
16 balancing safety, efficacy, and harm reduction.
17 Healthcare professionals are not adequately
18 prepared to address these patient care conundrums.

19 The term "medical signature" is used to
20 describe the way you've always done it, meaning
21 that you have adopted usual ways of practicing, or
22 in this case, prescribing. Most medical signature

1 is congruent with training as clinicians, and most
2 of the time, it's a good thing, where the usual
3 care that you provide your patient is evidence
4 based, safe, and meets guidelines for best
5 practice. But medical signature gets you into
6 trouble when it's based upon a practice that is
7 outdated or incorrectly applied to the case being
8 considered. Then medical signature leads to
9 incorrect care or medical error.

10 To prevent such errors, we need to replace
11 outmoded or inaccurate medical signatures with new,
12 more appropriate ones that will lead to better
13 clinical practice.

14 Education is absolutely the key to
15 converting to a new more appropriate medical
16 signature, especially with a clinical issue as
17 dangerous and complex as opioid therapy.

18 Significant, varied, consistent, and ongoing
19 interprofessional, educational efforts are
20 required.

21 Through our educational programs, the Nurse
22 Practitioner Healthcare Foundation has educated

1 thousands of NPs on just these clinical issues.
2 The result has been relearned medical signatures
3 and improved practice. Prescribing behavior,
4 practice protocol, and systems of care delivery
5 have been upgraded and monitoring has been put into
6 place. The outcome has been improved quality and
7 safety of care for patients on therapy.

8 With that brief background, we would like to
9 offer the following comment and recommendations.

10 The ER/LA opioid REMS have been a positive
11 step for changing practice. The program has
12 propelled healthcare professionals to examine their
13 practices and adopt new practice patterns. The
14 REMS have not been an undue burden and have not
15 limited access for those who require therapy.
16 Continuing education is an effective method for
17 achieving learner engagement and practice change.

18 When provided by peer experts, education is
19 one of the most effective approaches to breaking
20 poor medical signature and adopting safe and
21 effective practice patterns. Although we're well
22 on the way to achieving a new, safer, and more

1 effective medical signature in opioid management,
2 all of our efforts must continue.

3 However, we would offer the following
4 changes to enhance the effectiveness of the
5 program. One, the immediate-release, short-acting
6 opioids should be included in a blueprint that
7 addresses both the ER/LA opioids and IR/SA opioids.
8 A particular education point would be the role of
9 opioids as part of a multi-modal therapeutic
10 approach.

11 Two, chronic pain management is most often
12 an interdisciplinary team effort, not the sole
13 responsibility of one prescriber. Therefore,
14 education should include all appropriate members of
15 the team.

16 Three, the revised FDA blueprint should be
17 incorporated into the pharmacologic curriculum of
18 health professional educational programs across the
19 health disciplines. Resources such as the core
20 curriculum could be used to achieve rapid
21 implementation of that recommendation. In
22 addition, it may be helpful to work with program-

1 accrediting agencies to align curriculum with
2 national guidelines.

3 Currently, a number of REMS-compliant
4 education programs are done outside of the
5 RCP-funded mechanism and are not reported to the
6 FDA. The tracking and reporting system should be
7 modified to include these learners. And it's
8 important to streamline the process as the current
9 system is quite burdensome.

10 Thank you for the opportunity to present
11 testimony.

12 DR. WINTERSTEIN: Thank you. Will speaker
13 number 3 please come to the podium? Please
14 introduce yourself, state your name, and the
15 organization you may be affiliated with.

16 MR. PHILIPS: My name is Julian Philips, and
17 I am an ambassador with the U.S. Pain Association,
18 a foundation. First off, whatever I say today,
19 please don't get away from the fact that I do
20 applaud the FDA for trying to create a good
21 training basis for our practitioners, nor do I want
22 you to think that I am in any way not empathetic or

1 sympathetic to anybody that may pass away from the
2 use of opiates or any other medication or drug.

3 That's far from the truth.

4 However, with all of that said, just let me
5 give you a brief outline of who I am and why I'm
6 here. I started off, as you can probably tell, in
7 the United Kingdom. My pain started 34 years ago
8 with a dislocation of that finger that is no longer
9 there.

10 From that dislocation, ultimately, they
11 decided that the best thing to do to get away from
12 the pain was to remove the finger. Well, that
13 didn't work because it just spread.

14 I went through all sorts of modalities,
15 whether it was acupuncture, regular medication. I
16 went through everything they possibly could throw
17 at it, and all that happened was it consistently
18 got worse. I came to the United States in the
19 hopes that maybe I could have a better quality of
20 life by living in Florida. Well, that really
21 didn't work out too well because, again, the pain
22 continued.

1 I ultimately had a spinal column stimulator
2 implanted. That's helped a little bit. I came up
3 to Pennsylvania and, due to the work that I was
4 doing, I became more and more pained, and
5 ultimately more and more medication was tried and
6 started to help give me a little bit better quality
7 of life to the point now that I am on opiates.

8 Do I like it? No. I suffer with horrendous
9 OIC, opiate-induced constipation, not a topic that
10 anybody likes to talk about. But let me tell you,
11 it's not fun. Would I want to get off opiates?
12 Absolutely. But the point is -- and this is what
13 everybody forgets -- we are human beings and we
14 feel.

15 I feel pain every day. I can't get away
16 from it. It doesn't matter whether you make my
17 doctor do more education or less education. He
18 can't get away from the pain. All he can do is
19 help me go through and have a slightly better
20 quality of life.

21 It wasn't long ago, approximately five
22 years, that for the first time in my life, I

1 seriously considered suicide. I very seriously
2 considered it. There are people that have gone
3 through with suicide because they can't find pain
4 management doctors who will prescribe opiates. In
5 fact, in Tennessee, two pharmacists just recently
6 have refused to give out opiates. I don't mean
7 give it out, but you know what I'm saying? They
8 won't give opiates out now because there's too many
9 restrictions. And yes, you need to continue
10 education, but you've got to make sure that it
11 doesn't become overburdening.

12 When I was in business, especially in
13 England, right at the beginning of the EEC, we had
14 business. We could do certain things. And then,
15 suddenly, we couldn't do X, Y, or Z without this
16 form or that form. And then there was another
17 restriction that came in, and then another
18 restriction. And eventually, it came to the point
19 where business was no longer fun to do because we
20 were becoming overburdened with things that we had
21 to do by law.

22 You can see the same thing happening here.

1 There's too many factors occurring. Nobody should
2 die from opiate overdose. I don't even understand
3 how anybody can. I have never had a high from
4 opiates, never. I have one doctor to prescribe. I
5 have one pharmacy that gives them out. My wife
6 keeps them in a locked container. And she puts
7 them in little doohickeys, whatever you want to
8 call them, so that this time, I know I take that,
9 and at that time, I take that, and et cetera,
10 et cetera, et cetera. So I never have the
11 opportunity of overdosing. I just don't see how
12 it's going to happen.

13 Remember something else I found out
14 yesterday. Yes, again, it's important to stop
15 opiate overdose, but the third reason of death in
16 this country, one, heart; two cancer; three,
17 medical errors in hospitals. We need to remember
18 priorities.

19 DR. WINTERSTEIN: Sir, please end in a
20 second, just as a --

21 MR. PHILIPS: I thought I could have extra
22 time because I'm sure there won't be somebody here

1 that's talking.

2 Thank you. Thank you very much for
3 listening to me.

4 DR. WINTERSTEIN: Thank you.

5 For all the public speakers, you are given
6 five minutes, so you will see a light start
7 blinking in yellow when the last minute is
8 starting.

9 Will speaker number 4 come the podium and
10 please introduce yourself? Please state your name
11 and the organization you are representing.

12 MR. PITTS: Thank you. My name is Peter
13 Pitts. I'm the president of the Center for
14 Medicine in the Public Interest, and I have
15 received no stipend or compensation to be here
16 today.

17 To paraphrase Peter Drucker, the information
18 revolution will shift from the generation of data
19 to figuring out the meaning and purpose of the data
20 with the patient's perspective in mind.

21 Nowhere is this more pertinent than in the
22 discussion of the future of opioid pain medicine,

1 and the role of the FDA, and advancing both the
2 science and regulatory approaches to appropriate
3 pain care management. But cutting the Gordian knot
4 of what appropriate means demands more than current
5 REMS programs. It requires working with the
6 providers of continuing medical education to
7 develop better curriculum. It means ever-better-
8 validated risk evaluation and mitigation strategies
9 with more thoughtful purpose.

10 It means enhanced and validated reporting
11 tools for post-marketing surveillance. It means
12 using real-world data to provide real-world advice.
13 And it means using the tools of the 21st century,
14 such as patient and physician apps.

15 The FDA can play an important role in
16 working to develop and share with broad
17 constituencies validated tools for physicians to
18 use in determining which patients may be more prone
19 to slide into abuse so they can choose their
20 therapeutic recommendations more precisely.

21 One improvement will be to improve the
22 accessibility of the ER/LA opioid and analgesics

1 REMS website so that interested healthcare
2 providers can more easily access accredited
3 REMS-compliant material. We must also work to
4 continue and expand REMS to include the extended
5 healthcare team, as you've heard already this
6 morning.

7 Education of team members beyond analgesic
8 prescribers is critical for implementation of REMS
9 learning. We should revise the FDA blueprint for
10 prescriber education to reflect stakeholder input
11 and feedback.

12 We should link Schedule II and Schedule III
13 narcotics DEA registration and re-registration to
14 either completion of prescription opioid education
15 or other acknowledgements such as board
16 certification in pain medicine. We should include
17 IR opioids in the REMS modification discussion.
18 It's where the overwhelming volume is.

19 With the data collected from REMS programs,
20 a logical next step is to utilize that real-world
21 data to amend product-specific labeling to indicate
22 lessons learned outside the verified world of the

1 randomized clinical trial environment to assist
2 physicians in using the right product for the right
3 patient.

4 Real-world evidence doesn't just mean
5 recognizing new risks, but also communicating new
6 benefits learned through patient outcomes, and such
7 evidence is both available and exciting.

8 Beyond the REMS programs discussed during
9 the course of this meeting, the FDA has required
10 all sponsors of brand-name products with approved
11 abuse-deterrent labeling to conduct long-term
12 epidemiological studies to assess their
13 effectiveness in reducing abuse in practice.

14 Then there's the thorny question of FDA
15 labeling. Product labeling is the basis for
16 articulating the value proposition of a product.
17 As you are aware, data definition and generation
18 are very much still a work in progress, as is their
19 relationship to clinical relevance.

20 No absolute magnitude of effect can be set
21 for establishing product characteristics. And the
22 FDA continues to talk about the ambiguous totality

1 of evidence standard, which really means using
2 their best regulatory judgment, and that's
3 appropriate.

4 One crucial question that deserves more
5 conversation is the nature of the evidence used to
6 decide whether or not a given product works to
7 reduce abuse in the real world. Given the data
8 challenges, it may be almost impossible to ever
9 demonstrate a causal link between a new formulation
10 and an impact on patient abuse.

11 But is that because the product didn't have
12 an effect or current measurement methodologies and
13 data systems are inadequate to detect it? The path
14 forward is unclear. Is real-world data reliable
15 and robust enough? Should the FDA define and then
16 assign various statistical weights to comparisons
17 and population studies?

18 At the end of the day, the agency can't only
19 look to REMS for risk mitigation, but must also
20 seek out data that supports more aggressive
21 labeling language. Obviously, more work needs to
22 be done in order to refine optimal data sources,

1 study design, statistical methods, and
2 epidemiologic outcomes of interest to developers,
3 physicians, patients, and regulators.

4 No one group can do it by themselves. We
5 need a more aggressive, creative, and collegial
6 approach to the pain management ecosystem. Thank
7 you.

8 DR. WINTERSTEIN: Thank you. Will speaker
9 number 5 step up to the podium, introduce yourself?
10 Please state your name and any organization you are
11 representing for the record.

12 MS. LOWE: Good morning. My name is Maria
13 Lowe, and I'm representing Patients Like Me. I
14 currently serve as a pharmacist on the health data
15 and clinical informatics team at Patients Like Me,
16 and I have no financial conflicts to disclose.

17 Founded in 2004, Patients Like Me is the
18 largest online patient-powered research network
19 with over 430,000 registered members reporting data
20 covering more than 2500 different conditions.
21 Patients track their health, connect with others
22 like themselves, and learn from patterns in their

1 own data or from data shared by others in the
2 community.

3 Together, with our patients, we have led the
4 advancement of patient-generated health data over
5 the last decade. By using both quantitative and
6 qualitative data collection methodologies, we
7 proactively and transparently engage our patient
8 members as true partners.

9 Patients share their data and contribute to
10 innovation across the health ecosystem from
11 clinical research and regulatory science all the
12 way through care delivery. Our research portfolio
13 includes over 70 publications of internally- and
14 externally-initiated projects to help answer
15 questions that matter to patients.

16 At our core, we try to help patients answer
17 a fundamental yet complex question. Given my
18 status, what is the best outcome that I can hope to
19 achieve and how do I get there?

20 As of March 1st of this year, 24,646 members
21 of our community had reported taking an opioid
22 medication at some point, with nearly 3,000

1 reporting the use of an ER/LA product. No doubt,
2 our patients want to ensure the safe and effective
3 use of opioids while minimizing barriers to
4 accessing effective pain management. Yet, we
5 suspect many of these patients are not even aware
6 that the products they are using are subject to
7 this REMS program.

8 Increasing transparency for patients
9 provides an opportunity to engage them in sharing
10 accountability for achieving the goals of this REMS
11 and for better understanding if they are deriving
12 benefit from these treatments.

13 As a result, Patients Like Me is proposing
14 two specific recommendations for the committee's
15 consideration, framed in the context of empowering
16 patients as partners to help mitigate risks and
17 prevent adverse outcomes when using these agents
18 and to proactively participate in assessing and
19 measuring the effectiveness of this REMS.

20 Our first recommendation is the development
21 of a blueprint for patient education. While the
22 results of the patient knowledge survey offered

1 encouraging findings for key domain questions, we
2 found the questions posed to survey respondents
3 offered more detailed examples of potential adverse
4 events and used more patient-friendly terms than
5 the information provided in either the patient
6 counseling document or medication guides that are
7 currently available for use in clinical practice.

8 While these individual documents could be
9 improved, we instead recommend that the FDA
10 develop, in partnership with patients, what we are
11 calling a blueprint for patient education. Such a
12 resource could provide patients with the
13 information needed to build their knowledge and
14 understanding of these products.

15 A blueprint for patient education could
16 serve as a companion to the available blueprint for
17 provider education, with both documents aiming to
18 facilitate the education of a key stakeholder in
19 the prescribing and use of these agents.

20 Pairing patient-focused educational
21 materials with provider education programs supports
22 shared accountability for treatment decisions and

1 outcomes and encourages patient empowerment by
2 providing access to relevant educational
3 information and data about opioid use.

4 The goal is to ensure that patients are
5 equipped with sufficient information to self-
6 identify their real or potential risks and
7 participate as true partners in their treatment
8 planning.

9 Our second recommendation is to create a
10 patient-reported ER/LA REMS evaluation tool. We
11 feel it is important to provide patients access to
12 an automated tool for evaluating their experience
13 with ER/LA medications and to the associated REMS
14 requirements. Through the use of a patient-facing
15 data collection platform such as Patients Like Me,
16 patients can monitor and track their experience
17 with these products, including their perceived
18 effectiveness along with the occurrence and
19 severity of side effects.

20 Such a resource should not only allow
21 patients to share insights, but share data back
22 with them to allow patients to learn from others

1 regarding their experience with pain and pain
2 management intervention, further empowering them to
3 feel like partners in their healthcare decision
4 making.

5 We believe these two recommendations
6 represent innovative methodologies that can support
7 the goals of patients, providers, and the FDA.
8 Thank you for your attention.

9 DR. WINTERSTEIN: Thank you. Would speaker
10 number 6 step up to the podium, introduce yourself?
11 Please state your name and the organization you are
12 representing for the record.

13 MS. KULKARNI: Good morning. I'm Shruti
14 Kulkarni, and I'm a policy advisor to the not-for-
15 profit Center for Lawful Access and Abuse
16 Deterrence, CLAAD. Our organization works to
17 reduce prescription drug fraud, diversion, misuse,
18 and abuse, while advancing consumer access to high-
19 quality healthcare. CLAAD's funders include
20 treatment centers, laboratories, and pharmaceutical
21 companies and are disclosed on our website at
22 CLAAD.org.

1 Thank you for the opportunity to offer
2 comments regarding risk evaluation and mitigation
3 strategy for extended-release and long-acting
4 opioid analgesic medications. Today, we're
5 discussing REMS for ER/LA opioid pain relievers,
6 but CLAAD encourages the FDA to apply REMS safety
7 measures to reduce misuse and abuse to immediate-
8 release opioids as well as controlled medications
9 and other drug classes.

10 We base this recommendation on the following
11 fact, among others. Seventeen percent of college
12 students abuse prescription ADHD medications.
13 Benzodiazepines are present in 50 percent of drug-
14 related overdose deaths in some states. Controlled
15 sleep medication is the most common date-rape drug,
16 and now, there's even a so-called Ambien defense to
17 crimes, including murder.

18 Like FDA, we support mandatory prescriber
19 training on responsible prescribing practices. Our
20 analysis has concluded that mandatory prescriber
21 education can be structured under current FDA REMS
22 authority. Specifically, elements to assure safe

1 use may include specific training, experience, or
2 special certification for prescribers.

3 Currently, before dispensing a prescription
4 medication, pharmacies utilize switch systems that
5 transmit transaction details to a third-party payer
6 and wait for approval, a process that generally
7 takes less than a second.

8 The RPC could work with pharmacy industry to
9 develop a database for integration with existing
10 pharmacy switch systems to verify prescriber
11 certification. This plan provides for mandatory
12 prescriber education without changing federal law,
13 involving the Drug Enforcement Administration,
14 overburdening the healthcare delivery system, or
15 hindering consumer access to medications.

16 Like the RPC, we recognize the value of
17 educating the extended healthcare team, including
18 healthcare providers who are not prescribers of
19 opioids. The extended healthcare team plays a
20 vital role in care coordination and can prevent
21 inappropriate prescribing, medical mistakes, and
22 other adverse events. The RPC has earned our

1 appreciation for educating so many members of the
2 extended healthcare team.

3 Finally, CLAAD reiterates the RPC's
4 recommendation that federal agencies like FDA and
5 NIDA work together to develop consistent
6 professional education curricula. Newly-integrated
7 provider education courses should include greater
8 detail on best practices for prescribing controlled
9 prescription medication, including verifying
10 through definitive urine drug testing that patients
11 are taking prescribed medications and not illicit
12 substances or medications not prescribed to them,
13 and referring patients with inappropriate substance
14 use to a higher level of care, which may include
15 addiction treatment.

16 CLAAD is available to FDA and RPC to provide
17 more information on our prescriber certification
18 analysis and the other recommendations we have
19 shared with you today. Thank you.

20 DR. WINTERSTEIN: Thank you. Would speaker
21 number 7 please step up to the podium, introduce
22 yourself? Please state your name and any

1 organization you are representing for the record.

2 MS. FOSTER: Good morning. My name is Wendy
3 Foster. I'm the senior state advocate for U.S.
4 Pain Foundation. Neither U.S. Pain Foundation nor
5 myself receive any compensation or have any
6 conflicts.

7 U.S. Pain is a national organization founded
8 by people with pain for people with pain. Our
9 mission is to support, empower, educate, and
10 advocate for the chronic pain community. U.S. Pain
11 is the largest pain organization in the country
12 with more than 75,000 members nationwide. Today,
13 though, I come before you as a person living with
14 chronic pain.

15 I have an undiagnosed neuromuscular disease
16 for nearly 24 years, which causes bilateral
17 restrictive lung disease secondary to a proximal
18 myopathy. I have asthma, severe migraines, spinal
19 stenosis, arthritis in my hands, effects from a
20 stroke, and Parkinson's disease.

21 The pain in my spine severely limits the
22 time spent standing and sitting, and I am unable to

1 walk very far without sitting. The Parkinson's
2 tremors in my hands and legs causes increasing pain
3 daily, pain that I can't escape from.

4 In the past, I have used opioids, and it has
5 allowed me to go camping with my family, attend
6 concerts and plays that my children were in, and
7 attend family functions. I love to read and
8 crochet, and the medication would allow me to sit
9 and enjoy what I was doing. It would also allow me
10 the time to work with my service dog and take him
11 for brief walks.

12 I'm not alone on this pain journey.
13 Thousands of our members live with severe disabling
14 pain. Unfortunately, finding the right combination
15 of medication, physical therapy, complimentary
16 therapy is trial and error for each pain warrior to
17 find what works best for them to keep their daily
18 pain at a manageable level.

19 The Institute of Medicine has reported that
20 100 million Americans live with pain, and at least
21 10 percent of those, or 10 million Americans, have
22 pain so severe that they are disabled by it.

1 Opioid analgesics don't help everyone who lives
2 with chronic pain, but they do help many thousands
3 of Americans to function and have some quality of
4 life.

5 For these people, their medication is often
6 a lifeline that can make the difference between a
7 life worth living or an existence too painful to
8 endure. In my case, opioids can help somewhat with
9 my spine and hand, but not with my migraines or
10 Parkinson's.

11 The question at hand is to consider what
12 changes should be made to the extended-release,
13 long-acting opioid analgesic REMS program. The
14 central component of the program is the medical
15 education that has been created for providers and
16 it is imperative that prescribers are trained on
17 understanding the appropriate use of medication
18 they select for their patients.

19 I believe the FDA should be commended for
20 the efforts that have been made so far to create
21 high-quality training materials for practitioners.
22 However, I also feel that it is critical that any

1 efforts to expand and enhance the REMS training
2 programs for healthcare providers do so in
3 accordance with the professional education and
4 training objectives and strategy called for in the
5 recently released National Pain Strategy.

6 National Pain Strategy takes a more
7 comprehensive approach to pain assessment and
8 management from acute stage to chronic and across
9 the lifespan. It also emphasizes a biopsychosocial
10 approach to pain care, where medication is one
11 component of a multi-modal integrated model of
12 care.

13 While a good deal is being spent on the
14 development and delivery of the REMS training, the
15 future training dollars might be more effectively
16 allocated using the training recommendations set
17 forth in the National Pain Strategy.

18 I know that training has been encouraged but
19 not mandatory. But I would be concerned that, if
20 you create mandatory requirements and if you expand
21 REMS to include immediate-release opioids, that
22 they may become hurdles that our practitioners will

1 choose not to deal with.

2 I would caution you to be sure you give
3 appropriate weight and consideration to the
4 critical importance of access to these medications
5 for the many in severe pain who depend on them,
6 like me and thousands of our members. I'd be
7 concerned that if it becomes too much of a burden
8 for providers to take the required training, the
9 patients will suffer. This can lead to dangerous
10 self-medicating chronic-pain sufferers.

11 The level of pain that I and those like me
12 face day in and day out is something that those who
13 are fortunate not to have chronic pain simply
14 cannot understand, a level of pain that can and
15 does drive individuals to take their own lives.
16 When patients are stable on and secure with their
17 chronic pain regimens, any upset in the routine can
18 have dire consequences. Thank you.

19 DR. WINTERSTEIN: Thank you. Will speaker
20 number 8 please step up to the podium, introduce
21 yourself? Please state your name and any
22 organization you are representing.

1 DR. WOLFE: Thank you. I'm Sid Wolfe,
2 Public Citizens Health Research Group. I have no
3 conflicts of interest.

4 The CDC announced that, in 2014, more than
5 14,000 people in the U.S. died from overdoses
6 involving prescription opioids. The data on this
7 in the next chart comes from the U.N. Associate
8 International Narcotics Control Board, and they
9 point out in a report that came out last year that
10 U.S. leads the world's 168 countries in the
11 consumption of defined daily doses of all
12 Schedule II opioids per million people per
13 day -- that's all of the Schedule II
14 combined -- 50,142 such doses per million
15 population per day, more than one daily dose for
16 every 20 people in the U.S.

17 The next slide looks at other countries, so
18 we start out with the 50,000 in the U.S. And if
19 you extrapolate it to the whole population instead
20 of per million, you get 15.7 million for the entire
21 population, daily doses per day. Most of these
22 people in the whole country are not using opioids,

1 so on an average day, tens of millions of people
2 are using a daily dose of opioids.

3 Canada is a little bit behind, about
4 60 percent of the United States, and Germany a
5 little behind that. But of the 168 countries, 165
6 of them have less than 25,000, less than half of
7 these per day, or less than 1 in 40 people. And as
8 you can see on the bottom, 129 of these 168
9 countries have less than 2500, as opposed to
10 50,000, defined daily doses per day, in which less
11 than 1 out of 400 people rather than 1 out of 20
12 are getting the drug.

13 These are other data from a paper published
14 a few months ago by Berterame based again on the
15 U.N. International Narcotics Control Board. And
16 they're looking at the increase from early years,
17 2001 to 2003, all the way up to 2011 to 2013.

18 Worldwide, there was an increase of
19 4.3 billion per year daily doses. And of that,
20 2.74 billion, or 63 percent, was in the United
21 States. Now, there is the interim increase in that
22 10-year period when opioid prescribing in the U.S.

1 was larger than the entire increase in the rest of
2 the world combined. And as you can see from these
3 figures, the U.S. has roughly two-thirds of all the
4 opioid prescriptions in the world with far less
5 than 5 percent of the world's population.

6 This is from the same paper, and if you'd
7 just look, the X-axis is age-standardized rates of
8 cancer. We all agree that severe pain of cancer is
9 clearly the most important and probably the largest
10 use for chronic opioids.

11 What you can see on the right, or at the 300
12 age-standardized rates, is that the U.S. is way up
13 on top, off the charts, as it was in the previous
14 slide, and that many other countries, including
15 ones in Europe and other places, for the same
16 amount of cancer, use far less opioids.

17 The conclusions of the authors were that
18 much of this increased usage has occurred in high-
19 income countries, probably due to long-term
20 prescribing for non-cancer pain, a difficult
21 concept, but one which I think involves a lot of
22 the overuse and inappropriate use of opioids.

1 I was a member of the Drug Safety and Risk
2 Management Advisory Committee that met almost six
3 years ago to look at pretty much the same issue.
4 This was the drug industry collection of companies
5 that came up with a REMS program, and 25 of the 35
6 of us voting on that day concluded that the
7 individual components were not adequate to address
8 misuse and abuse of IR opioids.

9 It stressed the need for appropriate
10 adjusted legislation, including the DEA requirement
11 for condition of getting a license or renewing it,
12 to have training and ability to pass a test.

13 I'll skip over these slides. The
14 conclusions are, then, that, obviously, key
15 decision-makers -- dentists are obviously included
16 and others who have narcotics licenses -- are
17 doctors. And I would imagine that most
18 doctors -- I don't know what fraction -- are doing
19 very appropriate kind of prescribing, but too many
20 are a complicit cause of this.

21 The concluding sentence is, what more needs
22 to be done? Mandatory training and testing to get

1 a narcotics license with as little opioid industry
2 involvement as possible. Legislation is needed.

3 Thank you.

4 DR. WINTERSTEIN: Thank you. Will speaker
5 number 9 step up to the podium, introduce yourself?
6 Please state your name and any organization you are
7 representing for the record.

8 DR. HORN: Yes, good morning. My name is
9 Matthew Horn. I am a physician with many years
10 managing pain in clinical practice. For the last
11 10 years, I've been focused on developing
12 continuing medical education, including many pain
13 management activities.

14 I am currently employed as a senior medical
15 director at Rockpointe Corporation, a medical
16 education company, and we are currently working
17 with several partners to implement an opioid REMS
18 educational series supported by a grant from the
19 RPC.

20 For the last six years, I've also served on
21 the Board of Directors of the National Association
22 of Medical Education Companies, where I've had

1 discussions with others developing opioid REMS
2 education. So my opinions have been shaped by
3 input received from many colleagues involved in
4 pain management and the development of education on
5 pain management as well as patients in pain. I
6 would also like to mention that I have received no
7 compensation to cover my time and travel to speak
8 here today.

9 First, I would state my general agreement
10 with the FDA that pain management education is both
11 necessary and effective in improving pain
12 management and reducing the risks of opioid abuse
13 and addiction. Preliminary outcomes from our
14 ongoing series revealed that 99 percent of
15 participants rated the education as valuable in
16 terms of improving their practice, and over
17 95 percent of participants stated that they were
18 better able to meet each individual goal of the
19 educational blueprint as a result of participation.

20 Yet, despite the success of such programs,
21 there are several areas where the REMS program
22 could be improved. For one, the program is

1 considerably behind stated goals for educating
2 prescribing clinicians. One reason for this is
3 that there simply aren't enough opportunities with
4 the RPC having difficulty keeping up with demand.

5 My company alone applied for seven different
6 grants over the course of four years before
7 receiving a grant for our current series. Another
8 provider that we work with created an activity
9 based on the blueprint that resulted in over 32,000
10 completions by class 2 and 3 DEA-licensed
11 prescribers, and over 10,000 self-reporting ER/LA
12 prescribers. But those completions will not be
13 counted towards the FDA's goals because the
14 education was not funded by the RPC.

15 There are a great number of activities that
16 are not being counted towards the FDA's goals. A
17 wider acceptance of education that covers the
18 material should be considered. A single REMS
19 program covering all opioids should also be
20 considered.

21 The implementation of a program that only
22 applies to extended-release and long-acting opioids

1 is likely leading to more use of immediate opioids
2 over long-acting forms. And this is not
3 necessarily in the best interests of patients nor
4 efforts to curb opioid abuse and addiction. A
5 single REMS program that encompasses all opioids
6 would prevent any other unintended consequences.

7 The program being voluntary for physicians
8 also plays a part in the low participation rates
9 thus far. Clinicians are very familiar with
10 continuing education credits being required for
11 state licensure and hospital privileges. I
12 recommend that the DEA-issued license required for
13 prescribing controlled substances be linked to a
14 certain number of hours per year or relicensing
15 period.

16 This would be seen more as a sensible
17 approach to safe prescribing rather than a
18 potential regulatory burden or punitive measure.
19 This approach would also ensure that all opioid
20 prescribers receive educational updates rather than
21 a subset receiving a single certificate for
22 completing a single activity.

1 Requiring all elements of the blueprint on
2 each activity results in far too much information
3 to be learned at once, lessening the skills gained.
4 A completion-of-hours approach would allow for a
5 broader range of pain education to count towards
6 the goals while also allowing for more in-depth
7 coverage of education that permit learners to
8 increase abilities according to their specific
9 needs.

10 This approach would also be better at
11 overcoming the lack of adequate education that
12 clinicians receive when initially trained,
13 especially those in primary care where most pain is
14 managed and most opioid prescriptions are written.

15 Finally, I would like to address the fact
16 that continuing education alone is unlikely to be
17 enough to fully impact our pain management and
18 opioid abuse problems. Several system changes are
19 needed, including more comprehensive pain and pain
20 management education in medical, nursing, and
21 pharmacy schools; increased government and private
22 insurance coverage of other treatment modalities,

1 including physical therapy, acupuncture,
2 chiropractic, and other complementary methods; and
3 a less stigmatic and punitive approach towards pain
4 sufferers and prescribing clinicians than is
5 currently seen in other government agencies'
6 approaches towards managing these issues.

7 In summary, I would like to recommend that
8 the panel consider a single REMS program for all
9 forms of opioids that includes continuing education
10 as a critical component, but that ties this ongoing
11 education to DEA licensure and allows for a wider
12 range of educational activities that cover
13 individual elements of the blueprint without the
14 need to cover all of it at once.

15 The FDA committee should also lead the call
16 for other government agencies to work together to
17 implement some of these other solution-oriented
18 recommendations that you will hear from our
19 speakers today. Thank you for your time.

20 DR. WINTERSTEIN: Thank you. Would public
21 speaker number 10 step up to the podium, introduce
22 yourself? Please state your name and any

1 organization you are representing for the record.

2 MR. ROSENBERG: Thank you. Good morning.

3 My name is Andrew Rosenberg, and I'm here
4 representing the Continuing Medical Education
5 coalition, the CME Coalition, an advocacy group
6 representing nearly three dozen CME stakeholders
7 from across the spectrum of education providers,
8 supporters, and physicians.

9 CME is critical to the success of the REMS
10 program. Under REMS programs, the FDA reviews and
11 approves programs developed by drug sponsors, and
12 healthcare professionals must then heed the program
13 rules. In order to ensure that healthcare
14 professionals understand the rules as well as their
15 roles in making sure the rules are followed, CME
16 courses and activities are essential.

17 There have been numerous studies done as to
18 the effectiveness of CME. Over the course of 39
19 systematic reviews published between 1977 and 2014,
20 the overall impact has been settled. CME courses
21 can more reliably change health professionals'
22 knowledge, and competence, and their performance in

1 patient health outcomes.

2 CME courses accredited by the ACCME have
3 stringent criteria and standards that must be met.
4 In 2010, a prescriber education working group
5 stated, "The stakeholders in the working group
6 recommend that the REMS prescriber training be
7 designed to exceed the goal of traditional CME
8 methods, i.e., knowledge acquisition, and instead
9 aim to demonstrate optimized practitioner
10 performance and improved patient outcomes."

11 As such, the ACCME has worked to streamline
12 and align CME's purpose with the ideas of the
13 working group and the needs of practicing
14 physicians.

15 Today, the types of CME offered for REMS
16 include general information about the use of
17 opioids to aid in patient selection and counseling,
18 specific information about the individual drugs in
19 the class, and information on how to recognize the
20 potential for and evidence of addiction dependence
21 and tolerance.

22 This is not the first time CME has been a

1 part of REMS. As such, lessons have been learned
2 from past REMS, including the following.

3 Educational venues must be engaging. We have to
4 address educational needs that underline the
5 practice gaps of each intended audience.

6 Finally, hypotheses must drive the
7 scientific development of audience samples for
8 measurement. CME as part of REMS is helpful to
9 practitioners because the FDA controls the needs
10 assessment and content requirements and because it
11 encourages evidence-based debate on risk versus
12 benefit.

13 ACCME-accredited CME is especially helpful
14 because the scope of evaluation of effectiveness is
15 actually measured in one of three ways: change in
16 competence, change in performance, or change in
17 patient outcomes. This helps to evaluate how well
18 physicians understand the REMS and opioid effects
19 on their patients.

20 Moving forward, we believe that the FDA
21 should consider standardizing the REMS process
22 while allowing more flexibility in content. The

1 strength of CME is that it can produce myriad
2 educational activities that are targeted to
3 physicians based on their professional practice
4 gaps, individualized needs, and stages of learning
5 and change. Added flexibility will allow
6 prescriber education to better address individual
7 prescribers' educational and practice needs.

8 The effectiveness of REMS can also be
9 measured in terms of how successfully it promotes
10 access to education and draws the attention of the
11 medical profession to a problem.

12 Several government agencies have also been
13 helping to educate physicians on the dangers and
14 special care that patients who have been prescribed
15 opioids need. Many organizations have previously
16 provided REMS education, but have not dotted every
17 I and crossed every T when it comes to following
18 the blueprint. CME has worked very hard to comply
19 with the blueprint while supporting these programs
20 as part of a larger risk education project.

21 We believe that REMS should also be expanded
22 to include short-acting opioids. While extended-

1 release and long-acting opioids can be abused,
2 short-acting opioids are even more likely to be
3 abused and therefore much more difficult to manage.

4 We agree with the FDA's stated position that
5 REMS be expanded to SAIR and that we create a
6 single blueprint for all opioids. We encouraged
7 that FDA sees CME as a valuable tool in combating
8 the opioids epidemic. Our members have created
9 hundreds of hours of pain education programs and
10 have delivered them to hundreds of thousands of
11 physicians.

12 Through their research and experience, we
13 believe that rather than requiring the whole
14 3 to 6 hours of content outlined in the blueprint,
15 the counted credit hours towards a goal of 3 hours
16 of REMS education should be considered.

17 Finally, we recommend expanding the target
18 audience to include other practitioners, NPs, PAs,
19 pharmacists, and nurses. Thank you very much for
20 your time.

21 DR. WINTERSTEIN: Thank you. Will speaker
22 number 11 step up to the podium, introduce

1 yourself? Please state your name and any
2 organization you may be representing. Speaker 11?

3 (No response.)

4 DR. WINTERSTEIN: Will speaker number 12
5 please step up to the podium, introduce yourself?

6 DR. TWILLMAN: My name is Bob Twillman. I'm
7 the executive director of the American Academy of
8 Pain Management. I have no relevant relationships
9 to declare.

10 The Academy is the largest and most
11 multi-disciplinary pain management organization in
12 the United States, and the only one that, from its
13 beginning, has educated about and advocated for an
14 integrative approach to pain management.

15 Yesterday, as I viewed the presentations
16 from both REMS sponsors and the FDA, I was struck
17 by this realization. In the ER/LA REMS, we've
18 created a program that's cost pharmaceutical
19 manufacturers millions of dollars, dollars that
20 have been diverted from other vital pain management
21 education efforts.

22 We've created a program that essentially

1 everyone thinks we have to force prescribers to
2 complete. And we've created a program whose
3 effectiveness we have no way to accurately
4 evaluate. That's what I call a regulatory triple
5 play.

6 We're all acutely aware that we're wrestling
7 with two public health crises in the United States,
8 namely prescription opioid abuse and chronic pain.
9 Finding solutions that address both of these crises
10 without creating a sort of zero-sum game is a major
11 challenge.

12 We believe the only real solution to this
13 challenge lies in the ability of clinicians to
14 engage in the appropriate practice of pain
15 management, a practice that uses opioids when
16 necessary, but supplements opioid use with other
17 medications and, most importantly, with a variety
18 of non-pharmacological treatments that relieve
19 pain.

20 Teaching this model of pain management is,
21 we believe, the only way we're ever going to really
22 succeed in effectively addressing these two

1 problems, and that's not what the ER/LA REMS
2 program does. In short, the ER/LA REMS puts the
3 emphasis on the wrong syllable.

4 I think it's ironic that critics of the
5 pharmaceutical industry often talk about how
6 incredibly effective the industry-supported medical
7 education was during the quarter century that began
8 in the mid-1990s, so effective in their view that
9 the industry allegedly created an epidemic of
10 prescription drug abuse.

11 Yet, when we set about to fix this problem
12 four years ago, rather than refocus those effective
13 methods on teaching effective pain management, we
14 forced industry to abandon them in favor of funding
15 the ER/LA REMS regulatory triple play, to which I
16 referred earlier. Perhaps we should now explore
17 ways in which we can resurrect those methods, using
18 them to teach an effective model of pain management
19 that will address the twin public health crises
20 that we face.

21 In that light, here are some suggestions for
22 you to consider. Number one, effective pain

1 management is a team sport involving clinicians
2 from a variety of disciplines who, when working
3 together, can effectively address all aspects of a
4 person's chronic pain experience.

5 Why not focus on educating not just
6 prescribers, but healthcare teams about safe and
7 effective use of opioids as part of a
8 comprehensive, integrative approach to pain care so
9 that all team members share a common understanding
10 of their roles in addressing pain?

11 Number two, effective pain management
12 requires far more than just opioids. If we want to
13 reign in the perceived overuse of opioids, isn't it
14 incumbent upon us to provide alternative methods to
15 treat people with pain? Effective education about
16 the safe and effective use of opioids oddly
17 requires that we effectively educate clinicians
18 about other treatments that may reduce the need for
19 opioids.

20 So let's teach people how to treat pain
21 without just writing another prescription. Let's
22 teach materials such as that highlighted in

1 Dr. Katzman's presentation this morning.

2 Number three, given the apparent reluctance
3 of prescribers to volunteer for 3 hours of
4 continuing education about opioids, there needs to
5 be some form of mandate for this education,
6 recognizing that such education may be necessary
7 but not sufficient to solve the problem.

8 There has been much discussion about using
9 renewal of DEA registration as the vehicle for this
10 requirement. I'm decidedly not excited about that
11 idea because even if you could pass legislation to
12 permit this mechanism, I'm personally not in favor
13 of handing the keys to the continuing medical
14 education bus to our friends at the DEA.

15 So instead of this requirement, why not
16 consider something that may be almost as good and
17 much more expedient? What if FDA consulted with
18 another HHS agency, the Centers for Medicare and
19 Medicaid Services, and together they decided to
20 write a new rule that makes completion of a
21 comprehensive REMS program a condition of
22 participation in Medicare?

1 I understand that this creates the risk of
2 prescribers opting out of being Medicare providers,
3 but I'm not sure there's a way to mandate education
4 without running the risk of prescribers opting out
5 with one excuse or another.

6 This is, as I said, a challenging and
7 complex problem. And there is no simple solution
8 to it. Despite this, I believe there is
9 considerable potential for progress if we free
10 ourselves from the same flaw in our education as we
11 have in our clinical practice, namely an
12 inordinately constricted focus on opioid
13 prescribing by one clinician. Thank you.

14 DR. WINTERSTEIN: Thank you. Will speaker
15 number 13 please step up to the podium, introduce
16 yourself? Please state your name and any
17 organization you are representing for the record.

18 DR. WITTENAUER: Hello. My name is Justine
19 Wittenauer. I am a psychiatrist speaking on behalf
20 of the American Academy of Addiction Psychiatry,
21 also known as AAAP. I have no financial conflicts
22 of interest to disclose.

1 AAAP is an organization that represents
2 addiction psychiatrists nationwide. AAAP is a
3 leading source for the latest evidence-based
4 research on substance use disorder treatment and
5 education and seeks to ensure that research
6 findings are applied to clinical practice.

7 Although the FDA blueprint has good
8 intentions in providing continuing education on
9 opioid prescribing, we have concerns regarding key
10 missing information.

11 As a result, AAAP recommends modifications
12 to the ER/LA opioid analgesic REMS, including not
13 only the expansion of the content of prescriber
14 training to include immediate-release opioids as
15 proposed, but also to require more comprehensive
16 prescriber training, highlighting the risks of
17 prescribing opioid medication.

18 We are specifically concerned about the lack
19 of emphasis the blueprint has on screening for
20 mental disorders, suicidality, as well as opioid
21 and non-opioid use disorders. Emerging evidence
22 reveals a significant number of prescription opioid

1 deaths are suicidal in intent. In fact, a report
2 from a national surveillance database of poison
3 control centers from 2006 to 2013 noted an alarming
4 75 percent of prescription opioid-related deaths
5 occurred with suicidal intent. The percentage
6 rises to 86 percent in individuals 60 and older.
7 This is all the more alarming, as these statistics
8 are glaringly absent from public discourse
9 regarding opioid risk.

10 We strongly advocate prescribers have
11 training for screening in mental disorders as well
12 as the risk for self-harm and suicide, both of
13 which should be reflected in the blueprint.

14 With the rising number of opioid-related
15 overdoses, the blueprint should also include a
16 recommendation for naloxone, the opioid overdose
17 rescue medication, and should outline steps to
18 direct an individual to treatment after
19 experiencing an overdose.

20 Screening for mental and substance use
21 disorders as risk factors is imperative and will
22 contribute significantly to addressing the misuse

1 of opioids. These are enduring risk factors for
2 the misuse of opioid medication and need to be
3 assessed as part of a patient's ongoing care.

4 One example which could have ended
5 tragically is a case of a 65-year-old married man,
6 Mr. C., who was taking prescribed opioids for lower
7 back pain. It wasn't until Mr. C. overdosed with a
8 combination of opioids and alcohol in the context
9 of attempting to taper off opioids, that he was
10 referred to a psychiatrist who diagnosed him with
11 severe major depressive disorder. After beginning
12 a therapeutic trial of an antidepressant, Mr. C.
13 was able to transition to non-opioid treatment and
14 physical therapy that was ultimately effective in
15 addressing his pain.

16 While the blueprint does highlight screening
17 for opioid use disorders when there is a change in
18 patient behavior, it does not emphasize the need
19 for longitudinal assessments or clearly explain how
20 to manage any at-risk patients. This may mislead
21 prescribers not to perform routine ongoing
22 screening for mental disorders in patients with the

1 potential for chronic opioid therapy.

2 If there is any history to suggest a
3 substance use disorder, chronic opioid analgesic
4 therapy should not be initiated without
5 consultation with an addiction specialist. It is
6 important to note that prescribers should not deny
7 opioid treatment if deemed appropriate, which would
8 have enhanced safety practices in place and
9 carefully monitor the patient's response to
10 treatment.

11 Recommended monitoring practices include
12 reassessment at regular intervals and callbacks for
13 pill counts and toxicology. For further
14 algorithmic guidelines, please refer to the Centers
15 for Disease Control and Prevention checklist for
16 prescribing opioids for chronic pain.

17 In regards to the development of independent
18 audits to confirm completion of mandatory REMS
19 training for ER/LA opioid prescribers, we have
20 concerns regarding its effectiveness without
21 available peer and expert feedback on challenging
22 cases. PCSS-MAT, a national education initiative

1 funded by SAMHSA that provides mentoring at no
2 cost, may be a good model for reference.

3 In summary, AAAP strongly recommends
4 expansion of the current FDA blueprint to include
5 key information regarding the risks of prescribing
6 opioid medication and the importance of thorough
7 and longitudinal mental health and substance use
8 screening. Thank you for your time.

9 DR. WINTERSTEIN: Thank you. Will open
10 public speaker number 14 please step up to the
11 podium, introduce yourself? Please state your name
12 and any organization you are representing for the
13 record.

14 DR. LEMBKE: My name is Anna Lembke, and I'm
15 chief of addiction medicine at Stanford University
16 School of Medicine. Today, I am representing my
17 views, and I'm also speaking on behalf of PROP,
18 Physicians for Responsible Opioid Prescribing, a
19 multispecialty professional organization with a
20 mission to reduce opioid-related morbidity and
21 mortality. I have no financial conflicts of
22 interest to report.

1 I'm going to limit my suggestions for
2 improvement today to two areas, the curriculum and
3 dissemination of the curriculum. The curriculum
4 has much useful information within it. The
5 problem, there is not sufficient emphasis on the
6 risks of opioid analgesics.

7 Communicating the risks of a given
8 medication is the very purpose of REMS. For
9 example, there is no need for the blueprint to
10 contain material on opioid rotation, basic drug
11 formulation facts with brand names -- brand names
12 in any case should not be included in CME
13 educational material -- or overly simplistic case
14 scenarios which do not simulate the real world.
15 Indeed, the inclusion of this non-essential
16 information dilutes the message of the REMS. We
17 are losing the forest for the trees.

18 What should the REMS focus on? The REMS
19 should include the new CDC guidelines on opioid
20 prescribing. The REMS should highlight the risks
21 of opioid analgesics and correct misinformation
22 from past educational efforts, which minimize the

1 risk of addiction and exaggerate the effectiveness
2 of long-term use.

3 Physicians and other healthcare providers
4 need to understand there is no evidence for the use
5 of chronic opioid therapy in the treatment of
6 chronic pain and that the risks of opioid
7 analgesics increase with increasing dose and
8 duration.

9 Those risks include but are not limited to
10 death due to overdose, even for those taking their
11 medications as prescribed, particularly when
12 combined with sedatives such as alcohol or
13 benzodiazepines; misuse and addiction, even in
14 those with no history of addiction, tolerance and
15 physiologic dependence, an important and
16 underappreciated concept by patients and doctors
17 alike, and a relative contraindication for ongoing
18 use; hyperalgesia, a paradoxical response to
19 chronic opioid therapy whereby pain is increased,
20 not lessened.

21 In addition to being familiar with these
22 risks, doctors need to know how to communicate

1 these risks to patients, how to monitor for and
2 mitigate these risks, including how to interpret a
3 prescription drug monitoring program and a urine
4 toxicology screen, how to taper patients off of
5 opioid analgesics when the risks outweigh the
6 benefits, which is to say, slowly, particularly for
7 patients who have been on chronic opioid therapy
8 from months to years.

9 The REMS blueprint should also address the
10 emotional toll on doctors and patients around
11 opioid analgesic misuse, addiction, and withdrawal.
12 Educational content should suggest tools for coping
13 with real-world complex clinical scenarios. Lack
14 of training in this area has already contributed to
15 burned out, overwhelmed doctors, and abandoned
16 fearful patients.

17 Dissemination of the curriculum. The opioid
18 analgesics REMS curriculum is currently
19 disseminated through continuing medical education
20 lectures. CME lectures are vulnerable to speaker
21 and conference sponsor bias. Furthermore,
22 physicians in practice are not the only providers

1 who need this education.

2 Family practice and internal medicine
3 doctors prescribe the highest volume of opioid
4 analgesics by specialty, but they are followed
5 closely behind by nurse practitioners, physician
6 assistants, and dentists. Medical students and
7 residents, the next generation of opioid
8 prescribers, arguably need this curriculum more
9 than any other group, as they will be the face of
10 medicine in the years to come.

11 We recommend some novel strategies for
12 targeting a broader audience, create online
13 enduring courses, developed by experts not
14 affiliated with the pharmaceutical industry, and
15 make these courses available free to key
16 stakeholders for further dissemination, for example
17 medical school and residency programs, professional
18 societies, the Center for Medicare and Medicaid
19 Services, and state medical boards.

20 Launch a multimedia public health campaign
21 to educate consumers and potential consumers of
22 opioid risks. Thank you for this opportunity to

1 provide these suggestions to improve the opioid
2 analgesic REMS.

3 DR. WINTERSTEIN: Thank you. Will speaker
4 number 15 step up to the podium, introduce
5 yourself? Please state your name and any
6 organization you are representing for the record.

7 DR. LEMBKE: So I am speaking for speaker
8 number 15.

9 "My name is Dr. Andrew Kolodny. I have no
10 financial relationships to disclose. I am the
11 chief medical officer of Phoenix House, a national
12 non-profit addiction treatment agency. I'm also
13 the executive director of Physicians for
14 Responsible Opioid Prescribing. I am speaking
15 today on behalf of Phoenix House.

16 "Nearly 20 years ago, when media reports of
17 OxyContin addiction and overdose deaths first began
18 to surface from Appalachia and New England, FDA was
19 asked by policymakers and consumer advocates to
20 address the problems. Meetings were held. And as
21 opioid prescribing continued to soar and as the
22 death toll continued to mount, FDA was asked

1 repeatedly to help address a crisis devastating
2 families and communities across the country. More
3 meetings were held.

4 "At each meeting, opioid makers and their
5 physicians and patient spokespersons tell FDA that
6 opioid harms are limited to so-called drug abusers.
7 Millions of pain patients are doing wonderfully on
8 opioids, so they can claim and they can tell FDA,
9 'Don't worsen the problem of untreated chronic pain
10 in your effort to reduce drug abuse.'

11 "Unfortunately, FDA has consistently
12 accepted this framing of the issue, which is why
13 the opioid REMS program is so weak. The notion
14 that we have two distinct groups, so-called drug
15 abusers, who are harmed by opioids, versus millions
16 of pain patients who are supposedly helped is
17 false.

18 "Evidence suggests that at least 80 percent
19 of chronic pain patients on opioids are not doing
20 well. Over the past 20 years, millions of patients
21 prescribed opioids for pain have become addicted
22 and thousands have died from overdose.

1 Compassionate care for patients suffering from
2 chronic pain is not jeopardized by more cautious
3 opioid prescribing. It demands it.

4 "In a recent New England Journal of Medicine
5 editorial that accompanied the roll-out of the CDC
6 guideline, the CDC director wrote, 'The science of
7 opioids for chronic pain is clear. For the vast
8 majority of patients, the known serious and too-
9 often fatal risks far outweigh the unproven
10 intransigent benefits.'

11 "This straightforward message in the CDC
12 opioid guidelines should become the centerpiece of
13 an overhauled REMS curriculum. Education on opioid
14 prescribing should emphasize starting fewer
15 patients for shorter durations and at lower doses.

16 "The educational curriculum must take into
17 account the fact that opioid prescribing has
18 skyrocketed in response to an industry-sponsored
19 campaign that minimized risk and exaggerated
20 benefits. Prescribers need education that
21 explicitly corrects this past misinformation.

22 "I urge the FDA to take the following steps:

1 "Number 1, change the curriculum from one
2 that suggests opioids are safe and effective for
3 chronic pain to one that emphasizes that daily
4 long-term use may not be safe or effective.

5 "Number 2, implement firewalls to prohibit
6 faculty with financial ties to opioid makers from
7 teaching REMS courses.

8 "Number 3, implement firewalls to prohibit
9 organizations with financial ties to opioid makers
10 from administering REMS programs.

11 "Number 4, for patients on high-dose
12 opioids, require registries to ensure close
13 monitoring.

14 "Number 5, extend the REMS to include
15 immediate-release opioids and;

16 "Number 6, create a new component to the
17 REMS that goes beyond patient and clinician
18 education by requiring opioid makers to fund a wide
19 scale social marketing campaign for the public on
20 opioid risks, especially the risk of addiction.

21 "These common-sense changes to the existing
22 REMS would help promote more cautious prescribing

1 and help control a devastating epidemic of
2 addiction." Thank you.

3 DR. WINTERSTEIN: Thank you. Would speaker
4 number 16 please step up to the podium, introduce
5 yourself? Please state your name and any
6 organization you are representing for the record.

7 DR. JOHNSON: My name is Chris Johnson. I'm
8 an emergency medicine physician from Minneapolis,
9 Minnesota. I'm speaking for the Steve Rummler Hope
10 Foundation, the Minnesota chapter of the American
11 College of Emergency Physicians, and the Minnesota
12 Medical Association, though they didn't pay me a
13 dime to come here. I'll have to see about that.

14 In any case, I have been an emergency
15 medicine physician for the last 15 years, so I've
16 had a front-row seat as I've watched this tragedy
17 just erupt right in front of me. I have seen
18 multiple patients dying right in front of me.
19 Some, I can save, and some, I can't.

20 While five minutes is too short to offer a
21 detailed recommendation on curriculum, I do want to
22 send home one take-home point based on my years of

1 experience fighting this problem. And that is, as
2 far as the human brain is concerned, all opioids
3 are heroin. And this may sound inflammatory, but
4 it shouldn't, actually.

5 Heroin has a scientific name, diacetyl
6 morphine. And actually, heroin was never its
7 street name. That comes to us from Bayer
8 Pharmaceuticals in the 1890s. They tested it on
9 their employees and asked them how it made them
10 feel. And they replied, "Heroish," which means
11 heroic or strong.

12 So here it is. We remember our organic
13 chemistry. Here's an acetyl group of carbon
14 double-bonded with oxygen in a methyl group. You
15 put one of these groups, a morphine molecule here
16 and another one down here, and there you have it,
17 diacetyl morphine, heroin. And look how similar it
18 all looks, the basic ring structures of oxycodone,
19 hydrocodone, Dilaudid, which is actually stronger
20 than heroin, all look the same. They all bind the
21 same brain receptors.

22 In fact, heroin is used as dimorph. It's

1 not some malevolent compound with a moral component
2 to it. When used properly, it is medicine. It's
3 used every day in the United Kingdom. You have a
4 kidney stone in the U.K. You go to the ER. You're
5 likely to get to a dimorph.

6 All opiates act in the same way. They bind
7 the same receptors. There's no different receptor
8 for oxycodone or heroin in the brain. They
9 modulate the release of dopamine, which increases
10 your mood and decreases the experience of pain,
11 which is an emotional experience. And since every
12 brain has a reward center, every brain is at risk.
13 And because every brain is at risk, the only way to
14 reduce the morbidity and mortality from opioids is
15 to reduce overall opioid prescribing, period.

16 We have seen this slide before. This is
17 what prescriptions have done in the last 20 years,
18 which is approximately triple. The U.S. now
19 consumes 80 percent of the world's opioid
20 painkillers, comprising just 5 percent of the
21 world's population.

22 Here's the other key factor. You watch the

1 sales go up, and you watch the treatment admissions
2 go up, and you watch the deaths go up. The slope
3 of the curve is almost identical. They are
4 directly correlated.

5 In fact, if something is inflammatory, this
6 should be it. If you total up the number of
7 Americans who have died from accidental
8 prescription overdose in the last 15 years, from
9 2000 to 2014, it's almost 190,000. That is more
10 than the number of American soldiers lost in the
11 European theater in World War II.

12 Deaths are just the tip of the iceberg of
13 misery. This is from the CDC data. For every one
14 overdose deaths, you have 15 abuse treatment
15 admissions, 26 emergency department visits, and
16 countless others who are abused, or dependent, or
17 non-medical users at tremendous financial cost.

18 Then there's a question, do these drugs even
19 help? We get personal stories of success, which
20 are compelling, but we're told that they give
21 people their lives back. But look at the
22 nationwide data. It's not helping people go back

1 to work. Disability has more than doubled in the
2 last 20 years, from 1994, from 5 million, to 2014,
3 to 11 million. And the number one causes are back
4 and joint pain. These are the conditions that
5 these medicines are supposed to treat safely and
6 effectively.

7 So when we consider education requirements
8 for short- or long-acting opioids, we should be
9 asking, really, how many guidelines and how much
10 education is sufficient for you to feel safe
11 putting someone on heroin indefinitely.

12 So I might break the education down in this
13 stretch. If you're deciding who to put on heroin,
14 you have an exit strategy or you don't. This is
15 where traditionally we have been. When far fewer
16 patients were dying, you treat it for acute injury
17 because the exit strategy was, the wound heals, the
18 kidney stone passes.

19 You treat aggressively but briefly, or
20 terminal cancer because a dependence is not a
21 relevant factor in their health outcome when the
22 diagnosis is fatal. If you don't have an exit

1 strategy, ask yourself, are you okay if they become
2 dependent. In some patients, who are already very
3 limited by their other health conditions, you might
4 consider, they can have that discussion with their
5 doctor. But let's stop pretending you can predict
6 who's going to have a problem, because we can't.

7 In the end, I want to say that, in my
8 experience of treating patients, we're not trying
9 to punish anyone by reducing opioids prescribing.
10 Addiction and dependence is hopelessness, misery,
11 and in some cases death. And reducing opioid
12 prescriptions will prevent this misery for many.
13 Thank you.

14 DR. WINTERSTEIN: Thank you. Will speaker
15 number 17 please step up to the podium, introduce
16 yourself?

17 DR. ARCHER: Yes. I'm Dr. William Archer.
18 I'm a former health commissioner for the state of
19 Texas, and I'm currently employed by Adapt Pharma
20 as director of medical affairs. I greatly
21 appreciate the opportunity to present before the
22 committee on the modification of the ER/LA opioid

1 REMS.

2 Firstly, to add education about opioid
3 overdose risk and risk evaluation and mitigation
4 strategies, and secondly, to add a new element to
5 assure safe use for clinicians to offer a
6 prescription for an FDA-approved naloxone aside,
7 high-risk opioid prescriptions, Adapt
8 Pharmaceuticals distributes the first and only FDA-
9 approved naloxone, NARCAN Nasal Spray, for the
10 emergency treatment of opioid overdose.

11 We greatly appreciate the FDA having
12 dedicated the resources to rapidly review and
13 approve NARCAN Nasal Spray in late 2015. It's a
14 very simple and easy-to-use product. This is a
15 saline demonstration.

16 We are already receiving reports of saved
17 lives across the country. As is well known,
18 prescription opioids are implicated in about 19,000
19 deaths per year in 2014. Most of these have been
20 in community, 54 percent at home.

21 In response to this challenge, a wide group
22 of stakeholders have galvanized around three

1 initiatives, firstly, changing clinicians' opioid
2 prescribing practices, which we've heard a lot
3 about; increasing access to opioid use disorder
4 treatment; and thirdly, expanding access to
5 naloxone.

6 I'm going to focus on expanding naloxone
7 access. This has a tremendous opportunity and
8 potential to educate and prepare a patient and a
9 bystander about opioid risks and increase the
10 possibility that a bystander may be in a position
11 to treat an overdose where and when it happens.

12 In order to achieve this goal, though, we
13 need to look at a few things. First, we need to
14 congratulate our EMS, law enforcement, and harm
15 reduction groups who have shown us the way in the
16 power of this product. Indeed, lives are being
17 saved.

18 For some of these groups, the newly-approved
19 FDA naloxone products offered opportunities to
20 expand even further these important community-based
21 activities. Second, the new FDA-approved naloxone
22 formulations are uniquely suitable to allow non-

1 medically-trained persons to rapidly administer
2 naloxone.

3 The challenge is to increase the likelihood
4 that the antidote is in the right place at the
5 right time. This is where the activation of
6 clinicians to offer naloxone prescriptions
7 alongside the highest-risk opioid prescriptions,
8 otherwise known as co-prescribing, comes into play.

9 Co-prescribing has the potential to be a
10 critical component of expanding naloxone access.
11 In support of co-prescribing, there are a number of
12 things to consider. This idea is widely supported
13 by key opinion leaders, medical societies, state
14 and federal health agencies, and most recently, the
15 CDC and their opioid-prescribing guidelines.

16 The challenge is, what is the systematic
17 means to implement this goal? Current guidance and
18 recommendations of some medical groups in states
19 are voluntary. As such, we've seen 40,000
20 prescriptions written for naloxone against
21 250 million prescriptions for opioids.

22 This is also despite the really

1 forward-thinking efforts of states like
2 Massachusetts and the city of Baltimore, who have
3 actually written to physicians to encourage them to
4 co-prescribe.

5 But why is this voluntary approach likely
6 not working? Kaiser did a study in which they
7 showed that physicians acknowledge a lack of
8 awareness of the problem, and secondarily, that
9 they feel that there is a stigma with having to
10 speak to patients around this issue.

11 To support a policy that moves from good
12 idea to effective activation, our suggestion is for
13 clinicians to offer naloxone aside high-risk
14 opioids, consistent with CDC guidelines and
15 prescribing as a condition of safe use of opioids.

16 As set out in our written submission. we
17 believe this is a necessary medical intervention
18 and consistent with similar ETASU-based
19 requirements. It is also within the FDA's
20 regulatory powers.

21 Importantly, listening to physicians and
22 medical groups, we have learned that this is an

1 opportunity to move from a voluntary opt-in to an
2 opt-out approach to offering naloxone on a patient-
3 by-patient basis using their medical judgment. The
4 patient would retain the option as to whether to
5 accept or fill the naloxone prescription.

6 Why will this work? Again, moving to
7 opt-out gets at the root of prescribing, and it's a
8 condition for safe use of identified higher-risk
9 opioids. It also moves from risky patients to
10 risky opioids.

11 It allows physicians to understand the role
12 that they have in educating their patient and also
13 has the potential to reduce prescribing. This
14 would be about 3 percent of the cost of opioid
15 prescriptions. We request that the committee
16 consider seriously this option.

17 DR. WINTERSTEIN: Thank you. Would public
18 speaker number 18 please step up to the podium,
19 introduce yourself?

20 MR. FALLON: Good morning. My name is Jay
21 Fallon. I'm the executive director of the New
22 England HIDTA, the High Intensity Drug Trafficking

1 Area. I have no financial conflicts to disclose.
2 I'm here to offer testimony regarding the HIDTA
3 heroin response strategy. But more importantly,
4 I'm privileged to be able to highlight our ongoing
5 long-term relationship with the Boston University
6 School of Medicine, as we strive to collectively
7 address the heroin epidemic that plagues us.

8 Nine years ago, I retired from the FBI after
9 a 23-year career to work for the New England HIDTA
10 program. As a Boston division FBI supervisor, I
11 coordinated our drug program throughout four
12 states. I later was assigned to supervise all FBI
13 investigative and administrative matters in New
14 Hampshire.

15 For the past 33 years, I have experienced
16 firsthand the effects that heroin and opioid abuse
17 and addiction has had, certainly from a law
18 enforcement perspective, but also witnessing the
19 effects on first responders, medical professionals,
20 treatment providers, and our educational system,
21 certainly the backbones of our society. The
22 devastation to families is incalculable.

1 It is clearly evident that heroin and
2 abusive controlled prescription drugs, opioids, are
3 the greatest drug threats in New England. For the
4 last several years, New England has suffered more
5 drug-related overdose deaths than motor vehicle
6 fatalities.

7 Now, at HIDTA, we pride ourselves on being
8 nimble, thinking outside the box, and taking steps
9 to address an emerging threat in fairly short
10 order. HIDTAs are comprised of initiatives,
11 cooperative efforts among law enforcement agencies,
12 working together in a task force environment to
13 dismantle the most prolific and dangerous drug-
14 trafficking organizations in the area.

15 But the overarching question is, what can we
16 do to best address this epidemic of heroin and
17 opioid use, misuse, and abuse? What should our
18 strategy be? What entities should the strategy be
19 composed of?

20 One of our solutions was to partner with
21 non-law enforcement agencies, in this case the
22 Boston University School of Medicine, in an effort

1 to educate a key stakeholder, the medical
2 community, regarding adopting a more temperate
3 approach concerning opioid prescribing.

4 SCOPE, the safe and competent opioid
5 prescribing education, is the beginning of a public
6 health public safety partnership that the HIDTA
7 program so fervently believes in. The HIDTA role
8 in assisting SCOPE is a relatively simple one. We
9 consult with Boston University School of Medicine
10 regarding possible locations to sponsor or to
11 co-sponsor CME seminars and liaise with the
12 appropriate medical professionals in an effort to
13 encourage as large a turn-out as possible.

14 We providing funding support, meeting costs,
15 as well as to seek to provide appropriate leaders
16 from the law enforcement community to speak to this
17 concept of growing a public health and public
18 safety partnership. Our heroin response strategy
19 develops regional strategies designed to curb the
20 epidemic number of deaths and overdoses brought
21 about by the use, misuse, and abuse of heroin and
22 opioids.

1 The ultimate goal of this strategy is to
2 reduce drug overdose deaths across the region by
3 instituting a partnership designed to enhance
4 public health and public safety collaboration. The
5 foundation for this strategy is a network of
6 two-person teams, a drug intelligence officer and a
7 public health analyst. These teams will interact
8 with public health and public safety agencies in
9 each state and develop strategies in an effort to
10 reduce fatal and non-fatal overdoses.

11 Let me be clear. It's quite certain, we're
12 quite certain, that we cannot arrest our way out of
13 this epidemic, or prevent our way out of this
14 epidemic, or treat our way out of this epidemic, or
15 educate our way out of this epidemic, when each of
16 these entities works in a vacuum, unaware of the
17 existence of the other.

18 Our best chance to successfully address the
19 epidemic of heroin and opioid addiction is one
20 which will encompass a partnership comprising
21 education, prevention, treatment, and enforcement
22 professionals working collaboratively to achieve

1 the overall goal of safe and healthy communities
2 throughout the nation.

3 As you are well aware, ongoing education of
4 the medical profession is a component of the ER/LA
5 REMS strategy. Research shows that education works
6 best when it's continual, and the medical
7 profession is no exception to this research. In
8 fact, follow-up studies by Boston University School
9 of Medicine show that following CME of SCOPE,
10 prescribers are likely to adopt a more cautious
11 approach in the prescribing of opioids.

12 In short, this is a well-placed tool that is
13 proving to be highly effective. HIDTA is proud of
14 the strategy, and we remain optimistic that these
15 efforts of the public health and public safety
16 partnerships will continue to build safe and
17 healthy communities. There is not a moment to
18 waste. Thank you very much.

19 DR. WINTERSTEIN: Thank you. Will speaker
20 number 19 please step up to the podium, introduce
21 yourself?

22 DR. ADAMS: Thank you for the opportunity to

1 address you. My name is Joseph Adams, MD. I have
2 no conflicts of interest to report. I'm a diplomat
3 of the American Board of Addiction Medicine and of
4 the American Board of Internal Medicine. And
5 today, I am representing the National Physicians
6 Alliance, an independent non-partisan organization,
7 which unites tens of thousands of physicians across
8 medical specialties who advocate for patients and
9 avoid conflicts of interest.

10 We believe that the REMS educational
11 component needs a complete overhaul. It needs to
12 convey the following points in a very clear and
13 unequivocal manner.

14 One, evidence of effectiveness is lacking
15 for long-term use of opioids and chronic non-cancer
16 pain. This is completely missing from the current
17 curriculum.

18 Two, for headache, fibromyalgia, and non-
19 structural low back pain, there is good evidence
20 that long-term opioids are likely to be ineffective
21 and harmful.

22 Three, the educational component should be

1 based on the CDC guidelines.

2 Four, any organization that administers the
3 program and any speakers who present it must have
4 no financial relationships with opioid
5 manufacturers.

6 Five, immediate-release products should be
7 included; and six, mandatory education and
8 certification for prescribers should be included.

9 Personally, I am sorry to report that I have
10 overprescribed long-term opioids, causing harm to
11 patients because I was subject to education that
12 minimized risks and maximized benefits. We have an
13 opportunity to correct this misinformation, which
14 is something that the current REMS does not do.

15 In fact, the current REMS curriculum makes
16 opioid overprescribing more likely, not less. A
17 prescriber taking a course entitled "The Safe Use
18 of Long-Acting Opioids" is much more likely to get
19 involved in this kind of prescribing. It's like a
20 how-to manual. It reassures prescribers. It sends
21 them down the path of prescribing for chronic pain.
22 That's what happened to me.

1 The safe use of long-acting opioids is the
2 phrase from the FDA blueprint, and it has caused
3 huge unintended consequences. The courses give the
4 impression that bad patients are the issue and
5 suggested screening for risk factors where misuse
6 and abuse can prevent problems, but there is no
7 evidence for this.

8 The focus on misuse and abuse is a serious
9 error and is seriously misleading because fatal
10 overdose tends to occur in those taking medicine as
11 prescribed by mouth, who are middle-aged or older,
12 and is very often unrelated to misuse and abuse,
13 but this information is missing from the current
14 curriculum. The current curriculum is similar to
15 courses that pharma was providing shortly before
16 the REMS went into effect, and that's not a good
17 thing.

18 The last five years have shown that the REMS
19 program has been ineffective. It needs to change.
20 The program must stop emphasizing a balance between
21 risks and benefits, which is unhelpful to
22 prescribers who desperately need more guidance than

1 that. Instead of being told simply to balance
2 risks and benefits, prescribers need specific
3 guidance, such as the need to document a
4 significant functional impairment and documented
5 significant improvement in functional impairment
6 before opioids should be continued.

7 If a new drug were introduced today and it
8 killed 18,000 Americans a year as a side effect,
9 with no clear evidence of long-term effectiveness,
10 of course it would not be approved for long-term
11 use. But unlike opioid pain medicines, suboxone,
12 for example, is a relatively very safe medicine and
13 it requires prescriber certification, which is
14 mandatory.

15 The advisory committee has got it right in
16 2010. You voted 25 to 10 against the REMS program.
17 And as reported in the press at the time, "The
18 majority who voted no felt that educational
19 programs must be mandatory." That was from MedPage
20 Today. You were right.

21 In summary, the REMS program must
22 communicate the following points clearly and

1 unequivocally. Evidence for effectiveness for
2 long-term use is lacking in chronic non-cancer
3 pain. We're just saying that prescribers need to
4 be clearly informed as to what the evidence does or
5 does not show.

6 For headache, fibromyalgia, non-structural
7 low back pain, there is good evidence that long-
8 term opioids are likely to be ineffective and
9 harmful. The educational component should be based
10 on the CDC guidelines. Financial relationships
11 between opioid manufacturers, and organizations,
12 and individuals affiliated with the REMS program
13 should be strictly prohibited. IR products should
14 be included. And education and certification for
15 prescribers of long-term opioids should be
16 mandatory. Thank you.

17 DR. WINTERSTEIN: Thank you. Will speaker
18 number 20 please step up to the podium, introduce
19 yourself?

20 MR. BRODINE: My name is Joe Brodine, and I
21 am a medical student at Georgetown University and a
22 future primary care provider. I am speaking today

1 on behalf of myself and my future patients. I have
2 no conflicts of interest or financial relationships
3 to disclose.

4 In the clinics and hospital wards where I've
5 been training, there is collective frustration
6 among practicing physicians who have received mixed
7 messages regarding opioid prescribing. Medical
8 students and residents also are in need of clear
9 evidence-based education that emphasizes
10 appropriate indications for prescribing opioids and
11 teaches them how to distinguish risks and benefits
12 for those indications.

13 The current REMS is inadequate and
14 insufficient to this task and must be modified.
15 The FDA's blueprint for prescriber education should
16 be updated to reflect the guidance provided in the
17 CDC's recently published guideline for prescribing
18 opioids for chronic pain.

19 Educational content should follow this
20 guidance and make clear to providers that opioids
21 are not first-line therapy for chronic non-cancer
22 pain. The educational content should emphasize

1 that opioids may not be safe or effective for
2 chronic pain and may not be appropriate for
3 patients with certain chronic conditions.

4 Regarding the question of whether REMS
5 should be required for immediate-release opioids,
6 the stated goal of the REMS is to reduce addiction,
7 unintentional overdose, and death. Many patients
8 are initially prescribed immediate-release opioids
9 for chronic non-cancer pain. Immediate-release
10 opioids can be just as addictive as extended-
11 release opioids.

12 Considering addiction is one of the drivers
13 for the current epidemic, it is crucial to have a
14 REMS that addresses both immediate and extended-
15 release formulations.

16 In summary, the opioid REMS must be robust,
17 comprehensive, and provide clear guidance to
18 current and future physicians. For the sake of
19 patients, the FDA must require a REMS that
20 addresses immediate-release opioids, and the FDA
21 must also revise the blueprint for prescriber
22 education so that education curricula reflect the

1 guidance laid out in the March 15th CDC guidelines
2 for prescribing opioids. Thank you.

3 DR. WINTERSTEIN: Thank you. Can speaker 21
4 please step up to the podium, introduce yourself?
5 Please state your name and any organization you are
6 representing for the record.

7 MR. BEALS: Hello. My name is Dean Beals,
8 and I'm the president and CEO of DKBMed. We're a
9 medical education company. Thank you all for
10 allowing me to speak today. I was not compensated
11 to attend today's meeting. I came because I
12 believe this is a vitally important issue.

13 I want to disclose that we have been awarded
14 three REMS grants in partnership with the Post-
15 Graduate Institute of Medicine, the practicing
16 Clinicians Exchange, and Johns Hopkins University
17 School of Medicine. We have developed 18 live
18 activities, print, online, and recently an Apple
19 and Android smartphone app, all covering the FDA
20 blueprint. We have educated over 2300 clinicians
21 with over 883 completers, that is learners who are
22 both opioid prescribers and successfully completed

1 the curriculum.

2 Let me focus for a moment on our live
3 meetings, which were concluded in 2015. We had
4 over 1400 learners, 619 of those were completers.
5 Almost half of our learners were actually not
6 completers, and the reason behind that is because
7 they were not either DEA registered or did not
8 prescribe long-acting opioids in the past 12
9 months, and I'll come back to that in a moment.

10 By all measures, the course was very
11 successful based on learner outcomes. It featured
12 lectures, simulated patient cases on videos, and
13 audience participation. We also provided tools
14 such as patient contracts. Across all 18 meetings,
15 more than 95 percent of learners agreed that the
16 program will help improve the clinical outcomes of
17 their patients.

18 There were significant gains in knowledge
19 when measured directly after the activity, and
20 importantly, those gains remained 16 percent
21 higher, statistically significantly higher, 45 days
22 later. More than 80 percent of participants

1 indicated that they have or will make changes in
2 practice as a result of attending the activities.

3 We also received a number of substantive
4 comments echoed by multiple learners, including, I
5 will conduct an evaluation of risk assessment on
6 patients before prescribing medications for pain,
7 and I am now more confident and willing to order
8 medications appropriately to better manage my
9 patients on long-acting opioids.

10 I'd like to spend the rest of my time
11 discussing recommended improvements. First, let me
12 say that I commend the FDA for supporting the CME
13 community. Opioid abuse is clearly an enormous
14 problem that must be addressed. I believe it would
15 be ill advised not to utilize CME for future opioid
16 education. We are the right community to be doing
17 this important work. We are the experts in
18 continuing medical education.

19 That said, I recognize that the supported
20 activities have not achieved the agreed-to number
21 of learners and are well below the goal. While I
22 am not aware of how those goals were set, I believe

1 they were overly optimistic for three reasons, one,
2 the length of the curriculum; two, the fact that no
3 governing body requires completion of the
4 blueprint; and, three, that non-prescribers were
5 excluded from the completer counts.

6 First, while the FDA blueprint is well
7 written and thorough, it's simply too long. It
8 takes between 3 and 4 hours in a live meeting
9 setting. To their credit, the RPC supported
10 programs which were highly rated, but the challenge
11 remains getting learners through the door, or for
12 that matter, to participate in online activities.

13 Despite extensive promotional efforts, only
14 so many learners are willing to spend 3 to 4 hours
15 to attend a program. Our surveys for reasons for
16 not attending included either other commitments or
17 simply did not have the time. We need to take a
18 hard look at the blueprint and find ways to manage
19 that.

20 Secondly, there's no requirement that the
21 curriculum be covered. While several states
22 require varying degrees of pain management

1 education, it may or may not include long-acting
2 opioids. It is not required by the DEA for
3 licensure, nor by any medical board, to my
4 knowledge, for maintenance of certification. These
5 would have made an increase, a great increase, in
6 the number of people taking this important
7 education.

8 Third, just because the program attendees
9 are not an opioid prescriber, it does not mean that
10 they will not benefit from the education or have an
11 impact on patients taking opioids. Forty-four
12 percent of our activity learners were not
13 prescribers, but they decided to attend the program
14 anyway. Why? Because they recognized how
15 important the topic is, and they wanted to ensure
16 the safety of their patients.

17 So in summary, I would recommend shortening
18 the blueprint to increase adoption, requiring the
19 curriculum for MoC and licensure, and redefining
20 who a completer is to include not just people who
21 are DEA prescribers; and finally, to continue to
22 support CME in developing this important education.

1 Thank you.

2 DR. WINTERSTEIN: Thank you. Would open
3 public hearing speaker 22 please step up to the
4 podium, introduce yourself?

5 DR. ADAMS: I'm Joseph Adams again, but I'm
6 reading a statement from Don Flattery, who is not
7 able to be present today.

8 "Thank you for the opportunity to speak as
9 you consider the effectiveness of the REMS as it
10 applies to ER/LA opioids. I believe that the REMS
11 program is based on flawed assumptions and is
12 inadequate.

13 "My name, it says here, is Don Flattery, and
14 I live in Alexandria, Virginia. I am a former
15 federal manager at the U.S. EPA, a member of the
16 Virginia Governor's Task Force on Prescription Drug
17 and Heroin Abuse, and most importantly, an impacted
18 parent, having lost my only son, Kevin, who was
19 26 years old, to an opioid overdose 20 months ago.

20 "My talented, highly-educated, and loving
21 son became addicted to OxyContin as a working
22 adult, pursuing his career passion in the film and

1 entertainment industry. Like thousands of others,
2 including members of the medical community, he had
3 not fully comprehended the highly addictive power
4 of opioid drugs, and that misunderstanding led to
5 his demise.

6 "The epidemic of opioid addiction is a
7 public health crisis that continues to worsen,
8 despite all efforts to contain it. The horrific
9 loss of life continues to grow as policy experts
10 and federal authorities deliberate. Today's
11 proceeding is but one of dozens of contemplative
12 moments at a time when common sense demands more
13 aggressiveness, more realism, and unquestionably
14 more urgency.

15 "In 2014, CDC reported that there were over
16 29,000 opioid-related overdose deaths in the U.S.
17 Drug poisonings are now the leading cause of
18 accidental death in Americans and are driven by
19 dramatic increases in overdose of prescription
20 opioids.

21 "The direct association between the growth
22 of opioid prescribing and the explosion of opioid

1 addiction and mortality is well known. The cause
2 is clear and the solution is intuitive. Return to
3 more cautious prescribing.

4 "Opioids prescribed unnecessarily are
5 flooding our communities, schools, and medicine
6 cabinets and leading to overuse, non-medical use,
7 and addiction. The solution is not to make these
8 highly addictive and inherently dangerous products
9 to be abuse deterrent, but rather to change the
10 fundamental risk assessment factoring in this
11 epidemic of opioid-caused mortality.

12 "Deficiencies in medical education related
13 to pain management and addiction are well
14 documented, and this gap has sadly been filled by
15 pharmaceutical representatives, who suggested that
16 risk of addiction was under 1 percent, up until
17 2007, when Purdue Pharma was convicted for
18 misleading marketing practices.

19 "In 2009, the FDA missed an opportunity to
20 promote more cautious prescribing at the request of
21 industry and industry-supported pain management
22 organizations. FDA abandoned its plan for

1 mandatory training and registries. FDA's REMS
2 proposal is so weak that its advisory committees
3 voted against it.

4 "I offer the following comments and
5 suggestions as the committees consider the content
6 of REMS for ER/LA opioids. The REMS should include
7 immediate-release products. Entities or
8 individuals with financial relationships with
9 opioid manufacturers must not be permitted to
10 administer the REMS curriculum or to serve as
11 faculty.

12 "The REMS curriculum must reflect a more
13 realistic risk-benefit calculus, which recognizes
14 the exponential increase in addiction and mortality
15 due to prescription opioids. The REMS curriculum
16 should not imply that long-term opioids are either
17 safe or effective for chronic non-cancer pain.

18 "The curriculum must change its current
19 focus on how to prescribe, and it must be based on
20 the recent CDC opioid guidelines. The curriculum
21 should end its focus on the 'misuse and abuse of
22 opioids' and instead emphasize that opioids have a

1 significant risk of addiction in patients taking
2 them as prescribed.

3 "The curriculum should include a public
4 education component and be broadly available on
5 social media, an essential mechanism for reaching
6 wider audiences.

7 "I implore the advisory committees to
8 recommend significant changes to the opioid REMS
9 program, which is seriously inadequate, so that the
10 FDA can fulfill its role in protecting the public
11 from highly addicting and dangerous opioid drugs.
12 Thank you."

13 DR. WINTERSTEIN: Thank you. And our last
14 public speaker, number 23, would you please step up
15 to the podium, introduce yourself and any
16 organization you are representing for the record?

17 MS. CHAMBERS: Yes, thank you.

18 My name is Jan Chambers. I'm the president
19 and founder of the National Fibromyalgia and
20 Chronic Pain Association. I have no relevant
21 relationships to declare. We connect with 157,000
22 members and 160,000 people on Facebook. Thank you

1 for your services and for the opportunity to make
2 public comment today.

3 Pain is a disease with neuroplasticity that
4 increases over time if not treated. Undertreated
5 and unmanaged pain has clinical, psychological, and
6 social consequences, including limitations on life
7 activities, lost work productivity, reduced quality
8 of life, and stigmatization. Families become care
9 providers and relationships get burned out.

10 Chronic pain affects 100 million American
11 adults. Our organization conducted a 2015 survey
12 of chronic pain patients and had 6,420 responders.
13 It was published in Pain Medicine in December of
14 2015, which is the Journal of the American Academy
15 of Pain Medicine. This survey was the only
16 snapshot of what happened to people, the unintended
17 consequences to people with chronic pain 100 days
18 after the rescheduling of hydrocodones from 3 to 2.

19 We are now conducting the second part of
20 that survey to understand what is happening to
21 people one year out from the rescheduling. I'll
22 give you some of the statistics from that report.

1 27.2 percent reported having thoughts of
2 suicide since the rescheduling. Of those who could
3 no longer get hydrocodone, 18.1 percent were on
4 pain medications, 17.1 percent turned to marijuana,
5 13.1 percent used alcohol, and 2.3 percent used
6 illicit drugs. Most respondents had to visit their
7 healthcare providers more often, 64 percent, and
8 30 percent reported some type of issue interacting
9 with their pharmacy.

10 Eighty-eight percent felt that the
11 rescheduling was neither a fair nor appropriate
12 solution to the abuse of hydrocodone. For those
13 still working, 46 percent reported that they had
14 missed work because of the strict regulations.

15 The significance is that the unintended
16 consequences for people with chronic pain that have
17 been caused by the rescheduling effort to impede
18 hydrocodone abuse are negatively impacting
19 thousands. These consequences include suffering
20 from being placed on less effective drugs,
21 increased cost, inconvenience, and negative
22 influence on physician-patient and pharmacist-

1 patient relationships. We think that the REMS
2 blueprint should include screening for mental
3 disorders and suicidality.

4 Recent policies and legislation are focusing
5 only on prescription opioids in the big picture of
6 drug addiction and overdose. Street heroin and
7 illegal fentanyl patches need to be accounted for
8 in the war on drugs and in the statistics that are
9 used. Abuse-deterrent formulations on all opioids,
10 including methadone, paid for Medicaid often, are
11 necessary. The FDA must help in this important
12 strategic approach to get serious about preventing
13 opioid-naive young people from trying these
14 medications.

15 These medications are serious medications
16 for serious pain. Please make recommendations to
17 stop villainizing and torturing the people with
18 chronic pain. As I've indicated with that report,
19 the consequences do affect thousands and thousands
20 of lives. Just like other medical conditions, they
21 need medical care and access to pain medicine in an
22 integrative treatment between a physician and a

1 patient. Thank you for your time and attention.

2 DR. WINTERSTEIN: Thank you.

3 The open public hearing portion of this
4 meeting has now concluded, and we will no longer
5 take comments from the audience. The committee
6 will now turn its attention to address the task at
7 hand, the careful consideration of the data before
8 the committee as well as the public comments.

9 First, we will break for lunch. We will
10 reconvene again in this room in one hour from now
11 at 1:10. Please take any personal belongings with
12 you may want with you at this time. Committee
13 members, please remember that there should be no
14 discussion of the meeting during lunch amongst
15 yourselves, with the press, or with any other
16 members of the audience. Thank you.

17 (Whereupon, at 12:10 p.m., a lunch recess
18 was taken.)

19

20

21

22

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

(1:10 p.m.)

DR. WINTERSTEIN: You are a very well behaved committee. Everybody's already quiet and here. Wonderful.

All right. Coming to the final portion of this meeting, we're starting with Dr. Auth, who will provide us with our charge.

Charge to the Committee

DR. AUTH: Since the ER/LA opioid analgesic REMS was approved in 2012, the FDA has continued to receive inquiries regarding the effectiveness of the program. The purpose of this meeting was to publicly present the data evaluated thus far and to have an open discussion as to whether these data support the continuation of the current extended-release and long-acting opioid analgesic REMS program, or whether these data are or whether these data are not sufficient to support the effectiveness of the REMS, or whether modifications are necessary to ensure safe use.

As has been mentioned several times, the

1 multiple efforts to address the opioid crisis make
2 the evaluation of this program particularly
3 challenging. As was the case in the early
4 development of this program, many continue to
5 advocate for a program that is broader in scope,
6 while others caution that additional restrictions
7 on opioids can negatively impact patients with a
8 legitimate need for opioid analgesics.

9 You've heard presentations on the many other
10 concurrent efforts to address the opioid epidemic,
11 the challenges and successes of the ER/LA opioid
12 analgesic REMS, as well as recommendations for
13 future educational programs, a presentation on the
14 results of a mandatory state education program, as
15 well as public testimony both in support of and
16 against further REMS restrictions.

17 Your input on a wide variety of discussion
18 issues is needed, including, again, whether the
19 data submitted for the evaluation of this program
20 are appropriate and sufficient to support a
21 determination of program effectiveness; whether the
22 program should be broadened to include immediate-

1 release opioids; and whether a voluntary
2 educational program can impact prescriber behavior
3 and patient outcomes.

4 You will also be asked to vote on whether
5 the current REMS should be eliminated, stay the
6 same, or be modified, and to support your rationale
7 for your vote. You will also be asked to provide
8 your ideas on what the recommended modifications
9 should entail and how the modified program should
10 be evaluated, should you choose to vote for
11 modifications.

12 If you believe that there are other
13 mechanisms to ensure safe use of ER/LA as well as
14 ER/LA and immediate-release opioid products, that
15 might be less cumbersome than a REMS and serve the
16 same purpose. We would also like to hear those
17 ideas. Thank you.

18 **Questions to the Committee and Discussion**

19 DR. WINTERSTEIN: Thank you, Dr. Auth. We
20 will now proceed with the questions to the
21 committee and panel discussions. I would like to
22 remind public observers that while this meeting is

1 open for public observation, public attendees may
2 not participate except at the specific request of
3 the panel.

4 Before we get started, you may or may not
5 know that my task is to summarize the discussion
6 for each question. You would help me tremendously
7 if you focus on the question at hand and don't
8 deviate into anything that we are not supposed to
9 answer right now, and try to be concise, and focus.
10 That will all bring us out at 5:00, and not by 6:00
11 or 7:00, and I get to summarize what we actually
12 really are supposed to answer.

13 So please, please, please, try to do this.
14 If you don't, I will start to make funny faces, and
15 at some point, I will start throwing things at you.

16 We had some questions from over before the
17 break. There were a few more people who we had
18 noted. I will just go down the list and see
19 whether there's any clarifying questions left that
20 we need to address. That will be starting with
21 Mr. O'Brien.

22 Do you still have a clarifying question?

1 MR. O'BRIEN: [Inaudible -- off mic].

2 DR. WINTERSTEIN: Okay. Dr. Gupta will come
3 later. Dr. Bateman is good. Dr. Israel?
4 Dr. Kaye? That's probably all related to data.
5 You're good? He's good. And Dr. Brown?

6 Everybody is good. All right, good. Then
7 we'll start with the first question to the
8 committee.

9 Considering the number of participants and
10 completers in the extended-release and long-acting
11 opioid analgesic risk evaluation and mitigation
12 strategy continuing education programs in the first
13 three years of the program, please discuss, A, the
14 expectations for the reach of an education program
15 that is voluntary for prescribers and whether the
16 number of completers and participants are
17 satisfactory; B, whether the goal of training
18 80,000 prescribers of ER/LA opioid analgesics
19 within two years was appropriate, if not what is a
20 reasonable expectation in light of the many
21 competing programs?

22 Are there any clarifying questions to

1 clarify this question? I'm supposed to ask this.
2 This is in my script.

3 Okay. All right. Anybody ready to answer
4 this question, discuss the question? Dr. Brown?

5 DR. BROWN: I think the expectation of the
6 reach of this educational program, for what some
7 people have been calling a national emergency, is
8 that we involve every person we can. I've listened
9 to the folks in the public part of this, and I
10 agree that it's really a team effort and everybody
11 should be involved.

12 I think that this goal of 80,000 prescribers
13 is a laudable goal, but it is not a laudable goal
14 if there are no teeth behind the continuing
15 education to make it mandatory. So I'd like to
16 suggest, if I can, another way other than having
17 every prescriber in America involved in a REMS
18 program, and another method because there may just
19 not be enough political will at this point to drive
20 that which is necessary to make this available or
21 restricted for everybody in the United States.

22 Another method would be, which might be more

1 palatable, to identify problem prescribers. And I
2 go back to Dr. Katzman's data, which I focused on
3 before, where she showed some interesting
4 information about those prescribers that continued
5 over the years to prescribe more than 100 MMEs,
6 despite the fact that they had been educated. And
7 that might be the group that we need to focus our
8 attention on, and that might be more politically
9 palatable, and that might be an easier throw for
10 the FDA to improve this program.

11 DR. WINTERSTEIN: Dr. Stander?

12 DR. STANDER: In answering the specific
13 questions, I think, if I understood the information
14 we got, while it appeared that the goal was not
15 achieved, there was so much uncertainty among the
16 people taking CME courses as to what exactly they
17 were taking in terms of REMS qualification, that
18 everything I saw from the CME presenters, it seemed
19 like far more participants took CME courses related
20 to opioids than actually technically met the
21 qualifications.

22 So to me, the goal was actually reasonable,

1 given the number of people prescribing ER/LAs and
2 immediate-release. I think we had 1.2 million
3 people actually prescribing these meds, and you had
4 a goal of less than 10 percent of those.

5 So I think the goal was laudable and
6 reasonable. And I think, actually, technically,
7 even though it didn't meet this very restrictive
8 definition you set, it probably was achieved. And
9 we heard a lot of presenters talk about redefining
10 what's acceptable CME around REMS qualification or
11 not.

12 So I think if you open up what is considered
13 reasonable training that meets the blueprint, which
14 will probably be revised -- then I think the goal
15 was, if anything, in my view was actually
16 under -- is too low. So that's my two cents.

17 DR. WINTERSTEIN: Dr. Raghunathan?

18 DR. RAGHUNATHAN: The reach of any program
19 really depends upon how it was marketed, and how it
20 was conveyed, and how the recruitment went through.
21 So I think, given that there are 839 programs or
22 839 courses that are available for people to take,

1 and having a thousand people taking the course per
2 year -- 500 people taking the course per year is
3 not a big challenge.

4 So I don't know whether there was a lack of
5 reach in terms of how urgent it is needed. I think
6 that the marketing may have been lacking in that
7 respect. So I think it is a reachable goal. But
8 again, given that it is a voluntary nature of the
9 program, it's quite likely that they didn't think
10 this is serious enough to take these courses.

11 So I don't know. Some sort of a
12 mandatory -- somehow I think the urgency has to be
13 conveyed in order for these programs to succeed.

14 DR. WINTERSTEIN: Dr. Floyd?

15 DR. FLOYD: I agree with Dr. Raghunathan's
16 comments. I don't think that a voluntary effort is
17 actually going to reach the providers who are
18 causing the most harm from using opiates, and I
19 would advocate for a very different type of
20 educational program, but one that's mandatory.

21 My comment actually is about the questions
22 in general. The first five questions or so have to

1 do with evaluating the REMS, if it stays the same.
2 And I suspect, if we're recommending changes or
3 differences, it's not going to be very relevant.
4 But if I have comments about what I think the REMS
5 should change to, should I save those for later,
6 and comments are only for the current REMS? I
7 guess it depends on what the FDA wants comments on.

8 DR. WINTERSTEIN: Right now, just comment on
9 this question. If you take a look at all the
10 questions that have been posted, that you see in
11 the briefing material, we will have time to discuss
12 how to change the REMS. Right now, we are talking
13 about this particular question. Thank you.

14 Dr. Krasnow?

15 DR. KRASNOW: Thank you. One of the
16 problems I see with this is, I think the numbers
17 are too low. And I think that one of the reasons
18 is that I don't think the course is particularly
19 attractive because of, number one, the length of
20 the course, and, number two, the restriction to
21 ER/LAs.

22 I think if you put out a course that is

1 going to be burdensome in terms of time and very
2 restrictive in content, you might expect an optimal
3 number of people are not going to take it. So I
4 don't want to get into more details about
5 recommendations, but I think the structure and
6 length of the course needs to be addressed in order
7 to attract more people to voluntarily take it.

8 DR. WINTERSTEIN: Dr. Kaye?

9 DR. KAYE: Thank you. To me, it's about
10 lifelong learning. When you think about all the
11 changes in opiates and the epidemic or opiates as a
12 whole -- when you think of people in medical
13 school, there's a tremendous lack of education in
14 this field.

15 I give lectures across the country, and I'm
16 changing my slides every week just on opiates. And
17 I'm interested -- and I have a very good
18 background, and even I am taxed to try to keep up.
19 So I think of the primary care physician, who is
20 leading the pack in prescribing, who voluntarily,
21 if they feel like it, can get an hour or two, it
22 just seems like we should, as was said, put meat in

1 it, make it mandatory, make it user friendly.
2 Education nowadays can be done online. You don't
3 have to go somewhere in a room. You can learn by
4 your computer. We have the technology. There
5 should be teeth.

6 To the point of the outliers, the bad or
7 problem prescribers, I think that we haven't said
8 anything about it, but I will. The pharmacy
9 surveillance programs that are run through each
10 state should include national oversight for people,
11 for patients, for problem patients that we don't
12 know are problem patients, who are going to more
13 than one state and will have problems surviving
14 their futures.

15 That's not the prescriber's fault, but I
16 think that's something in the gestalt of this
17 epidemic that is not mentioned nearly enough, that
18 we should have national surveillance as we look at
19 pharmacy surveillance in kind of a report card of
20 all the strengths and weaknesses of where we are in
21 moving forward. Thank you very much.

22 DR. WINTERSTEIN: Thank you. Mr. O'Brien?

1 MR. O'BRIEN: Looking at the question
2 specifically in terms of some it asking us for the
3 past, I think the 80,000 goal was reasonable. It
4 was calculated reasonably at that time. Just
5 de facto evidence, was it satisfactory? No. it
6 wasn't. It didn't reach the goal. So to that
7 extent -- but that doesn't necessarily mean it's
8 totally critical.

9 The big question for me is, is it a
10 reasonable expectation? No. It shouldn't be
11 Russian roulette for a patient to go in, to expect
12 care, whether or not that person is trained in what
13 they're going to provide. That should be for
14 everyone that goes in. It shouldn't have to be
15 Russian roulette to go in there.

16 So I think the expectation should be every
17 prescriber should in fact be educated.

18 DR. WINTERSTEIN: Dr. Galinkin?

19 DR. GALINKIN: So in answering this question
20 specifically, I think, in terms of reach, it did in
21 many ways meet its goals because the number of
22 programs that sprung up at the same time as this

1 REMS, it seems like, have been inordinate, a large
2 number, and greatly exceeded the 80,000 people that
3 were trained. And they unfortunately suffered from
4 the fact that there was many competing programs,
5 including one by NIDA and other things that didn't
6 necessarily address all the things the FDA wanted,
7 but they were programs addressing opiate use.

8 So in that sense, it did meet the goal, and
9 I think more than 80,000 people were trained across
10 the country. However, the goal of consistency is a
11 different question. And I think, comparative
12 efficacy of these programs, at some point, it'll
13 have to be looked at, and whether a uniform set of
14 guidelines or a uniform set of continuing education
15 that can be developed across all spectrums.

16 I mean, now, you have something separate in
17 New Mexico. You have something separate everywhere
18 else. And I think a lot of people have been
19 trained with this REMS in mind, but I don't think
20 that it necessarily met the FDA definition, but I
21 do think they had reach.

22 DR. WINTERSTEIN: Dr. Parker?

1 DR. PARKER: I think it's just a restating
2 of some of what I've heard, but I would say that,
3 for the ER/LAs, the REMS were required for those
4 products, which made sense. They were non-
5 restricted from the beginning, which I think we now
6 know didn't work. Being non-restrictive, being
7 voluntary, it didn't reach the numbers, given the
8 high risk of the products and the number of deaths
9 that have been -- you can go down from death, but
10 death's such a big one, you can just start with
11 that. It's not adequate.

12 DR. WINTERSTEIN: Dr. Buckenmaier?

13 DR. BUCKENMAIER: It is somewhat hard to
14 frame this just for this question. On some level,
15 this was successful, but I think the effort was
16 myopic in the face of the national scale of the
17 problem that we're trying to deal with. So my
18 suggestion would be to claim a Bush-style
19 victory --

20 (Laughter.)

21 DR. BUCKENMAIER: -- and then recognize that
22 your initial approach was not enough, and that

1 trying to divorce the issue, as stated in the
2 National Pain Strategy, from the problem is not
3 going to work, and then develop a program that
4 massages those issues.

5 Providing every provider with some modicum
6 of understanding of pain in our society would be a
7 very good thing. And at the same time, you can
8 provide the information that those providers who
9 prescribe would need to do that effectively, and
10 therefore actually move the ball on this issue;
11 because, if you divorce the drug-specific issue
12 from the thing that's driving it, which is pain in
13 this country, you're doomed to failure, in my
14 opinion.

15 DR. WINTERSTEIN: Dr. Garcia-Bunuel?

16 DR. GARCIA-BUNUEL: So my comments are this.
17 I think the FDA got what it expected and asked for,
18 historically. I think when this idea was proposed
19 and supported, the fact that you got very
20 inconsistent data, we're left with very little
21 solid information here; we are three years later.
22 So I think the expectations were met, but it was an

1 anemic attempt at addressing a high-risk situation.

2 So having said that, yes, in my mind, it's
3 clear there are a couple things. My sense is,
4 historically, at some point, we lost the key, which
5 I think is part of what this committee is here for,
6 is to talk about risk and trying to identify risk
7 on a national scale as public health practitioners,
8 as clinicians, all of us.

9 So I think what got lost in the shuffle here
10 is that the risk got drowned out by trying to make
11 a big program. The risk message got drowned out
12 because it's a voluntary program, and the risk
13 message got drowned out because there were hundreds
14 of people trying to do it in a hundred different
15 ways.

16 So my recommendation on this question is,
17 yes, it should be mandatory, and I can comment
18 later on how I think that should look. But I think
19 if we don't make changes, we'll just go down the
20 same road.

21 DR. WINTERSTEIN: Dr. Israel?

22 DR. ISRAEL: I just want to say I've been

1 working with NIDA for the last 15 years on drug
2 epidemiology and drug abuse issues and been
3 watching the evolution of the opiate addiction
4 problem from heroin, including all these
5 prescription opioids.

6 I just want to make a comment. I agree with
7 a lot of the things that are being said. But I
8 think, also, this idea of voluntary participation,
9 you don't know what you don't know. And those of
10 us that are working in the area, or that are
11 acutely aware of what's going on, obviously
12 understand how these are bridged together. But the
13 rule providers, people that aren't particularly
14 taking CEs in this area, don't know that they
15 really need to have the CEUs or CMEs to understand
16 what their responsibility is and how to handle
17 these patients.

18 So I would agree that it needs to be more
19 mandatory in nature.

20 DR. WINTERSTEIN: Wonderful. Dr. Bateman?

21 DR. BATEMAN: I was just going to echo
22 Dr. Israel's comments. I think, to me, the issue

1 is not just the absolute number of providers that
2 are enrolled, but whether the program is reaching
3 those providers that most need the training. And I
4 think with a voluntary program, you're likely to
5 attract providers that are attentive to this issue,
6 that are eager to improve their prescribing
7 practices, but you'll miss those that are at
8 highest risk for using opioids inappropriately.

9 DR. WINTERSTEIN: Excellent. Okay. So I
10 think the committee agrees that the goal of 80,000
11 was not too high, that it may in particular not
12 address prescribers who may be in the greatest need
13 for training.

14 The committee pointed out that, as science
15 changes so rapidly, it is a fallacy to rely on
16 prior training of physicians or PAs and RNPs, and
17 that they need to be continuing training on opioid
18 issues. The committee pointed out again this is a
19 national epidemic and that every patient should be
20 able to expect that he or she gets adequate care as
21 it relates to appropriate pain management.

22 I'd like to add, just in terms of numbers,

1 that if we are thinking that it took about three
2 years to train about 20 percent of all prescribers
3 and we extrapolate this to the approximate year
4 when all prescribers would be trained, we are
5 looking at another 8 to 10 years, assuming that
6 there was some ramp-up time; and that seems to be
7 not an adequate projection, considering that this
8 is a crisis.

9 There were a few suggestions made for
10 improving the reach, and I expect we will talk more
11 about this in the next questions. The committee
12 commented that the marketing and the outreach may
13 not have been sufficient to really get prescribers
14 involved in the CME; that the voluntary nature is
15 not effective; that the structure and the length of
16 the training may need to be revised to become more
17 attractive; that there are clearly competing
18 programs that may have trained to various
19 extent -- or may have provided training to various
20 extent and that there should be some
21 standardization to ensure that the appropriate
22 messages are communicated throughout all available

1 CME programs.

2 Does that summarize everything that we're
3 thinking? Dr. Morrato?

4 DR. MORRATO: You did a great job
5 summarizing. But I had two other things to add
6 before that, so I'm sorry if I'm out of order.
7 Just to add, maybe two things I thought related to
8 metrics. We talk about prescribers, but I think a
9 metric can also be the proportion of patients that
10 you're reaching.

11 So it kind of relates to the problem
12 prescriber, but we saw yesterday that there's
13 different prescriber specialties that are writing
14 at different volume, so you could have a more
15 targeted approach in how we think of the prescriber
16 number. And hitting 25 percent if they're writing
17 80 percent of the prescriptions could be a very
18 good number. We just don't know based on the data
19 that we have right now. So that was one comment.

20 Then the other, in terms of just where FDA
21 may have chosen the tipping point of 20 percent or
22 25 percent, it's useful to remember diffusion of

1 innovation theory and tipping point that's been
2 popularized, that 25 percent is sort of where
3 things really take off.

4 If at two years you're only hitting half of
5 that goal, you're hitting the 12 percent, which
6 tends to be people who are more innovative, who are
7 more involved, the more eager learner, that is not
8 necessarily translating in the population.

9 So it's hard to know if we're just getting
10 the people who are already eager learners for this
11 kind of voluntary, and it certainly doesn't address
12 the point you raised on the speed of the curve and
13 how long it takes it to happen, and that's probably
14 too slow, what they had.

15 DR. WINTERSTEIN: Moving on to the next
16 question -- more to question 1, Dr. Stander?

17 DR. STANDER: No. I was ready for
18 question 2.

19 DR. WINTERSTEIN: You're ready for
20 question 2. All right.

21 (Laughter.)

22 DR. WINTERSTEIN: Get in the queue quickly.

1 Question 2, many parts, the effectiveness of
2 the data sources and methodologies used by the RPC
3 to evaluate the impact of the ER/LA opioid
4 analgesic REMS, particularly the expectations for
5 the reach of an education program that is voluntary
6 for prescribers and whether the number of
7 completers and participants is satisfactory; B,
8 whether there are more effective short- and long-
9 term approaches to measure the success of ER/LA
10 opioid analgesic REMS in reducing serious outcomes
11 resulting from inappropriate prescribing, misuse
12 and abuse of ER/LA opioid analgesics while
13 maintaining patient access to pain medications; C,
14 whether the potential effects of the ER/LA opioid
15 analgesic REMS on reducing abuse, misuse,
16 addiction, overdose, and death can be
17 differentiated from the many federal, state, local,
18 and health systems activities with similar goals;
19 D, what is the anticipated length of time for an
20 educational intervention to broadly impact
21 prescriber knowledge and behavior.

22 Dr. Stander?

1 DR. STANDER: Thank you. I think the first
2 one, A, if we go in order, I think everybody is
3 more or less coming to a consensus that the
4 voluntary is probably not the best way to go.

5 While it's tempting, I agree with Dr.
6 Morrato that it might be tempting to try to hit a
7 targeted group. I think that's going to be
8 difficult because there's often nurse practitioners
9 prescribing because their supervising physician
10 might have recommended. I'd be more inclined
11 towards something, as we'll see, perhaps talk more
12 about later, linking it to DEA or something.

13 I think it's very difficult. I think the
14 presentation yesterday from our epidemiologists
15 about really tracking these outcomes is going to be
16 extremely difficult to measure the success, but I
17 think there have been a lot of people that talked
18 about registries for prospective tracking, seeing
19 if we can track not just the numbers of
20 prescriptions, but the numbers of pills and the
21 morphine equivalents, as I think New Mexico had
22 done; trying to correlate it with what diagnoses

1 they're being used for. We especially heard some
2 of our experts talking about fibromyalgia, and
3 non-structural back pain, and so forth, and it's
4 really evidence that they may have adverse effects;
5 and if on tracking the overdose deaths, if we can
6 segregate out illicit versus prescribed opiates.

7 I think it's going to be very difficult, if
8 impossible, to segregate out the effects of
9 education versus the myriad other interventions
10 that are going to happen. And it's going to come
11 down to an argument, are we going to look for proof
12 of efficacy to determine whether we keep educating
13 people about this or are we going to accept the
14 intuitive belief that education, it's hard to see
15 how it's harmful unless it's unduly burdensome, and
16 that we all believe that if you're prescribing a
17 dangerous medication, you ought to be taught how to
18 do it as optimally as possible.

19 I think that -- I'm not sure for D -- the
20 anticipated length of time to have a broad impact
21 on prescriber knowledge and behavior is probably
22 almost immediate. It's difficult to measure, but I

1 think many of the CME programs can assess their
2 impact.

3 I would get away from, if possible, the "did
4 you think this program was good" and so forth. I
5 think pre- and post-testing is probably the best
6 way to determine that, but I think that, from the
7 impact on knowledge and behaviors, it can be almost
8 immediate. Thank you.

9 DR. WINTERSTEIN: Dr. Choudhry?

10 DR. CHOUDHRY: So I do also agree that the
11 effectiveness, data sources, and methodologies have
12 thus far been somewhat lacking, and I very much
13 appreciate the effort of the FDA and the industry
14 to actually develop a framework for evaluating
15 REMS.

16 What I think was absolutely right is the
17 idea that there's a multi-modal approach here, that
18 there's not one solution; that there's the ultimate
19 randomized controlled trial that looks at opioid
20 deaths, or something like this, or overdoses, and
21 therefore, we know whether the REMS worked or it
22 didn't. The story is much more complicated than

1 that, so I think that the reliance on two or three
2 at least different modalities is right on. And as
3 we think about modifying, we maintain that
4 philosophy.

5 So I'd make a couple of very concrete
6 suggestions, some of which actually came out of
7 directly from the FDA's own presentation yesterday,
8 from the epidemiologists and statisticians.

9 In the survey realm, the idea of the length
10 of the evaluation almost certainly has something to
11 do with the completion or likelihood of
12 participation. So recommendation number one would
13 be that we actually propose to shorten the surveys
14 that are done for evaluative purposes.

15 Number two, a much better sampling approach
16 be used. We heard about the non-systematic models
17 that were used at that point, and therefore the
18 large selection effects that resulted. So clearly,
19 we need more generalizable and larger sample sizes,
20 and using better sampling methodology; we ought to
21 go there.

22 For the second group of stuff, whether we

1 call it surveillance or drug utilization, a couple
2 of thoughts. First of all, as was brought up
3 yesterday, there is an emerging body of integrated
4 data sources that we all use in our research lives
5 now, which married together in some cases
6 electronic health record data, with claims data,
7 with some in cases registry data, with laboratory
8 data, and so on, and so forth; so the idea of
9 reliance on a broader set of those sources, which
10 not only will give us more granular data on
11 indications, but therefore on appropriateness,
12 which is clearly a metric which we really haven't
13 gotten to, to date.

14 The challenge of evaluating programs when
15 there are multiple competing alternative things
16 happening is clearly one which confounds most
17 people in observation in epidemiology and will
18 almost certainly continue to confound the
19 evaluation of REMS.

20 That said, there are methods for this. So
21 to the extent that there are multiple states doing
22 multiple things, to some extent, states which have

1 all the attributes less or plus one serve as
2 controls for the other states.

3 We've done this in other contexts, for
4 example, where we tried to evaluate complex systems
5 like insurance benefit design, there are 5 or 10 or
6 15 attributes they may be going in and out of at
7 different times. And there are strong quasi-
8 experimental approaches that can be applied to
9 actually to make inference on that basis.

10 So I would suggest that, with the right
11 data, which should be available, that there are in
12 fact ways to begin to tease apart some of the
13 effects here, and that should really be the action
14 of further intent.

15 The last comment I'll make is with regards
16 to D. We're talking about behavior change from a
17 single continuing educational intervention. So
18 what in general we know is that in order for
19 behavior to really change, it has to be sustained
20 and ongoing. So I would be hard-pressed to imagine
21 that a single intervention would actually
22 meaningfully and durably change prescribing.

1 I think the answer to the question is that
2 if you're going to see a change just from that, it
3 will likely be there, but then short-lived. So at
4 the very least, that sort of leads itself to one of
5 two possibilities.

6 Either we encourage not a one-and-done kind
7 of thing, but a multiple ongoing iterative idea,
8 and then you might need a year to see an effect, or
9 conversely, if you are going to do one, you ensure
10 the durability of the effects, so both over the
11 short term and over the long term. I'll stop
12 there.

13 DR. WINTERSTEIN: Thank you. Dr. Higgins?

14 DR. HIGGINS: I wanted to talk a little bit
15 about the data sources and the methodology used for
16 this. I'm quite surprised that a representative
17 sample was not used and a random sampling method
18 was not used for this, which I think really would
19 have bolstered the results that we have here.

20 It's hard for me to compare people who
21 responded with those who don't respond when those
22 target populations are not really being

1 represented. I'm also struck by the fact that CMS
2 data was not used and the reliance solely on
3 private commercial insurance. I think that was a
4 huge mistake.

5 I do hear that there were some challenges
6 using those data, but I think it really would have
7 enhanced the quality of this survey.

8 DR. WINTERSTEIN: Dr. Raghunathan?

9 DR. RAGHUNATHAN: I was thinking about this.
10 After hearing all those presentations from the
11 analysis, it was kind of disappointing that this
12 was not carefully thought out, an evaluation
13 strategy. If this were a phase 3 trial, evaluating
14 the effect of treatment on patients -- where I
15 think this is an effect of evaluating the effect of
16 intervention that is designed on prescribers, I
17 would have thought about evaluating that
18 intervention on the prescribers using several
19 outcome measures and several carefully crafted
20 design experiments as well as sample surveys.

21 So I didn't see the blueprint of analysis or
22 designed experiments that was recommended, but I

1 think this needs a careful redrafting of the
2 evaluation plan using measurable outcomes,
3 carefully crafting the various design of
4 experiments and sample surveys, using longitudinal
5 data of detecting the change in the behaviors.

6 So I think that this whole plan was not
7 adequately addressed in the current REMS
8 evaluation.

9 DR. WINTERSTEIN: Dr. Bilker?

10 DR. BILKER: Yes, hi. There are just a
11 couple of points I wanted to bring up. The first
12 thing is -- and I think somebody mentioned this
13 just a minute ago -- the current REMS program
14 measures the level of prescribing, which is very
15 helpful, but it doesn't address at all whether any
16 of the prescribing is appropriate or inappropriate.
17 And I don't think moving can be made without that.
18 You can't just look at the level of prescribing.
19 And as Dr. Stander pointing it out, we may be able
20 to address that at least partially by looking at
21 the prescribing patterns within specialty areas.

22 One other thing I wanted to bring up

1 is -- and I know this has come up at least in
2 part -- there's a lot of different federal agencies
3 that are looking at this issue, but it doesn't seem
4 that there's a lot of collaboration between the
5 agencies.

6 So we've got the FDA, the CDC, the DEA,
7 NIDA, and this isn't a federal agency, but the
8 American Association of Medical Colleges, CMS, all
9 the CME providers. But it doesn't seem like
10 there's enough cooperation between all the groups.
11 And that may have to be done through legislation to
12 make that happen, but it seems like something needs
13 to happen along those lines.

14 DR. WINTERSTEIN: Dr. Emala?

15 DR. EMALA: I would just like to add a few
16 comments about question 2B, about the effectiveness
17 of the evaluation. And I have to say I'm pretty
18 struck with the lack of studies that attempted to
19 address the major goal of the REMS, which was to
20 look at outcomes. And in some ways, it appears
21 that the lower-hanging fruit was approached with
22 looking at prescriber education and knowledge base.

1 So I think, based on the recommendations of
2 the epidemiology group at FDA itself, that
3 recommended a longitudinal study of prescribers
4 that do and don't take the training, as well as
5 studies as we started seeing a little bit of
6 yesterday, the Pri-Med study using electronic data
7 sources and administrative data sets to look at
8 true outcomes, I think, is imperative.

9 In fact, if I had any reluctance whatsoever
10 in recommending mandatory training or expanding
11 training to IR formulations, it would hedge on the
12 fact that we're really looking at an inadequately
13 evaluated system at this point and whether the REMS
14 have really met its goals of achieving its primary
15 objectives. Instead, we're really discussing some
16 secondary measures of prescriber education rather
17 than outcomes.

18 DR. WINTERSTEIN: Dr. Brown?

19 DR. BROWN: I want to reiterate what
20 Dr. Bilker was saying about something that I just
21 said, and that was relating to inappropriate
22 prescribing. I think, in my mind, that's the crux

1 of the point here. That's the identification of
2 the group that is probably causing quite a lot of
3 the problem that we've been seeing.

4 It may require us to have some whole new
5 method surveillance system, develop a whole new
6 surveillance system. But I think it's worthwhile
7 for one of the federal agencies to look in some
8 detail at pulling together all the information we
9 have, including pharmacy surveillance from
10 individual states and DEA records to try to
11 determine if we can't create a database of who's
12 really causing the problem.

13 DR. WINTERSTEIN: Dr. Parker?

14 DR. PARKER: Just to underscore a couple
15 things and add a slight bent to a couple of them,
16 I'm really going after the B and D components here.
17 I totally agree with C being multi-modal. If it's
18 starting to work and everything's working, don't
19 spend too much time figuring out what it is. Just
20 be glad, because, right now, we need to make it
21 better.

22 So regarding B, it seems to me I totally

1 agree with going after the inappropriate
2 prescribing behavior and getting to that. So I
3 want to throw a couple other words in here that
4 relate to some of what has been said. It's
5 incredibly ripe for analysis of big data.

6 So we're hearing about data analytics, using
7 big data. There are a lot of data sources. There
8 are a couple that are not in the room that I think
9 are important to highlight. One is the payers, the
10 insurers, and the ones who are paying for the
11 prescriptions to get filled, and what data you
12 could actually garner from that source, and how
13 that could be added into understanding what's
14 really happening, also data that comes from the
15 retail sites, but looking across these multiple
16 sources with analytics to try to get at what's
17 really going on with inappropriate prescribing
18 behavior, so that we have a better handle on what
19 it is we're really trying to go after.

20 I think the other thing relating to D that's
21 worth underscoring, educational interventions and
22 particularly prescriber behavior. And I'm going to

1 speak mostly from the bias of being a physician
2 myself, but I think it relates to most prescribers.

3 Behavior is hard to change. Most people
4 know more than they do. All of us do. I had a bag
5 of Cheetos for lunch, and I wouldn't have bought
6 them. We know more than we do. So when you get at
7 the behavior of actually doing, that's a tough,
8 tough thing to go after. And if what we're really
9 after is the prescriber behavior of inappropriately
10 prescribing, you've got to think very long and hard
11 about how we're going after that.

12 Certainly, incentives, and opportunities,
13 and quality offerings are important, but
14 consequences are as well. So what happens when you
15 don't and when you violate? So I think a very
16 careful look at whether or not something like REMS
17 can really get at that, which does not get at what
18 happens when you don't and what happens when
19 inappropriate behaviors continue, is worth
20 highlighting and thinking about as part of this.

21 So in other words, what are you really
22 asking the REMS to do? And consequences per se are

1 not necessarily a part of that, but the
2 inappropriate prescribing behavior is obviously a
3 target. So it's sort of a very careful model that
4 tells you where you're going, what you're going
5 after, why, what you can expect.

6 It's a comprehensive look at something that
7 really has absolute dire adverse outcomes, and it's
8 highly recognized in our country.

9 DR. WINTERSTEIN: Ms. Shaw Phillips?

10 MS. SHAW PHILLIPS: Lots has already been
11 said, so I'm trying not to repeat anything. But to
12 tag onto what Dr. Choudhry was saying, I think,
13 depending on what you're trying to get out of your
14 education, if you're trying to get that knowledge,
15 the knowledge of what the alternatives are, or how
16 to approach a patient with pain, I think it's one
17 kind of assessment. And you would expect that
18 change to happen very rapidly, but also hopefully
19 to be maintained in that knowledge and ability to
20 apply to be retained. I think the practice change
21 and outcome change is something that's going to
22 take longer to see on a population level.

1 What I'd really like us to be thinking about
2 is who should be doing those assessments. And
3 rather than putting that in the hands of the RPC, I
4 think it would be better handled as a
5 responsibility of the education providers,
6 particularly as we move for education being more
7 innovative and targeting, changing practice and
8 changing outcomes rather than just imparting
9 knowledge.

10 There are certainly innovative educational
11 models that include those follow-ups, so what did
12 you change in your practice or encouraging the
13 health systems, or the target sites, or the
14 targeted populations to measure the outcomes
15 themselves?

16 Even some very simple outcomes that we saw
17 did not occur with the REMS in the first three
18 years would be very helpful, so ensuring that
19 there's a contract for every patient on long-term
20 pain management to ensure that the patient
21 counseling guide as revised is used with a
22 discussion with the patient.

1 I think there are some very simple things
2 that organizations should be monitoring, and step
3 up in alternative care, and referral to
4 specialists, and so on that could be put back in
5 the hands of the attendees in the systems or
6 organizations that are being educated.

7 DR. WINTERSTEIN: Dr. Floyd?

8 DR. FLOYD: So I think a number of very good
9 recommendations have been made about better study
10 designs, data resources, improved collaboration,
11 focusing on adverse outcomes, bad prescribing in
12 particular. I would just urge the FDA that
13 whatever changes are made to the REMS, they not be
14 delayed for this evaluation to happen on the
15 previous ER/LA REMS, that this be the plan for
16 assessing whatever new REMS is implemented.

17 I think that's important. Some of these
18 study designs or investigations could take quite a
19 while to do, and I don't think that should delay
20 any changes that are recommended.

21 DR. WINTERSTEIN: Dr. Galinkin?

22 DR. GALINKIN: This is in regard to

1 question 2B. What does inappropriate prescribing
2 mean? I'm still not entirely sure after all of
3 these discussions. Is it the amount, the type of
4 drug given to the patient archetype? And how do
5 you measure these outcomes? I think that's a key
6 question.

7 If our key outcome is death, you need to
8 develop patient adjudication committees to actually
9 adjudicate the deaths, and see if they're
10 associated with opiates, see if they're associated
11 with the opiates that are prescribed for that
12 patient because really, in some ways, you're
13 directing these REMS specifically at -- it seems
14 like chronic pain patients and patients
15 inappropriately getting this for chronic pain, when
16 I'm not sure if that's really what the goal is of
17 getting these opiates off the street, which is a
18 much different question.

19 If there's somewhere around 25 percent of
20 opiates -- at least, that's partially -- somewhere
21 between 8 to 25 percent of opiates end up on the
22 street, what are we actually measuring? And I

1 think this is going to end up being a multi-
2 pronged, multi-organizational effort. There's just
3 no other way to do it because to get the death data
4 is not something that the FDA can do.

5 To get a lot of this prescriber data is
6 probably more something that the DEA is going to
7 help with. So the organizations have to work
8 together to do this, and this can't be a feuding
9 match, which is what seems to be going on between a
10 lot of the organizations.

11 DR. WINTERSTEIN: Dr. Bohnert?

12 DR. BOHNERT: I wanted to acknowledge that I
13 think the RPC was somewhat handicapped in doing
14 their evaluation by the fact that they were not
15 able to have the identifiers for who did the
16 training, in that I think being able to link that
17 to pharmacy records would have given the panel some
18 of the data we were interested in understanding in
19 the program.

20 The other thing I was thinking about, when I
21 think of wanting to do an intervention study or a
22 trial with an intervention that's readily

1 available, I think of Christine Timko's work that
2 she's done around 12-step groups, where her actual
3 intervention that she randomizes to is a
4 facilitation of using that intervention. And it's
5 given to people who have not yet availed themselves
6 of this readily available -- we're currently doing
7 a similar design of the trial around crisis line,
8 and then to be able to look at the outcomes you're
9 able to use, a mediation model to better understand
10 the underlying process of effect.

11 But that said, I agree about not delaying
12 the implementation of any changes that are made
13 based on being able to do an evaluation, and doing
14 anything that would be a trial would be very
15 challenging if the timeline in which all the people
16 are expected to have done training is fairly short.

17 DR. WINTERSTEIN: Mr. O'Brien?

18 MR. O'BRIEN: To answer again, I don't want
19 to repeat a lot of the things, but clearly, for the
20 question here, the data sources and methodologies,
21 I think, were very poor and did not reflect what I
22 thought were the goals of REMS that were there.

1 We heard and saw that in things like surveys
2 self-reported, non-representative samples that did
3 not reflect perhaps even the prescribed community
4 for patients, and we didn't even have any
5 correlation to the adverse events, adverse outcomes
6 population.

7 If we looked -- which again gets to the need
8 of more granular data to determine are we reaching
9 the goals. And to Dr. Brown's point and looking at
10 Dr. Katzman's presentation, the number being
11 concerned about inappropriate prescribers, from my
12 perspective, it was not clear to me that we can
13 make a link between those charts of a reduced
14 number of prescribers with an increased number of
15 volume with the death rates and the adverse
16 outcomes. Are they really related? We don't know
17 that.

18 I think it was just mentioned by
19 Dr. Galinkin that the data does not give us a clear
20 indication are we reaching the target audience that
21 we want, the target population for the crisis
22 that's here, that we've got to resolve, and to

1 reach the two goals that are very clear within
2 REMS.

3 In terms of potential methodologies on a
4 short-term basis, and we've discussed it a little
5 bit, I think patient committees are necessary. I
6 think patient involvement is necessary. The second
7 part of this goal includes patients. And to make
8 sure there's no adverse effects, I think we have to
9 include more patients in here. Nothing I saw
10 really included patients other than a non-
11 representative sample after the fact of perhaps
12 non-related people to the problem.

13 I think that perhaps some of the things to
14 look at, in addition to outcomes studies, quality
15 of life instruments there, et cetera, to see what
16 the true impact is, in terms of access we may be
17 able to utilize, or I suggest we take a look at
18 live reporting. We have adverse effects and NIH
19 for other agencies, et cetera, where we can go in
20 and patients can report if they have troubles with
21 access, if they can't get what it is.

22 I think we can perhaps get some live data as

1 to what's happening out there in the community
2 rather than after the fact. I think, for adverse
3 effects, for caregivers to be able to also
4 communicate in that event and to increase the
5 amount of data we're getting on more of a live
6 basis may be helpful.

7 If we're going to start to look at the
8 crisis of opioid deaths, then in terms of
9 Dr. Katzman, it would be great. On one side, we
10 have the data more granular in terms of dosage
11 levels for prescriptions, but we didn't have that
12 data, we know, for the 265 in New Mexico, what that
13 was by level. Then we may be able to correlate one
14 to the other and begin to see whether or not it is
15 inappropriate, whether it's doctor shopping.

16 Is it doctor shopping in a negative way in
17 terms of those that are really abusing the system,
18 or is it doctor shopping because they can't get
19 access to it, and the chronic sufferers who really
20 need it can't get it anymore because their
21 prescribers are not there, so they have to go to
22 someplace else who is doing it?

1 Those are two different things, and I think
2 we have to get a better understanding of what that
3 is in the data before we start making the crisis
4 that's here and we have to respond to. But you
5 also have the problem of the tail wagging the dog,
6 and we want to make sure that we can ferret out and
7 get to the appropriate level. And I don't think it
8 accomplishes that at this point in time.

9 DR. WINTERSTEIN: Dr. Gerhard?

10 DR. McCANN: Just a couple of additional
11 points. Obviously, we've seen a lot of issues with
12 the REMS evaluation in the past, both in terms of
13 methodology as well as data sources. Some of them
14 were structural by the way this was mandated.

15 The point I really want to make, though, is
16 I believe, although this requires me to look into
17 the future and vote on future questions a little
18 bit, if we are going the route that this will be
19 greatly broadened or even mandated, the challenges
20 for evaluation will be very difficult and even more
21 complicated than in the past because we basically
22 won't have a comparator anymore.

1 If we mandate that everybody is trained, we
2 can't compare trained people to untrained people,
3 so we are limited to looking at changes in behavior
4 or changes in knowledge over time, while many, many
5 other things are going on at the same time.

6 So I think we'd have to be okay with
7 stepping back from trying to distinguish what makes
8 the impact here, just trying to design a program
9 that is as strong as we can design it and a program
10 that focuses on the right issues.

11 I think the issue that's really central and
12 has been largely ignored is this issue of
13 appropriateness. And particularly, I think
14 appropriateness in the sense of use for non-
15 evidence-based indications or chronically in ways
16 where there is just no evidence that the opiates
17 are actually effective, I think that's probably
18 where the biggest -- or in situations where
19 alternative approaches weren't sufficiently tried
20 out, the latter will be really complicated because
21 there are many places in the country where those
22 alternative approaches might not be available.

1 But I think that's really an important thing
2 to realize, that if we go that route of mandating
3 something, we won't be able to compare physicians
4 with and without the intervention and make these
5 evaluations.

6 The one thing I want to caution, although
7 we're obviously all looking at these overdose death
8 numbers, and they're the most striking example of
9 the problem, I think they, in many ways, might be
10 the worst specific target for the intervention.

11 Trying to evaluate the effect of this
12 program and other efforts just by looking at these
13 overdose death numbers I think is equally likely to
14 get you to declare a false victory or false defeat
15 because they're influenced by much stronger
16 alternative factors, the availability of naloxone
17 that might reduce death rates, although the
18 underlying problem is even increasing, or a real
19 start of tackling the prescription opiates while
20 availability of illicit drugs is increasing at the
21 same time.

22 All of these factors, illicit drugs,

1 naloxone, affect death rates very immediately, so I
2 think it would be problematic to just focus on that
3 number. I think if we can -- and that's difficult
4 to measure -- get a handle on appropriate use or
5 maybe even abuse, which is even more difficult to
6 get, that's I think a more important goal for this
7 and other efforts.

8 DR. WINTERSTEIN: Dr. Fry?

9 DR. FRY: To kind of second what Dr. Gerhard
10 was saying, you can't just look at death data. If
11 you're looking at prescribers, you're missing the
12 fact that some of the overdoses are for drugs that
13 are being diverted. You know, I broke my foot.
14 Babysitter comes in, steals the rest of my oxy,
15 sells it, that patient dies.

16 So as you're looking at all these surveys,
17 you're not going to get accurate data with
18 prescribers and how it correlates to overdose and
19 death. I mean, there will be some correlation for
20 patients that are taking their prescriptions as is
21 and overdosing, but there is a large subset of
22 diverted drugs that are causing death that would

1 not be seen in these studies.

2 DR. WINTERSTEIN: Dr. Morrato?

3 DR. MORRATO: The point I just wanted to add
4 was, I think the need for some harmonization of
5 metrics that are being measured by health systems
6 and that maybe there's an opportunity, at least in
7 those measures, for more real-time surveillance.

8 So these kinds of reports that we've been
9 discussing the last day only become available to
10 the public when you have forums like this and they
11 get synthesized into briefing documents. So all
12 you hear in the public surveillance is about the
13 deaths and the emergency room. We're not seeing
14 things as it relates to the prescribing in a
15 similar way. I think that's a role that the FDA
16 could play in making some of this evaluation more
17 transparent. I know that was common in the public
18 hearing.

19 Just to reiterate or underscore a point that
20 was raised yesterday, CMS is in the process of
21 developing quality indicators. It looks like they
22 might be implemented as soon as 2017. They're

1 getting reviewed now. They focus on opioid high
2 dosage as well as multiple prescriber and multiple
3 pharmacies and thinking of this as an
4 overutilization monitoring system.

5 So I think there's opportunity with the REMS
6 evaluation, a component of it, to be looking at
7 harmonizing with these kinds of metrics, and it's
8 through these kinds of audit feedback that many
9 times, health systems will then implement programs
10 that are affecting these kinds of metrics.

11 So it's a way of helping institutionalize
12 the REMS measures as well.

13 DR. WINTERSTEIN: Dr. Brown?

14 DR. BROWN: There are a couple -- as we go
15 around the table, we talk about all that we don't
16 know, but there are a couple of things that we do
17 know. One thing that we at least believe that we
18 know right now is that higher doses are associated
19 with poorer outcomes. And, of course, association
20 is not causality, but it sure is an observation.

21 The other thing we know is that the pain
22 community recommends that we stay away from doses

1 of drugs that reach that level and when people are
2 prescribing and get close to 90 to 100 MMEs per
3 day, they begin to really be thoughtful about what
4 they're doing.

5 If indeed the CMS is going to use this as a
6 quality indicator, then that would be a first step
7 for us to be able to look at something, which I
8 think is important because it's something that we
9 can all agree on.

10 DR. WINTERSTEIN: Dr. Israel?

11 DR. KAYE: There have been some really good
12 comments made by the last couple people that have
13 spoken, so I just have a couple quick things. In
14 all fairness, in 2009, when this was all started
15 with the development of this program, no one had
16 any idea that the heroin epidemic was going to
17 explode like it has or have all these prescription
18 opiates involved.

19 So in hindsight, it's great to say, well, we
20 should have done things differently with the RMS,
21 but there's no way to really know that back then.
22 There was inklings that was going to happen.

1 So I think it's important to move forward,
2 and I think everybody at the table has been saying
3 that rather than worry about what's in the death
4 data and how we're going to tease that apart from
5 the heroin, which you'll never be able to do.

6 I mean, I've sat down with years' worth of
7 death data from just the state of Missouri trying
8 to figure out how all this stuff falls out, just
9 looking at the actual MME data. And it's very
10 difficult to figure that stuff out, and it's
11 probably a waste of time. We need to figure out
12 what we're going to be doing with prescribers and
13 moving in the direction we're talking about. If
14 CMS is going to make those changes, that's going to
15 help us quite a bit along the way.

16 DR. WINTERSTEIN: Dr. Raghunathan?

17 DR. RAGHUNATHAN: Yes. Focusing on death is
18 such an extreme outcome. To me, I think that is
19 like an end-stage renal disease, so you have lots
20 of other steps that you can do in order to prevent
21 it going to that stage.

22 So I think there are a lot of outcomes that

1 you can study that I think can prevent going to
2 that stage. But I think not focusing on those
3 early stages of outcomes that can have an impact
4 would not be appropriate; for example, whether the
5 non-opioid treatment options have been exhausted or
6 not and whether the dosing was done correctly or
7 not, whether number of prescriptions that are being
8 given is appropriate or not.

9 So there are so many other things that we can
10 measure based on the longitudinal data of the
11 prescription behavior that I think can have an -- our
12 programs can be tuned to that. So all those outcomes
13 could be measured rather than just hanging on this
14 one outcome, which so many other factors affect that
15 outcome.

16 DR. WINTERSTEIN: Dr. McCann?

17 DR. McCANN: I know nobody has said this,
18 but Dr. Gerhard's point that 80 percent of
19 prescribers have not taken the course, I think does
20 provide great opportunity. I don't understand why
21 nobody has brought up the idea of doing a
22 randomized controlled trial of a random sample of

1 the 80 percent who haven't taken the course.

2 It would be quite easy. I don't think you'd
3 need that many patients, and it wouldn't take very
4 long to do. If enticing them to enroll would
5 involve some money, I would think that that could
6 come from the RPC., and it would be another
7 way -- it would be a very easy way, I think, to
8 measure the impact, whether the REMS is actually
9 affecting whatever outcome measures we come up
10 with. And I agree with everybody else that we
11 don't really have good outcome measures at this
12 point.

13 DR. WINTERSTEIN: Dr. Garcia-Bunuel?

14 DR. GARCIA-BUNUEL: Just a couple comments
15 about other ways of looking at maybe bridging with
16 what Dr. Choudhry had said. So other
17 opportunities, I think we're having a discussion
18 obviously nationally and trying to get our arms
19 around this one in a big way, and then the flip
20 side being I think one of the luxuries or resources
21 we have in this country is, one, healthcare is
22 delivered locally. A majority of healthcare occurs

1 locally, and we can ask questions at the local
2 level, whether it's looking at states and obviously
3 having to compare different programs once again,
4 whether it's Washington or New Mexico.

5 Another thought that comes to mind is, as
6 healthcare changes, and it's going to continue to
7 change -- so for instance, in the state of
8 Maryland, where we have gone to global budgets
9 through the waiver, through our HSCRC, now we in
10 the state of Maryland -- and I'm interested in it,
11 too, because of just looking at the VHA as a
12 system.

13 But we are looking at regionally, in our
14 state, hospital systems that are now essentially
15 responsible for the population. And there's been a
16 lot of work put into looking at who these patients
17 are, where do they live, and then interestingly,
18 obviously, paying health systems to take care of
19 those people.

20 So within that, in their intervention to
21 decrease risk, those healthcare systems are going
22 to have an interest in looking at utilization of

1 EDs, utilization of multiple resources,
2 complications, hospitalizations, readmissions.

3 So that's also another area, I think, that
4 we could consider leveraging, as well as the other
5 systems of care throughout, whether non-profit or
6 for-profit healthcare systems throughout the
7 country.

8 So a couple different layers, but probably
9 with CMS involvement, I know, once again, in the
10 state of Maryland, there might be some opportunity
11 for partnering to understand how some of those
12 interventions may play out in actually a local
13 healthcare system.

14 DR. WINTERSTEIN: Dr. Bateman?

15 DR. BATEMAN: So I guess a number of people
16 have brought up the idea of creating longitudinal
17 data sets that would allow us to evaluate the
18 impact of the training program. But I have to say
19 I'm a bit skeptical about the feasibility of an
20 observational study that would define the causal
21 impact of a training program, particularly if we're
22 talking about a voluntary training program, because

1 while there are databases that can capture with
2 fairly granular data characteristics of the
3 prescribers, their specialty, their patient panel
4 profiles, you won't be able to capture their
5 engagement with the issue of appropriate
6 prescribing.

7 That's going to make them very different
8 than those that don't seek out training and would
9 likely confound any observed association that you
10 would see in terms of taking the training in and
11 changes in prescriber behavior.

12 So I agree with Dr. McCann that this may be
13 a place where an RCT is really necessary to define
14 the effect of the training intervention.

15 DR. WINTERSTEIN: Dr. Krasnow? Go ahead.

16 DR. KRASNOW: I was just going to say, just
17 a caution about a randomized clinical trial,
18 though. It was stated that it might not take that
19 many subjects, but then we're not clear what our
20 outcome measures are yet. The outcome measures
21 determine the number of subjects, and I found that
22 one is usually surprised by the number of subjects

1 you need in a randomized clinical trial.

2 So I think that would have to be very
3 carefully thought out.

4 DR. WINTERSTEIN: Dr. Raghunathan?

5 DR. RAGHUNATHAN: I think something was
6 brought up about the confidentiality and data
7 sharing, but there are protocols for setting up
8 data coordinating centers where the education
9 providers can provide the data to the third party
10 under some strict confidentiality rules, which you
11 can then analyze the data.

12 I agree. I think longitudinal data under
13 the randomized clinical trial framework would be
14 the ideal way of doing it. But observation studies
15 also can be done, which are carefully crafted
16 comparison groups. And that may be hard to do in
17 this context of completely voluntary samples.

18 But I think, if it is done mandatory and if
19 it is phased in, then there is an opportunity for
20 us to evaluate it because, then, you can compare
21 the immediate treatment versus the delayed
22 treatment group.

1 DR. BATEMAN: Like a step-wise type design,
2 and that might be helpful. Yes.

3 DR. WINTERSTEIN: Dr. Stander?

4 DR. STANDER: I'm going to say something
5 that's probably a bit politically incorrect. But I
6 think we're maybe letting the perfect become the
7 enemy of good. There are a lot of very smart
8 people here and epidemiologists who really want the
9 perfect study to determine, or maybe the FDA needs
10 this for political purposes to prove that REMS
11 training or education about opioid training can
12 produce an outcome.

13 But with all due respect to our CME
14 providers, the requirement to do a certain amount
15 of CME to maintain your license, I'm not sure has
16 ever been proven to provide quality. I can do
17 40 hours of training, CME in whatever kind of
18 courses I want that may or may not have anything to
19 do with what I do in practice, and it gets my
20 license.

21 We're trying to prove something I'm not sure
22 we can easily do. And I thought we heard an

1 overwhelming consensus from most of our outside
2 experts that, empirically, teaching people how to
3 use these dangerous medications makes sense. And
4 I'm not sure that we're ever going to be able to
5 get much beyond that. And I think, personally, I
6 think that's kind of where we have to lean towards.

7 DR. WINTERSTEIN: That was a good
8 introduction for what I was going to start out
9 with. So we started out -- or Dr. Stander just
10 stated that, whether proof of effectiveness of an
11 educational intervention is really necessary or
12 not, if we are assuming that this is just a given
13 that prescribers should be aware of opioid risk and
14 proper prescribing practices.

15 Looking at the quality improvement
16 literature -- that was my personal comment -- there
17 is overwhelming evidence that educational
18 intervention usually does not really effectively
19 change behavior. So if we were to extrapolate this
20 to this particular case here, then our expectation
21 and thinking that a CME program in itself will fix
22 the problem is probably a little bit

1 overenthusiastic.

2 Now, thinking about this question here, it's
3 really about how do you evaluate a REMS and not how
4 do we evaluate an educational intervention, so the
5 REMS could perhaps contain completely different
6 elements that we haven't even talked about yet.

7 So I'm introducing everything else that has
8 been described under this idea that it's not only
9 about evaluating an educational intervention, but
10 it's about evaluating the REMS itself.

11 So to question A, there was very limited
12 discussion, but I think one part that was made
13 clear is that it's really important to evaluate the
14 reach of the REMS, in particular with respect to
15 the prescribers who may cause the major problems,
16 so rather than just looking at the global impact,
17 looking at the impact where the impact is really
18 needed.

19 With respect to measuring success or
20 measuring outcomes, I think the committee agrees
21 that service that evaluates knowledge don't really
22 evaluate the REMS. They perhaps evaluate the short

1 term or the quality of the CME program as such, but
2 not the effect of the CME program on outcomes that
3 really matter and that the REMS is focused on.

4 My personal comment to this might be that
5 the surveys that looks at knowledge is essentially
6 a quality improvement strategy for the CME
7 providers to see whether the CME is well-crafted,
8 but it really is not an evaluative tool in itself.

9 With respect to the surveys, there were
10 comments that the sampling approach would be
11 improved. We addressed yesterday that assessment
12 of baseline knowledge might be important to really
13 see the effect of the education itself after it's
14 been provided.

15 So then moving on to outcomes that the
16 committee felt more strongly about, there were two
17 types. One is drug utilization types of outcomes
18 or outcomes that address change in behavior versus
19 outcomes that directly affect the patient.

20 With respect to changing the behavior, that
21 might actually be an adequate focus or inadequate
22 outcome that could be addressed in pre-post designs

1 even if CME became mandatory because there's always
2 a time when people didn't have the CME yet, where
3 pre-post comparisons could be made, so changes in
4 behavior.

5 I think the committee struggled with
6 defining what exactly that would entail,
7 specifically how to define appropriateness of
8 prescribing. Ideas that were presented are use of
9 adjuvant therapy, trial periods with other
10 medications other than opiates, use of high doses
11 of opioids and tracking that.

12 Of course, then we also have the CDC
13 guidelines that have come out, like urine tests or
14 urine screening in patients who might be at risk
15 for substance use disorder or using of provider
16 contracts. So that's the drug utilization portion,
17 and I think most of the committee members feel that
18 looking at those types of outcomes would be the
19 most immediate effect of the REMS that we would
20 want to look at.

21 Then the second part is real patient
22 outcomes about death. There were concerns raised

1 that death in itself is, number one, very rare and
2 requires large amounts of patients to really track.
3 Secondly, we have issues in connecting death to
4 prescription drug abuse versus other exposure to
5 opioids.

6 As a personal comment, there as much, claims
7 data could fix that problem, so I could easily see
8 where claims data could be linked to NDI in order
9 to get a better handle on what the history of prior
10 prescription opioid use looked like before death
11 occurred.

12 Then of course, we also have just overdoses
13 that could be tracked, so we don't have only death,
14 but we also could look at hospitalizations or ER
15 visits for opiate overdoses, which would give us a
16 much broader handle on patient outcomes.

17 Then lastly, an outcome that was mentioned
18 that might be much harder to measure and that might
19 really require collaboration with other DHHS
20 agencies is diversion, which clearly we wouldn't
21 get from claims data, but which is an important
22 piece. And I remember that one committee member, I

1 believe Dr. Galinkin, stated to get the drug off
2 the streets, and that obviously is another
3 important outcome.

4 In terms of isolating the education from
5 other efforts, there were recommendations for
6 between-state comparisons that could look at
7 timeline of introduction of various approaches to
8 mitigate problems related to opioids with respect
9 to PDMP programs, and mandatory CE programs, and so
10 on that would allow us a little bit of a glimpse on
11 what the CME program itself does.

12 The other recommendation or suggestion that
13 I had were pre-post comparisons that could
14 specifically look at behavior changes. And then
15 there were some suggestions about RCTs. They were
16 mixed evaluations of whether an RCT is really an
17 appropriate tool to evaluate the CME program,
18 specifically the sample size.

19 An RCT would not provide sufficient sample
20 size to look at patient outcomes such as death. It
21 might be able to look at evaluating changes in
22 behavior, but even that would need to be obviously

1 very clearly defined. And then one thing that
2 needs to be considered is that in an RCT of
3 educational intervention, blinding and
4 randomization becomes extremely difficult. I mean,
5 there may be some ideas with lagging the
6 intervention and the control group, but it's not as
7 easy as it sounds.

8 Then lastly, D, when can one expect an
9 effect? There was little discussion on this item,
10 but I think it seemed that most committee members
11 felt that this would be a fairly immediate effect
12 that one would see if a CME program really affected
13 a change in behavior that should surface fairly
14 quickly.

15 Did I forget anything?

16 (No response.)

17 DR. WINTERSTEIN: Good. Okay. One more
18 before the break, 3, please discuss the impact of
19 the ER/LA opioid analgesic REMS on patient access
20 to opioid analgesics. Provide examples of how best
21 to evaluate patient access. Mr. O'Brien?

22 MR. O'BRIEN: My answer to this is I don't

1 know. Based on the data that I saw, I don't know
2 if I have any confidence in what I have seen.
3 There was nothing to indicate there isn't, but I
4 don't know. We heard from the public communities,
5 the fibromyalgia community that they believe it is
6 impacting. But like we've seen with other things,
7 there's so many confounding issues, I'm not quite
8 sure what may or may not impact it, whether it's
9 insurance or in my own state.

10 We just passed a law that says you can only
11 get seven days at a time, that that may have more
12 impact on accessibility than REMS has. I spent a
13 couple of days going through. We have a patient
14 online forum with about 8,900 registered members
15 that have posted over 150,000 posts. That's a
16 searchable database.

17 So I put in OxyContin, and pain management,
18 and REMS. First of all, no one knows what REMS is.
19 There's no post, really, regarding REMS. But in
20 terms of looking at pain management, accessibility
21 did not pop up as an issue. There are clearly
22 issues with the community. On average, these are

1 mostly post-surgical patients who are getting a
2 regimen of long-acting OxyContin for 20 milligrams
3 twice a day; oxycodone, 40 milligrams every
4 4 hours; Valium, 5 milligrams every 8 hours; and
5 Tylenol, 1,000 milligrams 3 times a day. So
6 they're getting a pretty high regimen for up to 2
7 or 3 months at a time.

8 But what you see in the community, if you
9 read it, is that they're concerned more not with
10 accessibility but with their quality of life. They
11 are very aware of the problems that come with this
12 type of regimen. Their concerned. They are
13 dealing very much with constipation, sweating, and
14 all of the symptomatic issues with being on that
15 type of regimen.

16 They are very grateful because it does
17 relieve the pain that affects their quality of
18 life, but they're very concerned with how do they
19 get off of this. But there's a stigma. They don't
20 want to be associated with addiction because, to
21 their mind, they're physically dependent. They
22 realize that may happen to them, but they're not

1 addictive in their nature for the most part. And
2 they don't want to be associated in a negative
3 stigma with that group of individuals because
4 that's not their case. They need what they need in
5 order to survive.

6 So as I said, I guess, at the end of the
7 day, I don't know. I don't see any evidence that
8 accessibility directly related to REMS is an issue.

9 DR. WINTERSTEIN: Dr. Craig?

10 DR. CRAIG: Thank you. Yes. I don't think
11 it has had any impact at all, actually. I'm in the
12 state of Florida and primarily deal with cancer
13 patients. But I don't think the REMS has had any
14 negative impact. I think the pill-mill laws or
15 other things and availability had more of an impact
16 on our patients. And it's something I deal with
17 every single day in trying to find our cancer
18 patients access to medication.

19 So I'm an access kind of advocate, if you
20 will, but I don't think the REMS, and especially
21 the voluntary nature of the REMS, has had any
22 impact at all.

1 DR. WINTERSTEIN: Dr. Galinkin?

2 DR. GALINKIN: I want to agree with the past
3 two speakers that I don't think it's had an impact
4 on the availability. I do want to differentiate
5 the comment that was made about the fibromyalgia
6 patients. The hydrocodone rescheduling was, I
7 think, before the long-acting product came out, so
8 it really did not impact the ER/LA availabilities.

9 DR. WINTERSTEIN: Dr. Shoben?

10 DR. SHO BEN: The other part of this question
11 was about examples of how to best evaluate patient
12 access. And I think that's really difficult to do
13 without sort of defining this issue of appropriate
14 and inappropriate prescribing that we had before,
15 because how can you possibly evaluate that a
16 patient who should have access to this drug had
17 trouble until you've really defined who should
18 really have access to the drug.

19 DR. WINTERSTEIN: Dr. Higgins?

20 DR. HIGGINS: I'm interested in talking a
21 little bit about what Dr. Auth found with the
22 previous examples of REMS and how there was a

1 slight dip in prescribing as a result of the
2 institution of REMS. And then it came right back
3 up, the prescription level.

4 So I'm interested in talking a little bit
5 about that and whether people think that is maybe a
6 proxy for what might happen with the opioids. I'm
7 not sure.

8 DR. WINTERSTEIN: I think the committee
9 feels that the current REMS that has reached
10 20 percent of prescribers who voluntarily
11 participated in a program that presents the FDA
12 blueprint for appropriate prescribing guidelines
13 has not really affected access to medications and
14 should at least not negatively affect access to
15 medications because it summarizes best practices in
16 pain management.

17 As to the second portion of the question,
18 that really addresses not global access to opioids,
19 but it really addresses access for those patients
20 who need opioids, which brings us back to the
21 appropriateness question, which of course is much
22 more difficult to define in both terms of

1 inappropriate as well as appropriate access.

2 Mr. O'Brien?

3 MR. O'BRIEN: I apologize for post-issue,
4 but to that extent, the question to me is not does
5 the patient have access to the treatment that they
6 need, but they really would prefer something else.
7 They want the best thing that it is, so the need
8 for research, really, for better ways of pain
9 management, I think, is highlighted by that.

10 DR. WINTERSTEIN: Dr. Gupta?

11 DR. GUPTA: I can give a patient example.
12 In my own practice, I've had patients who have had
13 end-stage cancer, very, very painful, and requiring
14 some of the products that are in the TIRF REMS
15 category. And it has been a deterrent. It has
16 delayed access for them because I had to go through
17 the process of completing the training, and I also
18 had to have the pharmacy dispense the medication.

19 So the barriers with insurance to get
20 approval plus completing a REMS, plus completing
21 the pharmacy, making sure we're all on the same
22 page, it was absolutely a deterrent. And that

1 patient was critically ill, was in hospice, needed
2 care at home. So it was a terrible situation.

3 So I absolutely think it was a deterrent for
4 me rather than actually helping a patient getting
5 access. It really limited my ability to give that
6 patient quick access to that medication.

7 DR. WINTERSTEIN: The ER/LA REMS? Are you
8 talking about ER/LA?

9 DR. GUPTA: I'm talking about TIRF REMS,
10 like when you have to have an immediate-release
11 sublingual product for someone that has, say,
12 cancer pain, it was a deterrent. Maybe someone
13 else can give me another example, but this was
14 actually a patient I had.

15 DR. WINTERSTEIN: Dr. Craig?

16 DR. CRAIG: I'll just echo Dr. Gupta. The
17 restrictive REMS with TIRF, basically, our
18 institution eliminated that modality entirely. It
19 went to zero. So if you take the restrictive
20 approach to all opioids and make it mandatory, make
21 it more restrictive than it currently is, I'm not
22 arguing that opioids would disappear. I think it

1 will change. Whether the change makes things more
2 appropriate or not obviously is in question.

3 I think you have to be sensitive when you're
4 talking about proposing new REMS or adding to what
5 we currently have in existence and making it
6 mandatory versus voluntary, you run the risk of
7 doing very similar kinds of things, the enrollment,
8 the burden of the sheer volume of the number of
9 patients.

10 I'm already having problems with my cancer
11 patients as it is now. What will it look like if
12 that's our new reality? I can't imagine. But in
13 regards to the TIRF REMS, they no longer exist in
14 our institution because of the potential barriers
15 in getting them access to patients and having
16 pharmacies actually have them in stock. They're no
17 longer tools available to us.

18 DR. WINTERSTEIN: I think we're addressing
19 the impact of proposed changes to the REMS in later
20 questions, so perhaps we can focus on this one
21 right now.

22 Dr. Floyd that was later? Dr. Krasnow,

1 later? Okay. This one? Okay. You get to say
2 something.

3 DR. MORRATO: Just listening to this made me
4 think we haven't really talked about access as
5 getting the drug, but there is a stigma in the
6 process of getting the drug. And I know I've heard
7 qualitative information from folks that the going
8 of the process through that can create that kind of
9 anxiety or stigmatization, am I a drug addict or
10 things like that.

11 So I was wondering if any of the other
12 researchers who focus on this particular area have
13 seen anything that would be evidence, good or bad,
14 around stigmatization.

15 DR. WINTERSTEIN: Moving on to question 4,
16 considering the information provided today
17 regarding the current ER/LA opioid analgesic REMS,
18 please discuss, A, whether the REMS is meeting its
19 stated goal to reduce serious adverse outcomes
20 resulting from inappropriate prescribing, misuse
21 and abuse of extended-release or long-acting opioid
22 analgesics while maintaining patient access to pain

1 medications; B, whether the REMS assures safe use
2 of ER/LA opioid analgesics; C, whether the REMS is
3 unduly burdensome on patient access to ER/LA opioid
4 analgesics; and D, to the extent practicable,
5 whether the REMS is minimizing the burden on the
6 healthcare delivery system.

7 Dr. Gerhard?

8 DR. GERHARD: I think, in my mind, this
9 question is pretty straightforward. The answer
10 very much relates to the current REMS. So for the
11 first question, we really have no idea what the
12 impact of the REMS is. Given what we've seen on
13 the adverse outcomes, we don't know.

14 Does it assure safe use? We've seen a lot
15 of numbers and statistics that clearly say, no, it
16 does not. And regarding the burden, again, we
17 don't know to what extent it has. But again, as
18 we're focusing going forward, I think this question
19 is probably not the most relevant to spend a lot of
20 time on.

21 DR. WINTERSTEIN: C, the burdensome, was
22 pretty much addressed under 3. So we probably

1 don't have to -- everybody is nodding. And the
2 response is we can probably skip C.

3 Dr. Perrone?

4 DR. PERRONE: Thank you. I tried to
5 restrict some of my comments so we could get to a
6 setting where we're talking about appropriate
7 prescribing. So under B, I'm really concerned that
8 we couldn't possibly assess the safe use of these
9 drugs because one of the things that we really need
10 to focus on is who gave that prescription to that
11 patient for their very first opioid. Before they
12 had a chronic opioid situation, who started their
13 appropriate prescribing?

14 So really, part of the CDC guidelines have
15 tried to address acute prescribing. But I don't
16 know -- the patient may need long-term opioids now
17 because it was started, but was it ever started for
18 an appropriate reason?

19 So we really need to address, if you want to
20 limit an epidemic, you have to limit new cases.
21 And we're never really going back if we're already
22 looking at people with chronic pain or chronic

1 opioid use. We're not really looking at how they
2 got there.

3 So these high-dose long-acting drugs,
4 somebody initiated a short-term drug for that
5 patient that may or may not have gotten them to the
6 long-term drug. So appropriate prescribing in this
7 setting has to include sort of backtracking for the
8 next wave and how we can really focus acute
9 prescribing to appropriate situations?

10 DR. WINTERSTEIN: Dr. Craig?

11 DR. CRAIG: This is actually a follow-up to
12 a comment you made about the current access. On C
13 here, I don't think there's currently any burdens,
14 but if there was discussion about changing things,
15 I think that raises the questions about access
16 becoming more burdensome, especially if there's
17 much more mandatoriness of the new program,
18 whatever that is, the lot of proposals to make
19 things mandatory, make more teeth, make it better
20 to evaluate.

21 I think, when you start talking about those
22 things, that raises more concerns about access,

1 just in general.

2 DR. WINTERSTEIN: Dr. Garcia-Bunuel?

3 DR. GARCIA-BUNUEL: I guess, on B, the
4 question -- maybe I'll try not to slice this up too
5 much. But the question saying about did the REMS
6 assure safe use, and I think just maybe to
7 reiterate, one of the themes that's come up is
8 that's under, I think, what we've been talking
9 about, how we measure what's appropriate use.

10 I would still bring up the question, the
11 REMS should also be focused on helping us decrease
12 risk as opposed to promoting safe use. So I think
13 that might actually be -- I think one of the issues
14 that's come up is what are we focused on with this
15 tool? What's the tool for? And I think what's
16 come up in regards to that is the idea of, are
17 there prescribers who are causing a lot of harm?

18 So is there a role for a REMS tool, maybe
19 not to promote and teach safe use, but to decrease
20 some of the most risky interactions between
21 practitioners, prescribers, and patients. That's
22 my comment on B.

1 Then, on D, my comment on the burden to the
2 healthcare delivery system, which I may be looking
3 at through a funny lens, the REMS has at this point
4 hasn't at all increased the burden. And I would
5 say, I would see it from another thing. There is a
6 huge burden on the healthcare delivery system right
7 now due to the overprescribing, the diversion, the
8 abuse, and the addiction.

9 So right now, the burden on the system, for
10 primary care physicians, the burden is massive.
11 Once again, there is utilization both in primary
12 care, urgent care, the emergency department. There
13 is utilization related to hospitalizations.

14 So right now, I would say that, if we wanted
15 to look at it from that perspective, we would need,
16 once again, potentially a more targeted tool or a
17 tool that can really be much more aggressive. My
18 fear is -- and we see this in primary care, and I
19 think it's been mentioned by others -- that this
20 issue has the potential to take an already
21 beleaguered generalist's specialty, the family
22 physician, the primary care physician, taking care

1 of a variety of chronic/acute conditions,
2 counseling on prevention, the common mental health
3 issues that enter a primary care practice, doing
4 indirect patient care, phone calls, filling out
5 forms, coordinating care, all the things that we
6 see building around the patient center medical
7 home, all very interesting and potentially a very
8 beneficial approaches to the delivery of
9 healthcare.

10 When you layer upon that, what we're seeing
11 in the primary care, the practice of primary care,
12 there are practitioners who are leaving the
13 practice of primary care, who are not going into
14 the practice of primary care. I think we heard
15 from a medical student as well. There is a
16 tremendous burden.

17 So I think there is an onus for us, if it's
18 possible, to utilize this tool to decrease risk,
19 but also to decrease the massive burden on the
20 primary care delivery system.

21 DR. WINTERSTEIN: Dr. Choudhry?

22 DR. CHOUDHRY: So I very much agree with

1 that last comment in terms of D. So to the extent,
2 just briefly, right now, the REMS as it exists is
3 not burdensome, I think. It's very much in the
4 context of continuing education, which is standard
5 bearer of how we all practice and get accredited.
6 I think it needs to be more burdensome, but as it
7 stands right now, the REMS is not.

8 DR. WINTERSTEIN: Dr. Floyd?

9 DR. FLOYD: I don't know the best place to
10 put this. I don't see it in the other questions,
11 but I think it's most relevant to the idea of risk
12 assessment, of reducing risk. There's another side
13 of this that's a benefit. We usually evaluate
14 therapies in terms of risks and benefits, and we
15 want the benefits to outweigh the risks.

16 I think it's worth stating. I don't think
17 it's really been stated that for non-cancer pain,
18 there is no evidence from well-controlled studies
19 that there's an average treatment effect in the
20 population that the use of opiates is more
21 beneficial than the harms.

22 That said, we think that there are patients

1 who do benefit, and the way that we assess benefit
2 is individually. We had an example from the public
3 speakers about the ideal candidate patient who has
4 reasonable expectations about the benefits. It
5 improves function. It improves pain. It is aware
6 of risks, uses the drug safely, and that happens on
7 an individualized basis.

8 So I think that when we're talking about
9 risks, we also have to talk about, are we actually
10 prescribing the drugs to patients who benefits.
11 And I don't think it's probably true that the vast
12 majority of patients getting long-term chronic
13 opiates are those ideal patients who are actually
14 achieving benefit that outweighs the risks.

15 So I think, as we move forward, not only
16 talking about the ER/LA REMS, but any other future
17 REMS, we need to really focus on whether we can
18 restrict the drugs to patients who have some
19 measure of benefit, not only ones who don't have
20 excessive risk.

21 DR. WINTERSTEIN: Dr. O'Brien?

22 MR. O'BRIEN: I just follow up with that

1 comment. It just reminds me that the REMS goal is
2 for patient access, but I do think it's more about
3 better patient management, effects. I think,
4 anecdotally, in my own case, after four spine
5 surgeries with a large regimen of opiates managed
6 by an orthopedic surgeon, there was no adverse
7 effects.

8 Two years ago, with an acute disc herniation
9 and a cervical disc herniation with a nurse
10 practitioner looking up drug.com and giving me a
11 regimen, I ended up addicted after a 7-week period
12 of time on both long-term OxyContin and oxycodone.

13 So there's a difference there. So my hope
14 is that a REMS would end up with better management,
15 not only in terms of what the prescription is, but
16 how to manage and how to wean me off, when to get
17 the patient satisfactorily through the treatment
18 that they need, and get them on to a regular life
19 without opiates in their life.

20 So I think it's beyond just access that's
21 there, so I think that's a good point.

22 DR. WINTERSTEIN: Dr. Raghunathan?

1 DR. RAGHUNATHAN: The data itself shows that
2 71 percent of the patients were able to obtain a
3 prescription when needed for pain, and 78 percent
4 of patients were satisfied with access based on the
5 data that was reported. I'm not sure whether they
6 are, the right medicine, but I think they are
7 getting access to what they wanted.

8 DR. WINTERSTEIN: So I think the committee
9 feels that it is very difficult for us to evaluate
10 whether the REMS and current REMS meets its goal or
11 not because of the lack of appropriate data. As a
12 personal comment, I think in thinking through this,
13 it's difficult to draw the line at what the FDA can
14 regulate, or has to regulate, and what somehow
15 falls outside of the purview of the FDA.

16 What I mean with this is, the diversion
17 issues, if somebody really sells the drug on the
18 street, I think no REMS will ever be able to take
19 care of that in a meaningful way unless we have
20 patients essentially swallow their pills at a
21 clinic every single time they take one.

22 So there is this issue of, we really don't

1 know how much of the opioid-related deaths or
2 overdoses are related to inappropriate prescribing
3 and inappropriate pain management versus just
4 losing practices of dealing with these medications
5 and selling them on the street.

6 That makes it so hard to evaluate whether
7 the current REMS meets its goal or not, and that
8 really is, essentially again, related to the
9 missing evaluations, assessments, the appropriate
10 metrics that should be used in those assessments,
11 that haven't been used yet.

12 We all feel that safe use is not assured. I
13 think we all are in agreement on that. And then we
14 also agree that the current REMS as it is not
15 burdensome in terms of patient access or the
16 healthcare system. But as we are moving on to the
17 next questions, how to keep that balance if we move
18 forward with proposing a more restrictive REMS,
19 that might be a separate discussion.

20 Yes? Okay. Break. Yes. Everybody feels a
21 break is a good idea? Great. So it's 2:55, a
22 15-minute break. So we will be back here at 3:10.

1 (Whereupon, at 2:54, a recess was taken.)

2 DR. WINTERSTEIN: Let's get started.

3 Everybody ready for question 5? Discuss whether
4 the scope of the current FDA blueprint is
5 sufficient. If not, what should be added or
6 deleted from the blueprint? Dr. Stander?

7 DR. STANDER: Thank you. We've heard a lot
8 from our public comments, and a lot of us have been
9 impressed by the CDC guidelines. And I think
10 including them or at least making people familiar
11 and recommending that they become familiar is one
12 thing.

13 I agree with Dr. Floyd and others who spoke,
14 with particularly that I think the passion with
15 which our addictionologists spoke, that we are
16 underemphasizing the risks of these, and there
17 should be much more of an emphasis on -- and, I
18 mean that ED doc about equating it as starting
19 heroin was maybe a little simplified and overly
20 dramatic, but I think also, are we really
21 emphasizing enough how potentially dangerous these
22 are?

1 I think it's clear now that if you prescribe
2 this medication to anybody, you have no idea where
3 it might end up. And that's not necessarily
4 because everybody is diverting it, but I've heard
5 stories about people having it in their bathroom
6 cabinet, it being stolen by construction workers,
7 or realtors who come, or their kids, or whatever.

8 So I think that we really need -- as was
9 outlined, I took a lot of notes about the speakers
10 from the public commentary, again, the CDC
11 guidelines emphasizing the risks, the lack of
12 efficacy in chronic non-cancer pain.

13 To me, I know we're concerned about access
14 for people who truly need it. I think that that's
15 a concern, but a far greater concern right now is
16 it's clear that our society is flooded with these
17 medications.

18 I know I'm going to say something probably
19 controversial and political, but it's analogous to
20 the gun control issue. We have more guns and, gee,
21 we have more gun deaths in this country than
22 anywhere in the world. We have more of these

1 opioids in circulation in this country, and we have
2 more opioid deaths. I mean, it's not that
3 different.

4 So I think there should be a focus on
5 reducing the amount of opioids out there, and I
6 think the concept of better pain management
7 education is also important, but you can't
8 accomplish that in the kind of CME program that
9 we're going to potentially mandate or ask for; but
10 an emphasis that opioids is one part and probably a
11 small part of management of pain, particularly
12 chronic pain, and is kind of the last resort versus
13 the multi-modal approaches that people want to
14 emphasize. Thank you.

15 DR. WINTERSTEIN: Dr. Tyler?

16 DR. TYLER: Thank you. I think the
17 blueprint provides a really strong framework for
18 what should be our educational agenda for all
19 health professionals in terms of the knowledge,
20 skills, and abilities that they need to have. I
21 really like the thread that came through in many of
22 the comments, that this is not just about training

1 prescribers, but training healthcare teams. So
2 from that standpoint, I think the blueprint could
3 provide that framework.

4 I think one of the things that we struggled
5 with in some of our comments is for a variety of
6 reasons, the FDA and the RPR is going to focus on
7 the drug-specific issues, when what really we need
8 to think about is how do we treat the disease
9 state, how do we treat patients in pain.

10 Obviously, as part of that, then, when is it
11 appropriate to use opioids, when isn't it
12 appropriate to use opioids falls as a part of that
13 discussion, and then falls some of the drug-
14 specific stuff. But spending some time emphasizing
15 what should be the appropriate use of these agents
16 in the context of other modalities for treating
17 pain should be the emphasis of what we do as we
18 build and modify the new blueprint, so taking that
19 into account.

20 I think if we consider those things as we
21 amend the framework, adapt the framework to what
22 are the needs for what we need now, then that will

1 help guide us for what we need in the future.

2 DR. WINTERSTEIN: Dr. Choudhry?

3 DR. CHOUDHRY: So I agree as well. Clearly,
4 there's some modification that I think would be
5 beneficial. I think one thing will be duplicative
6 with question 7, which is what else should be
7 added, which is immediate-release products. So
8 perhaps we can note that now. I suspect others
9 will have an opinion about that.

10 I think the other substantive idea I wanted
11 to raise in terms of the blueprint is the nature of
12 what's required in terms of the structure of the
13 education, and that's something that should be
14 rethought.

15 We've heard this several times. I made
16 comment on this earlier. Powers of continuous
17 education one time may not be the optimal way to
18 change behavior. So proposal for some flexibility
19 in the way the course is set up or can be
20 delivered, a requirement that it actually be not
21 one time, even if you sat and did it all at one
22 time, that would be insufficient. But there may be

1 an hour or two -- at one point, an hour or two at
2 six months down the road, and perhaps periodic
3 check-ins to encourage this idea of sustained
4 behavior change.

5 So I think that all falls within the idea of
6 changing the scope of the blueprint itself.

7 DR. WINTERSTEIN: Dr. Shaw Phillips?

8 MS. SHAW PHILLIPS: I would echo Dr. Tyler's
9 comments about putting everything in context. One
10 of the things that obviously needs to be updated is
11 the role, where the role for prevention with the
12 co-prescribing of a naloxone product would come in.
13 That would need to be added.

14 I also was really struck by the comments
15 both from the CE providers and in the assessments
16 about probably the less beneficial inclusion of the
17 aspect 6, which is the details of the specific
18 drugs. And I think it would be much more
19 appropriate to have that in a resource that could
20 be accessed later as needed and really focus more
21 on the high-risk class effects, like how to dispose
22 of it properly and what happens if a patch gets

1 overheated, that are the more high-risk aspects,
2 but then focus on really more the broad context of
3 pain and multi-modalities of treatment instead of
4 specific drugs that may not be appropriate for the
5 particular participant.

6 DR. WINTERSTEIN: Dr. Galinkin?

7 DR. GALINKIN: Being a pediatric provider, I
8 think that it's essential that the scope be
9 increased to cover pediatric patients, especially
10 now that we have two of the ER/LAs actually labeled
11 out for children. And if we are considering making
12 this mandatory and adding instant-release
13 medications, pediatricians will be required to do
14 this training, and you need to expand the scope to
15 make the training relevant for that population.

16 DR. WINTERSTEIN: Dr. Brown?

17 DR. BROWN: I've been looking through the
18 blueprint on the Web for the last 10 or so minutes,
19 and it's fascinating. It's almost frightening in
20 its detail relating to the individual drugs that we
21 are considering here. And I agree, and I would put
22 a finger on this and say that there is no adult

1 learner in the country that is going to be able to
2 manage that much detailed information, and that
3 could be taken out.

4 Since that's seven pages out of 15 pages of
5 the blueprint, what we could put in there are
6 alternatives to use of medications or work on
7 issues of physical therapy, occupational therapy,
8 increasing function, or non-opioid approaches to
9 pain management.

10 So we talked a little bit yesterday about
11 the fact that this was so much information and how
12 were we going to get it on at the end, and we
13 couldn't apply new information on top of old
14 information. But I think there's a lot of
15 information in the blueprint that we can release
16 and let it go to its death without any problem
17 whatsoever retaining other information that will be
18 much more useful in reducing risk to patients.

19 DR. WINTERSTEIN: Mr. O'Brien?

20 MR. O'BRIEN: To Dr. Stander's point, I
21 agree that risk has to be the emphasis there. I
22 still do think that patient education and patient

1 management are important issues.

2 To the comment that was made, when I look at
3 it, a blueprint is almost like there should be a
4 separate adjunct arm specifically to patients. The
5 NIH and the FDA, they're very good at patient-
6 centered care, and having informed patients, and
7 involving patients, but I seem to see that's absent
8 from this process for the REMS. We have it as a
9 goal at the end, but we really don't have it
10 integrated within the REMS process in the
11 blueprint.

12 So to me, there would be a benefit in
13 actually reaching the goal of reducing usage of
14 opioids through a very positive educational
15 campaign for patients in a blueprint to include
16 what a patient should be told. Right now, it
17 relies on just the provider informing or
18 counseling. I don't think that's adequate enough.

19 I think that we would benefit by having an
20 enhanced program for patients and allow the
21 informed patient to be part of that process. If
22 we're going to include a team and everybody agrees

1 on team, I think the most important part of the
2 team is the patient, and that's where the outcome
3 is going to come from.

4 I think we have an opportunity to positively
5 impact that outcome by being more inclusive of
6 patients.

7 DR. WINTERSTEIN: Dr. Parker?

8 DR. PARKER: So it seems to me that across
9 HHS, we need to really have clarity and alignment.
10 And the CDC guidelines from 2016 seem to need to be
11 at the crux of it, since that seems to be the
12 recent, most up to date. So I think really making
13 that clear because, right now, it's possible to go
14 to multiple components and get some mixed messages,
15 and we really don't want that. And if there is
16 indeed agreement that the guidelines for
17 prescribing opioids out of CDC are really the crux
18 of the chronic pain management, we need to be very
19 clear that this is where -- it's just got to become
20 very coordinated.

21 So it needs to be coordinated. And I know
22 there are a lot of efforts going on within

1 different efforts to address it nationally, but
2 clarity and alignment with the CDC guidelines to me
3 seems to be just a high order. They weren't
4 available at the time the blueprint was done, so
5 that's one thing.

6 The presentation by FDA also mentioned the
7 treatment for overdose as a possibility, I believe,
8 for increasing the scope. That came up in some of
9 the comments from the public. That seems very
10 appropriate. The other thing came up that seemed
11 very relevant was addressing mental health within
12 this, and mental health needs, and how that's
13 addressed as part of it.

14 But I think the coordination, the clarity,
15 here it is, rather than, okay, so you might want to
16 go to that site, too, and make sure you're not
17 missing this, would really help as well.

18 DR. WINTERSTEIN: Dr. Gupta?

19 DR. GUPTA: I wanted to just agree with what
20 Dr. Choudhry said and just take it a step further
21 regarding how the blueprint information is being
22 delivered to providers. We heard from some of the

1 graduate medical education leaders that there
2 really needs to be intergenerational forms of this
3 information. Older physicians or older individuals
4 learn differently. Younger physicians learn very
5 differently.

6 The way that the information is currently
7 delivered, in my opinion, is not effective. And I
8 do think that it needs to be interoperable to other
9 systems, meaning pharmacies, the communication that
10 exists, and also making sure that blueprint
11 integrates a lot of what we're seeing from the CDC
12 and integrates with other organizations'
13 recommendations.

14 DR. WINTERSTEIN: Dr. Bateman?

15 DR. BATEMAN: So I think there should be
16 some flexibility in the blueprint in a way that
17 allows the CME providers to make the training
18 tailored to the specialty or the care for the
19 person receiving the training.

20 The content that's going to be relevant for
21 primary care physicians is different from what
22 emergency room physicians are going to need to

1 know, which is different from what surgeons need to
2 know. I think the training is likely to be most
3 impactful if it directly relates to the clinical
4 situations that the specialist or care provider is
5 seeing day in and day out.

6 DR. WINTERSTEIN: Dr. Morrato?

7 DR. MORRATO: I just wanted to build upon
8 what Dr. Parker was saying in terms of coordination
9 and alignment. I think harmonizing with a
10 blueprint is also in a way going to help to
11 harmonize likely with other state or association
12 efforts because they also are going to be likely
13 turning to the blueprint as sort of a plan to work
14 against. So I think that's important.

15 I think two things related to that. I
16 anticipate, though, or I suspect that it might be
17 problematic in trying to do that because we're
18 trying to merge label type of information that the
19 companies care about, that may be different across
20 some of their products, et cetera, the drug-
21 specific information, versus the CDC's is probably
22 more like a treatment guideline type of

1 information, which may have greater latitude, if
2 you will, in terms of on-label, off-label kinds of
3 considerations.

4 So I just hope, in the goal of trying to
5 achieve a common national public health message, it
6 doesn't get bogged down in some of those details.
7 And that may be, given the importance of this and
8 the feedback that we heard from the committee as
9 well as the public that this is really important,
10 we'll be able to work through that.

11 Having said that, I think a lot of times,
12 things like a blueprint or just labeling may become
13 static over time, and the only way they change is
14 when you have a meeting like this or there's a big
15 event where someone is going through a regulatory
16 submission process.

17 So I hope that part of what can be built in
18 is a bit of nimbleness that these sorts of things
19 can be changing, and adapting, and not requiring
20 all these meetings to help force that process
21 along, and that given the importance of this public
22 health problem, that the FDA has that latitude to

1 be working forward.

2 DR. WINTERSTEIN: Dr. Hertz?

3 DR. HERTZ: Thank you. Sharon Hertz. I'm
4 hearing some really interesting ideas and, as I
5 hear an idea, I'm already thinking about how it
6 could potentially be operationalized, not that I
7 know what we're going to operationalize yet, but
8 with each possible suggestion, I try and envision
9 that.

10 So I'm hearing a lot about taking out
11 drug-specific information and putting in pain
12 management. I'd like to hear, when folks have that
13 sort of suggestion about what should go in, how do
14 you see that fitting into a REMS blueprint in this
15 sort of context?

16 DR. BUCKENMAIER: May I respond to that?

17 DR. WINTERSTEIN: Yes.

18 DR. BUCKENMAIER: I think it was Osler that
19 said that the only victor in war is medicine. And
20 so for 15 years, we've been in conflict. And this
21 issue came to us, I think, sooner than it came to
22 the civilian sector. And so there's been work

1 done, particularly by the VA.

2 They have a stepped care model, which is a
3 very ordered way to approach, from a primary care
4 standpoint, a pain patient. And so you can use
5 some of those tools that already exist and other
6 tools that the DoD and the VA have been
7 collaborating on not just for a month or two, but
8 at this point, literally years.

9 We have an entire pain task force that we
10 went through together that preceded the IoM report,
11 and we have a national pain strategy also.

12 One other comment I would like to make is,
13 I'm a fan of the CDC guidelines because they're
14 guidelines that can fit in this framework. But
15 they are not good enough on their own, and, in
16 fact, the evidence, by their own admission,
17 supporting those guidelines is extremely weak. But
18 we all understand why it was done that way.

19 I liken it to, if you just focus on the CDC
20 guidelines as an approach or an answer, it's sort
21 of like treating cholera in the modern era, and
22 only treating cholera patients, and never bothering

1 to check the water source.

2 The driver -- and I'll say it again -- it's
3 three times, and we have to do that in the
4 military; that means it's important -- if you
5 separate the issue of opioids from the driver,
6 which is pain, you will fail.

7 So I think it's an excellent suggestion and
8 we already have tools that we can either adopt or
9 look at as examples to begin that process of an
10 effective REMS that would incorporate good pain
11 care, and that doesn't start with opioids.

12 If you look at the stepped approach, the
13 first answer is not opioids. It's a lot of other
14 things. And you begin to change the culture
15 because that's what we're talking about, a cultural
16 change.

17 That's why this has been such a challenge in
18 the DoD, because we are 230 years not hampered by
19 progress, and it's very difficult to get things to
20 move in a certain direction. And that's what
21 you're attempting to do, but that's what this REMS
22 process could do if you expanded it beyond just

1 what I think is a relatively myopic focus, though I
2 still support it because it did demonstrate
3 success.

4 DR. WINTERSTEIN: Dr. Gerhard?

5 DR. GERHARD: I completely second the last
6 comment. I think it's critically important, and I
7 think the perspective provided in the public
8 comment session of just putting the utilization
9 rates for opioids, including the IR opioids in an
10 international perspective, gives you some idea of
11 how off the charts we are in this country.

12 So there is clearly use that is maybe
13 initiated too early, as was just mentioned. It
14 should not be the first step in pain treatment.
15 There is likely a lot of use for indications where
16 the evidence base for the effectiveness of opioids
17 is very weak.

18 So I think, to strengthen that type of
19 information in the blueprint is critical. And when
20 that is done together with an emphasis on the
21 risks, I think it's pretty clear that everybody
22 exposed to opiates is exposed to -- that hopefully

1 would lead to a situation that only the patients
2 that are likely to benefit from opiates and that
3 have exhausted less risky alternatives, that only
4 those patients will receive the opioids, and that
5 we get away from situations where we have patients
6 that aren't likely to benefit from the opioids but
7 are at the risk for all the adverse outcomes that
8 we've been discussing.

9 So both of these issues could be
10 incorporated, an emphasis on the risks and a clear
11 emphasis on alternative treatment strategies, on
12 areas where there is a clear lack of effectiveness
13 of opioids, they probably don't have a role that's
14 anywhere close to the size that these drugs have in
15 their current practice.

16 DR. WINTERSTEIN: Dr. Raghunathan?

17 DR. RAGHUNATHAN: I thought you could fit it
18 in within the context of appropriate and
19 inappropriate use of opioids. So if you take the
20 pain management as a crux of the matter, then
21 appropriate/inappropriate use can be framed, and
22 then that gives you a way to really measure the

1 outcome as well.

2 DR. WINTERSTEIN: Dr. Brown?

3 DR. BILKER: One comment, addressing
4 directly to Dr. Hertz's question, and that is that
5 I don't really think that the content of the
6 blueprint needs to be absolutely perfect. There's
7 no perfection in either the choice of medications
8 that we choose for individual pain patients, nor in
9 the other alternatives.

10 But what does have to be perfect is that we
11 have to offer folks alternatives if we're
12 suggesting that opioids are, what some people have
13 said, not safe to be used under all circumstances.
14 And the blueprint has to suggest that the
15 information that we're giving people can be
16 presented in a way that adult learners can digest
17 because if we give them a Sears and Roebuck catalog
18 and expect that, that is going to have an impact on
19 their behavior, the Sears and Roebuck catalog is
20 not going to be utilized.

21 So I think that this is something that can
22 be done. We can operationalize this if we put our

1 minds to it.

2 DR. WINTERSTEIN: Dr. Krasnow?

3 DR. KRASNOW: I don't want to go off on a
4 tangent, but the only times I've gotten upset
5 during this meeting is when I hear about our
6 comparison to other countries in the world. As an
7 oncologist, I've read quite a bit about the pain
8 problem in cancer patients around the world, and
9 I'm well aware that there's no access in most
10 countries other than perhaps western Europe to
11 modern pain control.

12 So I would not hold up our international
13 neighbors as paragons of virtue. We can still
14 agree that there's too much opioid prescribing in
15 the U.S.

16 DR. WINTERSTEIN: Dr. Hoffman?

17 DR. HOFFMAN: So I think, while we don't
18 want to focus on detailed descriptions of medicine,
19 as a person who thinks about safety, I also think
20 about there are certain medications where it's
21 critically important that providers who are
22 prescribing an opiate know about issues like need

1 to monitor, QT interval, and drug interactions like
2 a patient on methadone.

3 So I think you can't completely take
4 medications out of the education. I just think we
5 need to think about extremely high-risk situations
6 to help mitigate that risk, and then put systems in
7 place hopefully. And I think this will not need to
8 be done at the FDA level, but at the institutional
9 level where you're sort of reminded, hey, idiot,
10 you haven't checked an EKG on this person who
11 you're about to prescribe this medication to. But
12 I think you need some information about medication
13 when it comes to risk reduction.

14 DR. WINTERSTEIN: I think the committee
15 agrees that the blueprint is very important for two
16 purposes, one, to ensure that the appropriate
17 information is covered; second, to produce a
18 standardized framework for the education. And in
19 this context, it was emphasized that coordination
20 needs to occur with all the other programs that are
21 happening to have one clear message that gets
22 conveyed.

1 With respect to the information on the
2 blueprint and the content of the educational
3 intervention, the committee recommends more
4 emphasis on pain management rather than individual
5 opioids -- now I said it the fourth time -- more
6 emphasis on risk and enhanced discussion; how to
7 reduce opioid use; more emphasis on alternative or
8 opioid-sparing treatment strategies; consideration
9 of the CDC guidelines; lack of efficacy in chronic
10 non-cancer pain and the idea that opioids may not
11 always be the right choice; more concrete guidance
12 on what is appropriate and inappropriate use for
13 physicians; to include immediate-release products,
14 to include special populations such as pediatrics,
15 especially when immediate-release products are
16 included; deemphasize drug-specific information,
17 but retain key issues that are drug specific, the
18 key safety risk issues that are drug specific.

19 There were several comments on the
20 structure. Perhaps several separate hours rather
21 than one session might be more effective; a broader
22 portfolio of formats to accommodate different

1 learning styles; core and specialty-specific
2 segments such as a pediatric-specific segment or an
3 emergency doctor-specific section.

4 There was a recommendation to ensure
5 maintenance of the blueprint so that new
6 information, as it becomes available, gets
7 incorporated and case-based education that focuses
8 on management of pain as opposed to just the drugs
9 themselves. Then lastly, there was the
10 recommendation to think about a blueprint for
11 patient education.

12 Moving on, question 6, discuss whether the
13 current medication guide and patient counseling
14 document are sufficient. If not, what should be
15 added or deleted? Ms. Shaw Phillips?

16 MS. SHAW PHILLIPS: Until we get started, I
17 would like to start by saying I think these
18 documents are both very good, and we can't lose
19 sight of the major problem, which is they're not
20 being used. So most physicians are not using the
21 counseling guide when they're talking to their
22 patients, and even though a lot of times they're

1 getting stuffed in the bag with the product at the
2 pharmacy, the patients may be aware of them but
3 don't even look at them.

4 So I think getting uptake of actually
5 reading in use and practice is really important,
6 and it needs to be part of the strategy. So that's
7 where public outreach to communication to the
8 patients is important. Public health announcements
9 are important. Web-based and other media things
10 are important.

11 But I do want to commend the FDA and the
12 folks that put this together. I think one page, or
13 one page back and front medication guide, is
14 really, really good. They're a lot better than
15 most of the medication guides that I've seen.

16 They really do highlight some of the key
17 messages that I heard some of our other speakers
18 talk about and say that they would like to see in
19 there, which is, this is because other modalities
20 have not treated your pain well enough where you
21 couldn't control or you weren't able to tolerate
22 them; and even if you take this correctly, you're

1 at a risk for addiction, abuse, and misuse that can
2 lead to death.

3 So I think those messages are right up
4 front, but it is put in the context of, this is
5 something that your doctor feels that you need, but
6 here's some things to think about. So I do think a
7 lot of the necessity is around increased uptake
8 abuse of these documents rather than a whole-scale
9 rewrite of them.

10 DR. WINTERSTEIN: Dr. Galinkin?

11 DR. GALINKIN: So being from Colorado, I
12 really think that you need to have some focus on
13 not co-administering marijuana and opiates. In
14 Colorado, from our data, the number one reason
15 people got medical marijuana cards before things
16 went legal was severe pain. And 94 percent of
17 marijuana cards, in I think it was, 2012, were for
18 medical marijuana cards, and that was nearly
19 107,000 prescriptions for medical marijuana cards.

20 I'm sure that's true across all states. Now
21 that we're legal, we have somewhere between 5 to
22 10 percent of people using marijuana on a daily

1 basis. So putting our head in the sand and saying
2 these are not co-administered can't go on. So we
3 really do need to have some advocacy for people not
4 co-administering these drugs.

5 DR. WINTERSTEIN: Dr. Fry?

6 DR. FRY: As far as the medication guide
7 goes, working in a retail pharmacy, Oregon is a
8 mandatory counsel state. So I do try to hit the
9 big points every time someone gets it. On refills,
10 we don't counsel. We always offer. It does get
11 stuffed in the bag, and you will see that even more
12 in your big-box pharmacies, where they're
13 understaffed and busy.

14 I think it should be something that
15 prescribers should be mentioning, but it does also
16 fall on the pharmacist to do that. And I know it's
17 not always going to be done, but I think pharmacy
18 agencies or boards should also stress that with a
19 pharmacist. We also have mandatory pain CE in
20 Oregon to do also, so something like that should be
21 stressed more than it actually is.

22 DR. WINTERSTEIN: Dr. Stander?

1 DR. STANDER: I think the content is one
2 piece, and I would echo that, for the most part,
3 it's quite good; I think some of the expansion
4 around mental illness, other medication, the risks.
5 But really, the key is -- and again, it's more
6 about quality improvement effort -- how do you
7 actually effectively use it?

8 I think, as we've heard, the primary care
9 physicians are incredibly overburdened. They may
10 have 15 minutes with patients. They're not going
11 to likely effectively do the counseling. And I
12 really think, beyond just the content, we have to
13 look at what's really the most effective way to
14 make sure patients hear this message, whether that
15 involves the rest of the team? Have we talked
16 about the nurses?

17 Maybe the oncologists could offer us some
18 suggestions. I know that in their offices, a lot
19 of the nurses are doing some of the education about
20 chemotherapy; the role of the pharmacist at the
21 dispensing end, and whether we should really look
22 at the patient signing or acknowledging they have

1 received this counseling and education in some
2 format.

3 Again, I think we're looking at ways to
4 impress upon them the seriousness of the medication
5 they're about to receive rather than just, sure,
6 here's some oxycodone.

7 DR. WINTERSTEIN: Dr. Tyler?

8 DR. TYLER: Thank you. I agree with
9 Dr. Shaw Phillips in that I was really impressed
10 with the medication guide and patient counseling
11 document. I think we do need to take this
12 opportunity to see how it coordinates with
13 naloxone, whether it's having a med guide for
14 naloxone. But that's something that's changed
15 since it has been written.

16 DR. WINTERSTEIN: Dr. Kaye?

17 DR. KAYE: I just want to build on what
18 Dr. Stander said. The average patient does
19 not -- I think if they understood clearly the risks
20 versus benefits of opiates, such as shutting down
21 your endogenous opiate production, hormonal
22 changes, suppression of natural killer cells that

1 can lead to propagation of infection or cancer, and
2 the psych issues, that may make the average person,
3 in layman terms, not in high-tech science terms,
4 think that maybe they don't want to be on these for
5 the rest of their life.

6 So I think that some better mechanism would
7 be useful in our epidemic.

8 DR. WINTERSTEIN: Dr. Parker?

9 DR. PARKER: So I was focusing specifically
10 also on the patient counseling document. And I was
11 stepping back, saying, what is it that everybody
12 really should be doing in that interaction, and is
13 this document going to guide the person prescribing
14 it through it?

15 I think the ordering of the content really
16 needs to reflect the priorities. And I think that
17 document could be made better very specifically. I
18 do think a key message up front is that you're
19 being prescribed a narcotic, which is addictive,
20 what that means, why this counseling is happening,
21 and really reflect that rather than the dos, read
22 the medication guide.

1 We already know most people don't read them.
2 That's a problem. We're telling people to read
3 them. But what are the absolute critical messages
4 here, a way to make this more interactive and to
5 say here are two or three questions you should be
6 asking your provider; to engage and to look for
7 ways to have the person receiving it interact with
8 the person who's actually prescribing it for them.

9 So I think there could be some focused
10 attention that could improve that. It does need to
11 be a standard document. It needs to be the same
12 across, and it needs to become a conversation that
13 you are very facile with and move through very
14 quickly that reflects the priorities and is in a
15 language. I think it's a good start, but it could
16 be made better.

17 The med guide, same thing. I think there's
18 always room for improvement on some of those. And
19 there again, the ordering needs to really reflect
20 the most important messages.

21 One other comment I wanted to make about the
22 patient counseling, there's nothing on here about

1 use of alcohol in addition to the marijuana, other
2 substances, those being very important, and just
3 being very sure that those key messages are right
4 there.

5 DR. WINTERSTEIN: Dr. Hoffman?

6 DR. HOFFMAN: I think some of the things
7 that everybody is talking about, again, the VA has
8 a pretty nice med guide that goes through some of
9 these issues that I'd be happy to share with you.
10 And we have also done some of the how do you get
11 this to patients.

12 So patients did have to sign informed
13 consent in Pittsburgh. We had a year to get it
14 done. We tried it multiple ways, so initially
15 providers were given this task to do alone, and we
16 weren't very effective at doing it.

17 So then we did pre-mailings to patients to
18 let them read the guide before they came to clinic,
19 so that they could have a discussion with us at the
20 time they came to clinic. Our boss actually
21 created a YouTube video that goes through the
22 guide.

1 So there are a number of different ways that
2 I think it can be done, and I'm happy to share that
3 with you so that you don't have to reinvent the
4 wheel.

5 DR. WINTERSTEIN: I think, on large, the
6 committee likes the medication guide that is
7 available. The primary emphasis was placed not so
8 much on the content than the delivery of the
9 medication guide. Several suggestions were made,
10 one including larger involvement of the pharmacist
11 in going over the guide and ensuring that patients
12 know what they're getting in terms of information
13 that is important.

14 The second was to perhaps add a mechanism to
15 the REMS that would require patients to sign that
16 they received the medication guide or to sign the
17 medication guide itself, similar to some type of
18 consent form. That of course could either happen
19 in the pharmacy or it could also use these patient-
20 provider contracts that have been suggested to
21 initiate opioid-based pain therapy. In terms of
22 content, two specific issues were mentioned that

1 involved concurrent use with medical marijuana in
2 those states where it's available and alcohol.

3 Does that summarize it?

4 Moving on to 7, discuss whether a REMS for
5 immediate-release opioid analgesics should be
6 required to ensure the benefits outweigh the risks?
7 Ms. Shaw Phillips?

8 MS. SHAW PHILLIPS: I don't think, after our
9 discussion, the next few days, we have to say much
10 more than yes. Right? Because I think there's
11 general agreement about that. But I think that's
12 where a key part there is going to be that
13 medication guide for the patient is another piece
14 of paper, yes, but getting that initial
15 communication in the patient's hand and that
16 initial discussion both at the provider level and
17 at the pharmacist level, at the dispensing level,
18 that this is something significant, not to be taken
19 lightly.

20 Even if you're taking it for an acute pain
21 episode, there's still a lot of things you need to
22 think about, both to use it safely, to avoid

1 addiction or other behaviors, and to prevent
2 diversion of the product.

3 DR. WINTERSTEIN: Dr. Floyd?

4 DR. FLOYD: Just to second that, I hope the
5 answer is a unanimous yes. And I think the focus
6 is not on any one high-risk product. It's on the
7 chronic use of opiates for chronic pain and the
8 various safety risks and concerns. And that really
9 is the focus and not the product.

10 Just to second previous comments, I think
11 the CDC guidelines are a great template and
12 starting place. Of course, there are other
13 elements that could be included, but that reflects
14 our best assessment of the very limited evidence we
15 have and the best recommendations.

16 So I think that is a starting point, and
17 that clearly involves all kinds of opiates,
18 primarily with an emphasis on chronic use.

19 DR. WINTERSTEIN: Dr. Choudhry?

20 DR. CHOUDHRY: I obviously agree as well.
21 The one minor wrinkle is, of course, that there are
22 lots of different state regulations on the use of

1 short-acting immediate-release products for acute
2 pain, and they vary from state to state. So the
3 Massachusetts legislation is quite different than
4 the ones in New York, different from Arizona, and
5 so on and so forth.

6 So to the extent that there is, they're
7 included, but there needs to be an acknowledgment
8 of the variability, which may be greater and could
9 create confusion if it's just blanket saying,
10 here's what the CDC says.

11 DR. WINTERSTEIN: Dr. Craig?

12 DR. CRAIG: Thank you. I just want to echo
13 that this actually was a recommendation on original
14 REMS discussion in, I think, 2011, and I remember
15 saying the same thing I'm going to say now, that
16 all opioids should be included in any particular
17 REMS educational program because if you look at
18 death data, it's impossible to look at the ER
19 versus IR formulations. Then, if you're going to
20 prescribe opioids, it's probably worthwhile that
21 you know how to use this tool and use it safely,
22 hopefully.

1 So just to a little bit of déjà vu, we
2 should probably include all opioids as we
3 originally recommended.

4 DR. WINTERSTEIN: Dr. Morrato?

5 DR. MORRATO: Just to add to that, the boxed
6 warnings have already been expanded in order to be
7 more similar to the ER/LA, so by not having a REMS
8 function with immediate release, you'd have to be
9 explaining why. Why have a warning that's similar
10 but not have the risk management similar?

11 DR. WINTERSTEIN: I don't think there's a
12 need to summarize that. Three times, yes.
13 Mr. O'Brien?

14 MR. O'BRIEN: I summarize by saying yes, but
15 I did want to emphasize, in terms of counseling, it
16 adds even a more difficult issue because it's tough
17 enough when a patient comes in. First of all, they
18 only retain 10 percent of what they have anyways.
19 I think we have to be really creative and think
20 about methodologies. And I think the VA source
21 that's mentioned may be good because just to sign
22 something -- if you're in acute pain, and you're

1 sitting there, and you really just want to get
2 something to relieve, you only hear 10 percent
3 anyways, you don't hear. You sign anything. You
4 already asked to sign nine different forms anyway.
5 You have no idea what they say.

6 Unfortunately, the patient is desensitized
7 right now because if you want whipped cream, it has
8 a label that's this big, and tells you you're going
9 to die of this and that, and this and that, never
10 mind when you get into an opioid.

11 So I think we have to think about, really,
12 what's the environment and what's the reality; what
13 makes us feel good, but really what is effective in
14 terms of delivering that message to that
15 particularly the first time opioid user?

16 DR. WINTERSTEIN: Moving on to question 8,
17 discuss whether prescriber education should be
18 required in order to prescribe an ER/LA and/or IR
19 opioid analgesic? If so, consider any burden on
20 the healthcare delivery system and patient access.
21 Discuss mandatory prescriber education by a
22 restrictive closed-system REMS or some other

1 mechanism by which education should be required,
2 for example via DEA registration and renewal
3 process, state licensing and renewal process.

4 Dr. Galinkin?

5 DR. GALINKIN: I think the easiest way to
6 actually get everybody, if you're going to make
7 this mandatory, is to tie it to DEA registration.
8 You'd have everybody registered within three years.
9 The pharmacist would not need to check anything
10 except the DEA registration, so it would not be an
11 undue burden on pharmacists beyond what they
12 already do.

13 So I think that would probably be the most
14 straightforward and easy way to do it as long as
15 the FDA could cooperate with the DEA on that.

16 DR. WINTERSTEIN: Yes. I was reminded that
17 the FDA actually wanted to clarify something in
18 this regard and, of course, I forgot about it.

19 DR. THROCKMORTON: Yes. Thanks. This is
20 Doug Throckmorton. I just wanted to help frame
21 this discussion because it's been a discussion that
22 people have commented on for the last couple of

1 days.

2 The major thing that we need your feedback
3 on here is mandatory versus available but not
4 mandatory prescription provision of the educational
5 materials. There are a variety of programs that
6 one could think about that might support a
7 mandatory prescriber education. The DEA is one of
8 the things that's been mentioned already. That
9 would be an authority under the Controlled
10 Substances Act. That's the DEA. They're not here
11 in the room to defend themselves.

12 That would be one mechanism that people have
13 talked about, including the stated White House
14 interest in providing that. There is interest in
15 an authority under the Food, Drug, and Cosmetics
16 Act that the FDA might use to require mandatory
17 prescriber education. That would link to the
18 provision of the education through the
19 manufacturers. So our authority is over the
20 manufacturers. That would be a provision of the
21 mandatory prescription education in that way.

22 There are programs that exist, for instance,

1 in the Indian Health Service and the NHHS that
2 require certain groups of prescribers, federal
3 prescribers, to take education on pain management
4 and the use of opioids. And then there are a
5 variety of state activities that have required the
6 receipt of education around the use of opioids
7 under one authority or the other.

8 Any or all of those might be something that
9 we would contemplate, but for today, the most
10 important thing for us is to have you think about
11 mandatory versus non-mandatory provision of
12 education, especially I will say, given the answer
13 you just made to the last question.

14 So if your interest is in a very broad set
15 of opioids and educating about them, now we need to
16 really make sure that we're talking openly about
17 the impact of that kind of a choice and, again,
18 mandatory versus non-mandatory provision of the
19 education. Thanks.

20 DR. WINTERSTEIN: If I may comment on this,
21 I think the impact somehow cannot disconnect it
22 from the implementation. And I think that was made

1 very clear by Dr. Auth earlier when she exemplified
2 the numbers of checks that pharmacies may have to
3 do if there were really a program that would be
4 similar to the current REMS that are organized
5 through the manufacturer, basically some third-
6 party entity that registers, where the prescribers
7 have registered and so on.

8 So I'm not sure it's easy for the committee
9 to discern those two, but we can certainly have two
10 separate discussions. One is, are we in favor of a
11 mandatory program if there had to be a check for
12 every single prescription by a pharmacy versus a
13 mandatory program where that would not be the case
14 because the pharmacy would be able to imply that,
15 if they see a controlled substance prescription,
16 that this person is certified in terms of the
17 training.

18 Would that make sense to have those two
19 separate discussions? Because knowing how my
20 committee fellows feel, I think they are separate
21 discussions.

22 DR. THROCKMORTON: I'd agree that impact

1 can't be completely severed from the potential
2 routes of implementation, and I do think Dr. Auth's
3 presentation is very useful in that context. I
4 think what we'd like to do is make sure that we
5 understand the rationale for a recommendation to
6 make it a requirement to get education.

7 So in the last couple of days, there has
8 been discussion about potentially how a requirement
9 might change prescriber willingness and interest in
10 education and things like that. So just
11 understanding whether that requirement changes the
12 value, the impact, the outcomes that we all want to
13 have as a consequence of the education sufficient
14 that it's important to do, that would be an
15 important first question for us.

16 Then the impact is the second question, and
17 you're absolutely right. That can't really be
18 separated entirely from the mechanisms that we
19 might use. I don't want us to get wrapped up in
20 questions entirely focused on the mechanisms
21 because, one, we can't predict exactly the nature
22 of them, so it's going to be a little bit

1 challenging to have a granular discussion; but
2 second, it's beyond the full scope of what we'll be
3 able to discuss today.

4 DR. WINTERSTEIN: Dr. Higgins?

5 DR. HIGGINS: I concur that it should be a
6 restricted system. I think we've seen through the
7 REMS data that we've been looking over the last two
8 days that a voluntary approach really yields some
9 inconsistency with respect to saturation and
10 quality, I believe.

11 DR. WINTERSTEIN: Dr. Brown?

12 DR. BROWN: To Mr. Throckmorton's point, I
13 think that most physicians are at this juncture
14 entirely used to specific requirements for
15 continuing medical education so that it's not going
16 to be a circumstance where we're going from zero to
17 infinity.

18 The Commonwealth of Kentucky requires that
19 every two years, we have 4 hours training
20 concerning HIV/AIDS, and I don't think anybody has
21 thrown themselves off the roof for that. I agree
22 with everybody that has said that unless we make

1 this mandatory, then we're never going to know
2 whether or not we had the potential to infiltrate
3 and inculcate education into the broadest possible
4 population of healthcare providers.

5 I seriously doubt that any kind of voluntary
6 program is going to be able to be effective.

7 DR. WINTERSTEIN: Dr. Morrato?

8 DR. MORRATO: I just wanted to add to that.
9 So I was on the 2010 committee as well that was
10 reviewing this, and I was in the minority and voted
11 in favor of voluntary.

12 At the time, I was concerned about the
13 potential burden at my place, but also the
14 precedent-setting nature that, if we can't make
15 voluntary work in this kind of setting, does that
16 mean all future prescriber education needs to be
17 mandatory?

18 So it seemed like this might be an
19 environment in which voluntary might work. There
20 was a clear need on the importance of this. And I
21 was concerned around a simple solution like linkage
22 with the DEA licensure might take too long.

1 However, I think what we've seen -- I was
2 also anticipating that there would be strong
3 marketing and a lot of concerted effort around
4 getting the voluntary program, and we haven't seen
5 that. We haven't seen results like we saw in New
6 Mexico or heard about.

7 So just like what Dr. Brown was saying, I've
8 come to the resolution that it really does need to
9 be mandatory. But I think as we're debating the
10 mechanism of mandatory, I would hate for us to take
11 our foot off the pedal on the existing voluntary
12 program so that we are at least trying to move that
13 forward and we're not in a limbo waiting for a
14 decision around another kind of solution.

15 DR. WINTERSTEIN: Dr. Floyd?

16 DR. FLOYD: I agree with what's been said.
17 I think, of all the different elements involved,
18 this is just one. And it may not be the most
19 effective one, but I do think it has the potential
20 to be effective with encouraging safe prescribing.
21 And for it to have any chance of being effective,
22 it must be mandatory, whatever the mechanisms. I

1 want to be clear about that, voter recommendation.

2 Secondarily, of course it would be much
3 easier if you could link to DEA, so a strong
4 encouragement to try to work it out with the other
5 agencies. But even if that's not possible, I do
6 still think that this needs to be a mandatory
7 education component.

8 DR. WINTERSTEIN: Dr. Craig?

9 DR. CRAIG: I'll take just a little bit of
10 an oppositional view here. I don't think it should
11 be mandatory. Actually, at the time when we had
12 the original meeting, I thought it should be. And
13 if I've heard anything from the past day, it's that
14 the education is not working, and the education
15 won't work.

16 The REMS is to try to reduce abuse and
17 overdoses. We know that majority of people who
18 abuse opioids are not patients prescribed opioids,
19 so targeting prescribers so as to get at that
20 problem won't work.

21 Number two, targeting overdoses, again, the
22 majority of patients who die from opiate overdoses

1 were not prescribed those drugs. So opiate REMS
2 will have no effect on those two in my personal
3 opinion. So mandating more education -- and I
4 think pain education is a wonderful idea and I
5 think that mandating pain education, I think, makes
6 more sense. I think mandatory opioid education in
7 my opinion doesn't make any sense.

8 DR. WINTERSTEIN: Dr. Garcia-Bunuel?

9 DR. GARCIA-BUNUEL: I had a couple of
10 comments, but I'll try to comment on that one, too.
11 I was not here in 2010, and I sure don't want any
12 of my comments to -- I'm not critical, and I'm not
13 using the retrospect scope, but I think we learn
14 from history and we learn from process that came
15 before.

16 Now, just to be open to the committee,
17 having come into the end of the two days, I reflect
18 on the feedback we've received. And we spent a
19 good part of yesterday hearing from the
20 pharmaceutical industry and the continuing
21 education industry. And of course, we heard from
22 the FDA and other experts.

1 We spent only two hours hearing from public
2 comments today. So I feel like, one, I'm
3 supportive of mandatory, and for the record, we
4 can't disconnect those. And I'm sorry, FDA, we
5 cannot disconnect the mechanism.

6 Bureaucracy has to be challenged. We are
7 responsible to do the right thing and we can't use
8 bureaucracy as an excuse to not do something. So
9 mechanism must be addressed. It must be addressed
10 aggressively, and the DEA option should be
11 explored.

12 So having said that, I think -- and my other
13 reservation is I am worried that we could be back
14 here again getting more feedback from the
15 pharmaceutical industry and the continuing
16 education industry, and that's going to be guiding
17 our decisions. And that is a major concern for me
18 because I'm already feeling that I spent a lot of
19 time hearing from groups that are wonderful groups,
20 a lot of hard work, but I'm just really confused as
21 to how those groups became the driving source of
22 data and dialogue about a risk reduction program

1 related to products that they produce in an
2 industry that was educating us about them.

3 DR. WINTERSTEIN: Dr. Raghunathan?

4 DR. RAGHUNATHAN: Since with the
5 modification of REMS that includes some information
6 about pain management, I feel comfortable in adding
7 the IR, feel comfortable that it should be
8 mandatory in order to make an effect on the an
9 appropriate and proper use of the opioid for pain
10 management.

11 But I also think that there is a middle
12 ground where you can develop a mandatory system,
13 but there are some placement exams built in where
14 they can pass that exam and they don't have to go
15 through that mandatory CME.

16 So for example, we do give that kind of exam
17 to the people who want or are taking biostatistics
18 courses. So we give placement exams. And if they
19 pass, then they don't take any biostats courses.

20 So maybe there could be a common ground
21 where you can provide some legitimate exemption for
22 this process if this is going to be burdensome for

1 healthcare delivery.

2 DR. WINTERSTEIN: Dr. Tyler?

3 DR. TYLER: Thank you. I want to build on
4 Dr. Garcia-Bunuel's comments. It strikes me, if
5 you ask the fundamental question, do we have a
6 public health crisis or not, I think all of us in
7 this room would say, yes, we do. Then how do we
8 create the urgency that we would around any other
9 public health crisis?

10 So to your point, the frustration that
11 you're hearing coming out in different ways today
12 is each of the agencies are using the tools that
13 they have available to them to try to address it,
14 but here we are. Each of the agencies by
15 themselves will not be able to create the urgency
16 in terms of what we need to do.

17 I think this is where it's like a square peg
18 in a round hole in terms of REMS doesn't all by
19 itself solve it. And if we're trying to do the
20 education in the constructs of the REMS, then I
21 think that's where we're going to have some
22 difficulty.

1 So when we start talking about mandatory
2 education, it's about how we solve some of the
3 other how do we manage pain in the United States
4 and the opioids that go along with it. So when you
5 talk about education like that, much like what the
6 New Mexico model was, which I was very impressed
7 with, then we start realizing that we can't really
8 do it in the constructs of the REMS.

9 REMS by their very nature involve industry
10 very closely, and having industry drive this agenda
11 does not make sense for a variety of reasons that
12 are already stated or already discussed.

13 So I think it's very important that we think
14 about how we pull together the agencies that are
15 involved that can help make a difference, both at
16 the federal level within Health and Human Services
17 and with the DEA and Department of Justice.

18 We have a network of public health systems
19 with our state partners, and I think we can
20 coordinate some stuff with our states that would
21 create an incredibly strong program in addition to
22 the resources that are already in our federal

1 services healthcare system.

2 DR. WINTERSTEIN: Dr. Choudhry?

3 DR. CHOUDHRY: On balance, I'd probably
4 favor a mandatory approach, but I see some of the
5 pragmatic problems with this, and I shared some of
6 Dr. Craig's concerns about its ultimate
7 effectiveness.

8 There are perhaps two middle grounds, and
9 these are two sort of disparate concepts. But one
10 is about, maybe it's not for all prescribers, but
11 it's for some. And there are ways for us to define
12 using routinely available data that's basically
13 available in real time prescribers who actually
14 prescribe to lots of patients appropriately or
15 otherwise, who prescribe a many-days supply, who
16 prescribe lots of pills, who prescribe on average a
17 high total or maybe cumulative total morphine
18 equivalents.

19 So one middle ground might be to actually
20 think about who this is then mandated for. In a
21 similar vein that we require certification for
22 performance of procedures for those who actually

1 performed the procedures, this is kind of in that
2 same vein.

3 The second middle ground is just more of an
4 operational thing in terms of how this could be
5 mandated or Dr. Raghunathan was talking about
6 passing out of a qualifying in a biostat kind of
7 course. But we write recertification exams. And
8 while the cycle may be too long, it's certainly
9 something to think about.

10 So every 10 years, those of us who are
11 internists here do this. I suspect the
12 anesthesiologists and the pediatricians have their
13 own cycle. So to the extent that those exams are
14 supposed to reflect what we're supposed to know in
15 order to practice, it seems, to some extent,
16 duplicative to then create entirely parallel
17 systems.

18 So I think I would encourage a different
19 type of collaboration. We've talked about
20 regulatory collaboration, but there's also state
21 medical boards or specialty societies that have a
22 lot do with this process as well.

1 DR. WINTERSTEIN: Dr. Parker?

2 DR. PARKER: You give me pause. I
3 appreciate your saying that. But I do feel like,
4 all in all, the mandatory I think needs to be
5 there. I do underscore -- I know the agency has
6 since 2011 been in favor of working with the DEA
7 registration and requiring that all DEA
8 registration for controlled substances have to be
9 trained on responsible opioid prescribing as a pre-
10 condition for that registration.

11 That makes sense to me, and I know it hasn't
12 happened. And I know that it's a complicated
13 story, but I still think it's the right thing. So
14 I just say that as part of the record like many
15 others.

16 I think the other thing to really underscore
17 is industry-sponsored REMS as part of mandatory
18 training. Does it make sense? I don't
19 think -- and I think, if you go with REMS or
20 restrictive REMS, and it's industry sponsored, I
21 think that's still going to lead to some problems.

22 So I do think the industry sponsorship is

1 something that needs specific attention for this,
2 and were it linked to the DEA registration or
3 whatever other mechanism, that needs to be very
4 carefully thought through. There could still be
5 sponsorship, but it could be at arm's length from
6 what actually ends up happening in the training
7 sessions.

8 There may be a way to pay for it but be at
9 arm's length and not really linked to the bottom
10 line of the manufacturers who are actually
11 producing the products. I have some concern with
12 that.

13 DR. WINTERSTEIN: Dr. Israel?

14 DR. ISRAEL: I would support what Dr. Parker
15 just said, that I think that mandatory education is
16 necessary. And we're in the middle of a public
17 health crisis. I would like to see something
18 happen in an easier, if there is such a thing, way
19 to make this happen.

20 We all have to go through CME to get
21 licensed every time our license needs to be
22 renewed. Part of those hours could be 3 hours,

1 5 hours, whatever it is, of opioid education every
2 2 years, so it gets reinforced without having to go
3 back and create a whole new system to try to figure
4 out how to track all this stuff. And I do think it
5 needs to be separated from industry, at least at
6 arm's length.

7 DR. WINTERSTEIN: Mr. O'Brien?

8 MR. O'BRIEN: I wasn't here in 2010 anyways,
9 but I had taken history to be that it wasn't
10 funding. I thought it was industry funded, not
11 industry sponsored, so I'm not clear about the
12 independence issue, but independent to me is
13 important.

14 But to the issue of mandatory, the
15 perspective, which I reflected earlier or
16 yesterday, was looking from a patient perspective,
17 I think there's a quandary. And I would support
18 mandatory; not that I like mandatory programs, but
19 to the issue -- my understanding is in
20 Massachusetts, for example, it's now mandatory for
21 education. We have other states, as was mentioned,
22 so we've got this quandary.

1 Well, from quality of care, if that's going
2 to be a standard of care, then from my mind, this
3 shouldn't be a different standard of care because
4 someone is educated in Massachusetts but they're
5 not educated in whatever other state that may be.
6 We should have a standard that exists throughout
7 all.

8 So from that perspective, from a patient's
9 perspective, I would support a mandatory education.
10 Now, obviously, we have the two arms, and I cannot
11 separate impact because if that means that people
12 can't get the medication they need, well, that's a
13 whole different story.

14 But absent of tying the two together, then I
15 think from a standard-of-care perspective, I would
16 be in favor of all mandatory. Everybody should be
17 educated to understand the risk and benefits of
18 this condition or this medication.

19 DR. WINTERSTEIN: Dr. Fry?

20 DR. FRY: I just wanted to add that when
21 they think about the mandatory training, linking to
22 the DEA is probably the smartest way. Part of REMS

1 is patient access; 67,000 plus pharmacies in the
2 country, all of us had to get licensed also, and
3 then go through special certifications to fill.
4 And every time a prescription comes in, go through
5 that, it would really limit patient access.

6 DR. WINTERSTEIN: Dr. Stander?

7 DR. STANDER: I think the only thing you can
8 say about mandatory education -- I'll take a little
9 issue with Dr. Craig when he said it doesn't work
10 or we see education doesn't work -- I think the
11 best we can say is, nobody expects that education
12 alone can work to fix this problem or to make
13 people better.

14 I think the best you can say is that it will
15 increase the likelihood that people will use these
16 medications more wisely with greater competence.
17 So I think, on balance, I would favor mandatory
18 education.

19 I think there are ways to build on rather
20 than creating a whole new separate system. I like
21 Dr. Israel's comment about, virtually every state
22 has mandatory CME. If you can document that

1 X number of hours every cycle of your license is
2 built in.

3 could link it to some of the board
4 certification, although nobody has ever shown that
5 board certification necessarily guarantees that
6 people practice well, and those are often separated
7 by 10 years at a time. But you could opt out
8 of -- have certain specialties, whether it's pain
9 specialists, anesthesia, who have trained in this
10 and might be able to opt out just by maintenance of
11 their certification.

12 So for the rationale, I think, on balance,
13 you would say that educating people about the use
14 of very dangerous medications intuitively would
15 increase the likelihood that they do things more
16 correctly.

17 I'm not quite sure that you opt out -- only
18 educate the high-volume users. So I'll take a
19 little issue with Dr. Choudhry because it may be
20 that those people -- again, if you believe in the
21 volume, quality relationship, it's maybe the people
22 who are barely using it once or twice a year or

1 cavalierly, I think they need the training more.

2 The other unintended consequence of this,
3 which may be a good thing if you link it to DEA
4 registration, may be the people who will opt out of
5 the training and the people who really don't want
6 to prescribe this, or don't want to deal with this,
7 or don't want to get the training, maybe we don't
8 want them to be prescribing anyway.

9 So I mean, I don't know if we know that will
10 happen or not, but for those reasons, I think I
11 would favor the mandatory. If we keep it
12 voluntary, we're never going to get very many
13 people trained.

14 DR. WINTERSTEIN: Dr. Krasnow?

15 DR. KRASNOW: A follow-up to some of the
16 comments here raised, in my mind, the model of the
17 CITI bioethics course, which many of you may have
18 had to take. I have to take every three years as
19 an investigator and IRB member.

20 When you go to that exam for your
21 recertification, you don't have to go through the
22 whole course material. You can flip through and

1 take the exam questions. And if you pass the exam,
2 you're done. I can do that in well under an hour,
3 having done it so many times. That would be one
4 way to make it less painful for people who are well
5 trained and experienced in their field.

6 The other thing about the CITI course is
7 that it has expandable modules. There's a core
8 curriculum that everybody is tested on, but then,
9 if people are interested and want more information,
10 you can expand the modules and get more, but that
11 part is optional.

12 So there are ways to do this that I think
13 would be relatively painless.

14 DR. WINTERSTEIN: Dr. Buckenmaier?

15 DR. BUCKENMAIER: After 26 years in the
16 Army, mandatory doesn't bother me, so maybe I'm not
17 the right person to comment on this.

18 (Laughter.)

19 DR. BUCKENMAIER: But I hate HIPAA, can't
20 stand it, hate the information, don't want to have
21 anything to do with it. And despite my best
22 efforts, I know an awful lot about HIPAA because I

1 have to do it every year. In fact, this is my
2 birth month. I'll be doing it here, and it takes
3 me no time. But there is occasionally a question
4 that trips me up because something has changed.
5 And despite my best efforts, I know stuff about
6 HIPAA that the government wants me to know, and I
7 can't stop it.

8 The fact is that, for this training, it's so
9 fundamental to what we do as physicians,
10 particularly the pain management aspect of it, why
11 wouldn't we want to do that on a routine annual or
12 semi-annual basis to make sure that we have that
13 information down pat, and that as things change
14 that we may not be aware of, these were not in a
15 training situation anymore, we're getting that
16 information.

17 You don't have to like pain, but you're not
18 going to be able to do medicine unless you're a
19 pathologist and not deal with it. So why not make
20 this mandatory for everybody since we already do
21 that for some other critical issues like HIPAA.

22 DR. WINTERSTEIN: Dr. Kaye?

1 DR. KAYE: Just to dovetail, I was reminded
2 from what you just said that I have to renew my
3 ACLS card --

4 (Laughter.)

5 DR. KAYE: -- if I want to practice in my
6 hospital, so amen to that.

7 DR. WINTERSTEIN: All right. I think there
8 is fairly overwhelming, not complete, but
9 overwhelming agreements that this should be a
10 mandatory educational system. I think everybody is
11 doubting how much of an impact it has, but it also
12 is, I think, very clear that everybody agrees that
13 proper prescribing practices should be available
14 and should be given to every opiate prescriber.

15 I think everybody favors that if there were
16 a mandatory program, checking off, complying with
17 that mandate would be tied to something that would
18 not need to be checked by pharmacies. So that
19 would be, I think, favorably either DEA
20 registration or licensure.

21 Many arguments why mandatory were provided.
22 The biggest ones were, providers are used to

1 required CME. It can be part of the overall CME
2 anyways. There's an increasing number of states
3 that require pain CME now. Why not? It's not
4 different from HIPAA, and so on.

5 The mechanism should be addressed. And I
6 just mentioned this, -- sorry -- the evaluation
7 should be addressed of the programs. I think there
8 was some discussion to deemphasize the industry
9 impacts in administering those programs if it
10 becomes a mandate.

11 I think most panel members agree that there
12 should be some process that would allow prescribers
13 with clearly adequate knowledge such as pain
14 specialists to opt out or take some type of prior
15 exam that would allow them not to take the CE
16 essentially.

17 Does that cover it?

18 (No response.)

19 DR. WINTERSTEIN: All right, which brings us
20 to voting. So considering all available
21 information, which one of the following options do
22 you recommend FDA pursue regarding the ER/LA opioid

1 analgesic REMS?

2 We have three options, continue, eliminate,
3 or modify? Then after the vote, we would all get
4 the opportunity to explain what we meant with our
5 vote. So after the vote, please describe the
6 rationale for your recommended option. And if we
7 voted for modify, please discuss your rationale and
8 provide specific recommendations for how you would
9 want it modified.

10 Any clarifying questions?

11 DR. KAYE: Are we voting [inaudible -- off
12 mic].

13 DR. WINTERSTEIN: So if you look at your
14 voting, there's not only yes or no. There's also
15 A, B, C underneath. So you just select attend, yes
16 or no, equals A, B, C.

17 Clarifying question?

18 DR. SHOBEN: Was this modified like in any
19 way modify or modify in ways that we haven't
20 previously discussed?

21 DR. WINTERSTEIN: In any way modify, yes. I
22 see nodding. However you want it modified, if you

1 want it modified in any way, hit C.

2 We will be using an electronic voting system
3 for this meeting. Once we begin the vote, the
4 buttons will start flashing and will continue to
5 flash even after you have entered your vote.

6 Please press the button firmly that
7 corresponds to your vote. If you are unsure of
8 your vote or you wish to change your vote, you may
9 press the corresponding button until the vote is
10 closed. After everyone has completed their vote,
11 the vote will be locked in.

12 The vote will then be displayed on the
13 screen. The DFO will read the vote from the screen
14 into the record. Next, we will go around the room
15 and each individual who voted will state their name
16 and vote into the record. You can also state the
17 reason why you voted as you did if you want to. In
18 this case, we want you to state the reason. We will
19 continue in this same manner until all questions
20 have been answered or discussed.

21 If there are no questions or comments
22 concerning the wording of the question -- everybody

1 knows how the buttons work? Not yet. They say
2 hold on, not yet.

3 DR. STANDER: The Army brat over here
4 suggested we just vote the old-fashioned way,
5 either by paper or just go around the table and say
6 what we think.

7 DR. BUCKENMAIER: I'm not understanding what
8 we're gaining by silently voting if we're going to
9 say what we're voting anyway around the table. We
10 could just get started.

11 DR. WINTERSTEIN: I think the idea is that
12 we should not get influenced by each other when we
13 vote. It's probably more relevant when there are
14 yes/no votes.

15 (Laughter.)

16 DR. WINTERSTEIN: You were not supposed to
17 influence anyone during the discussion, even though
18 you might have.

19 Are we good? Okay. So we will now begin
20 the voting process. Please press the button on
21 your microphone that corresponds to your vote. You
22 will have approximately 20 minutes -- seconds,

1 sorry.

2 (Laughter.)

3 DR. WINTERSTEIN: That was really not
4 planned; 20 seconds to vote. Please press the
5 button firmly. After you have made your selection,
6 the light might continue to flash. If you are
7 unsure of your vote or you wish to change your
8 vote, please press the corresponding button again
9 before the vote is closed.

10 (Vote taken.)

11 LCDR BEGANSKY: The vote was, A, zero,
12 continue without modifications, B, zero, eliminate
13 the REMS, and C, 30, modify the REMS.

14 DR. WINTERSTEIN: We will start with
15 Dr. Floyd and Dr. Parker giving us their
16 recommendations because they have to catch a
17 flight, and then we will just go around the table.

18 Dr. Floyd?

19 DR. FLOYD: So sorry, the car is already
20 here waiting, I think.

21 DR. WINTERSTEIN: Well, state your name.

22 DR. FLOYD: James Floyd. I voted C. Just

1 to very briefly reiterate comments over the last
2 two days, I think education is just one element of
3 what's needed in this REMS. I think it ought to be
4 mandatory and to reflect the best available
5 guidelines as a starting point, which are the CDC
6 guidelines.

7 I also want to mention other parts of
8 restrictive REMS, which we really have not had any
9 robust discussion about, but I think ought to be
10 considered. These could include things like for
11 certain patients on high doses or with long-term
12 use being in a registry or needing monitoring.

13 I don't think I can make a recommendation
14 because we have not really had a discussion to
15 consider this. I don't think that this should be
16 outright discarded because even though existing
17 restrictive REMS like iPLEDGE and TIF have been
18 seen as burdensome, you can take or leave out
19 certain elements and adapt a restrictive REMS.

20 So my recommendation would be to have more
21 discussion about some of the other restrictive
22 elements, but I don't think that we can make a

1 recommendation on those parts today. Thank you.

2 DR. WINTERSTEIN: Dr. Parker?

3 DR. PARKER: Yes. I would support.

4 Everybody voted the same. I do think changes are
5 needed, and I think we've covered many of those,
6 the immediate-release certainly being a part of
7 that, looking at how the REMS, if they are
8 restrictive; how the industry support for them is
9 disarticulated from the immediate use of the REMS
10 products.

11 That's got to be carefully looked at and
12 understood, but I think there's a need and we've
13 gotten into that some. So I really underscore that
14 as one of the needs that needs to be addressed, the
15 patient counseling document being a part of that,
16 that I think we can really improve on as well as
17 some of the medication guides, looking very
18 carefully at content, flow, and what exactly we're
19 looking for in those. Thank you.

20 DR. WINTERSTEIN: Start with Dr. Krasnow.

21 DR. KRASNOW: I'll be quick because I think
22 you're going to hear the same thing a lot. I think

1 the scope of the current REMS is too restrictive,
2 and I think the addition of other elements like
3 immediate-release drugs and other pain management
4 modalities may actually have a positive benefit on
5 the use of the current REMS products.

6 There is clearly, from the data provided, no
7 assessment data, no outcome data that could be
8 analyzed, and I think that the modifications
9 suggested would address that, and part of that
10 being it should be mandatory. I also think that
11 the length of the education should be very closely
12 looked at and restricted to make it palatable, and
13 I think those are the major elements. Thank you.

14 DR. WINTERSTEIN: Could you state your name
15 and your vote for the record? We have to vote into
16 the record, so just state your name and what you
17 voted.

18 DR. KRASNOW: Steve Krasnow, and I voted for
19 modification.

20 DR. BOHNERT: Amy Bohnert. I voted for
21 modification. The main factors for me were to be
22 able to add the immediate-release, short-acting.

1 Like others, I am in favor of mandatory, but do
2 recognize that there are some real challenges to
3 that. I think the content that's required within
4 the blueprint needs some updating, particularly
5 around new information that has come out since it
6 was originally written.

7 Then I think something we've discussed less
8 but that I also think is equally important is that
9 I think it needs to be tailored to learner types
10 and incorporate other best practices around this
11 type of education.

12 DR. HOFFMAN: My name is Erika Hoffman. I
13 voted to modify as well, and I agree with
14 everything else that's already been said. The one
15 thing that I will add is I think it's really
16 important to improve upon the patient education
17 piece because I think if we do a better job at
18 educating the patient on alternative means of pain
19 control, along with risk-benefit ratio, number
20 needed to treat, number needed to harm, there are
21 people that we will end up not treating with
22 opiates.

1 DR. RAGHUNATHAN: Trivellore Raghunathan. I
2 also voted for C, modify. Some of the reasons
3 include the already-mentioned addition of IR,
4 modification of REMS modules to increase the
5 information about the pain management system, and
6 also making this mandatory. And I also agree that
7 there are some challenges, but there may be some
8 middle ground that could come up.

9 Also, I think the REMS should be modified in
10 terms of evaluation purposes. I think we need to
11 rethink about how do we want to restructure the
12 evaluation of the program and whether what we are
13 doing is achieving the goals that we want to
14 achieve. That needs to be thought out in the
15 modification as well.

16 But I also want to say that why we are doing
17 these modifications is, we want to also make sure
18 that we don't stop what we are doing currently, at
19 least reaching out to people, even on a voluntary
20 basis, to a wider set of prescribers, should
21 continue and not wait for these modifications to
22 take place.

1 DR. McCANN: Hi. I'm Mary Ellen McCann, and
2 I voted to modify the REMS, but I almost thought
3 about voting for eliminating the REMS. And the
4 reason for that is I think there has been very
5 little evidence shown in the last two days that the
6 present REMS has altered behavior by much at all.

7 The reason I voted to modify REMS is that I
8 think my view of it is it's basically a manual on
9 how to prescribe opioids, when it should be a
10 manual or blueprint on how to treat pain, much like
11 Dr. Buckenmaier has mentioned before. And I agree
12 with everybody else on the panel that we need to
13 streamline the process. There should be shortcuts
14 for individuals who are already educated on this to
15 take the exam or et cetera, et cetera, so that we
16 make it the least burdensome possible for people.

17 DR. GERHARD: Tobias Gerhard. I voted for
18 C, modify. I believe it should be mandatory. It
19 should include the immediate-release forms as
20 previously noted. It should focus on pain
21 management broadly and the role of opiates within
22 this rather than narrowly on opiate use as such,

1 really focus on the evidence-based use of opiates
2 versus non-evidence-based use of opiates, and
3 within that, emphasize clearly the risks of
4 opiates.

5 Obviously, as this has been worked on and
6 put together, it's important to not -- or to try as
7 much as we can to not affect access for patients
8 that really do need opiates because, obviously,
9 there is a large group of patients where opiates
10 have an important role in their pain management.

11 DR. HIGGINS: Jennifer Higgins. I voted to
12 modify for the reasons that I previously mentioned.

13 MR. O'BRIEN: I'm Joe O'Brien, and I voted
14 to modify for all of the things that have been said
15 in terms of expanding scope, including the IR,
16 improving outcome measurements and data collection,
17 involving the entire healthcare team, making it
18 mandatory so that we have a standard of care that
19 applies to all, and particularly emphasizing -- and
20 I would encourage in terms of not only just patient
21 education, but empowering the patient, getting them
22 involved in the entire process.

1 The one statement I would make is that the
2 majority of patients -- based on the data we've
3 seen, the majority of patients are in fact
4 utilizing the drug in an appropriate manner. And I
5 think, because there's a lot of stigma associated
6 with it, that may misdirect them or cause angst
7 within them. I think there needs to be a positive
8 campaign as well as identifying the risks and
9 benefits that go along with that.

10 DR. GARCIA-BUNUEL: My name is Martin
11 Garcia-Bunuel. I voted C, to modify, also
12 parenthetically considered the B to eliminate, and
13 I will just specify on that. I think I've made my
14 points fairly clear, but I do think we need to make
15 an attempt at the mandatory inclusion of the ER/LA
16 and the IR class.

17 Having said that, I also urge our government
18 partners that if we are unable to navigate and make
19 those changes, then I do think that's where the B,
20 eliminate, would come in. If we are willing to
21 take no for an answer because of bureaucratic
22 inertia and other influences, I would make sure,

1 for the record, that we would not fall back to the
2 current state.

3 DR. BILKER: Warren Bilker. I voted to
4 modify, and the reasons are, I think there should
5 be addition of IR. It should be made mandatory.
6 And in terms of assessment of the modified version,
7 I think the study design needs to be changed, and
8 the change should include allowance for assessing
9 appropriate and inappropriate use and also risk-
10 benefit.

11 DR. CRAIG: David Craig. I voted C, to
12 modify, predominantly on the inclusion of the IR
13 opioids. That was my suggestion. I think some of
14 the other things that have been brought up about
15 modifying stratification for mental health and
16 suicidality makes sense as far as opioid risk
17 assessment. It also, I think, is an important
18 inclusion.

19 I still take the original position that it
20 should be voluntary. I think mandatory pain
21 education undergradually and post-gradually, I
22 think, makes sense, but I don't think an opioid

1 REMS is the mechanism to make that happen.

2 DR. KAYE: Alan Kaye from LSU. I voted to
3 modify. I think we should have mandatory with
4 teeth. I think just one out-of-the-box ideas might
5 be to have a drug czar of some type to interface
6 with the FDA, the medical and state boards,
7 interventional pain, pharmacy, and evolve best
8 practices for pain management in this country.
9 Thanks.

10 DR. ISRAEL: Heidi Israel. I voted to
11 modify, inclusion of the IR, mandatory training,
12 and also pain management.

13 DR. EMALA: Charles Emala. I voted to
14 modify for five key points, addition of IR,
15 extension of mandatory, extension to the whole
16 healthcare team, pain management rather than just
17 opioid management. And finally, I think it's
18 critical to do better objective measures of the
19 effectiveness.

20 DR. PERRONE: Jeanmarie Perrone. I voted to
21 modify, all the points that Dr. Emala made, as well
22 as we need to teach people to use these drugs

1 sparingly, and to eliminate the metrics that we've
2 had in the past like patient satisfaction scores
3 and pain scores pushed by other people, and to
4 separate pharma from any of the education
5 opportunities.

6 DR. WINTERSTEIN: Almut Winterstein. I
7 voted for modification. I am concerned that
8 education of either provider and/or patient won't
9 have the impact that we hoped for, but it is the
10 basic infrastructure that should be in place. I
11 suggest that this involves both prescribers and
12 pharmacists because I believe that pharmacists can
13 play an important role in patient education.

14 I suggest mandatory education for both, and
15 I suggest modification of the educational program,
16 including IRs, obviously, as well as a stronger
17 focus on pain management. I also recommend formal
18 patient education. That, I think, would be best
19 built into patient-prescriber agreements.

20 I very much recommend formally an
21 evaluation) of REMS that integrates questions that
22 allow us to understand inappropriate prescribing

1 practices and how and why patients migrate into
2 addiction.

3 DR. BROWN: Rae Brown. And I voted to
4 modify, and I agree with everything that our
5 chairperson has said, with one addition, and that
6 is that I think it's really important to give a
7 comprehensive re-look at the blueprint for REMS and
8 to include, as a very important part, starting
9 today, the assessment of success versus failure of
10 the program, including things like the number of
11 people that are completing the REMS, what the
12 outcomes are for them, if that changes the way that
13 they manage patients, and if there's a difference
14 in outcome.

15 I think that's got to be incorporated into
16 this, and I see that as one of the weaknesses of
17 the system that we have now.

18 DR. SHOBN: I'm Abby Shoben. I also voted
19 to modify for all the reasons previously said.
20 Most notably, I think it should be mandatory and
21 should include the IR opioids. The blueprint
22 should be redone to include both the IR and other

1 pain management strategies. There is great need
2 for clarity about this appropriate/inappropriate
3 use of opioids.

4 DR. MORRATO: Elaine Morrato and I voted C
5 for modifying the REMS. I'd like to thank the
6 efforts of the FDA to address the opioid epidemic
7 over the years, given the limits of their
8 regulatory and statutory authority. This has often
9 been challenging, but it's important that they
10 continue to push the critical conversation forward
11 with their FDA opioid action plan.

12 I recognize the unprecedented scale of the
13 REMS, number of drugs, companies, number of
14 patients and providers. And I agree with many that
15 we should be cautious in introducing unwarranted
16 burden or unintended consequences.

17 But for me, the misuse in prescription
18 opioids remains a public health crisis, and, as
19 others have said, we have to act accordingly, like
20 a medical emergency. So for me, strengthening REMS
21 sends a very clear message and FDA's actions do
22 have a cascading effect.

1 So the modifications I recommended are like
2 others for the reasons that have been mentioned,
3 making the prescriber education mandatory and,
4 importantly, routine and renewing so that it
5 becomes institutionalized in the work process, not
6 an add-on; expanding the mandatory education to
7 include IR products, that the education blueprint
8 include the broad concepts of pain management and
9 are harmonized with other national public health
10 guidelines or agencies.

11 One thing that we didn't mention but I think
12 is important is the ongoing communication plan. We
13 didn't talk at great length, but the information on
14 the website, one-time letters that were done are
15 one time and rather stagnant, some mentioned in the
16 open forum, not necessarily using innovative
17 21st century marketing and advertising methods.
18 And I think there should be ongoing effort to
19 support from the companies this kind of educational
20 activity as well.

21 So the last comment I want to make, I also
22 got the opportunity to participate in the 2013

1 meeting, which was the vote on rescheduling
2 Vicodin-like products. And at that time, we heard
3 a very impassioned argument from the DEA in favor
4 of rescheduling products like Vicodin and that we
5 should be doing everything possible to address the
6 crisis.

7 We also heard testimony that was impassioned
8 from Senator Manchin from West Virginia, who not
9 only talked about the situation in his own home
10 state, but he shared with us the unanimous
11 bipartisan consent of the Senate in favor of
12 rescheduling.

13 So I'm hopeful that today, we might have the
14 political will to actually, like others have said,
15 challenge the process and find a new path forward
16 in concert with other regulatory agencies.

17 DR. GALINKIN: Jeffrey Galinkin. I voted to
18 modify for many of the reasons that have been
19 stated before. I do think it should be a mandatory
20 requirement. And I think we should be addressing
21 the kinds of not only responsible opiate
22 prescribing, but rational opiate prescribing.

1 I think that's the word that we really
2 should be using. This needs to be from, really, I
3 would urge, a rapid multi-agency coordinated
4 response to this issue, particularly around some of
5 the reasons we keep talking about, maybe partnering
6 with the DEA or whatever.

7 But if we're talking about actually
8 guidelines for pain management, it's going to have
9 to be potentially a much more multi-group response.
10 I also think we should be expanding the groups, as
11 I mentioned, for pediatric patients and also for
12 medical students and residence because I think
13 that's going to be an essential group to train.

14 DR. BATEMAN: Brian Bateman. I voted to
15 modify. So all the data we reviewed at the meeting
16 did not provide clear evidence either supporting or
17 refuting the effectiveness of REMS training. We
18 know prescription opioids carry considerable risks
19 and that inappropriate prescribing has contributed
20 to the epidemic we're currently facing.

21 It thus stands to reason that providers will
22 benefit from training regarding their appropriate

1 use and that this is therefore one potentially
2 important piece in addressing the broader problem.

3 Like others, I think the program should be
4 modified to include the IR formulations, the
5 blueprint revised in a way that the material
6 focuses more broadly on the treatment of pain,
7 including non-opioid medications and non-
8 pharmacologic modalities. The blueprint also needs
9 to clearly articulate the risks of opioids and
10 what's known or not known regarding the efficacy of
11 opioids for chronic non-cancer pain, and then to be
12 brought into alignment with the CDC guidelines.

13 Lastly, I'd favor making the training
14 mandatory in some fashion, either linking it to DEA
15 registrations, state licensure, or as a pre-
16 condition of being a CMS provider.

17 DR. GUPTA: Anita Gupta. I voted to modify.
18 I believe the REMS should be mandatory. It should
19 be comprehensive, evidence based in content for
20 both pain and opioid therapy for providers and
21 patients, and that the delivery of information
22 should be engaging, digestible by potentially using

1 innovative technological solutions.

2 This will ensure a firm definitive broad
3 public health impact. Immediate-release should be
4 absolutely included, given that all opioids
5 contribute to the epidemic. The REMS program
6 should be interoperable with all provider systems,
7 pharmacists, nurse practitioners, physicians, all
8 clinicians appropriate to the provider level,
9 whether medical student or senior physician, the
10 actual specialty. It should also be collaborative
11 with all federal agencies and stakeholders to
12 ensure a clear and concise message.

13 DR. FRY: Michael Fry. I voted C to modify
14 basically for the reasons that we stated. IR
15 should be included, mandatory to ensure that
16 prescribers are following the guidelines and
17 training, and just better education for patients
18 through all aspects of healthcare, where there's
19 nurses or pharmacists, trying to educate them, so
20 they know the dangers that do exist.

21 DR. STANDER: Paul Stander. I voted to
22 modify and, again, for virtually all the reasons

1 we've heard, including the IR, coordinating, I
2 think, with the CDC and other government agencies
3 so it's a unified message focused on the risk and
4 focused on the decreased efficacy and any chronic
5 pain scenarios.

6 I agree with expanding it to the whole team,
7 although mandating it for that group may be even
8 more difficult than for physicians, although I am
9 in favor of the mandatory for physicians.

10 I'd like to echo Dr. Morrato and commend the
11 FDA for their efforts. And I'd also just like to
12 say this is the first FDA advisory panel I ever
13 participated in, and I appreciate the opportunity.

14 I just want to commend the other panel
15 members and the other presenters. Truly, I learned
16 a lot, and I felt that everybody was really trying
17 to do their best to confront a very serious
18 problem. So I appreciate the opportunity and
19 everybody else's efforts.

20 DR. BUCKENMAIER: Dr. Trip Buckenmaier. I
21 voted C for two reasons. One, my last name is
22 actually spelled N-M-A-I-E-R, so I gave the FDA a C

1 on that effort. But I give them an A on their
2 institutional courage to actually address this
3 national health crisis and being able to do so
4 despite the fact that it is a bit of a morass and
5 very difficult.

6 I also voted to modify because I think we
7 need an opportunity to snap-link pain management to
8 the opioid issue and provide that training to our
9 providers at all levels. And I echo the many folks
10 in this room that have called for improved medical
11 education of all specialties, doctors, nurses, and
12 allied professionals in this area, since they're
13 going to be the ones taking care of us in too short
14 a time.

15 DR. TYLER: Linda Tyler. I also voted C,
16 modify the REMS. Like others, I believe in
17 mandatory education for the entire healthcare team,
18 adapted to the special needs of each discipline. I
19 believe that the role of industry needs to be
20 separated from the development of the education.
21 That said, I too want to compliment the RPC for
22 their role and leadership in addressing this and

1 hope they continue to play a leadership role in
2 this public health crisis.

3 There's no question from the FDA standpoint,
4 it will be a challenge to fit the REMS as we know
5 it into this model of what we've described today.
6 Nonetheless, the goals of REMS programs to address
7 risk still applies. It's important that we
8 coordinate with the other resources in our public
9 health network to be able to address this crisis,
10 both at the federal and state level as well as the
11 local levels.

12 DR. CHOUDHRY: Niteesh Choudhry. I also
13 voted to modify, again, for four main reasons for
14 me. I think the format length and the one-time
15 nature of the education needs to change its
16 content, as we've discussed, focusing on pain;
17 immediate-release agents being tailored to
18 different sorts of providers, including those who
19 are non-physicians.

20 I do broadly support a mandate for this sort
21 of REMS education. But perhaps most important of
22 all, we clearly need a better evaluation strategy

1 to figure out whether this is worth the money.

2 MS. SHAW PHILLIPS: Marjorie Shaw Phillips.
3 I also voted to modify, C. So much has been said,
4 so I don't want to repeat all of these things. I
5 do want to recognize that mandatory confirmation of
6 specific knowledge could be really important and
7 makes sense to be tied to DEA registration for
8 those prescribers that prescribe Schedule IIs and
9 IIIs. But I also agree, as Dr. Tyler said, that we
10 really need to educate the whole healthcare team.

11 So there's room for a lot more education
12 than just that that might be tied to either
13 licensure or registration. But there really needs
14 to be synergy among federal agencies for safe and
15 effective use of opioids within the larger umbrella
16 of a national pain strategy.

17 DR. WINTERSTEIN: We really won't have time
18 to address question 10 anymore. I think that we
19 have done a lot previously when we discussed REMS
20 evaluations. The FDA is nodding. So I think we
21 have probably provided enough, at least for this
22 meeting. Does the FDA have concluding remarks they

1 would like to share?

2 DR. LaCIVITA: Yes, I do. I want to thank
3 everyone for attending. I know it's difficult to
4 take two days, probably more with travel, out of
5 your busy schedules. These are very important
6 issues as it pertains to patient care and safety,
7 and even people that aren't patients. We're
8 talking about when it's used inappropriately by
9 people that weren't prescribed the drug.

10 You've provided very thoughtful
11 consideration to a great number of questions that
12 we asked you, and we really appreciate that. We
13 need to go back and think about all the things that
14 you have provided to us today. So thank you all.

15 **Adjournment**

16 DR. WINTERSTEIN: Thank you, everyone. You
17 were a wonderful committee. That's the largest
18 committee that I've ever chaired, and it went
19 extremely well. So thank you, thank you. Safe
20 travels home, and the meeting is adjourned.

21 (Whereupon, at 5:00 p.m., the meeting was
22 adjourned.)