

DEPARTMENT OF HEALTH AND HUMAN SERVICES
FOOD AND DRUG ADMINISTRATION
CENTER FOR DRUG EVALUATION AND RESEARCH

ANESTHETIC AND LIFE SUPPORT DRUGS
ADVISORY COMMITTEE

Tuesday, September 9, 2003

8:10 a.m.

Holiday Inn Bethesda
Bethesda, Maryland

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Victor Raczkowski, M.D.

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

2 Call to Order and Opening Remarks

3 DR. KATZ: Good morning. Welcome to the
4 meeting of the Anesthetic and Life Support Drugs
5 Advisory Committee the purpose of which will be to
6 advise the FDA on risk management programs for
7 opioid analgesics, in particular modified-release
8 products.

9 My name is Nathaniel Katz. I will be
10 chairing the meeting this morning, and my job will
11 be to make sure that we succeed in providing all of
12 the relevant input that has been asked to this
13 division of the FDA.

14 To my right is Johanna Clifford. She is
15 actually the real person who is running the
16 meeting, and her job is to make sure that I do my
17 job and that the meeting stays on track.

18 Now, the Division has worked very hard to
19 create a truly interdisciplinary group of
20 individuals representing many of the relevant
21 stakeholders on this issue. While I have a number
22 of ground rules for the committee that I would like
23 to go over, what I would like to do first is begin
24 with introductions. There are a new people on the
25 committee and many invited guests. We don't all

1 know each other, so I would like to start with
2 taking a minute for us all to introduce ourselves.

3 Let me just remind people from the
4 government that many of us don't know what the
5 specific committee or agency that you are involved
6 with does, so it would also be appropriate for you
7 to take a sentence or two to describe, not only who
8 you are, but the place that you are from.

9 Why don't we begin at that corner, Dr.
10 Jenkins.

11 Introduction of Committee

12 DR. JENKINS: Good morning. I am John
13 Jenkins. I am the Director of the Office of New
14 Drugs at the Food and Drug Administration. My
15 office is responsible for all the divisions that
16 review and approve new drugs.

17 DR. MEYER: Dr. Bob Meyer. I am the
18 Director of the Office of Drug Evaluation II in the
19 Center for Drugs, and my office has the Division of
20 Anesthetics, Critical Care, and Addiction Drug
21 Products within it.

22 DR. RAPPAPORT: Good morning. I am Bob
23 Rappaport. I am the Director of the Division of
24 Anesthetics, Critical Care, and Addiction Drug
25 Products.

1 DR. HERTZ: Good morning. I am Sharon
2 Hertz. I am the Medical Team Leader for the
3 Analgesic Group in the Division of Anesthetics.

4 DR. LEIDERMAN: I am Dr. Deborah
5 Leiderman. I direct the Controlled Substances
6 staff within the Office of the Center Director. In
7 CDER, we are responsible for all aspects of abuse
8 liability assessment and interface with other
9 federal agencies around issues of abuse and drug
10 scheduling.

11 DR. RACZKOWSKI: Good morning. My name is
12 Victor Raczowski. I am the Director of the Office
13 of Drug Safety in the Center for Drugs. Our office
14 is heavily involved in risk assessment, risk
15 communication, risk management, and medication
16 errors. We work closely with the Office of New
17 Drugs both before and after approval to ensure
18 drugs appropriate use.

19 MS. NAGEL: My name is Laura Nagel. I am
20 from the Drug Enforcement Administration, Office of
21 Diversion Control. We are responsible for the
22 enforcement of the Controlled Substance Act
23 particularly as it pertains to legitimately
24 manufactured drugs.

25 DR. CRAWFORD: Good morning. My name is

1 Stephanie Crawford. I am from the University of
2 Illinois at Chicago, College of Pharmacy. I am a
3 guest participant from the Drug Safety and Risk
4 Management Advisory Committee.

5 DR. SHAFER: Steve Shafer, Professor of
6 Anesthesia, Stanford University.

7 DR. BAXTER: Lou Baxter. I am Executive
8 Medical Director of Medical Society of New Jersey,
9 Physicians Health Program, and I am brand new. I
10 am here and that is about all that I can tell you.

11 DR. GARDNER: I am Jacqueline Gardner, the
12 University of Washington School of Pharmacy, and I
13 also am from the Drug Safety and Risk Management
14 Committee.

15 DR. ARONSON: Solomon Aronson. I am the
16 Chief of the Anesthesiology Services for Vanguard
17 Health Systems in Chicago.

18 DR. SAINI: Bhupinder Saini. I am an
19 anesthesiologist by background. I practice
20 full-time pain management. I am president of a
21 12-man group who are totally dedicated to pain
22 management.

23 DR. KAHANA: I am Madelyn Kahana. I am a
24 Professor of Anesthesiology, Pediatrics, and
25 Critical Care Medicine at the University of

1 Chicago.

2 MS. CLIFFORD: Good morning. I am Johanna
3 Clifford. Nat already provided you with my job
4 description. I will be the Exec Sec to this
5 meeting.

6 DR. BRIL: Good morning. I am Vera Brill.
7 I am a Professor of Medicine at the University of
8 Toronto with an interest in neuromuscular
9 disorders. I am a member of the Advisory
10 Committee.

11 DR. ROSE: Good morning. I am Carol Rose.
12 I am an Assistant Professor of Anesthesiology at
13 the University of Pittsburgh School of Medicine and
14 University of Pittsburgh Medical Center. I am a
15 clinical anesthesiologist.

16 DR. WLODY: Good morning. My name is
17 David Wlody. I am academic anesthesiologist at the
18 State University of New York Downstate Medical
19 Center. I am a consultant to the committee.

20 DR. PASSIK: Steve Passik. I am a
21 clinical psychologist and I direct the Palliative
22 Care program at the Markey Cancer Center at the
23 University of Kentucky.

24 DR. DWORKIN: Hi. I am Bob Dworkin. I am
25 a Professor in the Department of Anesthesiology at

1 the University of Rochester in upstate New York.

2 DR. CUSH: Good morning. I am Jack Cush.
3 I am Chief of Rheumatology and Clinical Immunology
4 at the Presbyterian Hospital of Dallas and the
5 University of Texas Southwestern Medical School in
6 Dallas. I am here representing the Arthritis
7 Advisory Committee.

8 DR. BOBEK: Good morning. I am Mary Beth
9 Bobek. I am the consumer representative. I am
10 also Clinical Faculty at University of North
11 Carolina College of Pharmacy.

12 DR. SKIPPER: I am Dr. Greg Skipper. I am
13 an internist and addiction medicine specialist on
14 the faculty at the University of Alabama at
15 Birmingham. I am also the Medical Director of the
16 Physician Health Program in Alabama. I am here for
17 the Drug Abuse Advisory Subcommittee.

18 DR. CIRAULO: I am Dom Ciraulo. I am
19 Chairman of Psychiatry at Boston University School
20 of Medicine. I am also on the Drug Abuse Advisory
21 Subcommittee. I have had a long-standing interest
22 in developing clinical pharmacology laboratory
23 paradigms for abuse liability.

24 DR. MAXWELL: I am Jane Maxwell. I am a
25 research professor at the University of Texas at

1 Austin and on the Drug Abuse Subcommittee.

2 DR. STROM: I am Brian Strom. I am
3 Professor and Chair of Biostatistics and
4 Epidemiology, although I am not a biostatistician,
5 I am an epidemiologist, and I am from the Drug
6 Safety and Risk Management Committee.

7 DR. GILLETT: Good morning. I am Jim
8 Gillett. I am Professor of Ecotoxicology and
9 Director of Graduate Studies in Risk Analysis and
10 Cornell University. I am here as patient
11 representative, as President of Esophageal Cancer
12 Awareness Association.

13 DR. McLESKEY: Charlie McLeskey. I am the
14 industry representative on this committee, and I am
15 an anesthesiologist employed at Abbott
16 Laboratories, Global Medical Director for
17 Anesthesia and Sedation Products.

18 DR. KATZ: Thank you, everybody.

19 Ms. Clifford will read the Conflict of
20 Interest Statement.

21 Conflict of Interest Statement

22 MS. CLIFFORD: The following announcement
23 addresses conflict of interest issues with respect
24 to this meeting and is made a part of the record to
25 preclude even the appearance of impropriety at this

1 meeting.

2 The topics to be discussed today will not
3 focus on any particular product or company, but
4 rather may affect those companies that make or are
5 developing modified-release opiate analgesic drug
6 products.

7 The conflict of interest statutes prohibit
8 special Government employees from participating in
9 matters that could affect their own or their
10 employer's financial interests.

11 All participants have been screened for
12 interests in the products and companies that could
13 be affected by today's discussions.

14 In accordance with 18 United States Code
15 section 208(b)(3), the Food and Drug Administration
16 has granted waivers to the following individuals
17 because the Agency has determined that the need for
18 their services outweighs the potential for a
19 conflict of interest. They are: Dr. Nathaniel
20 Katz, Dr. Robert Dworkin, Dr. Steven Shafer, Dr.
21 Steven Passik, Dr. Russell Portenoy.

22 A copy of the waiver statements may be
23 obtained by submitting a written request to the
24 Agency's Freedom of Information Office, Room 12A-30
25 of the Parklawn Building.

1 We would also like to note that Dr.
2 Charles McLeskey is participating as a non-voting
3 industry representative, acting on behalf of
4 regulated industry. Dr. McLeskey is an employee of
5 Abbott Laboratories and is a shareholder.

6 With respect to FDA's invited guests,
7 there are reported interests that we believe should
8 be made public to allow the participants to
9 objectively evaluate their comments.

10 Dr. Arthur Lipman has consulted for Purdue
11 Pharma and Endo Pharmaceuticals. In recent years,
12 he has received support from literally all the
13 analgesic manufacturers through unrestricted
14 educational grants and through speakers' bureaus.

15 In the event the discussions involve
16 products or firms not on the agenda for which an
17 FDA participant has a financial interest, the
18 participants are aware of the need to exclude
19 themselves from such involvement and their
20 exclusion will be noted for the record.

21 With respect to all participants, ask in
22 the interest of fairness that they address any
23 current or previous financial involvement with any
24 firm whose products they may wish to comment upon.

25 In addition, we have received a number of

1 letters from the public. These have been provided
2 to the committee and are available for viewing
3 today at the registration desk, and they will be
4 made part of the public record, as well.

5 DR. KATZ: Thank you, Johanna.

6 Since many around the table are new to the
7 Advisory Committee process, I wanted to take a
8 minute or two to provide an orientation and to give
9 a charge to the committee for our work task for the
10 next two days. Right after that we will go to Dr.
11 Rappaport's opening comments.

12 First of all, just to briefly
13 summarize--and many of our other speakers will go
14 into this in great detail--why we are here.

15 The purpose of this meeting is because it
16 has been recognized that opioids are essential in
17 the management of patients with chronic pain, but
18 yet that they are associated with risks, so that
19 individuals and sponsors have proposed risk
20 management programs in order to diminish those
21 risks while not interfering with appropriate
22 medical management.

23 So, our task here today will be to advise
24 this Division of the FDA and give them feedback on
25 the pros and cons of various risk management

1 approaches that have been proposed, both in general
2 today, and tomorrow with respect to a particular
3 product called Palladone.

4 One of the first points I would like to
5 make is that approval of any drug is a complicated
6 process that depends upon a lot more than just the
7 risk management plan, so I would like to make it
8 clear from the outset that whether Palladone should
9 or should not be approved will be beyond the scope
10 of our discussion both today and tomorrow. What we
11 will be focusing on is just one component of
12 information relevant to that, which is the risk
13 management program itself.

14 The two days will be divided into two
15 different sorts of activities. The first will be
16 lectures with a little bit of question and answer,
17 and that will really occupy most of today. Then,
18 there will be some time for discussion today and
19 then tomorrow, there will be a large chunk of time
20 for discussion of issues that come up both today
21 tomorrow. That discussion will be structured in
22 the form of questions which everybody around the
23 table should have received and may have had a
24 chance to look at by now.

25 Now, my own experience, this is the second

1 Advisory Committee meeting that I have chaired that
2 relates to opioids, and my own experience both here
3 and elsewhere is that opioids may be more be, more
4 than many other areas of medicine, seem to create a
5 lot of excitement and passion among the people
6 involved in the discussion.

7 So, what I would like to do is to create a
8 sense of collaboration of the people around the
9 table. Since this is an informational meeting, it
10 is not a requirement that we all come to consensus
11 or agree with each other or persuade each other
12 about our different perspectives, and furthermore,
13 our different perspectives may be very true, but
14 may be only true for the sorts of patients that we
15 see or the particular area that we practice in or
16 the sort of training that we come from or all sorts
17 of other biases that we bring to the table.

18 So, our job today will be to not
19 necessarily come to any consensus with definitive
20 answers and everything, but at least to illuminate
21 where there are different schools of thought, to
22 outline the evidence based behind different
23 perspectives on this issue, and to share the
24 information and perspectives, so that the division
25 can go back with all this information and make

1 decisions that day I need to make.

2 So, what will work well for us around the
3 table will be to focus primarily on the content
4 issues. What tends not to work as well is when
5 folks like us start saying that this government
6 agency ought to do this or that one ought to do
7 that since training and the exact scope and
8 authority of different government agencies is
9 certainly beyond my expertise and probably beyond
10 the expertise of many folks around the table. So,
11 we are here to provide content information and
12 hopefully, our collaboration will illuminate this
13 issue more to an extent that will be helpful to the
14 division.

15 Now, as far as practical details, though,
16 there are a few practical things I just want to let
17 you know about. In order to speak, the procedure
18 is if you just raise your hand, Johanna will write
19 your name down and we will try to go in more or
20 less a first come-first serve way, but there are
21 times where it will be important for me to violate
22 that rule and try to foster particularly discussion
23 that might seem productive, so don't feel like you
24 are being discriminated against if you raise your
25 hand next, but I am not calling on your next.

1 However, sometimes things come up where I
2 can't see you, particularly the people in these
3 corners are sometimes hard to see, so if you do
4 feel that for some reason, we have not been
5 recognizing you appropriately, just grab myself or
6 Johanna during the break.

7 When you go to speak, turn on your
8 microphone and when you are done speaking, turn off
9 your microphone unless you want all of your little
10 comments to the side to be heard by everybody.

11 There will be a very helpful system for
12 speakers, as well as for people in the open public
13 forum, and that system is called a red light. I
14 will tell you more about that when the time comes.
15 For speakers who are getting up, there will be both
16 a yellow light and a red light, so the yellow
17 light, if you are up speaking at the podium, the
18 yellow light will come on two minutes before you
19 are ready to stop.

20 Now, there has been no time for question
21 and answer built into the lecture, so if you want
22 to have people to have the opportunity to ask
23 questions and to have a dialogue, when your yellow
24 light comes on, stop then and that will give about
25 two minutes for a couple of quick questions and

1 answers. Obviously, there will be ample time for
2 discussion later.

3 When your red light comes on, then, you
4 are done. So, what I really want to do is apologize
5 to all the speakers in advance, because I will cut
6 you off when that red light comes on, so don't take
7 it personally, it's just for the purpose of making
8 sure that we get our job done over the next two
9 days, and I will cut people off equally and fairly
10 when that red light comes on.

11 Another issue is that people around the
12 table may have questions for people also around the
13 table or for speakers or for other people sitting
14 around the table. If you do have any questions,
15 then, the protocol is just go through me, so raise
16 your hand, I will address you, and if you have a
17 question, just let me know and depending on how the
18 meeting is flowing, we will see if we can pose
19 those questions to other folks around the table.

20 If there is anything we can do to make you
21 more comfortable, let us know.

22 I think those were all my procedural
23 comments.

24 With that, let me introduce Dr. Bob
25 Rappaport, who, as he said, is Division Director of

1 the Anesthetic, Critical Care, and Addiction
2 Products Division, who will give us opening
3 comments.

4 Opening Remarks

5 DR. RAPPAPORT: Thank you, Dr. Katz.

6 Good morning. Dr. Katz, members of the
7 committee, invited guests, I would like to thank
8 you at the outset of this meeting for your
9 participation. You will be addressing an important
10 public health issue during this session - how do we
11 approach the issue of prescription opiate abuse
12 while assuring the proper treatment of pain.

13 Prescription drug abuse is a growing
14 problem in this country and opiate analgesics are
15 some of the most widely abused and misused
16 prescription products available today, however, one
17 of the very reasons that these products have become
18 widespread in use and availability is that for the
19 first time in modern history, the appropriate
20 treatment of chronic pain is receiving the
21 acceptance and the recognition in the medical
22 community that it so urgently deserves.

23 Tens of millions of Americans are
24 estimated to suffer from chronic pain. Many of
25 those people are appropriately treated with opiate

1 analgesics and for many that treatment will provide
2 them with relief from suffering and the possibility
3 of returning to a normal life in a manner that is
4 not currently available with non-opiate treatments.

5 Therein lies a conundrum, opiates are
6 abused and because they are abused, some
7 prescription opiates are diverted and the more
8 potent modified-release products that are available
9 today are of particular interest to abusers, not
10 only to the seasoned addict and those that hope to
11 profit from human frailty, but also to the teenager
12 who wants to experiment with these intriguing
13 potions and yet may die after a single large
14 exposure.

15 In our role as public health advocates,
16 the increasing incidence of abuse, addiction and
17 overdose in this country must concern us. These
18 potent modified-release products are potentially
19 dangerous even in legitimate medical practice when
20 their unique pharmacokinetic and pharmacodynamic
21 characteristics are not fully understood.

22 Overdose and death and patients being
23 converted from one high potency, high-dose opiate
24 to another and inappropriate use by inexperienced
25 physicians must concern us.

1 Chronic pain is still undertreated in
2 millions of patients. Misconceptions about the
3 normal physiological dependence that occurs with
4 opiate analgesic treatment and its role in
5 addiction abound. Irrational fears based on myth
6 and lore often interfere with the proper treatment
7 of the patients most in need. Chronic pain claims
8 a huge toll on individuals and on the American
9 economy, and this must concern us.

10 How can we intervene to reduce
11 prescription opiate abuse, assure safe use in the
12 medical setting, and yet assure appropriate access
13 to patients with chronic pain who need opiates for
14 proper treatment? Risk management interventions
15 have been touted as one of the potential solutions
16 to this perplexing dilemma.

17 The Agency has implemented risk management
18 plans for other drug products and we will attempt
19 to familiarize you with the scope and the range of
20 those plans today.

21 We have reviewed a number of risk
22 management plans for extended release opiate
23 analgesics that we will also describe to you, which
24 elements of risk management work and which don't,
25 which elements might even have a counterproductive

1 effect.

2 For the most part, that sort of data may
3 not even exist. Do we even know the proper
4 methodology for collecting the data? In fact,
5 these are the very questions that we will pose to
6 you over the next two days.

7 We have assembled some of the leading
8 experts both from the government and from academic
9 to review the extent of the problem for you. You
10 will hear from SAMHSA representatives about the
11 data they have collected on prescription opiate
12 abuse and from the FDA Office of Drug Safety on the
13 current medical usage data for these products.

14 Representatives from the DEA will describe
15 their role in diversion control and risk management
16 and their perspective on the problem of opiate
17 analgesic diversion. The FDA Controlled Substance
18 staff will outline the Agency's authority and
19 responsibility under the Controlled Substances Act,
20 and the Deputy Director of the Center for Drug
21 Evaluation and Research will define the challenge
22 of risk management for long-acting opiate
23 analgesics under the authority of the Food, Drugs,
24 and Cosmetics Act.

25 In addition, experts in the medical use of

1 opiate analgesics and their misuse in the medical
2 setting will present the most recent information
3 from the clinical academic community on the
4 benefits and challenges that are inherent in the
5 use of these products.

6 As this meeting is centered on the
7 development of risk management plans for opiate
8 analgesics, you will also hear from the Agency's
9 drug safety staff and the New Product Review staff
10 regarding the existing risk management plans for
11 both opiate analgesics and other drug products.

12 We will define the elements of these plans
13 for you and ask you to help assess their value,
14 reliability, and inherent risks. We will ask you
15 to address what role education, restricted access,
16 surveillance, and other elements may play in the
17 risk management of prescription opiate use, how
18 might these elements be implemented, how can their
19 success or failure be measured, where might those
20 elements aimed at lessening diversion and misuse be
21 in conflict with appropriate patient care, and what
22 research projects should be considered to inform
23 these programs.

24 Finally, during the open public hearing,
25 there will be an opportunity for experts,

1 advocates, concerned citizens, and most
2 importantly, patients from both the pain and
3 addiction populations to speak to you about their
4 experiences and about their concerns.

5 Tomorrow, we will discuss a specific risk
6 management plan. Representatives from Purdue
7 Pharma will review the basis for their New Drug
8 Application for Palladone and extended release
9 hydromorphone product.

10 They will focus their presentation on
11 their proposed risk management plan for Palladone
12 and provide data in support of that plan from a
13 similar plan that has been designed for their other
14 extended release opiate analgesic drug product
15 OxyContin.

16 The Agency's Controlled Substances staff
17 will provide their perspective on the abuse
18 liability of Palladone and Dr. Mary Jeanne Kreek
19 will provide a broader perspective in her
20 discussion on the challenges of pharmacotherapy
21 with long acting opiates.

22 You will then be asked to provide the FDA
23 staff with recommendations regarding the Palladone
24 risk management plan. It is important to recognize
25 that formal risk management for pharmaceuticals is

1 still a young endeavor. There are no well traveled
2 paths to follow.

3 As experts in the treatment of pain, in
4 the treatment and epidemiology of abuse and
5 addiction, and in risk management strategy and
6 communication, we are hopeful that you will provide
7 us with guidance and direction as we attempt to
8 find new paths towards reasoned and sustainable
9 solutions to a difficult and complex problem.

10 We know that the FDA cannot hope to
11 implement or sustain any solution to this problem
12 by itself. It will be of paramount importance for
13 you to keep in mind that there are many
14 stakeholders in this effort - other government
15 agencies, the academic community, the
16 pharmaceutical industry, the clinical community,
17 and the patients and their caregivers and families.

18 Each of these has important, but often
19 differing perspectives and differing roles,
20 however, as individuals and as members of
21 organizations and communities, we must all share in
22 the work ahead, so that we may all share in the
23 rewards.

24 Once again, I would like to thank you for
25 being generous with your time and expertise by

1 participating in this important meeting.

2 DR. KATZ: Thank you, Dr. Rappaport.

3 I would like to now introduce Dr. Steven
4 Galson, who is the Deputy Center Director of the
5 Center for Drug Evaluation and Research, and who
6 will be speaking with us about the FDA role in the
7 risk management of opiate analgesics.

8 FDA's Role in the Risk Management
9 of Opiate Analgesics

10 DR. GALSON: Thank you very much. I am
11 extremely happy to be here this morning and I want
12 to start by thanking the members of the committee
13 and the Chair for your sense of public purpose and
14 commitment in being here. I know we can't really
15 compensate you for your time, you are all very,
16 very busy.

17 We will rely very heavily on your
18 clear-eyed and objective answers to the questions
19 that we pose to you in making our decisions about
20 steps to take regarding this group of products and
21 the product that you are hearing about tomorrow.
22 So, again thank you very much.

23 [Slide.]

24 I am here today to talk about the FDA's
25 role in the risk management of opiate analgesics

1 and I want to start by taking you back to the very
2 beginning. This is review for a lot of you, I will
3 go fairly quickly, but just so that you understand
4 clearly what the role of the Agency is.

5 The Food, Drug, and Cosmetic Act tells us
6 that we can require from drug applicants, from
7 sponsors, tests that are reasonably applicable to
8 show whether or not these drugs are safe for use
9 under the conditions for which the application is
10 designed.

11 [Slide.]

12 But what does drug safety mean? No drug
13 is 100 percent safe, all drugs have risks. We all
14 know that.

15 We define based on the requirements of the
16 Food, Drug, and Cosmetic Act that the benefits of
17 the drugs that we approve outweigh the foreseeable
18 risks for the specific indication, the medical
19 indication, and for the specific population for
20 which they are designed.

21 [Slide.]

22 We use a large variety of tests to assure
23 this. We require nonclinical studies of laboratory
24 animals, a lot of human data, which I will focus on
25 very quickly in a second. We also don't keep the

1 requirements static. We incorporate new science
2 when it has been demonstrated to help us in
3 assisting our reviewers to look at safety and
4 efficacy about the products in front of us.

5 We are continually using new information
6 and we are not standing still.

7 [Slide.]

8 With regard to human data, we applications
9 for drugs that have been exposed to approximately
10 10,000 people for varying duration and dosing. The
11 people who take these drugs in clinical trials
12 frequently have other concurrent illnesses.

13 We have the statistical power to detect an
14 association for an event occurring 1 in 100 to 1 in
15 1,000 people depending on the background rate of
16 that condition. We don't have capacity in the
17 methods that we currently use to review and approve
18 drugs of detecting and quantitating very infrequent
19 events more rare than noted there.

20 [Slide.]

21 For predicting the benefit, we use
22 randomized, controlled trials, as you all know.
23 These, however, lack generalizability to
24 populations that were not participants in the
25 controls, the larger society, and, as well, these

1 clinical trials don't study all domains of benefit.

2 There may be nonquantifiable, but very
3 important benefits to patients that aren't
4 quantified in these studies, and we also can't
5 predict in these studies the uncertainties of
6 certain kinds of use and certainly not the
7 uncertainties of abuse.

8 [Slide.]

9 So, before we approve a drug, we are
10 assured that the benefit outweighs the risks, as
11 you see in this simple chart.

12 [Slide.]

13 But there are lots of things that can
14 happen after a drug is approved. Certainly, abuse,
15 as you all know about, we may not have done a good
16 job of predicting the risk for a variety of
17 reasons, that some of these risks may have been
18 unpredictable.

19 There may be errors involved in the way
20 the drug is used, committed both by patients or by
21 participants in the healthcare system, or there may
22 be inherent risks with the drugs. We know, as I
23 said before, that all drugs have risks, and these
24 inherent risks may be more important than we had
25 anticipated.

1 [Slide.]

2 Therefore, we know a drug is less safe and
3 if it is used in a way that decreases the
4 foreseeable benefit and if it is used in a way or
5 in a way that increases risk of if the actual risks
6 are greater than the predicted risks. There are a
7 lot of different things that can, quote "go wrong."

8 [Slide.]

9 Getting more specific to the products you
10 are interested in here, moving towards that, our
11 goal in managing risk is to look at it throughout
12 the product life cycle. We begin this in drug
13 review and approval process through the methods
14 that I have just talked about, and we use multiple
15 risk management tools, such as the language in the
16 drug label that is distributed with the drugs,
17 restrictions on use of the drug or on the
18 distribution or other special requirements to try
19 to assure that the risks of the drug are maintained
20 in a manageable way throughout the life cycle.

21 This process continues after drugs are
22 approved. I don't have time to go into a lot of
23 detail about this, but we conduct passive
24 surveillance with our adverse event reporting
25 system where practitioners, patients, and others

1 can send reports in when they notice them to the
2 Agency. We keep track of those, collate them, and
3 look at them very carefully.

4 There are lot of other systems to look at
5 the safety of drugs that are on the market
6 including four opiates, just as an example, here
7 the Drug Abuse Warning Network, which is not run by
8 the FDA, but detects increases in reports through
9 emergency rooms of drug abuse problems.

10 We can also conduct special studies when
11 we are concerned about a particular problem with
12 the drug, and others in the medical community and
13 in the research community conduct these studies for
14 us, or may conduct them for other reasons, and we
15 look at them to weigh all of these pieces of
16 information after a drug is approved.

17 [Slide.]

18 So, we conduct periodic evaluation of
19 risks and benefits of drugs that are on the market
20 if the use changes beyond what we had anticipated,
21 if new risk-benefit data come up through the
22 scientific process or through another means, or if
23 for some reason we are aware that our risk
24 management steps have not been effective enough.

25 In those cases, we may make changes in the

1 way that the drug is labeled or in other aspects of
2 the way the drug is used and distributed in
3 consultation with the drug sponsors, but these
4 changes have to be consistent with our statutes and
5 with our regulations.

6 We are watched very closely in those
7 regards, and we have a limited number of degrees of
8 freedom that we can go in making changes to drugs
9 once they are approved.

10 We also, as I think you all know, enforce
11 advertising regulations which can be very important
12 for this group of compounds. We also coordinate
13 with other federal agencies, particularly with DEA,
14 around the opiates, or other organizations to try
15 to control risk, to try to work to mitigate
16 information which may be incorrect about these
17 compounds.

18 [Slide.]

19 In the special case of opiate analgesics,
20 which you are here to talk about today, we know
21 that these drugs are a very important part of our
22 medical arms chest. They are safe and effective
23 when used properly, but we do have indications that
24 there have been increases in opiate-related abuse
25 and deaths, and that is one of the reasons that you

1 are here.

2 The Federal Government regulatory
3 authority and responsibility for risk management
4 for this group of drugs is shared with the Drug
5 Enforcement Administration, with the FDA being
6 responsible for the items that I have talked about
7 previously, and the DEA responsible for enforcing
8 the regulations and the laws to reduce abuse, and
9 you are going to hear about that from DEA speakers
10 later in this meeting.

11 [Slide.]

12 What are our challenges in risk management
13 of this group of drugs in 2003? We need to
14 maintain a positive risk-benefit balance, as I have
15 been talking about. We need to maintain access for
16 the patients who need these drugs, and we want to
17 be able to use the label that we approve for these
18 drugs appropriately to foster risk management.

19 We need to base our decisions about
20 changes and approval of these drugs on science, not
21 on emotion, and we need to base them on what we can
22 assess to be the current medical practice
23 consensus. That is why you are here, that is why
24 you represent different parts of the medical
25 community, and as you know, a lot of medical groups

1 have been working on trying to assess what the
2 right way to use opiate analgesics for many, many
3 years, there has been a lot of consensus work done
4 in medical organizations, and we need to pay very
5 close attention to that because the medical
6 community and the healthcare community is really
7 one of our most important stakeholders in the
8 Agency.

9 We can also consider other risk management
10 steps, unusual risk management steps, things that
11 haven't been tried before.

12 [Slide.]

13 What is the context under which we are
14 asking you to be here today? The problem of opioid
15 abuse is a complex societal problem with a lot of
16 different causes. As you know, as scientists, any
17 complex problem demands a complex solution. There
18 is not a simple solution to this problem.

19 It is a combination of regulation, public
20 policy, education, and research, which is being
21 applied and which continues to need to be applied
22 to this problem. We all recognize that it is not
23 going to be solved overnight and will only be
24 solved by an incremental improvement in how we
25 manage these risks.

1 As I have mentioned, addressing the
2 problem is the shared responsibility of not just
3 the Federal Government, but of other agencies, not
4 just the regulatory agencies, but other federal
5 agencies, some of which are represented here, the
6 Substance Abuse and Mental Health Administration,
7 and the part of the NIH, NIDA, that handles drug
8 abuse research, State and local governments,
9 teachers, parents, nongovernmental organizations,
10 religious groups, the Boy Scouts, et cetera. This
11 is a societal problem, and that is the context in
12 which we want you to look at the questions that we
13 are asking you today.

14 Thank you very much again for being here.
15 We look forward to your advice, and good luck for a
16 good meeting.

17 My yellow light isn't on, so I can take
18 any questions if folks have them based on my
19 comments, otherwise, we will move on.

20 DR. KATZ: Does anybody around the table
21 have any questions for Dr. Galson?

22 [No response.]

23 DR. GALSON: Thank you very much.

24 DR. KATZ: Thank you very much.

25 Before we go on to our next speaker, there

1 is a new person at the table who missed the
2 introductions earlier, so, Dr. Portenoy, would you
3 like to take half a minute and tell us who you are?

4 DR. PORTENOY: Thank you. I am sorry
5 about being late, you know, D.C. traffic.

6 I am Russ Portenoy. I chair the
7 Department of Pain, Medicine, and Palliative Care
8 at the Beth Israel Medical Center in New York City.

9 DR. KATZ: Our next speaker will be Dr.
10 Deborah Leiderman. She is the Director of the
11 Controlled Substance staff at FDA, as you all
12 heard. She will be speaking with us about Risk
13 Management and the Controlled Substances Act: the
14 FDA Perspective.

15 Risk Management and the Controlled Substances Act:
16 The FDA Perspective

17 DR. LEIDERMAN: Good morning.

18 I will be talking about risk management
19 and the Controlled Substances Act through the lens
20 of the FDA. Now, Dr. Galson has outlined the
21 general framework of risk management that CDER
22 utilizes, the Center for Drugs and FDA utilize.

23 In advance, I want to acknowledge that my
24 comments about drug control and drug scheduling are
25 from the perspective of the FDA, and that the DEA

1 will be speaking in greater detail about some of
2 the law and roles that I am addressing later in the
3 meeting.

4 [Slide.]

5 The Controlled Substances Act of 1970,
6 which I will refer to from hereon in as the CSA,
7 was enacted to comply with international treaties,
8 as well as to address issues of international drug
9 trafficking and to assure the availability of
10 legitimate drugs for medical use.

11 The CSA established five schedules and
12 level of control, C1 through 5. The major drug
13 classes that are regulated by the CSA are the
14 opioids, depressants, stimulants, and
15 hallucinogens.

16 [Slide.]

17 Under the CSA, Schedule I is the most
18 restrictive. It is reserved for drugs with the
19 highest abuse potential and no recognized medical
20 use. Examples of drugs within this class include
21 heroin and LSD.

22 Schedules II through V are used for drugs
23 that have medical use in the United States and
24 have, in descending order, levels of abuse
25 potential and restrictiveness, II being the highest

1 of medically approved drugs and V the lowest.

2 [Slide.]

3 The subject of today's meeting, of the
4 two-day meeting, are, of course, the Schedule II
5 opioid analgesics. Now, these drugs have the
6 highest potential for abuse. Abuse potential is
7 defined under the CSA, placement in Schedule II,
8 means the risk is comparable to that of CI drugs.
9 The distinction again is the medical use.

10 Thus, these drugs are subject to the
11 highest level of control and, by definition, pose
12 the greatest risk to the public health.

13 [Slide.]

14 I think, as Dr. Galson suggested, that we
15 have to look at the use of any drug, but certainly
16 the Schedule II opioid analgesics in the context of
17 the larger healthcare system and the society.

18 Certainly, healthcare, the society have
19 changed dramatically since enactment of the CSA.
20 Advances in science, medicine, pharmacotherapeutics
21 information have changed, and it can be argued that
22 what was previously relatively limited, acute
23 disease, often terminal, has been transformed into
24 chronic illness. Thus, the CII drugs, the opiate
25 analgesics, which 30 or 40 years ago, the use was

1 primarily confined to the hospital setting, the
2 operating room, and the inpatient ward, have been
3 moved, as has much medical care, into the
4 outpatient setting.

5 [Slide.]

6 The Schedule II opioid analgesics that we
7 are primarily concerned with, oxycodone, morphine,
8 fentanyl, hydromorphone, again are all Schedule II
9 under the CSA.

10 Now, the Schedule II designation applies
11 to all strengths and dosage forms of each drug.
12 The Controlled Substances Act and the scheduling
13 designation does not differentiate between a 5 mg
14 oxycodone and a 160 mg OxyContin, between an
15 injectable hospital use fentanyl formulation and
16 the 2 mg patch. A morphine 5 mg tablet is the same
17 Schedule II as the methylphenidate 5 mg tablet.

18 Schedule II, thus, encompasses a broad
19 range of drug dosages and potency, and as we will
20 see, a broad range of drug classes.

21 [Slide.]

22 Now, this figure is intended to illustrate
23 the range of drug classes, as well as dosages and
24 formulations. As you can see, the opiates on the
25 left are all in yellow, the barbiturates are in

1 lavender, and the stimulant drugs, on the right,
2 are in red. Again, we can see that there are
3 intravenous, transdermal, oral formulations in the
4 opiate class, and that the range of strengths is
5 quite large.

6 [Slide.]

7 Just for comparison, looking at the range
8 of drugs controlled under Schedules III through V,
9 we see that some of the less potent opioids, also
10 in yellow here, are placed in Schedules III, IV,
11 and V, and that depressants, stimulants, and other
12 drugs, again a range of pharmacologic classes, are
13 controlled under Schedules III through V.

14 [Slide.]

15 What does it mean for a drug to be
16 controlled under Schedule II? Again, the DEA will
17 go into this in much greater detail, but from our
18 perspective, manufacturing quotas are established
19 by the DEA with input on medical need from the FDA.

20 Distribution is tracked. There are import
21 and export controls, prescribers and dispensers of
22 Schedule II drugs must be registered, and Schedule
23 II designation does not permit refills. That is a
24 federal law, will not vary across states.

25 [Slide.]

1 What Schedule II does not require:
2 physician or practitioner education, limits on the
3 drug quantity prescribed or dispensed, nor does the
4 CSA make any provision for or Schedule II
5 designation mean that there will be any
6 prescription monitoring.

7 [Slide.]

8 This is a schematic of all the parties
9 that play a role in the regulation of controlled
10 substances. The two federal agencies that FDA, in
11 the left lower corner, and the DEA, with the Scales
12 of Justice in the middle, both regulate the
13 manufacture in the upper left corner.

14 The FDA, of course, is responsible for
15 drug review, approval, and labeling. The DEA
16 established quotas and registers manufacturers.
17 Both federal agencies have responsibilities with
18 respect to different aspects of inspection and
19 compliance.

20 The state regulatory authorities, which
21 are represented by the multicolored figure of the
22 country--there is no significance to my knowledge
23 of the particular color scheme, it is provided by
24 Microsoft--state regulatory authorities regulate
25 prescribers and dispensers through licensure.

1 The DEA also licenses prescribers and
2 dispensers. We can see that patients and the
3 community, represented in the right lower corner,
4 and I have shown this with a dotted line because
5 they are, in fact, not regulated. Prescribers and
6 dispensers interact with the patients and the
7 community, but essentially, they are out of the
8 regulatory loop, that is, the federal and state
9 regulatory loop.

10 [Slide.]

11 Again, just to briefly compare and
12 differentiate DEA's role from FDA's role and the
13 state role. DEA registers drug manufacturers,
14 establishes quotas, and registers dispensers and
15 prescribers. It does not have a role in prescriber
16 education, any knowledge assessment of the
17 registered prescribers or dispensers, and it does
18 not ensure active surveillance.

19 [Slide.]

20 The FDA role, of course, again is to
21 approve drug products and assure safety and
22 effectiveness, as Dr. Galson described. The
23 primary method for the Agency to communicate
24 information to prescribers and dispensers is the
25 drug label.

1 The FDA is also responsible for
2 postmarketing safety and phamacovigilance. It is
3 very important to note that the Food, Drug, and
4 Cosmetics Act does not distinguish between
5 controlled and other drug products.

6 [Slide.]

7 The State's role is primarily achieved
8 through boards of pharmacy and medicine, that is,
9 they are the primary regulators of physicians and
10 pharmacy practice.

11 States may impose additional drug controls
12 beyond that of the CSA. Authority, regulations,
13 practices, and resources, however, vary enormously
14 across states.

15 [Slide.]

16 Prescription drug monitoring programs have
17 been introduced over the past 15 years or so as a
18 regulatory tool for the states. They are under the
19 purview of the states, there is no national
20 program, and their goal is to reduce illicit use of
21 prescription drugs through deterring and
22 identifying so-called doctor shopping, that is,
23 when patients obtain medications from multiple
24 physicians simultaneously, illicit sales of
25 prescriptions and drugs, and forged prescriptions.

1 Prescription drug monitoring programs--and
2 I should note the members of the Advisory Committee
3 did have the General Accounting Office report on
4 PDMPs included in your background materials--these
5 programs collect, review, and analyze prescription
6 data from pharmacies.

7 These programs have varied structures,
8 very varied resources. In 2001, there were 15
9 states that had active PDMPs. I believe one
10 additional state has come on line in 2003. They
11 vary whether they are electronic or paper, whether
12 it's a database that can be queried or whether
13 there is more active ongoing surveillance.

14 [Slide.]

15 Again, this schematic just to remind us of
16 the parties that have a role in the regulation of
17 controlled substances, and again that the patients
18 and the community are mostly out of the regulatory
19 loop.

20 [Slide.]

21 So, where do we stand on the issues of
22 risk management, drug scheduling, and the CSA? I
23 think we can see that scheduling under the
24 Controlled Substances Act does not manage all the
25 risks of misuse, abuse, and overdose of

1 prescription drugs.

2 Drug scheduling alone cannot address all
3 the challenges posed by the high-dose,
4 extended-release opioid analgesics in the context
5 of the modern healthcare system, and it is
6 important to remember again that Schedule II
7 designation does not distinguish between high-dose,
8 high- potency opioids and low-dose,
9 immediate-release Schedule II drugs.

10 Thank you, and I guess I also have an
11 opportunity for some questions.

12 DR. KATZ: Any questions?

13 [No response.]

14 DR. KATZ: Thank you very much.

15 I would now like to introduce Terrance
16 Woodworth from the Drug Enforcement Administration,
17 who will be speaking with us about the DEA's Role
18 in the Risk Management of Opioid Analgesics.

19 FDA's Role in the Risk Management of
20 Opiate Analgesics

21 MR. WOODWORTH: Well, it is much too early
22 for this slide. Good morning.

23 Thank you very much for the opportunity to
24 express some of the views of the Drug Enforcement
25 Administration concerning the legal framework that

1 DEA and FDA operate under together in order to
2 fulfill our mandate to protect the public health
3 and safety.

4 Although very beneficial in the treatment
5 of pain, recently approved potent high-dose,
6 extended-release opioids, coupled with aggressive
7 and persuasive marketing practices, have brought
8 new and unique challenges to our agencies.

9 Dating back to the passages of the Federal
10 Food, Drug and Cosmetic Act in 1906, the United
11 States Congress recognized the critical importance
12 of indicating the proven uses of prescription drugs
13 for legitimate medical needs. It signaled its full
14 recognition of the abuse potential of certain
15 prescription drugs in 1914, when it passed the Harrison
16 Narcotic Act regulating the sale of
17 opiates for the first time.

18 Additional drug legislation over the years
19 including the Controlled Substances Act has become
20 part of Title 21, Food and Drugs. With this,
21 Congress has indicated its full expectation of a
22 cooperative, coordinated interagency process of
23 reviewing a substance and its drug products,
24 assessing that drug's safety and efficacy, and
25 identifying whether it has an abuse potential

1 before permitting its marketing to the public.

2 FDA and DEA have collaborated extremely
3 well in this regard for more than 30 years.

4 It is important to note that there are
5 significant differences between the Controlled
6 Substances Act and the Food and Drug Cosmetic Act
7 with regard to drugs. One of the most fundamental
8 is that the CSA and its controls focus on
9 substances, morphine, oxycodone, where the FDCA
10 focuses on products, MS-Contin, Percodan, Adderall.

11 The Controlled Substances Act places all
12 substances with abuse potential into one of five
13 schedules based on accepted medical use, potential
14 for abuse, safety, or dependence liability.

15 Schedule I is for those with no accepted
16 medical use, such as heroin. Substances with
17 accepted medical use are in Schedules II through V,
18 II being the most restrictive, V being the least
19 restrictive.

20 When a substance is already in Schedule II
21 of the Controlled Substances Act, and Schedule II
22 controls are not sufficient, we must look outside
23 the Controlled Substances Act for additional
24 mechanisms to prevent diversion and abuse.

25 The substances that we are addressing

1 today and tomorrow are all Schedule II substances
2 under the Controlled Substances Act, thus, there
3 are no opportunities for increased levels of
4 control under the CSA.

5 The FDCA, on the other hand, can address
6 product (or class of product) safety needs on a
7 product-by-product basis.

8 In all candor, DEA has not been able to
9 address all of the criminal activity associated
10 with high-dose, extended-release opioids in recent
11 years. Compounding this difficulty are the
12 indications that FDA's risk management plan for at
13 least one extended-release opioid has not proven
14 effective.

15 Segments of the pharmaceutical industry in
16 certain cases have exceeded traditional drug
17 promotion boundaries and been a significant factor
18 in the increased abuse and diversion. State
19 medical boards are unable to regulate the
20 increasing numbers of dated, duped, disabled, and
21 dishonest practitioners, and physicians themselves
22 acknowledge a need for further information and
23 education concerning pain management and the use of
24 opioids.

25 The CSA includes seven major control

1 mechanisms: scheduling, registration, quotas,
2 records and reports, import and export
3 authorizations, security, and investigational
4 authority.

5 DEA essentially controls the drug and its
6 movement. We register all persons who handle
7 opioids, we inspect the documentation of opioid
8 distribution, we control and import and export. We
9 control the amount produced, bought, sold, or
10 otherwise transferred.

11 One would think with all these controls in
12 the so-called closed system of distribution that
13 there would be minimal risk of abuse and diversion.
14 These controls have been extremely effective in
15 preventing diversion at the import or manufacturer
16 and distributor levels, however, the vast majority
17 of diversion occurs at the retail level once the
18 product is in the hands of practitioners and
19 patients.

20 Significant weaknesses in two of the
21 controls, quotas and investigational authority have
22 contributed to the increases in abuse and
23 diversion.

24 With regard to investigational authority,
25 it is estimated that more than 90 percent of the

1 diversion occurs at the doctor/pharmacy level,
2 however, at this retail level, it is primarily the
3 states and the professional boards responsibility,
4 not DEA, to regulate and oversee controlled
5 substances activities. DEA is not directly
6 involved in the establishment of medical or
7 pharmacy standards, nor are we directly involved in
8 the regulation or investigation of medical or
9 pharmacy practice.

10 DEA investigates physicians who are acting
11 outside the norms of accepted medical practice,
12 thus, the responsibility at the retail level for
13 controlled substances rests, in general, with a
14 wide array of different state and medical and
15 pharmacy boards.

16 [Break due to power failure.]

17 DR. KATZ: Our break seems to be finished,
18 so we will continue.

19 Mr. Woodworth.

20 MR. WOODWORTH: Well, a lot of people have
21 said DEA is in the dark on these issues, but that
22 is a little bit much.

23 [Laughter.]

24 MR. WOODWORTH: In evaluating a
25 physician's or a pharmacist's activities relating

1 to the management of pain and the use of opioids,
2 the state boards rely heavily on the FDA approved
3 labeling for opioids, as do physicians themselves.

4 FDA-approved labeling provides guidance to
5 the medical community regarding conditions for safe
6 use, as well as providing safety and other
7 warnings. Labeling and risk management plans have
8 a direct impact on the extent of abuse and
9 diversion of opioids, but DEA has no statutory
10 authority to participate in the development of the
11 labeling or risk management plans except for our
12 role in scheduling, as Dr. Leiderman mentioned.

13 At present, under Section 201(f), when HHS
14 receives a New Drug Application for a stimulant,
15 depressant, or hallucinogenic drug, and the drug
16 appears to have an abuse potential, HHS is required
17 to forward that information to DEA for scheduling
18 purposes. For substances already in Schedule II,
19 DEA has no authority to require additional
20 controls.

21 The key to having the ability to further
22 deter and prevent abuse and diversion becomes the
23 labeling of new formulations of already controlled
24 substances. When FDA-approved labeling indicates
25 that extended-release forms of opioids may have

1 less abuse liability, as was the case with
2 OxyContin, this significantly affects decisions of
3 physicians to prescribe a drug, as well as the
4 medical board's action in reviewing a physician's
5 activities.

6 With regard to quotas, DEA and FDA are
7 responsible for ensuring an adequate and
8 uninterrupted supply of opioids for medical,
9 scientific, and research needs of the United
10 States. We accomplished this by establishing
11 quotas for the total quantity of each basic class
12 of controlled substances, oxycodone, for example,
13 which may be manufactured in the United States on
14 an annual basis.

15 The purpose of the quota system is to
16 limit the availability of legitimately manufactured
17 controlled substances which may be diverted into
18 the illicit market. Increased availability and
19 access to controlled substances are direct causes
20 of abuse and diversion.

21 Quotas are established considering sales
22 from the previous year, estimates of year-end
23 inventory, and estimates of legitimate medical
24 needs in the future provided to DEA by FDA.

25 On the surface, the quota system appears

1 to be an effective means of limiting the supply of
2 opioids to what is legitimately needed for medicine
3 and science in this country. After all, the drugs
4 have been approved for safety and efficacy, and the
5 pharmaceutical manufacturers have been through a
6 rigorous FDA and DEA approval process.

7 However, both DEA and FDA are receiving
8 the using incomplete information regarding what
9 actually are the legitimate medical needs for
10 opioids in this country. Again, legitimate medical
11 need is largely determined by sales.

12 Sales are prescriptions, all prescriptions
13 for extended-release, high-dose opioids are counted
14 in the total sales figures to establish quotas
15 regardless of whether those prescriptions were
16 illegal, indiscriminate, or inappropriate.

17 How can the estimates of legitimate
18 medical needs for extended-release, high-dose
19 opioids be based on totals that include
20 illegitimate sales, and what is the volume of those
21 illegitimate sales?

22 Quotas can help limit the amount of
23 substance that can be manufactured in a year, but
24 quotas, nor any other control mechanism, can ensure
25 that correct amounts of medicine get to the correct

1 people for the correct indications.

2 It is reasonable to expect that increasing
3 availability of most, if not all, Schedule II
4 opioids will be associated with a commensurate
5 increase in diversion and abuse.

6 Finally, we get to the slides.

7 [Slide.]

8 Data available to DEA - aggregate
9 production quotas, year-end reports, or
10 distribution data to the retail level and IMS
11 retail provider perspective, which are purchases at
12 the retail level - show a consistent increase in
13 availability for morphine, hydrocodone, and
14 oxycodone over at least the past eight years.

15 [Slide.]

16 When availability data, as measured by
17 total prescriptions, is compared to Drug Abuse
18 Warning Network emergency department episodes for
19 the same substances, it appears there is not only
20 an increasing abuse, but increasing rates of abuse.
21 This is particularly true for oxycodone since the
22 introduction of OxyContin.

23 There are several factors that we believe
24 have contributed to the incomplete and unreliable
25 information that DEA and FDA are using as a basis

1 for prescribing and ultimately determining
2 legitimate medical need.

3 These factors have led to increased
4 availability and that has made diversion easier and
5 abuse more prevalent.

6 First, the initial labeling for OxyContin
7 allowed great latitude for prescribing, promotion
8 and marketing of this substance.

9 It is indicated, as you know, for moderate
10 to severe pain. This allowed for the promotion of
11 the product as a substitute for products such as
12 Tylenol with codeine, Darvocet, Vicodin, and other
13 Schedule III and IV products.

14 The labeled indications also allowed for
15 considerable interpretation regarding its use in
16 acute versus chronic pain, postoperative pain, and
17 other situations. It also supported promotion to
18 all types of practitioners, particularly family
19 practitioners and internists, not all of whom are
20 appropriately trained in pain management and the
21 use of these relatively new and unique products.

22 It was not described as a "potent" opioid
23 analgesic as was morphine in the MS Contin
24 labeling. This and other parts of the labeling did
25 not convey the message that OxyContin was to be

1 treated as cautiously as MS Contin.

2 In describing the dependence, the term
3 "psychological dependence" was omitted for
4 OxyContin, but not for MS Contin.

5 The labeling also stated that
6 controlled-release opioids were believed to have
7 less abuse liability.

8 Second, unusually aggressive and
9 persuasive marketing and promotion techniques used
10 by manufacturers and their sales personnel.

11 DEA has obtained and evaluated data on the
12 promotion of six high-dose, controlled-release,
13 Schedule II narcotic analgesics presently marketed
14 in the United States - OxyContin, Duragesic, MS
15 Contin, Kadian, Oramorph, and Avinza.

16 The data shows that there is a positive
17 correlation between the amount of money spent on
18 promotional activities and the amount of sales and
19 prescriptions. Those companies spending the most
20 money generally have the most sales.

21 By far, more money has been spent on the
22 promotion of OxyContin, as you can see in this
23 slide, than the other products combined. There is
24 nothing wrong with promoting a drug product in the
25 proper context. Unfortunately, we believe that the

1 initial labeling allowed this product to be
2 promoted for too large a range of conditions, to
3 those physicians not adequately trained in pain
4 management, and without the proper warnings about
5 its abuse potential.

6 The data reviewed show the scope of
7 medical specialty groups was widest for OxyContin.
8 There was less emphasis on promoting to
9 "traditional" pain specialty groups.

10 For example, in 2000, anesthesiologists
11 received the most promotion dollars for Actiq,
12 Avinza, Kadian, and MS Contin. Promotion for
13 Duragesic was highest for internal medicine, with
14 anesthesiologists second.

15 In the case of OxyContin, family
16 practitioners and internists were in first and
17 second positions respectively. In addition, more
18 money was spent promoting OxyContin to nurse
19 practitioners, physician assistants, and general
20 practice doctors than the entire promotional
21 dollars spent on Kadian, Oramorph, or Avinza.
22 Unfortunately, these medical groups are not pain
23 specialists.

24 Finally, we examined the message given to
25 these medical groups. IMS Message Insight monitors

1 the messages being conveyed to physicians and
2 actually provides summaries of the physicians'
3 impressions of the sales contact.

4 Here, there are subtle differences, but
5 significant, between OxyContin and Duragesic. No
6 data was available for the other high-dose products
7 except very limited comments for MS Contin.

8 The primary message that physicians
9 received regarding Duragesic was that it should be
10 used for chronic pain management. The few mentions
11 for MS Contin also indicated that it was being
12 promoted for chronic pain treatment. Physicians
13 heard a far different message regarding the
14 appropriate use for OxyContin.

15 These factors present serious obstacles to
16 both DEA and FDA in our attempts to determine
17 legitimate medical need, establish appropriate
18 quotas, and conduct successful investigations. The
19 result is our lack of success in preventing abuse
20 and diversion of extended-release, high-dose
21 opioids.

22 We have found that where companies have
23 instituted voluntary risk management plans, and in
24 those situations in which FDA has required them,
25 the results have been encouraging in preventing the

1 excess availability, diversion, and abuse of these
2 products.

3 We are also aware that the labeling for
4 OxyContin has been changed to address some of the
5 above concerns. Our question is would it not be
6 more effective, considering the severe potential
7 for abuse, diversion, physical and psychological
8 dependence posed by these never-before-produced,
9 high-dose, extended-release opioids, to start a
10 little slower and more cautiously with a greater
11 regard for patients?

12 It is far more reasonable to focus on
13 patients whose needs for these drugs are already
14 unquestioned by healthcare, regulatory, and law
15 enforcement authorities.

16 In conclusion, what does DEA think will
17 help? DEA believes that a mandatory risk
18 management plan for these high-dose,
19 extended-release products should include:

20 Some form of restriction on the
21 distribution and/or dispensing of these products;

22 Secondly, limit the indications to severe
23 pain or certain disease states, or only in certain
24 situations where other Schedule II opiates have
25 failed;

1 Three, review and approve all promotional
2 material in advance;

3 Prominent warnings, such as the current
4 Black Box on Actiq and OxyContin;

5 Postmarketing surveillance for monitoring
6 the adverse events, diversion, and abuse for
7 several years;

8 Physician, pharmacist, and patient
9 education regarding the proper use and adverse
10 effects of potent, high-dose, extended-release
11 opioids.

12 DEA and FDA have worked extremely closely
13 for decades on all controlled substances issues,
14 but we are continuing to do so at a much closer and
15 active pace with regard to extended-release,
16 high-dose opioids.

17 We are collaborating on many issues
18 including, as Dr. Leiderman mentioned, physician
19 education, prescription monitoring programs, as
20 well as in the area of risk management as far as
21 DEA is able to go.

22 Our goal, together, at DEA and FDA, is to
23 limit the diversion and abuse of opioids and at the
24 same time ensure that the American public has an
25 adequate and uninterrupted supply of opioids for

1 legitimate medical needs.

2 We do feel that we should limit the
3 production, distribution, and access, promotion,
4 and, of course, the labeling for these high-dose,
5 extended-release opioids, and we should only
6 gradually expand patient access as our system of
7 standards and controls prove capable of providing
8 for the appropriate treatment of patients by
9 knowledgeable practitioners for accepted medical
10 purposes.

11 We should not unlock the safeguards until
12 we can adequately defend against abuse and
13 diversion. The undertreatment of pain in this
14 country and throughout the world is not a valid
15 reason to wantonly increase production,
16 availability, access to this select group of drugs
17 that can significantly harm the public health and
18 safety.

19 Government approval of a drug does not
20 guarantee its safe use, you heard that earlier.
21 When a potent, government-approved drug is
22 aggressively promoted with incorrect messages about
23 its use and indications and its legitimate medical
24 need, it becomes an unsafe drug.

25 The result of such action by a drug

1 manufacturer, further aggravated by the drug's
2 deliberate misuse and abuse in the illicit market,
3 is a serious issue bearing on the American public
4 health and safety.

5 With that, I see my yellow light is on and
6 I will take any questions you may have.

7 DR. KATZ: Thank you, Mr. Woodworth.

8 Are there any questions from around the
9 table for Mr. Woodworth? Bob.

10 DR. DWORKIN: Yes. You had mentioned that
11 90 percent of the diversion occurs from the
12 pharmacy onwards in the supply chain.

13 Does the DEA have any data about what
14 percent of that 90 percent occurs at the level of
15 the pharmacy and what percent of the diversion
16 occurs after a valid prescription has been filled,
17 because those are two very different contacts, of
18 course?

19 MR. WOODWORTH: That is an excellent
20 question and extremely difficult conclusion to
21 draw. What we have been able to do with the
22 American Medical Association over the years is
23 estimate, with regard to physicians, that 1 1/2 to
24 2 percent of physicians are dishonest, and another
25 5 percent are negligent.

1 So, then you are talking about 7 percent
2 of the physicians. There about a million
3 physicians registered with DEA in the United
4 States. So, while that is an extremely low
5 percentage, meaning that most doctors are good,
6 law-abiding physicians, 7 percent of a million is
7 70,000, 70,000 physicians can account for a lot of
8 illegal prescriptions and millions of dosage units.

9 With regard to diversion at the pharmacy
10 level, most of DEA's activities have been as the
11 result of criminal investigations, and the cases we
12 make on pharmacies are usually associated with a
13 physician's activities.

14 So, frequently, if there is a bad doctor
15 in a town, there is one or two or three pharmacies
16 that are not adhering to their corresponding
17 responsibility to ensure that that prescription is
18 issued for a legitimate medical need.

19 So, in order to shortly answer your
20 question, I think the answer is there is more
21 doctors that we have had situations interact with
22 than pharmacies, and certainly there is a larger
23 number of doctors than there are pharmacies. It is
24 about 60,000 pharmacies in the United States.

25 DR. KATZ: Dr. Shafer.

1 DR. SHAFER: Thank you. A couple of
2 questions, but the main one is, looking at your
3 slides, you have equated DAWN emergency department
4 mentions assays surrogate for drug abuse.

5 Certainly in the excellent package that we
6 were provided prior to this meeting, there is quite
7 a bit of discussion about the DAWN database, but it
8 wasn't clear from anything that I saw in that
9 packet that emergency department mentions in the
10 DAWN database was actually a surrogate for abuse.

11 Can you comment on that, please?

12 MR. WOODWORTH: It is clearly an
13 indicator. We feel comfortable using DAWN, not
14 only because of its history of use, the use of
15 emergency department mentions as an indicator of
16 abuse, but it corresponds with all of the other
17 data that DEA has, our federal investigations, our
18 investigations of our state and local counterparts.

19 I have just thrown up a slide of our state
20 and local seizures. This is called the National
21 Forensic Laboratory Information System. There is
22 about 300 forensic labs in the United States. They
23 submit data to a database and it is collated.

24 As you can see, in red, is oxycodone, and
25 in kind of a yellowish is hydrocodone. Those two

1 substances account for more than 70 percent in the
2 last three years of all of the state and local law
3 enforcement forensically analyzed exhibits, which
4 is again a strong indication of what law
5 enforcement is encountering on the street.

6 They are all indicators that are used
7 together, so I feel comfortable drawing that
8 conclusion.

9 DR. KATZ: I believe Dr. Strom was next.

10 DR. STROM: Thanks. Can you share with
11 us, do you have a sense of what proportion of
12 prescription opiates get diverted and, conversely,
13 what proportion of illicit drug use comes from
14 diverted prescriptions?

15 I am trying to get a sense of how big is
16 the diversion problem relative to other sources of
17 abused drugs.

18 MR. WOODWORTH: I am unable to quote
19 precise statistics, but if you look at all of the
20 accepted indicators, in addition to the DAWN
21 emergency department mentions, the now National
22 Household Survey, again, our National Forensic
23 Laboratory Information System, other surveys and
24 studies, the indications are that prescription drug
25 abuse has been increasing for the last decade or

1 so, and the abuse and diversion of prescription
2 opioids has increased at a greater rate.

3 DR. KATZ: Because of scheduling issues,
4 we are going to have to curtail the discussion now.
5 We will have time to interact with our DEA
6 colleagues and also hear more material presented
7 from them later in the day.

8 Let me thank Mr. Woodworth for coming by
9 and hopefully, they will stick around for more
10 questions later.

11 We are having a slight detour in our
12 schedule now which I would like to describe for
13 you. We are actually scheduled for a break, but we
14 are not going to do that. As I mentioned earlier,
15 we would have a number of open public hearings
16 during the two days of our meeting, and we are
17 going to have a portion of our open public hearing
18 now because two representatives from Congress are
19 here to share some thoughts with us about this
20 issue.

21 So, this is part of the open public
22 hearing and, as such, I am required to read the
23 following statement by the FDA, which I will read
24 before this section of the open public hearing and
25 later in the afternoon when we have an open public

1 hearing and tomorrow when we have the same thing.

2 So this is the general statement about financial
3 disclosure and conflict of interest.

4 Both the Food and Drug Administration and
5 the public believe in a transparent process for
6 information gathering and decisionmaking. To
7 ensure such transparency at the open public hearing
8 session of the Advisory Committee meeting, FDA
9 believes that it is important to understand the
10 context of an 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 any company or any group that is
16 likely to be impacted by the topic of this meeting.
17 For example, the financial information may include
18 a company's or a group's payment of your travel,
19 lodging, or other expenses in connection with your
20 attendance at the meeting.

21 Likewise, FDA encourages you, at the
22 beginning of your statement, to advise the
23 committee if you do not have any such financial
24 relationships. If you choose not to address this
25 issue of financial relationships at the beginning

1 of your statement, it will not preclude you from
2 speaking.

3 So, once again, that is a general
4 statement that I will read before all of the open
5 public hearings.

6 Open Public Hearing

7 DR. KATZ: Now, it is my privilege to
8 introduce Congressman Harold Rogers, who will be
9 sharing some thoughts with us about risk management
10 programs for opioid analgesics.

11 Congressman Rogers.

12 MR. ROGERS: Thank you, Mr. Chairman.

13 I have no financial interest. The only
14 interest I have is that we have a lot of young
15 people who are dying in my district because of
16 addiction to OxyContin.

17 This is truly a life and death question
18 that the Advisory Committee is undertaking here. I
19 want to tell you about a couple of those types of
20 cases that I have endured in my part of Kentucky.

21 Before I do that, however, Frank Wolf,
22 Congressman Wolf and I were just chatting. Perhaps
23 you can help me. I am trying to think of the
24 mythological figure, the captain of the ship that
25 was so enticed and excited by the sirens on

1 short--who is it? Ulysses. You get an A.

2 He was so excited that he had his crew
3 strap him to the mast of the ship as they sailed
4 past the place where the sirens, the beautiful
5 women on shore were enticing him. It reminds me a
6 little bit of the enticement of this wonderful drug
7 OxyContin, which has meant so much to people in
8 severe pain, that has been abused by users, by
9 doctors, by companies, by pharmacies to the point
10 that we are toying with a severe problem.

11 Frankly, this is the most devastating
12 thing that I have seen in my more than 22 years now
13 in the U.S. Congress, in my district. I have never
14 seen anything like this. This drug is tearing
15 apart families, it is ruining lives, it is
16 stretching the resources of law enforcement and
17 social service agencies to the absolute limit, and
18 it has actually reached epidemic proportions in my
19 district, which is southeast Kentucky.

20 In fact, we have become the prescription
21 painkiller capital of the United States. An
22 analysis of federal drug data found that on a per
23 capita basis, our drugstores, hospitals, and other
24 legal outlets receive more prescription painkillers
25 than anywhere else in the nation.

1 From 1998 to 2001, nearly half a ton of
2 narcotics reached seven small mountain counties.
3 That is the equivalent of more than 3,000
4 milligrams for every adult who lives there. A
5 typical pill might contain 10 to 20 milligrams.

6 A lot of this medication obviously is for
7 legitimate purposes, too much of it is not. These
8 drugs are hitting the streets, they are leading to
9 addiction, crime, death. A public defender in one
10 of my countries, Perry County, a small mountain
11 county in my district, this public defender
12 estimated that 95 percent of his clients either
13 sell or abuse prescription drugs.

14 Because of this epidemic, our courts are
15 unable to keep up with this overwhelming pace of
16 new crimes. An eastern Kentucky court, the court
17 dockets are jammed with these drugs cases. In
18 recent years, charges for controlled substances
19 have jumped 348 percent.

20 Our residential drug treatment centers are
21 overwhelmed, admissions tripling since 1998. A
22 Prestonsburg, Kentucky drug treatment program
23 director reports that the new patients, most of
24 whom are hooked on OxyContin, are younger and
25 sicker than ever, and they are dying.

1 Nationwide, according to the statistics,
2 OxyContin played a major role in 464 overdose
3 deaths in the nation between May of 2000 and
4 February of 2002. A quarter of these occurred in
5 Kentucky and Virginia alone, and most of them were
6 young people who were not in severe pain when they
7 first were prescribed this medicine.

8 Thus, the question, should we restrict the
9 use of this wonderful drug to those in severe pain
10 or just moderate pain, a toe ache, a toothache, a
11 broken arm? Ulysses.

12 Let me tell you about two of these people,
13 thus, my motivation. Congressman Wolf is the
14 Chairman of the Commerce Justice State Subcommittee
15 on Appropriations, the committee that I formerly
16 was chairman of.

17 Our two states have been impacted severely
18 by this problem, and we first were attracted to the
19 problem a couple or three years ago, and had a
20 hearing. I bought up to that hearing from my
21 district, a preacher whose son had become addicted
22 to OxyContin, and the preacher testified, and he
23 had his son with him, who was at the time I think
24 21 or so.

25 The son never testified. He sat beside

1 his father while his father described I think it
2 was an automobile accident he had been in, the
3 young man, and had been prescribed OxyContin and
4 became absolutely, hopelessly addicted. He would
5 do anything to get the drug - steal, cheat, lie, to
6 name just a few.

7 The father was absolutely devastated
8 obviously by the predicament of his son. Finally,
9 he was able to find in Indiana, I think it was, a
10 church-affiliated or church-related treatment
11 center that was able finally to take the son in, in
12 an attempt to defeat this addiction.

13 This was the substance of the testimony of
14 Reverend Coots before the Subcommittee, the son
15 sitting beside him, I will never forget the sight,
16 because two or three months later, the young man
17 overdosed and died.

18 Now, the father, the preacher heads up a
19 group that he formed himself called Joshua's
20 Promise. Joshua was his son's name. Now, he
21 raises money and takes in people like Joshua into
22 this center there in the mountains to try to help
23 them defeat this insidious addiction.

24 The other death I want to tell you about
25 is of a close personal friend of mine who happened

1 to have been the sheriff of my home county, Pulaski
2 County. He was assassinated by a crazed young man
3 hiding in the forest adjacent to a political picnic
4 the sheriff had attended with a sniper rifle, one
5 shot, instant death.

6 It turns out the shooter was on OxyContin
7 at the time. He was affiliated with a man who was
8 running for sheriff, against the sheriff, in a
9 political race, all of it financed, that man's
10 campaign financed by a drug dealer.

11 I had the duty to speak at the funeral of
12 Sheriff Sam Catrin, personal friend, wonderful
13 public servant, sheriff I think 17 years, named
14 Sheriff of the Year, a tremendous law enforcement
15 officer whose life and career snuffed out by a
16 OxyContin-addicted, crazed killer.

17 So, I say to the committee I don't envy
18 you your responsibility. This is a tough one. We
19 want to believe that our pharmaceutical
20 manufacturers do the right thing all the time.
21 There is a real question here about the practices
22 of overselling, overpromoting the use of OxyContin
23 to doctors, to pharmacies, to the public because
24 this drug is so enticing and so alluring that I
25 think you must tie us to the mast as we pass by

1 this very alluring drug and restrict its use to the
2 most severe cases, not to the broken fingers,
3 because it is so addictive, so addictive and so
4 devastating that we are killing our young people.

5 OxyContin has been overly aggressively
6 marketed especially to rural physicians, physicians
7 who don't have that much experience with severe
8 pain and the way pain medications should be
9 prescribed.

10 Two, OxyContin is defined as being for
11 moderate pain, and for that reason, it has become
12 too easily prescribed, too easily available
13 especially to young people who crush that 12-hour
14 time release mechanism to get the instant release.

15 Reverend Coots told our subcommittee that
16 his son told him that this drug was so wonderful
17 and the reason it was so addictive and so
18 pleasurable to the young man, he said it felt like
19 a constant orgasm. Thus, you can see the appeal of
20 this drug to especially young people.

21 Let me give you a few examples of what
22 corrupt doctors are doing in Kentucky. This past
23 September, a year ago, a doctor was arrested,
24 federal authorities, overprescribing. He had
25 prescribed on average 800 prescriptions a month.

1 What is most appalling in this case is
2 that the doctor actually expressed concern to his
3 colleagues about the amount of OxyContin he was
4 prescribing. Who else did he express his concern
5 to? His Purdue Pharma sales rep, who told the
6 doctor then, who happened to be a very top client
7 of his, the sales rep reassured him that he was
8 doing the right thing.

9 Another doctor in Kentucky prescribed more
10 than 2.3 million pills to more than 4,000 patients
11 over 101 days. Did you hear me? 2.3 million pills
12 to 4,000 patients over 100 days. It's a
13 drive-through prescription service.

14 Another doctor in Harlan County, Kentucky,
15 who is now serving 20 years on a federal drug
16 conviction, saw 133 patients in a day, in an office
17 without electricity. He has been prescribing
18 OxyContin and Viagra to teenage boys.

19 Now, we will take care of those doctors,
20 we will take care of them, don't you worry. DEA,
21 the other law enforcement agencies, local sheriffs,
22 police are overwhelmed, but they are getting to
23 them. That is not the real problem.

24 We have even started in my district a
25 program we call UNITE, Unlawful Narcotics,

1 Investigations, Treatment, and Education. We are
2 mobilizing the whole population to fight this
3 insidious problem. And you know what? People are
4 really excited about it.

5 We are going to bring in 30 new undercover
6 agents, the U.S. Attorney, the local prosecutors
7 are all plugged in. The State Supreme Court is now
8 setting up drug courts in every one of my 29
9 counties as a part of UNITE.

10 We are trying to mobilize all of the
11 treatment centers to try to give them new
12 ammunition, new monies, new possibilities, some
13 coordination, but they are overwhelmed. The State
14 has its prescription monitoring program called
15 KASPER.

16 Congressman Wolf inserted money in his
17 appropriations bill for the Justice Department over
18 the last two, three years, monies to help states
19 like Kentucky start prescription monitoring
20 programs and modernize them as we go. Those monies
21 are being used, but that is not enough.

22 So long as the FDA allows doctors and
23 endorses the practice of prescribing this insidious
24 but alluring addictive drug for a broken finger, we
25 will have this problem.

1 We cannot fight it on that end. It has
2 got to be fought at the source. The flood is too
3 great for us to deal with down there. It has got
4 to be dealt with where the huge amounts of these
5 drugs are being allowed to flow.

6 You must restrict, tie us to the mast,
7 restrict the use of this insidious, alluring drug
8 to severe pain and no more before it's too late.
9 This is a wonderful drug for people who need it. I
10 don't want it said that I don't want people in
11 severe pain to have access to this wonderful
12 released drug for severe and debilitating pain, but
13 its use has gotten out of hand.

14 It is causing death and destruction and
15 families are being rendered and torn apart. It is
16 not just in rural Kentucky now, it has spread
17 across the country, and unless you stop this now,
18 it will cause many more deaths and renderings of
19 parts of families.

20 I want to leave with you, Mr. Chairman, a
21 packet of materials. These are photocopies of the
22 stories that ran in the Lexington, Kentucky
23 newspaper, two different series, that were
24 absolutely accurate, as well as devastating in
25 their investigations into the problem in our state.

1 If you read these stories, you will have
2 no doubt. This will solve your perplexing question.
3 It is absolutely devastating especially the last
4 series that detailed how this company oversold this
5 product, the sales reps even telling the doctor, in
6 his notes after meeting with the doctor, saying to
7 the effect we must push these pills more.

8 I will leave this with you. Thank you.

9 DR. KATZ: Thank you, Congressman Rogers
10 for taking time to share your experiences with us.
11 I can assure you that we appreciate the serious
12 nature of the problems you are describing and we
13 will be struggling with them over the next couple
14 of days.

15 I would now like to introduce Congressman
16 Frank Wolf, who will also share his thoughts and
17 experience in this issue with us.

18 MR. WOLF: Thank you very much and I will
19 be very, very brief.

20 One, I want to thank you and thank the
21 Food and Drug Administration for conducting this
22 important review, and I share the comments of my
23 colleague, Mr. Rogers, on pain management drugs.

24 Let me begin by also emphasizing that I am
25 not here seeking to remove OxyContin from the

1 market. When used correctly, OxyContin serves an
2 important purpose in assisting those with
3 excruciating chronic pain or those who are
4 terminally ill. Both my mom and dad died of
5 cancer. My mom particularly suffered. I remember
6 at the Hahnemann Hospital, the doctor would just
7 say we have given your mom four hours ago and we
8 can't do it again, so I understand and I want to
9 make it clear that I am not trying to take this
10 drug away from people like that.

11 However, I believe that the Food and Drug
12 Administration and the Department of Health
13 Services have been slow to respond to the growing
14 problem related to drugs, such as OxyContin, which
15 have a darker side and can be highly addictive.

16 I am concerned that the powerful
17 painkiller has increased and become a drug of
18 choice for people who choose to abuse these drugs,
19 for people who have no legitimate need for the
20 painkilling drug.

21 FDA, I noticed, and you remember, moved
22 quickly to address the problems with the dietary
23 supplement Ephedra when a professional baseball
24 player died during spring training this year.
25 Where is the same urgency with OxyContin?

1 OxyContin's producer, Purdue Pharma, has
2 spent huge sums of hiring lobbyists, slick
3 high-paid lobbyists that are well connected to
4 powerful people in Washington, lawyers, lobbyists,
5 and spin doctors for a public relations and
6 marketing campaign to defend themselves and their
7 products.

8 But who represents the poor and the
9 suffering and the Joshuas and the people like that
10 who can't hire the big firms from New York and
11 Washington to come in and have direct access to the
12 prominent people who make decisions in this town?

13 I believe that some of that PR money could
14 have been better spent finding ways to stop
15 OxyContin abuse and save lives. OxyContin is
16 leaving a trail of broken lives, murder, suicide,
17 grieving families, and growing law enforcement
18 problems.

19 Kentucky, Tennessee, West Virginia, and
20 now my home state of Virginia have seen a spike in
21 the reports of OxyContin. Down in Lee County in
22 southwest Virginia, there is almost not a family
23 that has not been impacted, either someone is using
24 it, somebody has been robbed by it, somebody has
25 been arrested, that has not been impacted at all

1 because of OxyContin.

2 In northern Virginia, in my congressional
3 district, federal officials have now launched what
4 they call Operation Cotton Candy, which has
5 targeted between 60 and 80 people, who are believed
6 to be involved in the illegal distribution of
7 OxyContin.

8 Prosecutors claim that the amount of
9 OxyContin improperly prescribed by this network of
10 dealers is obscene. You probably have read the
11 story in West Virginia, a mother was charged with
12 trying to sell her young son, a mother, the
13 relationship with the young son trying to sell a
14 young son for \$500, so she could buy OxyContin.

15 Federal officials have said that no other
16 drug in the last 20 years has been so abused in
17 such a short period of time. More than a hundred,
18 several hundreds, 2-, 3-, 4-, now some say up to
19 500 people have died due to OxyContin.

20 Lives have been destroyed, and again
21 Ephedra, they moved quickly. Big-time ballplayer,
22 everybody knows his name, they moved. The Joshuas,
23 they do absolutely nothing for, and I remember that
24 hearing. The young boy had an electric blue
25 suitcoat on, a little bit out of style, but his dad

1 was so proud that he was there because he had gone
2 through this rehab program, and he thought he was
3 cured, and then as Hal said, several months later
4 the boy overdosed.

5 The FDA, and I believe all of you, and I
6 appreciate your service here, we have a
7 responsibility to do much more to look at why
8 OxyContin is being abused, why is it being abused,
9 how is it prescribed, what levels of pain require a
10 drug such as OxyContin, what steps must be taken to
11 halt the abuse of these drugs, so that people can
12 stop dying.

13 Again, I want to thank all of you for
14 taking the time. I also want to thank the
15 Commission, the Food and Drug Administration for
16 convening this. We stand ready, whatever
17 recommendations you make to try to help you, but
18 what you do today and what you do based on this
19 hearing, literally will be the difference of how
20 many more Joshuas and how many more Marys and how
21 many more families are destroyed, and I thank you
22 very much for what you are going to be doing.

23 DR. KATZ: Thank you, Congressman Wolf,
24 for sharing your thoughts with us.

25 We will take a 15-minute break.

1 [Break.]

2 DR. KATZ: It is a pleasure for me to
3 introduce our next speaker Dr. Art Lipman. Dr.
4 Lipman is going to be particularly valuable for us
5 today since he has been steeped in the development
6 of pain management guidelines including guidelines
7 surrounding opioid use for many decades and, in
8 particular, has been a leader in taking an
9 evidence-based approach to guideline development.

10 He has been involved with the AHCPR panels
11 and acute and cancer pain, has been a co-chair of
12 the American Pain Society Panel on Arthritis Pain
13 Management that produced guidelines, is on the
14 Clinical Practice Guidelines Committee at APS, and
15 Dr. Lipman will be speaking with us about the
16 risk:benefit relationship of opioids, and then
17 Steve Passik, in a subsequent session, will be
18 talking about the addiction piece of that
19 risk:benefit equation.

20 Dr. Lipman, please.

21 Opioid Risk:Benefit Contradiction

22 DR. LIPMAN: Thank you, Mr. Chairman, and
23 my thanks to the Committee and to the Division for
24 inviting me to come and present information today.

25 As Nat mentioned, my interest is the

1 evidence-based aspect, and I speak as an editor on
2 the Cochrane Collaboration, which as most of you
3 know, is the international collaboration based at
4 Oxford University on evidence-based medicine, and
5 we have a specific pain, palliative, and supportive
6 care group here that looks extensively at the issue
7 of opioids in an evidence-based manner.

8 [Slide.]

9 Let me just set the stage by this quote
10 from two of the leading pain researchers of the
11 world a number of years ago, the late Dr. John
12 Liebeskind of UCLA, and Dr. Ron Melzack of McGill,
13 who said they were "appalled by the needless pain,
14 freedom from pain should be a basic human right
15 limited only by our ability to achieve it." Now,
16 that was written in the year 1987, as you see.

17 [Slide.]

18 A decade later, this was the cover of U.S.
19 News & World Report, and as you see, it reads,
20 "Doctors have the means at hand to relieve the
21 suffering of millions of Americans, why aren't they
22 doing it?"

23 Then, in small print are the words, "New
24 science, old thinking."

25 Now, all of us in our professional

1 education and training learn from our mentors.
2 Unfortunately, much of what our mentors taught us
3 was not necessarily accurate, and as we take an
4 evidence-based approach to medicine, we recognize
5 that perhaps we have to refresh some of our
6 thinking.

7 [Slide.]

8 That is the reason that when Congress
9 mandated the writing of clinical practice
10 guidelines in the closing days of 1989, that when
11 Secretary Sullivan, Dr. Louis Sullivan then
12 Secretary of the Department of Health and Human
13 Services had the mandate to create clinical
14 practice guidelines, he immediately said he first
15 guideline that he was going to develop was in pain
16 because he got more calls from members of Congress
17 about pain management than any other health-related
18 problem on behalf of their constituents.

19 Now, this is a very serious issue. When
20 we convened in this city, actually, in Washington,
21 D.C. in August of 1990, we recognized that we could
22 not address in a single evidence-based document all
23 of the issues, but this document that was published
24 in 1992, entitled "Clinical Practice Guideline
25 Acute Pain Management," and then subsequently, the

1 panel was expanded from 16 to 25 members, this
2 document that was published in 1994 laid the basis
3 in the United States of America for evidence-based
4 care in the management of pain.

5 [Slide.]

6 Now, what is important is we didn't take
7 anecdote, we didn't take political perspectives, we
8 didn't take individual cases and try to generalize
9 them to the population, but we looked at the true
10 quality and quantity of the evidence.

11 [Slide.]

12 As Dr. Katz mentioned, just this past year
13 we published the American Pain Society
14 evidence-based guideline on the management of
15 osteoarthritis, rheumatoid arthritis, and chronic
16 juvenile arthritis pain using the same
17 evidence-based methodology.

18 I wish I had time to go into that
19 methodology at length, but it has been generally
20 accepted by the better people in the field as being
21 appropriate.

22 [Slide.]

23 Of course, the American Pain Society
24 publishes its well-respected booklet entitled
25 "Principles of Analgesic Use in the Treatment of

1 Acute Pain and Cancer Pain," and what nobody else
2 in this room knows now, but I will tell you, is
3 that at the end of this month, the Fifth Edition,
4 which we completed last month, will be published by
5 the American Pain Society, and it has a lot more
6 information on the use of opioids.

7 Now, what did all this evidence-based work
8 teach us? It taught us that opioids are important
9 therapeutic entities, but more importantly, it
10 taught us that very few clinicians, and I suspect
11 very few clinicians in this, and I speak as a
12 clinician and investigator in pain work for the
13 past three decades, very few understand the
14 seriousness of pain and why opioids need to be used
15 in an appropriate context.

16 [Slide.]

17 Indeed, when we convened in Washington in
18 1990 to be the federal panel, we were assigned a
19 team of research librarians from the National
20 Library of Medicine just up the street from where
21 we are sitting now, and the world literature
22 indicated the adverse outcomes of undertreated pain
23 are far more serious than most of us appreciated.

24 We were all experienced clinicians, we
25 were all experienced investigators. Not one of us

1 knew how serious pain is. The single biggest issue
2 physiologically is catabolism. We put patients
3 into a physiological state where they don't heal,
4 they are weak, there is muscle breakdown, and they
5 are predisposed to depression.

6 We see increased throwing of clots, we see
7 adverse respiratory, salt, water, renal,
8 cardiovascular effects.

9 [Slide.]

10 Beyond the physiological adverse outcomes
11 of undertreated pain are the adverse psychological
12 outcomes - anxiety, depression, sleep deprivation,
13 and the serious question why I am even alive.

14 [Slide.]

15 Perhaps most interesting, and we presented
16 more data on this at the American Pain Society
17 meetings last year, are the adverse immunological
18 effects of pain, work that was pioneered in Dr.
19 Liebeskind's lab showing decreased body host
20 defenses from pain.

21 Now, what does all this mean? If we are
22 going to advocate for the American public, the good
23 congressman said a few minutes ago who is going to
24 advocate for Joshua, I raised my hand. I am here
25 to advocate for Joshua. My son's name is Joshua,

1 it hit home. The issue is we have to look at the
2 science, and the science tells that we based
3 rational therapy on risk-benefit ratios.

4 Everyone knows that, but unless we
5 appreciate the risk of undertreated pain, we are
6 not going to get adequate therapy.

7 [Slide.]

8 Some of the elegant work done by Dr.
9 Charles Cleeland and his colleagues, Charlie is now
10 at M.D. Anderson, he was at Wisconsin when he did
11 this work, and, of course, Dr. Cleeland developed
12 the pain inventory with the 1 to 10 scale, well
13 validated, with zero being no pain, 10 is as bad as
14 you can imagine.

15 He actually quantified in a large series
16 of patients the impact on their ability to
17 function, functional outcomes, something the Agency
18 is very interested in, according to the pain
19 intensity.

20 Now, 1 to 3 is mild pain, 4 to 7 is
21 moderate pain, 8, 9, and 10 is severe pain. Look
22 at the impact. Ability to carry out activity,
23 ability to work normally, ability to enjoy life are
24 impaired at level 4, activity, mood, ability to
25 work and enjoyment of life at level 5, sleep,

1 activity, mood, ability to work, to enjoy life at
2 level 6. That is not severe pain, that's moderate
3 pain.

4 Moderate pain is a bigger problem in much
5 of American society than severe pain, because
6 anybody in this room who has ever had an aching
7 back for two or three days knows how that wears you
8 down emotionally, physiologically, you don't sleep,
9 and that is mild to moderate pain.

10 [Slide.]

11 Well, if we are going to look at this from
12 a scientific perspective, and look at risk:benefit
13 ratios, we have to recognize that the risk of pain
14 is often much greater than the risk of the
15 therapies that we are using.

16 There is an inherent risk in
17 pharmacotherapy. I have always told since I
18 started teaching medical students at Yale Medical
19 School in 1971, I said look around the room to the
20 third-year students in their first clinical
21 pharmacology exposure and said somebody in this
22 room is going to kill someone with a drug he or she
23 prescribes, but that doesn't mean we are not going
24 to use the medications.

25 Yes, there have been deaths, and, yes,

1 there will continue to be deaths. I strongly
2 contest the numbers that came there because I have
3 looked at some of the autopsy data and other issues
4 that come out, and as I am sure the scientists and
5 clinicians here know, many of those data are simply
6 not accurate the way that they are presented in the
7 newspaper and the public media.

8 There is an inherent risk and we must have
9 risk management, but we also have to look at the
10 risk of the alternatives to using opioids if we
11 don't have opioids available.

12 [Slide.]

13 Now, the major other systemic class of
14 medications that we are going to be using for
15 moderate pain are the nonsteroidal
16 anti-inflammatory drugs. We have those, we have
17 the opioids, and beyond that we have a whole bunch
18 of adjuncts that are very important, but we have
19 invasive procedures, and what is being used as an
20 alternative to opioids, invasive central nervous
21 stimulation, invasive implantation of catheters
22 into the central nervous system, areas where we
23 largely have no evidence to support efficacy, where
24 we have solid evidence for the opioids.

25 [Slide.]

1 Indeed, in 1998, the last year, before we
2 had COX-2 selective NSAIDs, looking at the reported
3 number of adverse drug events reported to the Food
4 and Drug Administration, we know that NSAIDs are
5 the number 1 category, we had over 125 million
6 prescribed opioids, and we had major gastroduodenal
7 and platelet toxicities resulting from these, which
8 mandates this warning from the Agency.

9 [Slide.]

10 We are all familiar with this. It is an
11 important warning. These drugs have real risk.
12 They are wonderful medications, I have never said
13 take them off the market or restrict their use. We
14 have to use them within a risk:benefit
15 consideration.

16 [Slide.]

17 In 1998, we had 107,000 documented
18 hospitalizations and 16,500 deaths due to
19 NSAID-induced gut bleeds in this country with
20 endoscopically documented lesions.

21 So, the issue here comes down to
22 risk:benefit ratio, and I believe that is the way
23 that the committee might best look at how these
24 opioids are going to be used.

25 [Slide.]

1 If we don't have opioids available, this
2 is what is going to be used, invasive procedures
3 that are not supported by evidence, and as every
4 pain clinician knows, there are aggressive lobby
5 groups trying to get massive reimbursement from
6 this from CMS.

7 [Slide.]

8 Now, the opioid concerns are multiple, and
9 my time precludes my getting into these at depth,
10 but you have members of your committee, like Dr.
11 Portenoy, who studied these extensively and are
12 well aware of the fact that these are the perceived
13 problems, but that, to a great extent, they are
14 exaggerated concerns.

15 [Slide.]

16 Addiction in the context of pain treatment
17 with opioids was defined in the public statement of
18 the American Society of Addiction Medicine in its
19 Public Policy Statement--this is on the web at
20 asam.org--in this manner, a definition with which I
21 think all of us can live.

22 [Slide.]

23 But what is critically important is to
24 recognize that ASAM went on to say that patients
25 may appear to observers to be preoccupied with

1 obtaining opioids, but the preoccupation is with
2 finding relief of pain, not with opioids per se.

3 In 1997, ASAM endorsed the Weisman and
4 Haddox iatrogenic syndrome that they defined in
5 their classic paper in the journal Pain in 1989 as
6 pseudoaddiction.

7 I very much appreciate the introductory
8 presentation from CDER in which the problem was
9 defined as complex with a very important caveat.
10 There is no simple solution. I get very concerned
11 when I hear individuals come up and try to propose
12 a simple solution, a single solution, such as
13 restriction to severe pain. Science absolutely
14 does not support that, absolutely does not support
15 that, or other types of restrictions that clearly
16 would minimize availability for patients who need
17 these.

18 [Slide.]

19 Tolerance is held up as a huge issue. In
20 the new edition of Carol Warfield's Textbook on
21 Principles and Practices of Pain Management just
22 coming out this summer or actually this fall, we
23 recognize that tolerance to analgesia is very
24 different to the other tolerance issues. The
25 mythology that has already been referred to by

1 earlier speakers is what drives so many decisions.

2 [Slide.]

3 In fact, if we look at opioids dose
4 requirements, work that we did in England in the
5 mid-1970s, that Robert Twycross published in the
6 International Journal of Clinical Pharmacology,
7 this was an individual we were treating with
8 diamorphine, a legitimate drug in the United
9 Kingdom, that is heroin, of course, and the dose
10 went way up and then came down, and went up and
11 came down before this patient with advanced
12 irreversible cancer died.

13 Starting patients on opioids at whatever
14 dose is necessary does not condemn patients to
15 ever-increasing doses, nor does it carry the risks
16 that we all know so well in the acute setting. In
17 fact, again, I defer here to people like Russ
18 Portenoy who know this field better than I do, how
19 well patients become tolerant to some degree to
20 respiratory effects after just five to seven days
21 of regularly scheduled opioids.

22 Are people dying from misuse of
23 substances? Absolutely. Are people dying from
24 misuse of many noncontrolled substances?
25 Absolutely. That doesn't mean we take the

1 substance away.

2 [Slide.]

3 Acutely, opioids are profound respiratory
4 depressants. Within a week of initiating therapy,
5 opioid tolerance is so great that in a 1996 book
6 that Professor Margaret Batten [ph] and I published
7 on Drug Use and Assisted Suicide and Euthanasia, we
8 had a chapter from Dr. Steven Jamison, who studied
9 a cohort of patients who went on to die due to
10 AIDS, who tried to kill themselves or their
11 partners tried to kill them, assisted suicide,
12 using opioids, and they couldn't do it because
13 these patients were tolerant to the opioid
14 respiratory effect. These people were suffocated
15 with a drycleaning bag or a pillow in some cases.

16 This is the type of tragedy that comes
17 from the type of emotional mythology that
18 unfortunately drives political decisions, but
19 hopefully, does not drive scientific decisions.

20 [Slide.]

21 Patients skip analgesic doses. The
22 literature on this is very clear. None of us,
23 thank heaven, can recall the experience of severe
24 pain. We can recall having been in pain, but we
25 don't recall severe pain, and we have good studies

1 that show that patients start skipping doses.

2 Well, what happens? In this classic
3 cartoon that Twycross published three decades ago,
4 the idea was to keep the patient within the
5 therapeutic window, shown here, but what in reality
6 happens with short-acting medications is people
7 having to take two, three, four doses a day, are
8 more apt to skip doses as the number of doses per
9 day goes up.

10 [Slide.]

11 Of course, the new science that has come
12 out, and I have given you a couple of references
13 here, and I have intentionally given you good
14 reviews of the primary literature, both
15 physiological windup, the augmented response to
16 repetitive firing of the nociceptive neuron, and
17 even more importantly, neuronal plasticity, the
18 changes with the central nervous system and
19 peripheral nervous system, but primarily the CNS,
20 that occur in humans as a result of undertreated
21 pain are such huge issues that we need to be more
22 aggressive, not less aggressive in treating pain.

23 Has opioid use gone up? Absolutely. Is
24 much of that opioid increased use appropriate?
25 Absolutely. Are we using enough opioids to treat

1 severe and moderate pain today? Probably not.

2 Is there abuse? Of course, there is, but
3 let's not look at numerator data without looking at
4 appropriate denominators, as well.

5 [Slide.]

6 Do we need alternatives? Absolutely.
7 Methadone clearly is the drug. When I was an
8 investigator on the National Cancer Institute
9 demonstration project of hospice care that we did
10 in the 1970s, when I was at Yale, that was the one
11 opioid that we used - wonderful medication,
12 profoundly effective analgesic, but we had nurse
13 investigators who visited with the patients twice a
14 day.

15 [Slide.]

16 Methadone, as many of you know, has a
17 biphasic elimination with very unpredictable
18 pharmacokinetics and a serious risk of accumulation
19 toxicity.

20 [Slide.]

21 Indeed, this is a computer-generated plot
22 that we did in our computer modeling, in which we
23 show the very, very long beta elimination
24 half-life. Now, why is that important clinically?
25 Because it will take perhaps 10 days to get to

1 steady-state serum levels, and the risk of
2 accumulation toxicity is huge.

3 In the State of Oregon where, under CMS
4 regulations, physicians are required for Medicaid
5 patients to use methadone in lieu of
6 pharmaceutically long-acting opioids, which have
7 very different dose-response curves, there have
8 been, I am told, and I have not seen the original
9 data, but I have been told by physicians who I
10 believe that there have been increased numbers of
11 deaths due to methadone toxicity, accumulation
12 toxicity, a far more difficult drug to use
13 pharmacokinetically than the pharmaceutically made
14 long-acting dosage forms.

15 [Slide.]

16 Here is a huge myth. Can patients drive
17 safely? Dr. David Fishbain, Professor of Psychiatry
18 and Adjunct Professor of Anesthesiology and
19 Neurosurgery at the University of Miami, published
20 a systematic review, and extensive valid systematic
21 review in the journal that I edit a year ago,
22 looking at the entire world literature, and most
23 people taking opioids can, in fact, drive safely
24 after they have been on consistent doses.

25 Of course, Professor Vainio of Helsinki

1 demonstrated this first in her classic paper in the
2 Lancet in 1995. There are a dozen other papers out
3 that I could cite, actually 27 in total. The key
4 here is I believe that we have to put opioids in
5 perspective.

6 If we start restricting opioids to a given
7 class of prescribers, I think we will have a public
8 health disaster on our hands. I have just finished
9 a textbook entitled, "Pain Management for Primary
10 Care Clinicians." A good friend of mine and of
11 several of you on this panel, Dr. Bill McCarberg
12 [ph], who is a family practitioner and a diplomate
13 of the American Board of Pain Medicine, who runs
14 the pain service and does primary care at Kaiser
15 Permanente in San Diego, wrote the preface.

16 Bill emphasized in this book, the absolute
17 importance of primary care clinicians, family
18 practitioners, internists, physician assistants,
19 advance practice nurses who are so licensed, having
20 access to the right modalities to treating pain.

21 I appreciate what the DEA said, education
22 is critical and many of the other things that the
23 DEA representative said are critical, but the
24 science and the epidemiology and the clinical need
25 do not support restricting to any one group of

1 prescribers, nor to any one category of pain.

2 Opioids are actually safer vis-a-vis end
3 organs than either NSAIDs or acetaminophen.
4 Acetaminophen, as every clinician knows, has the
5 potential of hepatotoxicity, and whether it is a
6 COX-2 selective NSAID or a non-selective NSAID,
7 there still are inherent risks, but there are risks
8 with every drug.

9 Acutely, opioids are very toxic
10 chronically, when they are taken within the label,
11 are actually relatively safe. I don't believe that
12 anyone in this room individually can prevent people
13 from taking drugs inappropriately. We do need good
14 risk management programs, I strongly applaud that,
15 but I don't believe that it would be conscionable
16 to take away access to opioids.

17 [Slide.]

18 The AHCPR, now renamed the Agency for
19 Healthcare Research and Quality, the American
20 Society of Anesthesiologists, the American Academy
21 of Pain Medicine, the American Pain Society,
22 American Society of Addiction Medicine, American
23 Geriatric Society have all come out with documents
24 strongly advocating the use of opioids in
25 appropriate clinical settings, and not, implicitly

1 not restricting these because most of the patients
2 who are going to be seen with osteoarthritis, a
3 small percentage of whom will be require opioids,
4 not a large percentage, but a small percentage,
5 they are going to be seen by primary care
6 clinicians, they are not going to be seen by
7 rheumatologists.

8 [Slide.]

9 I want to save time for questions because
10 I think this is a very important issue. I feel
11 strongly about it, but my passion is not based upon
12 clinical emotion, it is based upon what the
13 evidence says.

14 Liebeskind and Melzack went on to say that
15 this pain that people are suffering is needless, it
16 impoverishes the quality of life of patients and
17 families. It shortens life because it impairs
18 recovery, that is the catabolism and the emotional
19 issues.

20 People become depressed, they lose their
21 will to live, they fail to take normal
22 health-preserving measures. Before he went to
23 prison in Michigan several years ago, Jack
24 Kevorkian--I think everyone remembers Dr. Jack
25 Kevorkian, the pathologist who was affectionately

1 known in Michigan as Dr. Death--I am told by a
2 physician colleague, a pain specialist in the
3 Midwest, that Dr. Kevorkian's--and this is one who
4 has access to the information--that Dr. Kevorkian's
5 answering service was receiving over 1,000
6 telephone inquiries a week before he went to
7 prison.

8 Now, there were not 1,000 people looking
9 to end their lives. These were 1,000 people who
10 wanted to explore whether active end of life was an
11 alternative that they should have available. What
12 is fascinating is that the vast majority of these
13 patients did not have advanced irreversible
14 disease, they didn't have cancer, they didn't have
15 AIDS, they had low back pain, they had arthritic
16 pain, and they had headache pain.

17 We are talking about approximately 50
18 million people in the United States per year
19 experiencing either intermittent or fairly
20 continuous chronic pain. Opioids are not
21 first-line therapy, we all know that, and
22 responsible clinicians do not advocate them as
23 first-line therapy in most chronic, nonmalignant
24 pain.

25 But just as recently as a decade and a

1 half ago, there was general belief among many
2 clinicians that opioids had no place in chronic,
3 nonmalignant pain. Now, we have grudgingly seen
4 the medical community accept, based on evidence,
5 the appropriateness of opioids in cancer pain and
6 in acute pain, and those are clearly documented in
7 a searchable format in those two Department of
8 Health and Human Services' Public Health Service
9 Clinical Practice Guidelines.

10 The Cancer Pain Guideline, by the way, is
11 under revision right now through the American Pain
12 Society, and actually, there is more evidence to
13 support opioids there, there is no question.

14 Again, I tip my hat to Dr. Portenoy for
15 the seminal work that he did during the 1990s,
16 getting the world pain community to look at the
17 serious question of risk:benefit ratio of opioids
18 in chronic, nonmalignant pain, and a large body of
19 research that has taken place in the past decade
20 has clearly shown that there definitely is a place
21 for opioids in chronic, nonmalignant pain, not just
22 severe pain.

23 We do not have the resources, and should
24 not have the resources in this country, for all
25 people who have moderate to severe pain to be seen

1 by pain specialists. It would be very good for my
2 clinic and it would be very good for some of the
3 other people here's clinics, but that is not
4 reality.

5 We do need education, we do need
6 risk:benefit decisions, and we do need risk
7 management programs, but I am here to speak on
8 behalf of Joshua, both the Joshua to whom the
9 congressman referred, and to my son Joshua, who is
10 8 years old, and all the other Joshuas and other
11 people in this country who at some time in their
12 lives may require opioids to assure that we have
13 the most reasonable dosage forms.

14 The pharmaceuticals has improved
15 dramatically. The entire science of pharmaceuticals,
16 of dosage form development, of making medications
17 that will release on a consistent basis, that will
18 give us both an immediate release and an controlled
19 release phase, has advanced by orders of magnitude
20 in the past 15 years, and, indeed, some of the
21 newer dosage forms that we have are far better than
22 some of the older ones.

23 The only other thing I would like to leave
24 with the Committee from conversations that I have
25 had with health authorities in the states that have

1 been impacted by some of these disastrous
2 multi-drug, not single-drug abuse situations often
3 leading to death, is the fact that in the majority
4 of those cases, as I understand it, number one,
5 there was no autopsy toxicology data, so we don't
6 even know what the substance was, there is clear
7 evidence of polysubstance abuse, and even when a
8 particular opioid, be it hydrocodone or oxycodone
9 or morphine or fentanyl, whichever one was found,
10 as you all know, from autopsy data, there is no way
11 to ascertain the dosage form that caused that
12 unless we actually we find ghosts of that dosage
13 form within the gastrointestinal system of the
14 decedent or actually find tablets or capsules on
15 the body, and that has rarely been the case.

16 So, these huge emotional extrapolations
17 that we have seen, I think have to a great extent
18 clouded the science, and I hope that the decisions
19 that are made here within the tradition of the FDA
20 and within the traditions of the Public Health
21 Service will be based on the best issues of public
22 health for the American citizens.

23 With that, I would be happy to take any
24 questions or comments from the committee members.

25 DR. KATZ: Thanks, Art. We do have time

1 for a couple of questions. What I would like to be
2 clear on, though, is that I think the most
3 appropriate scope for any questions now would be on
4 the evidence base for the use of opioids for
5 chronic pain, and I would prefer to defer any
6 discussion of the specifics of risk management
7 plans, pros and cons, restricted labeling, all that
8 thing, there will be ample time for discussion of
9 that in the afternoon and tomorrow.

10 So, any questions about the evidence base
11 for the use of opioids or alternatives in chronic
12 pain? Dr. Shafer.

13 DR. SHAFER: First, thanks, I enjoyed that
14 presentation immensely.

15 We have earlier today identification of
16 specific molecule oxycodone and concerns about the
17 risk of oxycodone. Are you aware of any data to
18 suggest that any molecule in the Class II category
19 has more abuse liability than any other molecule
20 just related to the intrinsic pharmacology, not in
21 terms of availability and distribution?

22 DR. LIPMAN: Yes. That's an excellent
23 question and I am aware of the data, and the data
24 say that that is absolutely not the case.
25 Oxycodone is no more dangerous than morphine, is no

1 more dangerous than fentanyl, is no more dangerous
2 than hydromorphone.

3 A very important point, however, is that
4 Dr. Gabriel Pasternak has done some extremely
5 important genetic research with a mouse knockout
6 model, the Kopeki model, in which he has now
7 demonstrated--and, Russ, you can tell me the latest
8 number--the last time I talked to Gab, I think it
9 was about 14 different subsets. It is higher than
10 that, he tells me now. Well over a dozen subsets
11 of the mu-1 receptor.

12 Now, what does this mean and how does it
13 relate to your question? All of us in this room
14 have receptors within our central nervous system at
15 which opioids work, and the specific receptor at
16 which a mu agonist opioid, which, of course,
17 includes morphine, oxycodone, and most of the other
18 Schedule II controlled substances we have discussed
19 here today, at which they bind to give us the
20 analgesic and other activity are mu receptors and
21 specifically mu-1 receptors.

22 Now, what Dr. Pasternak's work, both as a
23 neuropharmacologist and a neurologist, he has done
24 elegant research, and he has shown that there are
25 differences in the density of the subsets of the

1 various receptors in different patients.

2 Now, what this means is that I may respond
3 more to morphine, both clinically and
4 toxicologically, Nat may respond more to oxycodone,
5 and someone else may respond more to hydromorphone,
6 but it also means clinically that we need, and I
7 emphasize the word "need," alternative opioids.

8 There is now a genetic polymorphism,
9 scientific basis for serial trials of multiple
10 opioids and not to conclude that a patient who
11 fails one opioid will necessarily fail another even
12 though they are both mu agonists.

13 As far as the toxicology on your specific
14 question, no, absolutely not. There is no greater
15 risk, in fact, there is less risk chronically with
16 oxycodone than with morphine because we don't have
17 a potentially neuro-irritant metabolite, in the
18 case of morphine, morphine-3-glucuronide, and we
19 only have one small percentage clinically effective
20 metabolite with oxycodone, that is oxymorphone, and
21 it has the same elimination pattern as the parent
22 compound, so there is no accumulation risk. So, it
23 is actually a safer drug from a molecular
24 perspective.

25 DR. KATZ: Dr. Skipper, you are next.

1 DR. SKIPPER: Let's see, we were given a
2 report from the Research America this morning,
3 which says that a poll shows that 57 percent of
4 Americans suffered from chronic or recurrent pain
5 in the past year.

6 You showed a slide that said freedom from
7 pain should be a basic human right. So, would we
8 extrapolate then to suggest that we should be
9 treating 57 percent of Americans?

10 DR. LIPMAN: Not with opioids.

11 DR. SKIPPER: So, how do we determine
12 where the cutoff is in the interaction of other
13 problems like depression, and so forth, that may
14 not be due to the pain?

15 DR. LIPMAN: I think that is a very
16 important clinical question and I am not here to
17 write policy for state medical boards. I have
18 spent a lot of time in the UK and a lot of time in
19 Scandinavia where there are national health
20 systems, and the Federal Government tells
21 clinicians how to practice.

22 Our system works better in many ways, it
23 also has deficiencies that they don't have, but the
24 issue here is that's an individual clinician
25 decision dealing with his or her patient. For most

1 patients with low back pain, that's myofascial, as
2 we all know, stretching is the treatment of choice,
3 not opioids, and I am not here to advocate
4 wholesale use of opioids.

5 I am here to say that we have an epidemic,
6 and it's not Lipman talking, David Satcher, the
7 former Surgeon General, and Louis Sullivan, the
8 former Secretary of Health and Human Services, just
9 a week ago had a press conference that led to this
10 huge issue, and you can find information on
11 painfoundation.org on the web, the American Pain
12 Foundation web site, saying that this is still a
13 huge epidemic problem in the United States, chronic
14 pain.

15 Opioids are one important arrow in the
16 quiver. It is critical that we keep that arrow
17 sharp and available. It is also critical that
18 these be used rationally, and not in a wholesale or
19 first-case manner, but that is an educational issue
20 and a state regulatory issue.

21 Just one closing comment that I think is
22 critical. I heard some very telling points earlier.
23 The representative from the DEA told us that the
24 vast majority of problems are on the local level.
25 That has to be controlled, under the United States

1 Constitution, on a local level.

2 If we stop the source of critically needed
3 medications on a federal level because of
4 inadequate resources or whatever, and I don't know
5 the answer, to solve local problems, then, I think
6 we are doing a terrible disservice to the American
7 public.

8 DR. KATZ: Again, I would like to remind
9 the committee that I think the best focus of the
10 discussion right now is on the clinical issues and
11 on the evidence behind it, and we should defer
12 discussion of the policy issues until later.

13 Dr. Leiderman, you are next.

14 DR. LEIDERMAN: I just have two questions
15 for Dr. Lipman. One, you alluded to the
16 immunological suppressant effects, and you said
17 pain. The reference that I thought I saw up there
18 was for an article entitled, "Acute and Cancer
19 Pain." So, I had a question about whether there
20 were data in chronic pain, as well.

21 DR. LIPMAN: Yes, there are.

22 DR. LEIDERMAN: Okay. Then, my second
23 question is you also alluded to the high suicide
24 rate in untreated pain, and again I wondered if you
25 had any data on that.

1 DR. LIPMAN: Unfortunately, we don't have
2 good data, I am not aware of good data in the
3 latter area although my friend and colleague, Dr.
4 Passik, will be speaking later, may know something,
5 put you on the spot, Steve, because I think he has
6 looked at these areas far more than I have.

7 The question you asked, though, is
8 excellent. There is a good-sized literature that
9 is growing rapidly now on suppression particularly
10 of natural killer cells, but of host defenses from
11 pain much more so than with opioids. Opioids, as
12 you know, have a mild effect on NK cell counts,
13 pain has a much more serious effect NK cell counts.
14 In fact, we have a manuscript in preparation right
15 now that will be coming out within the next six
16 months, a systematic review of the entire world
17 literature on that issue.

18 We have six different immunological
19 indicators showing that with a whole range of human
20 clinical chronic pain models, there are cell count
21 shifts and other issues that do need to be looked
22 at. If you would like details on that, just drop
23 me an e-mail, I would be happy to share that with
24 you.

25 DR. KATZ: Dr. Brill.

1 DR. BRIL: Thank you for an excellent
2 presentation. I think in acute and terminal cancer
3 pain, it is kind of easy to consider Class II
4 drugs. My question really had to do around chronic
5 pain models and, because of my interests, say,
6 chronic diabetic neuropathy pain or chronic
7 neuropathy pain, which is as severe a problem to
8 the patients as other forms of pain.

9 But I wonder how good the evidence is or
10 what the relative efficacy is of, say, a Class II
11 agent compared to an adjuvant analgesic and how
12 necessary this class of compound is in this
13 indication.

14 I mean are there good comparative studies,
15 what is the science that would say you would want
16 someone chronically to take, say, oxycodone or MS
17 Contin, or whatever?

18 DR. LIPMAN: No, there are not good
19 comparative studies looking at tricyclic
20 antidepressants versus antiepileptic drugs versus
21 opioids. There are, however, good serial trials,
22 and the best data set that I am aware of here is
23 that that belongs to Mitchell Max, whose clinic is
24 right up the street here at the NIH.

25 Mitchell, as you know, is a neurologist

1 who runs the analgesic trials clinic at the
2 clinical center, and he has looked at a whole range
3 of painful diabetic neuropathy and other neuropathy
4 models.

5 In answer to your question, yes, there is
6 an absolute need for opioids. Now, if you look at
7 the paper that came out in Pain in 1988, out of
8 Stockholm, in which Arner [ph] and colleagues said
9 that there is no efficacy for opioids in
10 neuropathic pain, you would recognize that that
11 work has subsequently been refuted. It was
12 actually a Type 1 or Type 2 error in the
13 statistical analysis in that study, that seemingly
14 well done study, which is why, of course, we
15 require repeated studies of pivotal trials for any
16 drug to be approved.

17 Again, I would defer to Dr. Portenoy as a
18 neurologist. He has done some of this work and has
19 shown that there is a clear place. Sometimes we
20 require higher doses of opioids, and we don't
21 really understand the mechanism. It is probably
22 some central plasticity in these neuropathic pain
23 models than we would in seemingly comparable
24 nociceptive pain, but opioids are definitely
25 effective.

1 We have dozens of patients on chronic
2 opioids in our clinic including some painful
3 diabetic neuropathy, postherpetic neuralgia, and
4 other neuropathic pain models. What is interesting
5 is that most of these patients are on chronically
6 far, far lower doses of controlled release opioids
7 than they required initially to get the pain under
8 control, because the anxiety and all the confounds
9 associated with the initial pain presentation often
10 lessen once we obtain some pain control for a
11 period of time, and particularly when we get them
12 into multimodal therapy where they learn coping
13 techniques and they learn some relaxation to cut
14 down the sympathetic autonomic input, that the vast
15 majority of patients who are on chronic opioids are
16 on relatively low doses of long-acting opioids.

17 DR. KATZ: Maybe to expand on that for a
18 second, there are actually several randomized
19 placebo-controlled clinical trials of opioids for
20 neuropathic pain that show efficacy, and there is
21 now just recently published one, a study from Raja
22 and his colleagues at Hopkins comparing, in the
23 same head-to-head placebo-controlled trial,
24 tricyclic antidepressant versus opioids and showing
25 that, if anything, the opioid group seemed to have

1 better pain control than the tricyclic group, and
2 both groups did better than placebo.

3 Now, these are short-term studies, but
4 that is the database available to answer your
5 question.

6 DR. LIPMAN: I concur with that, but I
7 believe that some of these patients, indeed, there
8 is clearly some patients who will respond better to
9 opioids and others who will respond better to
10 monoamine reuptake inhibitors.

11 The key is that if we are going to
12 minimize risk, we need to be able to combine these
13 therapies, and that is where we need a range of
14 dosage forms, and because of the genetic diversity
15 and genetic polymorphism, we need a range of
16 different opioids in controlled release dosage
17 forms.

18 DR. KATZ: Thank you very much for your
19 comments. In the interest of time, I am going to
20 have to apologize to Dr. Baxter, the second time I
21 have cut him off, and Dr. Portenoy. We need to
22 move along with the schedule.

23 I would like to introduce Dr. Gianna
24 Rigoni from Office of Pharmacoepidemiology and
25 Statistical Science at FDA, who will be speaking

1 with us about opiate use data.

2 Opiate Use Data

3 DR. RIGONI: Thank you, Dr. Katz.

4 Today, I would like to describe the
5 patterns of use of immediate and modified release
6 opioids in both inpatient and outpatient settings,
7 to provide a context for discussions of risk
8 management plans over the next two days.

9 [Slide.]

10 Data on drug utilization will be presented
11 from sources FDA has available under various
12 contracts. Outpatient data was obtained from two
13 IMS health audits. IMS is a source of marketing
14 data most commonly used by the pharmaceutical
15 industry and government agencies to obtain the
16 number of dispensed prescriptions in the United
17 States.

18 Inpatient data was obtained from Premier,
19 a group purchasing organization, for approximately
20 400 hospitals in the United States, and will be
21 explained in more detail in a few minutes.

22 [Slide.]

23 First, I will present data on outpatient
24 drug utilization. We will first examine the trends
25 of immediate release opioids when combination

1 products like Vicodin, Lortab, Percocet, et cetera,
2 are included.

3 Then, we will remove these products and
4 examine single-agent, immediate release opioids.
5 Lastly, we will examine modified released opioids
6 and methadone.

7 [Slide.]

8 The National Prescription Audit from IMS
9 Health measures dispensed prescriptions from retail
10 pharmacy settings seen here in the second bullet,
11 and only oral dosage forms were included in this
12 analysis.

13 The number of dispensed prescriptions is
14 obtained from a sample of approximately 22,000
15 pharmacies in the United States and is projected
16 nationally. Mail-order and long-term care pharmacy
17 settings were not included in this analysis since
18 they do not capture the physician's specialty
19 writing the prescription.

20 [Slide.]

21 Total prescriptions dispensed were
22 selected for opioids relevant to the discussions we
23 will be having today and tomorrow, and are
24 presented here in millions of prescriptions
25 dispensed. The graph categorizes the opioids into

1 immediate release dosage forms, represented by the
2 blue line, modified release opioids, by the red
3 line, and methadone, by the green line on the
4 bottom.

5 Methadone was looked at on its own since
6 technically, it is not a modified release dosage
7 form, but it is long acting.

8 This graph shows a trend of an increasing
9 number of prescriptions dispensed in retail
10 pharmacy settings over the past five years for
11 Schedule II immediate release and modified release
12 opioids, as well as Schedule III immediate release
13 hydrocodone products. Methadone also appears to be
14 increasing, but at a slower rate.

15 I will now zoom on this top line to give
16 you a better picture of what is happening with
17 immediate release opioids.

18 [Slide.]

19 Immediate release opioids, when including
20 combination products, which I have mentioned
21 before, are widely used, with hydrocodone having
22 the most prescriptions dispensed at approximately
23 90 million in 2002.

24 I am now going to remove these combination
25 products and zoom in even further on the immediate

1 release single-agent opioids to make a more clear
2 distinction between the products dispensed in small
3 volumes here on the bottom of the screen.

4 [Slide.]

5 When we remove the combination products,
6 we see more clearly the total prescriptions
7 dispensed have increased over the last five years,
8 but at a much lower volume, about less than 2
9 million prescriptions per year.

10 [Slide.]

11 This graph represents the modified release
12 opioids and methadone. It appears here also that
13 total prescriptions dispensed have been increasing
14 over the last five years, but again in lower
15 volumes, less than about 7 million per year we see
16 here, and modified release oxycodone growth appears
17 to be leveling off as of year-end 2002.

18 Now that we better understand the trends
19 in dispensed prescriptions for immediate release
20 and modified release opioids, we need to better
21 understand which physician specialties most often
22 prescribe these products.

23 [Slide.]

24 The top prescribing specialties in 1998
25 were compared to the top prescribing specialties in

1 2002, and each specialty is represented by a
2 different color bar.

3 Here, it makes sense to see dentistry
4 among the top two prescribers over time since
5 combination products are included in this table.
6 There appears to be no significant change in
7 prescribers over time since the same specialties
8 remain in the top two-thirds of prescribers from
9 1998 to 2002.

10 [Slide.]

11 Looking at the same data, but again
12 removing the combination products, we see that in
13 1998, the hematology-oncology specialty made up
14 about 25 percent of immediate release opioids
15 prescribers, but dropped to about 11 percent in
16 2002. This does not mean there have been less
17 prescriptions dispensed by the hematology-oncology
18 specialty, just that more physicians are treating
19 pain in outpatient settings.

20 Also, keep in mind here that mail-order
21 and long-term care data do not include physician
22 specialty, and were not included in this analysis.
23 Therefore, we may be underestimating prescribing by
24 specialty, such as helonc and physical medicine in
25 rehab.

1 [Slide.]

2 We see similar trends from 1998 to 2002
3 for modified-release opioids and methadone where
4 primary care physicians constitute a majority of
5 the top two-thirds of prescribers.

6 [Slide.]

7 Next, we examined data from the National
8 Disease and Therapeutic Index, or NDTI. NDTI
9 collects data on drug products and indications
10 mentioned during office-based physician visits, in
11 other words, a physician's treatment intention
12 where they believe an opioid is appropriate.

13 NDTI provides information on trends of
14 diagnoses, patients, and treatment patterns
15 occurring in office-based practice, and indications
16 as reported by the physician are linked to each
17 drug.

18 Data on office-based physician visits are
19 obtained from a sample of approximately 2- to 3,000
20 physicians in the U.S. and projected nationally to
21 reflect national prescribing patterns.

22 [Slide.]

23 The following graphs display the number of
24 visits to a physician's office where an opioid was
25 prescribed. All diagnoses naturally fell into

1 these four categories - Other Pain, which includes
2 migraine headache, fracture, dental pain,
3 complications of pregnancy, any other pain.

4 The second category is postoperative
5 surgical procedures. Third, is musculoskeletal
6 pains, such as myalgias, lots of lower back pain,
7 and various arthritis, and cancer-related pain down
8 here on the bottom.

9 The blue bar presents the number of
10 physician office visits in 1998 compared to the red
11 bar, which is 2002. Since combination products
12 make up a majority of this category, we see
13 physician visits in the tens of millions across the
14 five years we looked at.

15 Top indications for 1998 continue to be
16 the top indications for 2002, and appear to be
17 increasing over time with the exception of
18 cancer-related pain, which is your last bars over
19 there.

20 I am now going to take out the combination
21 products like I have done previously in order to
22 see the immediate-release single agent opioids more
23 clearly.

24 [Slide.]

25 When the combination products are removed,

1 we see the number of physician office visits
2 decreases into the hundreds of thousands and can
3 see a shift in prescribing over time from Other
4 Pain in 1998 to more cancer-related pains in 2002.

5 [Slide.]

6 Finally, we examine the most frequently
7 occurring indications associated with
8 modified-release opioids and methadone, and we once
9 again see a shift in prescribing from
10 cancer-related pains in 1998, to musculoskeletal
11 pains in 2002.

12 [Slide.]

13 We have now seen the trends in outpatient
14 use in opioids, we have seen an increase in the
15 volume of dispensed prescriptions prescribing
16 primarily from primary care providers, and
17 immediate-release opioids use more in treating
18 cancer-related pain, while modified-release opioids
19 are being used more to treat musculoskeletal pain.

20 Lastly, we will take a quick look at the
21 use of modified-release opioids in inpatient
22 settings to better understand the use of these
23 products in conjunction with inpatient surgical
24 procedures.

25 [Slide.]

1 Premier provides information on inpatient
2 use of drugs from approximately 400 acute,
3 short-stay, non-federal hospitals belonging to
4 their group purchasing organization or GPO. A GPO
5 is an organizational unit which procures and
6 negotiates purchase price conditions for this
7 particular group of hospitals.

8 Premier data includes billing information
9 on patients, drugs, and procedures done for every
10 hospital discharge from 2000 to 2002. Because this
11 is billing data, there are no direct linkages
12 between procedures and drugs, and we can only
13 identify if billing for a drug and a procedure
14 occurred on the same day or the day after.

15 Since it was the intention of this
16 analysis to examine the use of modified-release
17 opioids in conjunction with surgical procedures,
18 these data are appropriate.

19 Patients with a discharge diagnosis
20 associated with any type of cancer were excluded
21 because we cannot distinguish if they were admitted
22 to the hospital already on opioids to treat their
23 cancer-related pain.

24 [Slide.]

25 This graph shows the percent of all

1 surgical procedures associated with a
2 modified-release opioid being billed on the day of
3 or the day after surgery. Each bar represents the
4 total number of surgeries performed in Premier
5 hospitals in the following years, and the blue
6 portion of the bar represents the percent of
7 surgeries where modified-release morphine was used
8 in conjunction with a surgical procedure.

9 The red part of the bar is where
10 modified-release fentanyl was used. The green part
11 is where modified-release oxycodone was used. The
12 gray part of the bar represents the percent of
13 surgeries where none of these three products were
14 billed within the same time frame that I mentioned
15 before.

16 We see there is a substantial use of
17 modified-release opioids associated with inpatient
18 surgeries over the last three years.
19 Modified-release opioids have consistently been
20 billed on the day of or day after surgery 50
21 percent of the time in Premier hospitals with
22 modified-release oxycodone being ordered most
23 frequently.

24 Next, we looked at the most frequently
25 performed surgical procedures in these hospitals to

1 see how modified-release opioids were used in
2 conjunction.

3 [Slide.]

4 These are the top three surgical
5 procedures done in Premier hospitals from 2000 to
6 2002, and the percent of time a modified-release
7 opioid was billed on the same day or day after.

8 The green bar represents the most
9 frequently occurring operations in Premier
10 hospitals, and that being musculoskeletal
11 operations, the most common being total lower
12 extremity replacements.

13 The red bar signifies second most common
14 surgical procedures - genitourinary operations, the
15 most common being hysterectomy, and the blue bar
16 represents digestive system operations, the most
17 common being cholecystectomy.

18 As we can see, the percent of surgery is
19 where modified-release opioid occurred has remained
20 constant over time, but 35 to 65 percent of the top
21 three most common surgical procedures are
22 associated with modified-release opioid use.

23 [Slide.]

24 Some limitations of our analysis for the
25 outpatient drug use data are, first, data on

1 dispensed prescriptions include prescriptions
2 filled in retail pharmacies only. We excluded
3 mail-order and long-term care pharmacies in this
4 analysis, and data from methadone maintenance
5 clinics are not included in these data.

6 Second, data on indications for opioid use
7 reflect office-based physicians' prescribing based
8 on a small sample size of physicians, which does
9 not mean a patient actually filled the opioid
10 prescription, and the small sample size makes these
11 numbers unstable.

12 With inpatient drug use data, because
13 using billing of medications and procedures as
14 proxy for actual clinical care may be imprecise, we
15 could be over- or underestimating modified-release
16 opioid use with surgical procedures.

17 Since Premier data represents only
18 patients admitted into the hospital that have a
19 surgical procedure, same-day surgeries are not
20 included, which may represent a substantial number
21 of surgical procedures.

22 [Slide.]

23 In conclusion, use of opioids appears to
24 be increasing in outpatient settings and is
25 widespread in inpatient settings. Primary care

1 providers continue to be the leading prescribers of
2 opioids in the outpatient setting.

3 Indications for the outpatient use of
4 opioids has shifted for immediate-release opioids
5 from treating Other Pains to treating more
6 cancer-related pain, and from modified-release
7 opioids has shifted from treating cancer-related
8 pains to treating more musculoskeletal pain.

9 Therefore, when considering risk
10 management strategies over the next two days, we
11 need to keep in mind that immediate- and
12 modified-release opioids are not prescribed by any
13 single prescriber in any single setting or for any
14 single indication in the United States.

15 Thank you.

16 DR. KATZ: Any questions?

17 I have a question. Do any of the
18 databases that were analyses that you have looked
19 at give us any insight or give us any national
20 projections on the number of individuals in the
21 United States that appear to have been on long-term
22 opioid therapy?

23 DR. RIGONI: That, we would require
24 probably more of a longitudinal database. We just
25 kind of have snapshot looks at data available to us

1 right now. We would have to do further analysis
2 for that.

3 DR. KATZ: Any other questions? Yes, Dr.
4 Jenkins.

5 DR. JENKINS: For the data on the
6 inpatient use postsurgical, were you able to
7 determine whether those patients were receiving the
8 modified-release opioid before they had the
9 surgical procedure?

10 DR. RIGONI: No, that unfortunately was
11 one of the limitations of using this data. We were
12 not able to see the drugs they came into the
13 hospital on, which is why we excluded cancer
14 patients because we thought that would muddy up the
15 analysis.

16 DR. KAHANA: Were there any regional
17 differences, were you able to stratify what part of
18 the country the modified-release products were
19 being used, are they in one part of the country, is
20 there a specific area that they are more
21 prevalently prescribed?

22 DR. RIGONI: Actually, we didn't look at
23 that either. That is something not available in
24 our contract with our data vendor, so we weren't
25 able to examine that.

1 DR. KAHANA: So, you don't know where
2 these patients were?

3 DR. RIGONI: Right, we don't. These are
4 just national estimates.

5 DR. KATZ: Dr. Shafer.

6 DR. SHAFER: Just a follow-up to Dr.
7 Jenkins' question. I hate to extrapolate from an N
8 of 1 situation, but I was very surprised to see,
9 for example, 10 percent of post-op patients getting
10 Duragesic, because I know that in our practice at
11 Stanford, which is the N of 1, you just don't see
12 it because of the Black Box warning.

13 So, I do wonder about those post-op
14 surgical data and I don't know if other people
15 would have similar experiences.

16 DR. RIGONI: I agree with you. We really
17 didn't have that much extra data on these patients
18 to be able to kind of figure out if it was used for
19 that or that they came in on a Duragesic patch for
20 some chronic pain that they had before, so it is
21 yet another limitation of using that data in this
22 analysis.

23 DR. KATZ: Dr. Portenoy.

24 DR. PORTENOY: I was surprised also at the
25 prevalence of use of the modified-release for

1 postoperative pain. You might not have the answers
2 to this, but are there any other databases that
3 might evaluate risk in that subset and help us
4 understand what is happening with that subset of
5 patients?

6 DR. RIGONI: In the hospital setting?

7 DR. PORTENOY: I gathered that many of
8 those patients might have gone home with those
9 drugs. The data only assessed whether or not a
10 drug was prescribed the day after an operation. I
11 would guess that many of those patients were
12 prescribed those drugs on discharge. That seems to
13 be a common pattern in my hospital. I would guess
14 that is probably what happened.

15 But most of those patients most likely
16 were not using opioid therapy before, so they were
17 at a relatively higher risk of adverse events, and
18 I just wondered whether there is any database that
19 looks at that population specifically in terms of
20 risk after discharge.

21 DR. RIGONI: Not that I am aware of. We
22 are still exploring the Premier database in the
23 Office of Drug Safety at FDA to see if we might be
24 able to tease that out of that data, but we have
25 been working with them quite closely to try to

1 figure out if we can determine that from their
2 data.

3 DR. KATZ: Dr. Strom.

4 DR. STROM: Just in answer to that,
5 longitudinal databases, like managed care or
6 Medicaid databases, could answer that question.
7 They wouldn't have the information on the inpatient
8 drug use, but you would be able to look, of all
9 those people who were discharged after a surgical
10 procedure on long-term opiates, what proportion of
11 them had come in on it to begin with.

12 DR. RIGONI: We, unfortunately, don't have
13 some of those data available to us.

14 DR. KATZ: Thank you very much for sharing
15 that data with us, we all appreciate that.

16 Next, it is my pleasure to introduce
17 Steven Passik, who is the Director of Palliative
18 Care Research--Steve, is that right--at the Markey
19 Cancer Center?

20 DR. PASSIK: Yes.

21 DR. KATZ: Dr. Passik has been a
22 long-standing contributor in the area of pain
23 management and particularly in patients with
24 substance abuse, and will be speaking with us about
25 Misuse and Abuse of Opiate Analgesics in the

1 Medical Setting.

2 Misuse and Abuse of Opiate Analgesics

3 in the Medical Setting

4 DR. PASSIK: Thanks, Nat, it is a pleasure
5 and really an honor to be here to put my two cents
6 in, in this dialogue. I had a little trouble
7 finding the room. I live in Lexington, Kentucky,
8 and the next town over is Versailles, Kentucky, so
9 when I asked where the Versailles Room was, I
10 didn't get the right directions.

11 [Slide.]

12 I wanted to just say by introduction, I
13 started out interested in this topic, I started out
14 my career, the first 10 years of which was spent at
15 Sloan-Kettering, I had the honor of working with
16 Russ Portenoy, Kathy Foley, and Bill Breitbart and
17 others, and was interested in the management of
18 pain in addicts as the AIDS epidemic hit New York
19 and hit Sloan Kettering.

20 But subsequently, as this revolution has
21 gone on in pain management societally and
22 medically, I became interested in issues related to
23 how pain patients sometimes misuse their medicines
24 and issues surrounding that problem.

25 I have to say that the revolution that has

1 happened, in my opinion, with the broader use of
2 opioids has absolutely changed the lives for the
3 better of, no question, millions of people, but
4 unfortunately, I think we have too much rhetoric
5 sometimes in the pain community, and that rhetoric
6 has sometimes trivialized the issue of negative
7 outcomes, and I think we need to study these
8 issues.

9 I don't know personally that monitoring or
10 restricting is the answer, I think we need more
11 research, and I am going to walk you through some
12 research studies that we have performed looking at
13 this issue of noncompliance behavior in pain
14 patients.

15 [Slide.]

16 But before I do, I wanted to first say
17 that I am going to try to address for a moment the
18 issues of who or what should be monitored. As we
19 try to get a count of the problems of bad outcomes
20 in pain management, there are several different
21 populations that would be affected if changes in
22 policy and changes in clinical practice were
23 instituted.

24 I will admit at the outset that long-term
25 studies of outcomes, good or bad, in opioid therapy

1 are virtually absent, and this is a terrible
2 problem at a time like right now when we don't have
3 data on patients who have been on these medicines
4 for months or years. Most of the trials that we do
5 have are considerably short than that.

6 Aberrant behaviors, or the so-called
7 "noncompliant" behaviors, their frequency, their
8 meaning in the clinical setting, and so on, have
9 been poorly studied. That has been the focus of my
10 work, and I will show you some of the results
11 there.

12 Then, importantly, I think the
13 relationship between aberrant behavior, namely,
14 when you see noncompliant behavior in a pain
15 patient and something has gone awry in pain
16 management, the question is how often is that
17 associated with addiction, and we really don't know
18 the answer there either.

19 So, to the issue of who or what should be
20 monitored, if I was better with PowerPoint, this
21 would be a series of complicated ven diagrams with
22 some overlap, and I will leave that to your
23 imagination.

24 But when we start talking about who or
25 what should be managed through risk management,

1 monitored through monitoring programs, or to whom
2 drugs will be restricted, we are actually talking
3 about several different populations.

4 I am concerned that the top group, the
5 pain patients, would suffer if measures to stop
6 abuse or diversion in some of these other groups
7 were instituted. One of the problems we have when
8 you set up a pain practice or if you are a primary
9 care doctor who treats a lot of pain, is that some
10 people, the people on this first line, will see on
11 your shingle where it says, "Pain Expert," they
12 will see hope and deliverance, and then other
13 people will see large quantities of high-quality
14 opioids available.

15 The problem is that any steps we take will
16 impact all of these groups. All of them, in
17 various forms, do present in pain practices from
18 time to time, and I think it is essential really to
19 study these bad outcomes, and outcomes related to
20 the aberrant drug-taking behavior spectrum, that I
21 will describe, and also better understand when
22 those outcomes are actually related to these other
23 groups.

24 [Slide.]

25 What do we mean by a "good" outcome? I

1 apologize to everybody who has heard me speak about
2 this before, because of the fact that I have been
3 talking about this for years now, the so-called
4 "Four A's" of pain treatment outcomes. Some of the
5 people who have heard me before want to add a
6 fifth, which would be "ad nauseam."

7 But basically, what we have tried to teach
8 the pain community and others who treat pain is
9 that we are trying to get a good outcome in four
10 areas. We are trying to provide analgesia, we are
11 trying to improve psychosocial functioning, we are
12 trying to limit adverse effects, and monitor and
13 contain any suggestion of aberrant drug-related
14 behavior.

15 I think the studies that I have done have
16 shown basically that analgesia is modest, but
17 meaningful on opioids, meaningful insofar as the
18 fact that some 80 percent in one of my studies were
19 rated as improved in their overall function, side
20 effects seemed to be common but tolerable.

21 Then, with regard to noncompliant
22 behavior, they are not infrequent. The problem is
23 we don't always know their meaning, nor do we know
24 when they are serious, and that is really I think
25 one of the big gaps is that clinicians need more

1 education and more data to understand these better.

2 [Slide.]

3 When I refer to "aberrant drug-taking
4 behavior, I am referring to something like this.
5 This is well known in the pain field now, for some
6 of you, though, it might be new. This comes from
7 an observation from Russ Portenoy from many years
8 ago, actually first, I believe in the late '80s
9 when he was writing for Jerry Jaffe's Textbook on
10 Substance Abuse, and this I think is really a
11 brilliant observation that Russ had, that has led
12 to a model that we have used in our research, as
13 well as in our clinical monitoring of people in
14 chronic pain who are on opioids.

15 What I think Russ was onto quite some time
16 ago was that the phenomenology of the physician
17 treating pain is not the phenomenology of the
18 addiction medicine specialist. For example, there
19 are many ways in which the phenomenology of the
20 addiction medicine specialist has been highlighted
21 over and over again as misleading in the pain
22 treatment setting.

23 For example, the patient who develops
24 physiological dependence, we know that in the pain
25 setting, that is not associated generally with

1 aberrant behavior. Tolerance, to the extent that it
2 develops, is more often than not, not associated
3 with aberrant behavior.

4 So, there are some aspects of the
5 phenomenology of addiction that don't suit the pain
6 management setting, so sometime ago, we started
7 writing about and researching from the point of
8 view of articulating our own phenomenology.

9 Our phenomenology is very poorly studied,
10 but basically, Russ's observation was that
11 essentially, there is a wide range of aberrant
12 behavior that could become evident in the clinical
13 practice setting of pain management and that some
14 of it is rather innocuous and some of it is very
15 serious, and clinicians need to know how to assess
16 and talk to patients about this, researchers need
17 to take up the cause and try to figure out how
18 common these things are, and so on.

19 I would venture a guess that there is more
20 of a literature on noncompliance with
21 antihypertensives than there is with opioids.
22 There is a lot of rhetoric and there is a lot of
23 emotion, but there is not a lot of research on what
24 do people actually do with pain medicine when the
25 treatment has gone awry in any way, shape, or form.

1 [Slide.]

2 One of the big complications we have, the
3 clinician has this complication every day when he
4 has a patient in front of him who is losing
5 prescriptions, raising their dose on their own,
6 doing anything of the kind.

7 The clinician faces this dilemma and then
8 we, as researchers, face a dilemma when we try to
9 understand what do we think this behavior means,
10 because it appears in the clinical setting as the
11 end result of multiple forces, sometimes more than
12 one at the same time.

13 Sometimes when a pain patient is misusing
14 their medicines or having a bad outcome in this
15 spectrum, it represents addiction or abuse that is
16 unfolding in front of the clinician's eyes.
17 Sometimes, as Dr. Lipman said, it is
18 pseudo-addiction and the patient is acting in an
19 uncharacteristic fashion because they have
20 inadequate pain relief.

21 Sometimes there is a form of
22 self-medication going on or what Eduardo Bruere
23 [ph] has termed "chemical coping" of other life
24 circumstance and psychiatric problems, and I would
25 venture a guess, although this has also been poorly

1 studied, that there are a lot more bad outcomes in
2 this category than there are in the addiction or
3 abuse category if you to pain specialists who treat
4 really complicated pain patients, because of the
5 psychiatric comorbidities and other problems that
6 pain patients sometimes bring with them.

7 These kinds of problems are more
8 frequently encountered in my practice and probably
9 others than are out and out addiction or abuse.
10 Then, of course, there is criminal intent. There
11 are people who are presenting in a pain clinic with
12 intent to divert.

13 When these patients are in front of us,
14 this is our dilemma. We try to figure out what
15 this behavior means. It is my observation
16 clinically and through the research that there
17 aren't really any behaviors, even the ones that are
18 illegal on their face value, that point you in a
19 particular direction.

20 For example, even the really serious ones
21 where we wouldn't very often cut a lot of slack, I
22 mean there are certain behaviors that really do
23 merit a one-strike-and-you-are-out of the clinic
24 kind of policy, like forging a prescription or
25 where there is evidence of selling your medication,

1 and so on, versus simply running out a day or two
2 early, so there is a wide range.

3 But I have seen prescription forgeries
4 that were unrelated to diversion or abuse in my
5 clinical practice - patients with personality
6 disorder or things like that where they were angry
7 that I went on vacation, for example, and altered a
8 prescription as a sort of impulsive gesture.

9 So, I think the behaviors themselves don't
10 help you necessarily, and this is a very, very
11 complicated clinical phenomenon that has to sorted
12 out with outside corroboration, urine tox screens,
13 and a whole range of other things, but they are not
14 all that common either. The behaviors are common,
15 bad outcomes, truly bad outcomes, I think are not.

16 [Slide.]

17 So, what are those bad outcomes? Let's
18 say that those behaviors are evident in the
19 clinical setting, what might they represent?
20 Sometimes they are going to represent abuse by the
21 patient. We don't know how common that is in our
22 present database.

23 Addiction, out-and-out addiction is
24 probably very rare in the pain population unless
25 people come in with vulnerabilities, but if they

1 are not vulnerable people when they are exposed to
2 their opioids, whether it's oxycodone or any other
3 one, probably they are not going to run into
4 difficulties if they don't have some pre-existing
5 vulnerabilities.

6 Then, there is chemical coping, which we
7 also don't know how frequently this happens. What
8 do I mean by "chemical coping"? I think we all can
9 sort of feel what you think I mean by it, but let
10 me just explain that there are aberrant use
11 patterns that we see in the clinic that don't
12 necessarily qualify as out-and-out compulsive use,
13 nor do they qualify as out-of-control use.

14 They are just on the fringes of what we
15 would consider an opioid agreement with the
16 patient, not enough to get them discharged
17 necessarily, but, for example, running out early,
18 you know, every other prescription, and things of
19 that sort.

20 These tend to go on in patients who fail
21 to improve or reach psychosocial goals that have
22 been set between themselves and their clinician at
23 the outset. So, there is a whole range of bad
24 outcomes with, as I said earlier, I think the third
25 group probably being more common, and when you

1 have a patient who is kind of floundering, not
2 using their medicines exactly as prescribed, not
3 making progress towards psychosocial goals, and
4 that medicine happens to be a controlled substance,
5 this becomes an issue, whereas, it might not be if
6 there was not a controlled substance and with quite
7 the same level of acuity.

8 [Slide.]

9 So, which pain patients then are
10 vulnerable to aberrant drug taking? Again, very
11 little data, so this is largely unknown. We do
12 know that exposure alone to drugs in the context of
13 pain management is probably not a risk factor
14 unless, for example, you had someone who had an
15 unknown genetic risk or had a genetic risk, let's
16 say, who had generations of alcoholism in their
17 family, so they decide to be a teetotaler, then,
18 they develop a painful condition and they are
19 exposed a controlled substance for the first time
20 in a pain management setting, and the physician
21 fails to take a good history and doesn't implement
22 any safeguards. That is probably infrequent, but
23 it is feasible that that can happen, that there are
24 people who will get exposed, but those are people,
25 as I said, again with vulnerability.

1 Given that we don't have long-term outcome
2 studies in pain management, you know, good studies
3 heavily front-loaded for risk factors, so then we
4 could see what predicted down the road, all that
5 can point you in the direction that everybody
6 around this table is well acquainted with, the
7 traditional risk factors for addiction including
8 genetic, psychiatric, social, familial, and
9 spiritual risk factors.

10 When we assess our pain patients, there is
11 no question that we have to assess them in these
12 areas, because many pain patients have risk factors
13 in these areas.

14 I described the kind of patient who might
15 have a genetic risk factor, psychiatric,
16 overwhelming, 80 percent of people with chronic
17 pain have a comorbid depression, the social and
18 familiar warping of their life circumstances from a
19 year or more of untreated pain gives them risk
20 factors often in that area, and many are
21 spiritually bankrupt from their struggle to get
22 their life back on track.

23 So, our patients have risk factors in this
24 area. It behooves us to teach our physicians how to
25 assess them.

1 But one fascinating question that my group
2 is beginning to turn our attention to is which ones
3 of these patients then go on to self-medicate. If
4 80 percent of chronic pain patients have a comorbid
5 depression, which ones start to use their opioids
6 to medicate that depression. We don't know the
7 answers to questions like that.

8 Of those whom self-medicate, how much of
9 that turns into abuse or addiction? Again, no
10 answers.

11 [Slide.]

12 This is a slide just to show you that my
13 group, both, first, when I was in Indiana, which
14 was kind of a five-year pit stop between Sloan
15 Kettering and Kentucky, when I was in Indiana and
16 subsequently at UK, these are some of the studies
17 that we published and we have been looking at these
18 attitudes and behaviors in cancer patients and AIDS
19 patients, and so on, and I am going to very quickly
20 now walk you through the results that I think are
21 illustrative of this problem although I will
22 apologize for the methodology.

23 Someone said earlier that we don't even
24 have the methods yet for really studying this.
25 Most of our work in collaboration with Russ

1 Portenoy and others, and Dr. Katz, over this time
2 has been an exploration in trying to figure out
3 what the right methodology is to study the problem.

4 [Slide.]

5 In this particular study, the first one,
6 actually, one of the ones down that was on that
7 list, we just completed a NIDA-funded grant to look
8 at aberrant drug-taking behavior in cancer and AIDS
9 patients.

10 I want to point out some very interesting
11 findings from this study to you. This not all
12 comers with regards to AIDS patients, these are
13 AIDS patients who were specifically chosen because
14 of a history of substance abuse.

15 Both groups had moderate to severe pain.
16 We had 73 patients with AIDS, 100 patients with
17 cancer. One hundred percent of the substance
18 abusers had reported past or current history of
19 abuse. Some of the cancer patients did, mind you,
20 a little bit higher than the national average in
21 prevalence in substance abuse for the population
22 especially at that age, but substance abuse
23 predisposes to some cancer, so it shouldn't be all
24 that surprising that it be a little bit higher.
25 There were 101 men, 72 women. You can see the

1 ethnic breakdown.

2 [Slide.]

3 We threw the psychosocial medicine cabinet
4 at them, but most importantly, from this, we have
5 this aberrant behavior interview that Russ Portenoy
6 and Nat Katz and Joyce Lowenson, and several others
7 gave us some input to.

8 [Slide.]

9 With regard to the results, compared to
10 the cancer patients, the patients with AIDS were
11 significantly more likely, not surprisingly, to be
12 single, male, member of a minority ethnic group, be
13 younger, report past or present psychiatric
14 problems, and be inadequately medicated for their
15 pain.

16 So, they have lots of risk factors for
17 aberrant behavior as compared to cancer patients.

18 [Slide.]

19 It is important to look at groups who have
20 a different base rate in terms of substance abuse
21 to see if they have a different rate of aberrant
22 behavior in the clinical situation, and indeed they
23 did.

24 The total sample averaged just over three
25 of those behaviors from that earlier slide, cancer

1 patients just over one, AIDS patients over six. We
2 also broke it down to the less egregious and more
3 egregious behaviors, and you can see here that most
4 of them are in the less egregious area, but the
5 breakdown, this is a significant difference, more
6 common in AIDS patients to have behaviors in this
7 area, probably because of their undertreatment.

8 [Slide.]

9 This just represents what you have already
10 seen, but shows you the distribution per percent of
11 the sample for these different numbers of
12 behaviors, and over 60 percent of the AIDS sample
13 had five or more of those behaviors, whereas, the
14 cancer patients were mostly down at zero and one
15 behavior.

16 [Slide.]

17 I am going to skip ahead here to show you
18 that, indeed, the cancer patients, using the PMI,
19 which is a formula developed initially by Charlie
20 Cleeland, were much more likely than not to have
21 adequate analgesia prescribed to them, whereas, the
22 AIDS patients were much less likely to although
23 compared to the numbers that we saw in a study that
24 I did with Bill Breitbart at the beginning of the
25 AIDS epidemic in New York, these numbers actually

1 are improving and AIDS patients appear to be
2 getting prescribed to in better numbers, as well,
3 which is nice.

4 [Slide.]

5 This is probably the most important result
6 of the study that I would like to point out to you.
7 When you look at the AIDS patients who had adequate
8 and inadequate analgesia according to the PMI, they
9 had virtually exactly the same number of aberrant
10 drug-related behaviors, and if you compare this
11 ratio, the less severe to the more severe
12 behaviors, it is identical in both groups, it is
13 not affected by the adequacy of analgesia.

14 So, what is the take-home message there?

15 If you have two problems, you have the problem of
16 pain and substance abuse, your misuse of pain
17 medicines is unlikely to be very affected by the
18 adequacy of the analgesia prescribed to you.

19 So, when practitioners assess their
20 patients, if their patients have risk factors and
21 problems in both areas, both areas need to be
22 addressed. Addressing the pain alone is unlikely
23 to mitigate the risk of aberrant behavior.

24 [Slide.]

25 Just to show you very quickly, this is an

1 assessment tool that Russ and Nat and I, and others
2 have had some input into, meant to design a chart
3 note to give out to internal medicine and other
4 practitioners who treat chronic pain, and it
5 basically help practitioners follow people who are
6 on chronic opioids, and it, too, is based on the
7 four A's model.

8 [Slide.]

9 I just want to show you, in a study of 388
10 patients who were given opioids for nonmalignant
11 pain, I want to show you the breakdown of aberrant
12 behavior in that sample. This is a sample who was
13 getting about 57 percent pain relief. Most of
14 these patients were improving in their psychosocial
15 functioning. They had a lot of side effects, but
16 overwhelmingly rated them as tolerable, and I will
17 show you the data on their aberrant behavior. This
18 is a paper that we are just completing.

19 But in this particular study, 55 percent
20 of the sample had no aberrant behavior whatsoever.
21 Now, these are not patients separated into addiction
22 and non-addiction groups. These are just people
23 that come in with chronic pain who need opioid
24 therapy. Fifty-five percent of the sample had no
25 aberrant behavior whatsoever.

1 I would again venture a guess, but I
2 suspect if we were looking at compliance data with
3 antibiotics or antihypertensives, it would probably
4 look similar, and we wouldn't be referring to the
5 noncompliance as aberrant either. More than
6 likely, just over half had absolutely no aberrant
7 behavior.

8 Forty-six percent of the sample, though,
9 did, but when their clinician were asked, only
10 about 10 percent of the individual instances of the
11 behavior was it thought to be related to addiction
12 or some serious negative outcome.

13 So, these behaviors are frequent.
14 Remember they come from multiple sources, so in the
15 clinical situation, we really need to educate
16 people, not with platitudes that there is no
17 addiction and no bad outcomes, which I think
18 characterized our earlier rhetoric, but by saying
19 to them as many as nearly half of your patients
20 will have a behavior that is off the contract
21 somehow, your job, before you can react clinically
22 is to sort out the meaning of that behavior.

23 I will also point out to you that if you
24 look at the big-time repeat offenders, remember the
25 AIDS patients, most of them had over five

1 behaviors, and those were all addicts. If you look
2 at patients in this sample, who had five or more
3 behaviors, it is about 10 percent, which is
4 roughly--and if this result were repeated in a
5 better designed epidemiologic outcome study of pain
6 management, that is roughly the percentage of
7 patients you would expect to have a problem with
8 opioids based on sort of the prevalence of
9 addiction in society at large, about 10 percent.

10 [Slide.]

11 We also did one other study that recently
12 was published in the JNCCN where, because Lexington
13 is a referral center for eastern Kentucky, which we
14 heard so much about before, we went into our
15 substance abuse unit to just characterize the
16 patients who were coming into that setting with
17 OxyContin abuse to just try to paint a picture of
18 who these patients were.

19 195 admissions in a one-year period at the
20 height of the epidemic for OxyContin abuse. We got
21 SCID and other medical information on them.

22 [Slide.]

23 The OxyContin abusers, many of whom were
24 from eastern Kentucky, were using on average 180 mg
25 per day. Most of them had a history of other

1 substance abuse and non-substance abuse related
2 diagnoses, and compared to opioid abusers who were
3 using illicit opioids, they tended to be younger,
4 male, and from rural areas.

5 I think it would be an interesting
6 question that is too afield for right now for me to
7 speculate on, on what is it about the sociology of
8 rural areas that the epidemic broke out in those
9 areas. I think understanding that--and I would be
10 happy to talk about that later because I see a lot
11 of patients from that area--I think is a key to
12 understanding what needs to be done.

13 [Slide.]

14 Now, this is controversial, but of those
15 195 admissions to our Substance Abuse Units, 60 of
16 those patients were begun on OxyContin ostensibly
17 in the context of pain treatment. I have to say
18 "ostensibly" because we don't have a lot of data on
19 their pain treatment, we did not have that
20 available.

21 We are now doing a prospective study of
22 admissions where we are getting a lot more data on
23 their pain treatment history, and so on. But of
24 the 60 patients who ostensibly began using in the
25 context of pain treatment, they were treated mainly

1 by primary care and other non-pain experts, they
2 had similar medical and other demographics to other
3 OxyContin abusers, and they were equally likely to
4 alter the route of administration with some 13
5 percent of these 60 reporting crushing or injecting
6 the tablets to abuse them.

7 So, it is interesting. I think when I say
8 "similar medical and demographic features," I mean
9 to say polysubstance abuse and probably several
10 other risk factors that were missed perhaps when
11 those patients were started on medicine for their
12 pain.

13 [Slide.]

14 Back to this issue of who or what should
15 be structured or limited, should we be limiting
16 prescribing in general? I really don't think so,
17 because I don't think these outcomes are that
18 common or there is that much known about them. I
19 think we need to study them first in the pain
20 setting especially before we start doing
21 restrictions that will hurt the 55 or much more
22 percent of patients who don't misuse their
23 medicines in any way.

24 But I think we can teach doctors to
25 individualize treatment plans based on a

1 vulnerability assessment. Bad outcomes in pain
2 management are probably not common enough to
3 justify limiting prescribing especially, as Art
4 said, when you consider the numbers with 50 million
5 pain patients and only 5,000 pain specialists.

6 Instead, what I have been trying to teach
7 doctors who come to hear me speak is that we have
8 to structure individualized treatment plans that
9 bring in other means of structuring and
10 limit-setting to patients who need that.

11 There are basically three categories.
12 There are uncomplicated patients, there are the
13 middle ground of so-called "chemical copers," and
14 then there are abusers with pain. If I were
15 teaching doctors, I would say to a primary care
16 doctor, these are patients you can treat alone,
17 those you can only treat with help, and those you
18 might have to refer out right from the outset.

19 I think physicians can identify these
20 vulnerabilities and triage patients accordingly. I
21 think that is what we need to teach. What I find
22 ironic about right now is that we are talking about
23 limiting and being concerned about
24 sustained-released delivery system opioids when I
25 think some of the problems got set in motion by the

1 fact that rather than teaching this, at one time we
2 were teaching that the delivery system would do the
3 triaging for us, that sustained-release opioids
4 would not be abused because addicts don't really
5 like sustained-release opioids, and I think that
6 was misguided especially when you consider that one
7 can circumvent delivery systems.

8 [Slide.]

9 Finally, a few hundred conclusions very
10 quickly. Patients of all types engage in some
11 ambiguous drug-taking behavior. Substance abuse
12 history is associated with an increased number of
13 aberrant behaviors and with types of aberrant
14 behaviors.

15 Provision of adequate analgesia alone is
16 probably not enough to limit aberrant behaviors in
17 complicated patients who have a history of drug
18 abuse.

19 Some of the others like needing to base
20 opioid therapy at the outset on vulnerability
21 assessments for addiction, and so on, I think I
22 have already kind of mentioned, so I will stop
23 there and thank you very much for your attention.

24 DR. KATZ: Questions? Dr. Portenoy.

25 DR. PORTENOY: Thank you, Steve, I

1 particularly liked that presentation because of the
2 number of times you mentioned my name. But I do
3 have a question.

4 Obviously, in trying to sort through the
5 risk:benefit calculation and decide about the
6 extent to which a risk management plan should be
7 mandatory or not mandatory, to which extent it
8 should be based on education versus restrictions,
9 one of the big problems that we have is the huge
10 regional differences between the abuse and negative
11 outcomes associated with prescription drug
12 diversion, comparing your part of the country with
13 my part of the country with respect to OxyContin,
14 for example, dramatic difference.

15 So, I guess the question is from the
16 scientific perspective, are there any data that
17 help sort out why that might be the case, do you
18 have any speculations about that, and from the
19 research perspective, are there potential factors,
20 potential variables that haven't been assessed yet
21 that maybe need to be assessed to try to sort out
22 why Kentucky is a problem?

23 DR. PASSIK: There is not a lot of
24 research that helps me to understand that or answer
25 it. I do see these patients in my clinical

1 practice, so I have some speculations, and I am
2 kind of glad that Congressman Rogers is gone.

3 I mean when you look at Eastern Kentucky,
4 I have been there, I have worked with the doctors
5 there, I have seen patients in our cancer clinic.
6 It is a very isolated area. There tends to be less
7 street drugs available there than in other areas.
8 There tend to be less pain experts, there tend to
9 be less psychiatric consultants for the primary
10 care doctors to utilize.

11 So, you have a pain revolution that shows
12 up in an area where there is not a lot of
13 expertise. You also have a culture that has a
14 tremendous amount of chronic pain because of all
15 the coal mining and things that go on in that area.

16 I don't mean this in a bad way, I see
17 these patients when they have cancer, and I have
18 understood it to be--and cultures vary with regard
19 to this--it is a bit of a somatizing culture with
20 regard to they don't come in and say, Steve, I have
21 got, you know, cancer, and I am in an existential
22 dilemma. They say my nerves, I have got nerves,
23 you know, they experience distress physically. So,
24 when doctors treat that distress, I think they tend
25 to treat it medically as opposed to

1 psychologically, which fits because there is no
2 resources anyway down there.

3 Then, finally, it is an area of making
4 moonshine and then growing marijuana and then
5 selling OxyContin, so there is sort of a cultural
6 cottage industry in escapism through
7 pharmaceuticals, if you will.

8 That is all my speculation. I think, you
9 know, it is very complicated, but I think we need
10 to understand the sociology of areas where it is a
11 problem and design specific risk management for
12 those areas, and education programs for those
13 areas, that may not apply in big city settings.

14 Moreover, then, I also wouldn't want to
15 develop one that hurts the law-abiding pain patient
16 at the same time.

17 DR. KATZ: Dr. Dworkin.

18 DR. DWORKIN: Steve, I have heard you give
19 this talk several times, but every time I learn
20 something new, so thank you very much.

21 My question is, do you have any data or
22 are there any other data regarding the question of
23 whether these aberrant drug behaviors are more
24 common in patients where the provider is less
25 knowledgeable about pain? Are they less common, as

1 we all might imagine in pain specialists?

2 Of course, the point of this question is
3 whether education of providers makes a difference.
4 If there are no differences between relatively
5 expert providers and relatively naive providers in
6 aberrant behaviors in their patients, then, it
7 would suggest to me that maybe education doesn't
8 make a big difference.

9 DR. PASSIK: That is a great question,
10 Bob. The answer about data is I don't believe that
11 there is, and I think the data would be hard to
12 interpret anyway because of the fact that the more
13 difficult patients end up in the hands of the more
14 knowledgeable practitioners more often than not.

15 But I will say this. I have recently had
16 the occasion to review a couple of papers for
17 publication that are probably in the works now,
18 doing sort of chart reviews of aberrant behavior in
19 big, busy clinics that treat a lot of pain, some
20 pain clinics, others just kind of mixed.

21 One of the things that is associated with
22 aberrant behavior is dose, and when you think about
23 that, that says to me that we have been teaching
24 this all wrong, because if we were teaching this
25 correctly, the clinician who was appropriately

1 monitoring their patient would probably reserve the
2 highest, most unorthodox doses for the model
3 citizens--do you know what I am saying--and that
4 you wouldn't be escalating the doses in the face of
5 aberrant behavior.

6 So, what that says to me in terms of the
7 knowledge issue, there may be some clinicians who
8 don't have much else to offer except to titrate up
9 when the patient isn't acting right in any way,
10 shape, or form.

11 Then, the other possibility, too, is that
12 we may have overextended a little the
13 pseudo-addiction notion. I think the
14 pseudo-addiction notion is very important. It is
15 self-effacing, it takes the burden on us to do a
16 better job of pain treatment, and not accuse
17 everyone of being an addict in the beginning, but I
18 think that my data question sort of, I think to
19 some extent, the validity of pseudo-addiction in
20 patients who are actually acting aberrantly in some
21 instances, like in the AIDS data.

22 So, you know, I think we need to teach
23 this correctly, I think there is a role for
24 education actually because I think you are probably
25 right, you know, in the spirit of your question,

1 that there is a difference, and more knowledgeable
2 providers will recognize the behaviors and offer
3 alternatives.

4 I just think that we need to readdress how
5 we have been teaching this.

6 DR. KATZ: Dr. Strom.

7 DR. STROM: Two questions. First, in
8 follow-up of Russ's question. Do you see the same
9 regional variations with alcohol abuse?

10 DR. PASSIK: The answer is I don't know.

11 DR. KATZ: Does anybody know, anybody at
12 the table know about regional variability of
13 alcohol abuse?

14 [No response.]

15 DR. KATZ: Next question.

16 DR. STROM: Second, you recommend that
17 instead of using a restrictive approach, we should
18 use an educational approach, and we should educate
19 docs to base therapy on vulnerability assessments.

20 Is there any evidence that that leads to
21 decreased aberrant behavior?

22 DR. PASSIK: No. These models have not
23 really been tested, no. I can tell you from
24 clinical experience, though, again, my own, and I
25 have been involved in treating a lot of patients

1 who are sort of castoffs from other practices for a
2 wide range of offenses, some because they had a
3 history of addiction, and some not, that actually,
4 with the appropriate limit-setting, if you know how
5 to do that, you have the time and the resources to
6 do it, so you have to know which patients you can
7 treat and which ones you can't, that actually, the
8 experience has been rather sanguine, and we have
9 had some very good outcomes.

10 You know, the whole debate kind of reminds
11 me of years ago, in psychology, when they were
12 having this big debate between the behaviorist and
13 the personality theorist, and Don Meichenbaum [ph],
14 who was a big behaviorist, said something like, you
15 know, it doesn't matter if you are obsessive
16 compulsive or hysterical, both types of people stop
17 their car at a red light.

18 I think if you know how to put the
19 appropriate structure, you can get people pain
20 relief. I mean I have had patients where we have
21 doled out the medication once a day and gotten them
22 good pain relief, but they have had to get medicine
23 on a daily basis because they needed that much
24 structure. The average pain practice can't do
25 that.

1 DR. KATZ: Dr. Baxter, did you have a
2 response on that regional variability of alcoholism
3 question?

4 DR. BAXTER: Yes, actually, there is
5 documented data that suggests that there is
6 geographical variations. In fact, you will find
7 that there is a higher incidence of alcohol use
8 disorders in the broad category, not necessarily
9 DSM-IV, a criteria being met in mining and other
10 areas that are more geared towards mining. North
11 Central Pennsylvania is one of those areas.

12 DR. KATZ: Dr. Brill.

13 DR. BRIL: Thank you for a really
14 interesting presentation. I had two questions.

15 My first was I was interested in the
16 difference between the analgesia, percentage of
17 analgesia in the AIDS and cancer patients, and I
18 was wondering if that was related to the mean dose
19 of whatever opiate there was, if there was a
20 standardization against their dose.

21 DR. PASSIK: The answer to that is no.
22 The PMI doesn't take dose into account. It simply
23 matches the potency of the analgesia to the
24 intensity of the pain.

25 DR. BRIL: So, we really don't know if

1 they were getting a similar mean dose of opiate
2 or not.

3 DR. PASSIK: That's correct, and that is
4 an excellent question given that those were
5 addicted patients who might very well have needed
6 higher doses.

7 DR. BRIL: My next question is, how does
8 your scheme deal with, say, nonresponders? That is
9 about outcome, too. Just people who don't get
10 analgesia with opiates.

11 DR. PASSIK: Yes, good question. Well,
12 you know, if you think about the four A's, there
13 are multiple variations of bad outcomes that you
14 could see. I focused on bad outcomes only in that
15 last, the spectrum of the last domain there. But
16 you could have a bad outcome, be a nonresponder,
17 and everything else would be in order, but you end
18 up switching.

19 You probably would rotate opioids for a
20 while given this heterogeneity amongst individuals
21 that Dr. Lipman talked about, but if they truly
22 were an opioid nonresponder, you would probably
23 move to another class of agents or type of
24 intervention.

25 DR. KATZ: Dr. Aronson.

1 DR. ARONSON: Thank you. I appreciated
2 your lecture, and it was the first time I heard the
3 four A's.

4 What I took away are several things, but
5 in particular is that there is a great deal of
6 sophistication, elegance in identifying and
7 understanding the nature of these patients.

8 We speak of education. We all mention our
9 bias of how we want that to work and aren't sure
10 that it does, but it is a very broad breadth of
11 definition that we probably are all having when we
12 speak of that. So, I think we need to go a little
13 bit further.

14 What constitutes enough in adequate
15 education, is it sending a pamphlet in the mail
16 after you fill out a questionnaire and get your
17 CME, or is it attending a conference, or is it
18 something that is a little bit more measurable on a
19 metric? How would you define adequate education
20 that we would even begin to look at?

21 DR. PASSIK: That's an excellent question
22 and I am not sure that I have the ultimate answer,
23 but I think that people who prescribe pain
24 medicines need to be knowledgeable in the
25 complications of prescribing those medications

1 including a certain level of expertise in addiction
2 medicine depending on the population they treat, or
3 at least addiction medicine as it is applied to the
4 pain management setting.

5 You know, different places have taken this
6 on in different ways. In California, they mandated
7 pain education CME credits that physicians have to
8 get. I don't know that that is the correct
9 approach, but I mean I think at the very least--and
10 it's hard for me to gauge what the effect of this
11 would be because, as I said earlier, I think the
12 rhetoric and the excitement around the revolution
13 in pain management tended to play down these
14 issues.

15 So, it is not as if we have spent the last
16 many years as this has been going on teaching about
17 the negative outcomes and what to do and how to
18 recognize it. There has been an effort. Some of
19 the pharmaceutical companies have been involved in
20 that effort to do that up until now.

21 So, it is hard for me to answer that
22 question in specifics, but I think we haven't
23 really begun the process of teaching about bad
24 outcomes really in opioid therapy.

25 DR. KATZ: I am going to ask one last

1 question before we move on in our schedule.

2 Steve, it sounds like if I heard you
3 correctly, that there really are no validated
4 criteria in the setting of managing chronic pain to
5 diagnose addiction or any of the other negative
6 outcomes that you discussed. Yet, it seemed like
7 your presentation suggested that those are
8 important complications or concomitants that occur
9 in some percentage of people as part of opioid
10 therapy.

11 Do you feel that validation of diagnostic
12 criteria for diagnosing these complications is
13 essential in the safe and effective use of opioids
14 for managing of chronic pain?

15 DR. PASSIK: Yes, I do, I think we need
16 that. I think we also need validated tools. I
17 would not refer to the PADT as validated in any
18 way, shape, or form. We kind of road-tested it,
19 but we did not validate it.

20 We tested it our for acceptability, but it
21 is yet to be a validated tool, so we don't have
22 validated assessment tools for studying this
23 problem. We don't have validated criteria. Some
24 of us in the pain field, a lot of the
25 psychologists, psychiatrists who do pain work have

1 kind of toyed with the idea, and then Steve King
2 from New York actually went to the APA, American
3 Psychiatric Association, to try to get them
4 interested in beginning the field trials to develop
5 some criteria, and as far as I know, they didn't
6 bite.

7 DR. KATZ: Thanks very much.

8 I have got good news and bad news about
9 our schedule, mostly bad. The bad news, first of
10 all, we are way beyond schedule, as I think
11 everybody who has a schedule knows. The good news
12 is that Dr. Willis has agreed to give her
13 presentation, which had been scheduled for 11:45,
14 after lunch. I can also see that people are
15 getting antsy.

16 So, what I would like to do now is take a
17 two- or three-minute leg stretching break, so don't
18 go too far, then, we have three presentations from
19 SAMHSA, that are scheduled to go for almost an
20 hour, so I would like to try to get those
21 presentations started after about three minutes
22 when people have had a chance to stretch, then, we
23 ought to be able to break for lunch at around
24 12:30, 12:35.

25 We will begin again at 1:15 with Dr.

1 Willis' presentation and then have the open public
2 hearing between 1:45 and 2:00. So, I will see you
3 all back again in about three minutes.

4 [Break.]

5 DR. KATZ: We will now have three
6 presentations from SAMHSA, our first presentation
7 from Mr. Gfroerer will be Nonmedical Use of Pain
8 Relievers: Data from the National Survey on Drug
9 Use and Health.

10 Nonmedical Use of Pain Relievers: Data from
11 The National Survey on Drug Use and Health

12 MR. GFROERER: Joe Gfroerer is my name. I
13 am the director of the division that runs the
14 National Survey on Drug Use and Health. If some of
15 you have never heard of it, that is because the
16 survey was renamed last year. It used to be called
17 the National Household Survey on Drug Abuse. It
18 has been conducted for about 30 years now.

19 [Slide.]

20 Just to give you a little background on
21 the design of the survey, actually, it has been
22 about the same design over the entire 30-year
23 period with a few changes now and then. It covers
24 the entire country, it is representative nationally
25 and also within each state, the sample is large

1 enough and designed, so that we can get estimates
2 within every state and the District of Columbia.

3 The population coverage is the civilian,
4 noninstitutionalized population, age 12 and older.
5 The data are collected using an anonymous
6 face-to-face interview with computer-assisted
7 interviewing.

8 Most of the questions, in fact, all the
9 questions on drug use and other sensitive behaviors
10 are done with self-administration where the
11 respondent keys in the responses on the computer.

12 Questions come up on the screen and also
13 in headphones, so that they can listen, and this is
14 to promote privacy and encourage honest reporting.

15 In 2002, we had 68,000 respondents.

16 [Slide.]

17 Besides the name change, there were some
18 other changes that occurred in the survey, most
19 importantly was that we started paying incentives
20 to respondents. Every person who participates in
21 the survey is given an incentive payment.
22 Unexpectedly, this turned out to actually affect
23 the reporting of the various behaviors on the
24 survey, so the 2002 data represents a new baseline
25 for the estimates that we produce. These estimates

1 from the 2002 survey are not comparable for trend
2 purposes to the earlier surveys.

3 [Slide.]

4 The nonmedical prescription drug use data
5 that we collect is based on this definition. Of
6 course, the survey focuses mainly on marijuana,
7 well, it focuses on all substances, marijuana,
8 cocaine, heroin, and also tobacco and alcohol, but
9 there are also a series of questions on
10 prescription type drugs using this definition,
11 prescription drug that is not prescribed for you,
12 or you took the drug only for the experience or
13 feeling it caused.

14 This is within the context of the entire
15 survey asking about all the other illicit drugs.
16 So, we are not picking up legitimate use, and we do
17 exclude over-the-counter misuse, as well as use.

18 [Slide.]

19 The way the data are collected it we focus
20 on major categories of drugs, and what we have
21 defined as pain relievers looks like this. It is
22 primarily opiates, but the way we ask the questions
23 is that we use a pillcard like this with pictures
24 of really the most prevalent pain relievers, and
25 use this as a memory jog for the respondent.

1 The main purpose is to initially identify
2 if the have ever used any of these substances, and
3 then if they have used at least one. Then, we go
4 into more detailed questions about current use and
5 frequency of use and problems associated with the
6 group pain reliever, so we only get, for these
7 specific drugs shown on this pillcard, we only get
8 whether they have ever used that drug.

9 The way it is done here, it is also
10 important to note that above the red line here on
11 the pillcard, you have these three major
12 categories, and there is a question for each of
13 those - did you ever use Darvocet, Darvon, or
14 Tylenol with codeine? Yes/No. So, that is asked
15 for those three, and those three cover a large
16 percentage of all the pain reliever abuse that we
17 pick up.

18 Then, there is another question that asks
19 if they have used any of the other pills shown on
20 the card below the red line, and then they just
21 check off which ones they have used, so we don't go
22 through each of these specific drugs, all 21 drugs,
23 and ask about whether they have used them.

24 So, what we have, again, this is used as a
25 memory jog, it is not intended to provide the most

1 precise estimates for the use of each of these
2 substances. We know that this method of asking
3 about some of these drugs at the bottom of the
4 chart is going to be giving us conservative
5 estimates because there will be some drugs that
6 won't be reported.

7 [Slide.]

8 Here is the estimate of lifetime use that
9 we get from using that pillcard. You can see the
10 top three are those three above the red line, the
11 Darvocet, Darvon, Tylenol with 18.9 million
12 lifetime users, and you can see the other drugs -
13 codeine, hydrocodone, demerol, morphine, OxyContin
14 at 1.9 million, Dilaudid at 1.1 million.

15 [Slide.]

16 Here is what the pain reliever data looked
17 like when we put all those lifetime measures
18 together and asked the more specific questions
19 about use of pain relievers in general. Overall,
20 about 29.6 million, which is 12.6 percent of the
21 population 12 and older, have ever used any of
22 those pain relievers nonmedically, and 10.9 million
23 was 4.7 percent had used in the past year, and 4.4
24 million in the past month.

25 Then, we also have a series of questions

1 that try to get at DSM for dependence or abuse.
2 For anybody who has used any of the pain relievers
3 nonmedically within the past year, they go through
4 a series of questions asking about the DSM
5 criteria, and then we classify people as to whether
6 they are dependent or abuse.

7 Here we have an estimate of 1.5 million,
8 which is 0.6 percent of the population.

9 [Slide.]

10 Just to put that in context, here is what
11 the dependence or abuse estimates looked like for
12 all the substances we asked about, of course
13 excluding alcohol, which would be way off the
14 chart, but marijuana is at 4 million, 4.2 million,
15 and pain relievers and cocaine are about at the
16 same level, at about 1 1/2 million, higher than
17 tranquilizers, stimulants, hallucinogens, heroin,
18 inhalants, and sedatives.

19 [Slide.]

20 Now, the trends, even though I told you we
21 can't compare to the earlier data, what we have
22 done here is we have constructed trends just from
23 the new data from the 2002 survey by using the
24 responses to the questions on age at first use, so
25 if we know that somebody has first used 10 years

1 ago, you can back date when they were a lifetime
2 user and correct for their age.

3 So, we construct these trends based on
4 that and it shows substantial increases in
5 nonmedical pain reliever use. This is looking at
6 the 12 to 17 age group and the 18 to 25 age group.

7 [Slide.]

8 Also, looking at some of the specific
9 drugs, we can see the OxyContin trend here, which
10 we saw up through the 2001 survey, basically
11 doubling each year from around 200,000 up to
12 400,000 and then up to about a million in 2001. I
13 wanted to show what the 2002 data looked like.

14 I made it a different color with a
15 different label and put a line down the middle just
16 to make the point that these are not really
17 comparable, but on the other hand, none of the
18 comparisons we have made, none of the effects of
19 the change in the survey were this large, so I
20 think it is safe to say that the estimate is higher
21 or the number of users of OxyContin is higher in
22 2002 than 2001 although it may not be at this level
23 doubling.

24 [Slide.]

25 Another way we can look at the trends

1 besides looking at lifetime use is to look at how
2 many new users each year, how many people first
3 tried pain relievers for the first time in that
4 year, and here is what the trend looks like there.

5 There is a small dip at the end there of
6 that curve which is not statistically significant,
7 but basically, it does show that not only was there
8 an increase in initiation of pain reliever misuse
9 in the '90s, in the late '90s, but it is still at a
10 high level of over 2 million new users each year.

11 [Slide.]

12 Now, one thing we can do to look at what
13 the--even though we only have the lifetime use of
14 OxyContin--if we want to see what effect, how that
15 trend in OxyContin misuse is related to the overall
16 pain reliever trend, and is it driving that trend,
17 well, here, we are looking at the recent new
18 initiates to pain reliever abuse.

19 In other words, on this chart here, if you
20 look at the last three data points, those are the
21 recent new users, and it's about 7 million people.
22 So, we take that population and look at what other
23 drugs they have used, and you see that most of
24 them, 75 percent have used marijuana, 46 percent
25 hallucinogens, 32 percent cocaine, 3 percent

1 heroin. Only 9 percent ever used OxyContin, so it
2 doesn't look like, from those data, that the
3 increase in pain reliever misuse is being driven by
4 OxyContin use.

5 [Slide.]

6 Another way to look at it would be to look
7 at the 1.9 million OxyContin users, nonmedical
8 users, and just see what other drugs have they
9 used, and you see 98 percent have used some other
10 pain reliever nonmedically, 98 percent have used
11 marijuana, 89 percent hallucinogens, and cocaine
12 and heroin, as well. So, clearly, the people who
13 are using OxyContin are coming from a group that
14 are already using other illicit drugs.

15 [Slide.]

16 This shows that first group in more
17 detail. Again, this is the lifetime OxyContin
18 users looking at what other pain relievers they
19 use, and it's across the board, 80 percent with the
20 Vicodin, Lortab, Lorcet, and high percentages of
21 all the other pain relievers from that pillcard.

22 [Slide.]

23 These next few slides take a look at the
24 demographics of the OxyContin users, the lifetime
25 OxyContin users, comparing them to the demographics

1 of overall pain reliever abusers. This would be
2 the population with dependence or abuse on pain
3 relievers on the left compared to the OxyContin
4 users, just to look at the shape of the curve and
5 whether there is a different population with
6 OxyContin use.

7 This is certainly a similar pattern here
8 with the younger age groups having the higher
9 rates, but among the OxyContin users, that
10 18-to-25-year-old group really dominates much more
11 than it does for the pain reliever dependence and
12 abuse.

13 [Slide.]

14 Looking at it by gender, there is really
15 no difference in the rate of dependence or abuse on
16 pain relievers between males and females, but
17 OxyContin users are more likely to be male, 1
18 percent versus 0.6 percent.

19 [Slide.]

20 This looks at race/ethnicity and you can
21 see that the OxyContin users are much more likely
22 to be white and much less likely to be black or
23 African-American or Hispanic.

24 [Slide.]

25 This breaks it out by--it is not really

1 rural areas, but you are looking at, in the blue
2 bar there, the nonmetropolitan areas, we don't have
3 enough data to break it out into true rural areas,
4 but it does show that the rates are about the same
5 in the nonmetropolitan and the large metropolitan
6 areas, but it is the small metropolitan areas,
7 those would be metropolitan areas with less than a
8 million population that have the highest rate of
9 dependence or abuse on pain relievers, as well as
10 lifetime OxyContin nonmedical use.

11 [Slide.]

12 Finally, this slide looks at the
13 dependence or abuse on any pain reliever depending
14 on whether the person has ever used OxyContin or
15 not, and also Dilaudid at the bottom. You can see
16 that of the pain reliever users who have used
17 OxyContin, 20 percent have dependence or abuse, and
18 only 4 percent of the other pain reliever users
19 have dependence or abuse.

20 Similarly, for Dilaudid, the Dilaudid
21 users are more likely to be dependent or abusing
22 than users of pain relievers that did not use the
23 Dilaudid.

24 [Slide.]

25 Just to summarize the conclusions of these

1 data, first of all, there is significant increases
2 in nonmedical use of pain relievers and OxyContin
3 in particular. The nonmedical OxyContin users are
4 primarily coming from a population who are already
5 abusing other drugs, and the OxyContin and Dilaudid
6 users are more likely to have dependence or abuse
7 on pain relievers than other nonmedical pain
8 reliever users.

9 That's it. Thanks. I will take
10 questions, I guess.

11 DR. KATZ: Actually, I think it would be
12 better to hold questions until after all three
13 SAMHSA presentations, so if I could ask people to
14 just jot down their questions and save them for the
15 end.

16 Thanks. Hopefully, you won't go too far
17 and we can hear from you.

18 Our next speaker is Deborah Trunzo, who is
19 the team leader of the Office of Applied Sciences
20 at SAMHSA, who will be presenting Data on Treatment
21 Admissions for Opiate Abuse.

22 Data on Treatment Admissions for Opiate Abuse

23 MS. TRUNZO: I am going to be talking
24 about data from the Treatment Episode Data Set,
25 specifically, treatment admissions for the abuse of

1 opiate analgesics.

2 [Slide.]

3 The Treatment Episode Data Set, or TEDS as
4 we call it, consists of client-level information on
5 admissions to substance abuse treatment. This is
6 information that is routinely collected by states
7 by monitor their individual substance abuse
8 treatment systems. So, as a consequence, TEDS
9 includes data primarily from treatment facilities
10 that receive public funds.

11 TEDS is a very large data set. We get
12 about 1.7 million admission records annually from
13 the states, and I should add that at any given
14 time, virtually all the states are participating in
15 TEDS.

16 Selected data items from the individual
17 state data systems are converted to a standardized
18 format consistent across the states, and then these
19 standardized data are what make up TEDS.

20 [Slide.]

21 The TEDS data elements include demographic
22 variables, such as age, gender, race, and
23 ethnicity, but the heart of TEDS is formed by the
24 data elements on drug use. For each admission, the
25 primary, secondary, and tertiary drugs of abuse are

1 identified along with route of administration,
2 frequency of use at admission, and the age at which
3 the client first used each drug.

4 The treatment variables in TEDS include
5 the type of treatment service to which the client
6 is admitted, whether methadone is planned as a part
7 of the treatment, the number of prior treatment
8 episodes, and source of referral.

9 [Slide.]

10 TEDS is sort of a strange beast and has
11 quite a number of features and limitations that are
12 important to understand before getting into the
13 actual data.

14 First of all, it is important to be aware
15 that TEDS is an admission-based system, it does not
16 count individuals, so, for example, a person
17 admitted to treatment twice within a calendar year
18 would count as two admissions, not as one.

19 Despite its size, TEDS does not include
20 all admissions to treatment. Because the data
21 comes from state systems, admissions to
22 federally-owned facilities, such as VA facilities,
23 are not included, and also, as a rule, admissions
24 to private for-profit facilities are not included.

25 So, in terms of absolute numbers, TEDS

1 underestimates the scope of the problem. We
2 estimate that TEDS probably covers about 80 percent
3 of the nation's substance abuse treatment
4 admissions.

5 Another important factor to keep in mind
6 is that TEDS reports on the top three drugs of
7 abuse at time of admission. It does not include
8 all the drugs that the client may have abused prior
9 to admission.

10 Also, substances of abuse are reported to
11 TEDS in generic categories or classes. My
12 particular this morning or this afternoon, I should
13 say, will be on a group of drugs in TEDS classified
14 as "Other" opiates. By that, I mean other than
15 heroin and other than nonprescription methadone.

16 This category, by elimination, consists of
17 opiate analgesics. TEDS has some very limited data
18 on specific drug within this group, but even so,
19 TEDS is not able to identify specific formulations
20 or brand names.

21 [Slide.]

22 I think for the purposes here today, it is
23 important to realize that TEDS is not an early
24 warning system, in fact, it is the opposite.
25 Typically, there is a lag of some years between

1 first use of a substance and admission to treatment
2 for abuse or addiction of that substance.

3 Unfortunately, there is also a
4 considerable time lag between treatment admission
5 and when we receive the admission data records from
6 the states. This delays the release of TEDS data
7 at the national level, so much of the data that I
8 will be showing you in a minute is for the year
9 2000.

10 However, having said all this, TEDS data
11 does have predictive value. The nature of
12 addiction is a constant, so knowledge of past
13 patterns of abuse that have led someone into
14 treatment can be useful for assessing future risk.

15 [Slide.]

16 Now, for some of the data. As indicated
17 by the small red sliver on this pie, admissions to
18 treatment for primary abuse of opiate analgesics
19 made up a very small proportion of the 1.7 million
20 admissions to treatment reported to TEDS in the
21 year 2000, but in terms of absolute numbers, even 2
22 percent represents a significant problem. This is
23 around 30,000 admissions.

24 [Slide.]

25 In 2000, there were about 50,000

1 admissions to treatment where the primary,
2 secondary, or tertiary substance of abuse was an
3 opiate analgesic. For half of these admissions,
4 narcotic analgesics were the primary substance of
5 abuse. The other half represented dual addictions,
6 such as abuse of opiate analgesics in addition to
7 abuse of another substance. Most often this was
8 alcohol or heroin.

9 [Slide.]

10 TEDS has been producing data since 1992,
11 which allows us to look at trends. As shown here,
12 the number of treatment admissions in which opiate
13 analgesics were involved was relatively stable
14 between 1992 and 1997, but this increased sharply
15 in 1998, 1999, and 2000. So, the question is what
16 is behind this dramatic increase.

17 Unfortunately, TEDS cannot answer this
18 question conclusively, but the beginning of the
19 sharp rise does follow the introduction of
20 OxyContin. This suggests that we may be seeing the
21 early part of the wave of OxyContin addicts. If
22 this is the case, we would expect the increase to
23 continue as the wave has some more time to build.

24 [Slide.]

25 The data appear to bear this out.

1 Although national data are not yet available for
2 2001 and 2002, at this time, we do have preliminary
3 data from some states.

4 Five states were responsible for 40
5 percent of all admissions involving opiate
6 analgesics in 1999 and 2000. These states are
7 California, Florida, Massachusetts, New York, and
8 Pennsylvania. These states have reported their
9 preliminary data for 2001 and 2002. In each of
10 these states, the dramatic increase in the number
11 of opiate analgesic admissions continues into 2001
12 and 2002.

13 [Slide.]

14 The five states in the previous slide
15 accounted for large numbers of admissions, but
16 there may be other states where admissions for
17 opiate analgesics are occurring at an even higher
18 rate.

19 This map shows the rate of admissions
20 involving these drugs by state for the year 1992.
21 This year was used to set benchmarks for comparison
22 with subsequent years.

23 The five red states represent the top 10
24 percent of reporting states' rates in 1992. In
25 these states, admissions for opiate analgesics were

1 at least 24 per 100,000 population.

2 The brown states have rates in the top 11
3 to 25 percent, and the yellow states have rates in
4 the top 26 to 50 percent. The pale yellow states
5 are those in which the admission rate was below the
6 median for all states combined.

7 [Slide.]

8 By 1997, rates had increased in a number
9 of states. There are now 11 states with admission
10 rates of at least 24 per 100,000 population.

11 [Slide.]

12 By 2000, 22 states had opiate analgesic
13 admission rates of at least 24 per 100,000. Rates
14 were particularly high in the New England States
15 ranging from 75 per 100,000 in Connecticut to 150
16 per 100,000 in Maine.

17 [Slide.]

18 The increase in admissions involving
19 opiate analgesics between 1992 and 2000 was much
20 larger than could be accounted for by an overall
21 increase in treatment admissions. In TEDS, the
22 total number of treatment admissions increased by
23 15 percent during these years.

24 In that same period, admissions for
25 primary heroin abuse increased by 64 percent.

1 Admissions for primary abuse of opiate analgesics
2 increased by 181 percent, and the number of
3 admissions involving any primary, secondary, or
4 tertiary abuse of these drugs increased by 143
5 percent.

6 [Slide.]

7 A group of 10 states collect data on the
8 specific opiate analgesics responsible for
9 treatment admissions. In the three years from 1997
10 to 2000, treatment admissions involving narcotic
11 analgesics increased by 49 percent. Specific drugs
12 had increases that were much higher, 391 percent
13 for oxycodone, 257 percent for propoxyphene, and
14 172 percent for hydromorphone.

15 [Slide.]

16 The characteristics for admissions of
17 abuse of narcotic analgesics did not change much
18 between 1992 and 2000. Just over half were male,
19 and over 80 percent were white. About
20 three-quarters were 30 years old or more. Referral
21 to treatment through the criminal justice system
22 was relatively rare as most admissions were
23 self-referred.

24 The major change between 1992 and 2000 was
25 the substantial increase in the proportion of new

1 users of opiate analgesics, and we define new users
2 as those entering treatment within three years of
3 first use. The proportion of new users increased
4 from 27 percent in 1992 to 41 percent in 2000.

5 [Slide.]

6 This slide compares for the year 2000, all
7 admissions involving opiate analgesics and new
8 users of opiate analgesics. Their demographic
9 characteristics are similar with the exception of
10 age. The new users are younger, 12 percent are
11 under the age of 20, and 40 percent are under the
12 age of 30.

13 [Slide.]

14 As mentioned before, in 2002, treatment
15 admissions involving opiate analgesics were
16 overwhelmingly white.

17 [Slide.]

18 In this slide, 1997 admissions are
19 depicted by the green line, and 2000 admissions by
20 the red line. The number of admissions involving
21 opiate analgesics increased for all ages during the
22 three-year period, but the largest increase was
23 among young people.

24 [Slide.]

25 This slide shows the same information by

1 sex from 1997 to 2000. There were increased
2 numbers of both male and female admissions
3 involving opiate analgesics. The increase was
4 especially pronounced among young men.

5 [Slide.]

6 Finally, this slide shows the trend in
7 median duration of use before first treatment in
8 the five large states that I had mentioned earlier,
9 that is, California, Florida, Massachusetts, New
10 York, and Pennsylvania.

11 Between 1997 and 2002, the time between
12 first use of opiate analgesics and admission to
13 treatment for abuse of these drugs had declined by
14 half. In 1997, the median duration of use before
15 treatment was eight years. By 2001, it was only
16 four years.

17 Contrast this with earlier years in which
18 the median time before treatment was 10 years.
19 Again, the question is raised what are the causes
20 of this shift in behavior amongst abusers of opiate
21 analgesics, and again, a plausible hypothesis,
22 given other evidence, is that OxyContin may be a
23 factor.

24 That is all that I have to present this
25 morning. Our 2001 report with national data will be

1 coming out shortly, and I encourage you all to
2 check out the SAMHSA web site, click on Statistics
3 and Data, and you will find more information on
4 TEDS and the specific states that are involved.

5 Thank you.

6 DR. KATZ: Thank you very much.

7 Once again, we will just hang onto your
8 questions until the end of the next presentation,
9 which will be by Dr. Judy Ball, who is the team
10 leader of the Office of Applied Sciences at SAMHSA
11 who will be presenting Opiate Abuse Data for us.

12 Opiate Abuse Data

13 DR. BALL: I am not going to go through
14 much of the methodological detail that was provided
15 in your briefing book in the interests of time. I
16 am, however, going to talk today about immediate-
17 and sustained-release opioid analgesics as shown in
18 the DAWN data.

19 [Slide.]

20 All of the findings that I am presenting
21 today will come from the national probability
22 sample of hospitals. In 2002, we had 437 hospitals
23 that participated in DAWN. It's a representative
24 sample of hospitals for the 48 states. We also
25 collect data on drug abuse related deaths that are

1 reviewed by medical examiners and coroners. That
2 is not a national database, and I will not be
3 presenting any of that information today.

4 [Slide.]

5 DAWN cases, it is important to remember
6 that a DAWN case is a patient who is between the
7 age of 6 and 97, who was treated in the emergency
8 department. The visit is related to drug abuse,
9 and that is defined very narrowly as the patient
10 intended to use the drug for dependence, or psychic
11 effects, or for suicide attempt or gesture.

12 During the period of the data I am showing
13 you today, DAWN did not collect anything that did
14 not meet this narrow definition of drug abuse.

15 [Slide.]

16 The drug detail in DAWN is quite varied.
17 We collect data on illicit prescription and
18 over-the-counter drugs, but the specificity of that
19 drug information is dependent on what is contained
20 in the medical record. So, sometimes we get brand
21 names, sometimes we get chemical names, sometimes
22 we get generic, sometimes we only get classes of
23 drugs, and that is a particular challenge in
24 looking at the opiates for this presentation.

25 The drug mention is simply a unit of

1 measurement for individual drug. Most visits
2 involve more than one drug, 1.8 drugs on average.
3 So, each individual report of a drug is referred to
4 as a mention.

5 [Slide.]

6 To put the opiate data into context, this
7 chart compares estimates for 1994 and 2002. The
8 2002 bar is the pink one, 1994 is the gold one.
9 This shows that the opiates, the top set of bars
10 there, other than heroin, grew 2.7 times over this
11 nine-year period. Marijuana, the third set down,
12 grew nearly 3 times, but cocaine, heroin, and the
13 benzodiazepines grew less than 50 percent over this
14 time period.

15 The bottom line is that by 2002, the
16 opioids were as frequent in emergency department
17 visits related to drug abuse as heroin or
18 marijuana, but they were less frequent than
19 cocaine.

20 [Slide.]

21 This shows you a breakdown of the opiates
22 and opioids in DAWN. Thirty-five percent of the
23 mentions are due to an unnamed ingredient.
24 Virtually all of these are reported to DAWN simply
25 as opiates. It is very likely that this is

1 information that is coming from laboratory tests
2 that may not have had confirmatory testing.

3 The four named opiates that we are
4 focusing on today, hydrocodone, oxycodone,
5 morphine, and fentanyl make up about 44 percent of
6 mentions of opioids, and the other 21 percent come
7 from the various others, codeine, and so forth.

8 [Slide.]

9 Now, for this analysis, we can break the
10 various opioids down into those that have immediate
11 release type, sustained release types, and, of
12 course, in DAWN, we always have to contend with the
13 types that are unspecified.

14 So, for the unnamed, for example, they
15 would always be unspecified. Hydrocodone or
16 hydromorphone, because they only occur in immediate
17 release products, can all be classified as
18 immediate release, but fentanyl, morphine, and
19 oxycodone can be divided between immediate release
20 products, sustained release products, and those
21 products that were reported to us without
22 specifying the formulation.

23 [Slide.]

24 So, to look at trends for each of these
25 groups, we will first look at the unnamed opiates,

1 which are, in fact, the most frequently reported
2 opiate, but we can't ignore them because they are
3 the most frequent.

4 Over the nine years, there was 400 percent
5 increase, and we have seen a one-year increase from
6 2001 to 2002 of 31 percent.

7 [Slide.]

8 For hydrocodone, which is available only
9 in immediate release forms, it is the second most
10 frequently reported opiate in DAWN. In 2002, there
11 were over 25,000 mentions, and the nine-year
12 increase in hydrocodone was 170 percent. The
13 recent increases from 2001 to 2002 are fairly
14 moderate at 17 percent. The two-year increase from
15 2000 to 2001 was 25 percent.

16 [Slide.]

17 Hydromorphone. These numbers are much
18 smaller. Where we were talking in the tens of
19 thousands previously, now we are talking in the
20 individual thousands. You will see that for
21 hydromorphone, I do not have an estimate here for
22 2000, 2001, or 2002.

23 The reason is that the relative standard
24 errors on these estimates--don't forget these are
25 all estimates that are produced from sample

1 data--so there is sampling error surrounding all of
2 the estimates.

3 Estimates for these three years for
4 hydromorphone had relative standard errors that
5 exceeded 50 percent. That, in essence, means that
6 the estimate may not be significantly different
7 than zero, so we do not report them because we
8 don't trust them.

9 The other years that you see here, there
10 is still a fair amount of variation. Only two
11 years, 1995 and 1996, had relative standard errors
12 below 30 percent, so there really isn't a whole lot
13 that we can conclude from the hydromorphone
14 estimates.

15 [Slide.]

16 Fentanyl. It does have an immediate and a
17 sustained release product, but the numbers in DAWN
18 are such that if we break them apart, we run into
19 precision problems, so they are all combined here,
20 all different types.

21 What we see with fentanyl is an
22 interesting pattern. From 1999 to 2001, that
23 two-year period, we saw more than a doubling in
24 mentions, and then in the last two years, 2001 to
25 2002, we see another more than doubling, but the

1 numbers here are so very small, the estimate in
2 2002 is 1,506 mentions. It is really quite tiny.

3 [Slide.]

4 For morphine, again, there is an immediate
5 release, there is a sustained release, but when we
6 break them apart, the estimates aren't precise
7 enough to present, so this is all types.

8 Morphine has been behaving quite
9 differently than the other opiates in emergency
10 department mentions. We do see a significant
11 increase of 126 percent. That is more than
12 doubling from 1996 to 1998, a 71 percent increase
13 from 1997 to 1999, but in recent years, although
14 the bars look like they are different heights,
15 those are not significant differences. Those
16 variations that you see there are within the margin
17 of error.

18 [Slide.]

19 Now, for oxycodone, the numbers are large
20 enough that we can, in fact, split them into
21 immediate release, sustained release types, and
22 types unspecified, and this is the first set of
23 bars for the types that are unspecified.

24 The numbers are fairly low. I was
25 actually surprised when I looked at this at how low

1 they were. You don't see a bar in 1995 because the
2 estimate had a relative standard error of greater
3 than 50 percent, but the other years, the estimates
4 are within reasonable ranges.

5 We do not see an increase when we look at
6 the last two years, from 2000 to 2002, or 2001 to
7 2002. The only significant increase we see in
8 these actually occurs between 1996 and 1998.

9 [Slide.]

10 For the immediate-release types of
11 oxycodone, the numbers here are considerably higher
12 than the unspecified ones. We do see a significant
13 increase from 1996 to 1998 of about 37 percent,
14 another significant increase from 1999 to 2001 of
15 59 percent, but the estimates for 2000, 2001, and
16 2002 are essentially stable, there are no
17 significant differences there, and this is all of
18 the immediate-release types of oxycodone.

19 [Slide.]

20 For sustained-release types, this is
21 largely OxyContin, the OxyContin was first approved
22 I believe in 1995. We saw the first mention in
23 DAWN was actually in 1997, but the numbers were so
24 small, you can't see them. Since then, the
25 increases have been quite dramatic.

1 By 2002, we see over 14,000 mentions of
2 sustained-release oxycodone in DAWN nationally, and
3 the one-year increase was 41 percent. The two-year
4 increase, though, is quite shocking because it's
5 over 400 percent, but we are also talking about
6 starting out with numbers that are very small.
7 When you are working with small numbers, you get
8 really big percentage increases very easily.

9 [Slide.]

10 So, if we put the three types together for
11 oxycodone, the trend looks like this. Here again,
12 the sustained-release is the yellow, the
13 intermediate-release is the pink, the unspecified
14 types, the blue.

15 The nine-year increase overall is about
16 450 percent. The one-year increase actually here
17 between 2001 and 2002 is not significantly
18 different, and it is because of the modulating
19 effects of the immediate-release here, but we do
20 see a doubling in mentions over the past two years,
21 between 2000 and 2002.

22 The total number of mentions in 2002 for
23 oxycodone here is over 22,000 mentions, and since
24 1998, we have seen a doubling every two years in
25 those mentions.

1 [Slide.]

2 This is going to show you the proportions
3 across time as the sustained-release versions of
4 oxycodone have become more prominent. It starts
5 out at zero in 1997 and goes to 63 percent of all
6 the oxycodone mentions by 2002.

7 [Slide.]

8 My colleagues have talked before about the
9 issue of multiple drug abuse, and we certainly see
10 the same in DAWN. I took all of the DAWN episodes
11 that involved a mention of the four major drugs
12 that we are looking at here - fentanyl,
13 hydrocodone, morphine, and oxycodone.

14 I didn't do the hydromorphones because of
15 the precision problem, and looked at these in terms
16 of visits, not in mentions, and then looked within
17 the visit that involved one of these index drugs of
18 what other drugs were there.

19 The findings were quite interesting. We
20 find that the fentanyl numbers are a little
21 different, but we see quite consistent patterns for
22 hydrocodone, morphine, and oxycodone. More than
23 two out of three of the visits involving one of
24 these drugs also involved other drugs.

25 A large share of them, about 4 out of 10,

1 involved a major substance of abuse, and "major
2 substance of abuse" in DAWN lingo are the standard
3 alcohol, cocaine, heroin, marijuana, amphetamines,
4 methamphetamines, and the less frequent drugs of
5 abuse, such as the club drugs Ecstasy, JHB, and so
6 forth.

7 We also see that there is a moderate
8 share, we see here 13 to 26 percent of visits
9 involving these drugs also involve a
10 benzodiazepine, and then when I actually looked at
11 these drugs and then looked to see if there was
12 more than one opiate in the particular visit, I
13 find a surprising number, from 14 percent to 27
14 percent of the visits involving these drugs also
15 involve another opiate.

16 So, the idea of the polysubstance abuse
17 that comes out in each of these data sets, I think
18 is really quite remarkable and confirmatory.

19 [Slide.]

20 Let me remind you again the limitations of
21 the DAWN data that we are looking at here. These
22 are reportable cases of drug abuse based on the
23 patient's intent as documented in the medical
24 record. Patients are never interviewed, so this
25 information has to be gleaned from a retrospective

1 review of charts.

2 We do have variable reporting of
3 nonspecific terms, and it is possible that a chart
4 could indicate that a patient took OxyContin, and
5 they took some other form of oxycodone. How many
6 times have you heard people misuse the two terms?
7 That is possible, and it is not something that we
8 can quantify.

9 It is also not possible to distinguish
10 from these data, diversion versus abuse of these
11 drugs from people who have legitimate
12 prescriptions, it is simply not possible, and for
13 the period of time that these data cover, we
14 actually collected, except for knowing that the
15 person was in the emergency department for some
16 treatment, we don't have any information about the
17 health condition that brought them there.

18 I am happy to say that starting in 2003,
19 we are correcting that and making headway on many
20 of these other limitations, as well.

21 Thank you. I will be happy to take our
22 questions, as will my colleagues.

23 DR. KATZ: Thank you, Dr. Ball.

24 Let's go ahead and take questions. Dr.
25 Shafer, you had one from before. Do you still have

1 a question?

2 DR. SHAFER: This is a question for Ms.
3 Trunzo. You showed us data that use of narcotic
4 analgesics from 1997 to 2000 had gone up 49
5 percent, and then specifically, cocaine had gone up
6 71 percent, hydromorphone 172, oxycodone 391
7 percent, but I didn't see anything going down, and
8 all of the individual components have gone up much
9 more than 49 percent.

10 So, my question is what went down during
11 that period of time?

12 MS. TRUNZO: That is a fair enough
13 question. There is a large component of "Other,"
14 other opiates that we can't sort out, we don't know
15 what has gone into that pot, but amongst the ones,
16 the specific ones that are identified, they had
17 gone up, the oxycodone and hydromorphone and
18 propoxyphene had gone up the amounts that I had
19 said.

20 But in terms of numbers, the ones in the
21 "Other" category far outnumber the ones that we
22 can't identify in the "Other" category are by far
23 in the largest pot, so the average then is brought
24 down to 49 percent overall.

25 DR. SHAFER: So, some of the increase is

1 then just simply reclassifying "Other" into these
2 other categories.

3 MS. TRUNZO: Yes, right, it is a small
4 portion of the total "Other."

5 DR. KATZ: Dr. Strom.

6 DR. STROM: I think between what we heard
7 in the first of the presentations and what we heard
8 before from the Office of Pharmacoepidemiology have
9 the answers to the question I asked earlier, but I
10 want to nail that down to be sure.

11 If I understood correctly, it sounds like
12 the proportion of all of the drug abuse underway in
13 terms of lifetime nonmedical use which is due to
14 modified forms of opiates is actually very small
15 and most of that is associated with polydrug use.

16 Another way of look at it is proportion of
17 prescriptions. So, of the prescribed drug, what
18 proportion ends up being misused, and if I
19 understood these numbers correctly, that may be
20 fairly high.

21 The question is really to Mr. Gfroerer and
22 Dr. Rigoni to make sure I have got the numbers
23 right. If I understood the numbers correctly,
24 basically, there is roughly 2.5 million new users
25 each year of nonmedical use of pain relievers in

1 recent years. Roughly 10 percent of that would be
2 OxyContin, so that is about 250,000 people.

3 The total number of new prescriptions for
4 OxyContin in the recent year was about 6 million.
5 Even assuming that the average person on the drug
6 got two prescription, that drops it down to 3
7 million. That is 250,000 divided by 3 million or
8 were approaching 10 percent of the prescriptions
9 are associated with nonmedical use.

10 Are those numbers correct?

11 DR. KATZ: Who wants that one?

12 [Laughter.]

13 MR. GFROERER: I certainly can't speak to
14 your data on prescriptions, but the numbers that
15 you cited on the OxyContin and the nonmedical pain
16 reliever use were correct, about 2 to 2 1/2 million
17 new users each year. Now, we don't know how many
18 of those were OxyContin new users. We can't tell
19 which was used first, whether they first used
20 OxyContin and then moved on to other drugs.

21 We only know that of those 7 million new
22 users within the past three years of the pain
23 relievers, about 10 percent, well, I think it was 9
24 percent had ever used OxyContin. In total, about
25 1.9 million have ever used OxyContin nonmedically.

1 DR. STROM: So, that 9 percent, because it
2 comes from lifetime use, and given the time trends
3 we are seeing, might actually be an underestimate
4 if we had data available from 2001 as opposed to
5 lifetime use.

6 MR. GFROERER: It is 9 percent of the new
7 users, not 9 percent of all lifetime, because there
8 is 29 million lifetime nonmedical users. It is
9 only those 7 million are the recent new users, and
10 9 percent of those had used OxyContin.

11 DR. STROM: So, then, of the 250,000
12 users--

13 MR. GFROERER: I don't have that number.
14 What is the 250,000?

15 DR. STROM: I was looking at your graph
16 before that and it was roughly 2 1/2 million new
17 users and roughly 10 percent of those, 9 percent.

18 MR. GFROERER: Over the three-year period,
19 those 7 million new pain reliever users, nonmedical
20 users, 9 percent, which would be about 700,000 ever
21 used. I don't know that it was 250,000 each year.

22 DR. STROM: These are close enough as
23 approximations, I am just changing it to annual
24 numbers, so that it is roughly 250,000. What are
25 the total number of ideally newly prescribed

1 patient getting OxyContin each year? As far as I
2 can tell from the NPA data, it looked like there
3 were 6 million prescriptions.

4 MR. GFROERER: I can't answer that one.

5 DR. RIGONI: Because the DEA does
6 scheduled opioids, every prescription would be kind
7 of representative of a new patient to therapy, so
8 it is hard to tell from the NPA data because it's
9 not longitudinal how many people are actually new
10 to opioid therapy, because everyone would be new.

11 DR. STROM: How about from the NDTI data,
12 though, you could tell what proportion of
13 prescriptions are new versus refills?

14 DR. RIGONI: Technically, no, because
15 there are no refills for Schedule II opioids, so
16 they wouldn't be counted as refills, they would be
17 all counted as new prescriptions.

18 DR. STROM: But my 6 million is a correct
19 read of your data there?

20 DR. RIGONI: Right, and also it is kind of
21 hard because it is comparing apples and oranges,
22 where we have medical use of opioids and NPA data,
23 and they are actually finding out about nonmedical
24 use of opioids, so it is kind of hard to compare.

25 DR. STROM: But it sounds like my

1 calculations are correct, that given OxyContin is a
2 chronically used drug, if there are 6 million
3 prescriptions written for it in a recent year, if
4 you even assume the average person got two
5 prescriptions, which may be an underestimate if a
6 lot of these people are on chronic therapy, then,
7 you are talking about 3 million users in that year,
8 new users, sorry, users in that year, and you are
9 talking about 250,000 people who used it for
10 nonmedical purposes to compare that to, comparing
11 the two data sources.

12 DR. RIGONI: I guess I would have to look
13 at more longitudinal data to see if that is
14 correct, two prescription per year assumption, but
15 I don't know that off the top of my head.

16 MR. GFROERER: Just to follow-up, though,
17 in terms of the 250,000 calculated new users, those
18 people could be users the next year. The new use
19 doesn't mean that is the only year that those
20 people used, so they could be users the next year
21 and the year after that.

22 DR. ARONSON: I have a question for Ms.
23 Trunzo and I promise you it won't involve numbers.

24 I noticed on your graphs that there is
25 clearly a regional difference in the absolute

1 number of admissions to the treatment and episodic
2 data set. Was there an equal, if you will,
3 propensity of increase over the years even though
4 the absolute number was different? Did you see a
5 regional difference in the change, if you will, the
6 slope of increase over the years?

7 MS. TRUNZO: I haven't looked at that.

8 DR. ARONSON: The reason I ask is that you
9 showed a graph where you mentioned the narcotic
10 analgesic admissions in some states.

11 MS. TRUNZO: Those were rates.

12 DR. ARONSON: I noted that California was
13 particularly flat relative to the other states on
14 your graph. Can you speak to that?

15 MS. TRUNZO: Only to say that their rate
16 probably has remained stable as indicated in the
17 graphic, however, I included that their preliminary
18 data in the slides for 2001 and 2002 because they
19 account for such a large number of admissions.

20 DR. ARONSON: The corollary to that, and
21 it's an observation I had with some of my
22 colleagues during the break, was that California, I
23 would note, has enacted some educational, if you
24 will, linkages to pain management to their CME
25 expectations, and I just wished to make that

1 observation.

2 MS. TRUNZO: As I also said in terms of
3 discussing TEDS' limitations, it does not include
4 all admissions, and the proportion of admissions
5 that it might include would vary from state to
6 state depending on the individual system, so it is
7 possible that in California, some of the admissions
8 are not being reported to TEDS that might affect
9 the rates had we known about them.

10 DR. KATZ: Dr. Portenoy.

11 DR. PORTENOY: I guess I am coming at this
12 from where Dr. Strom is coming at it and just
13 trying to understand it, because we have had the
14 marked increase in the medical use of controlled
15 prescription drugs in the last few years, which
16 some of us who do pain management think might be a
17 good thing given the base rate of undertreated
18 pain.

19 Clearly, the data together suggest that
20 there has been an increase of abuse and the adverse
21 outcomes associated with abuse, and it is a whole
22 lot of numbers. I mean I did try to focus and I
23 probably absorbed about 3 percent of them, and I am
24 just trying to understand you who work with the
25 numbers all the time if you could help us interpret

1 what we are looking at in terms of the change over
2 time in the abuse indicators that you all work with
3 given the limitations with respect to this issue of
4 change in controlled prescription drug abuse and
5 adverse outcomes.

6 It is obviously a noticeable change, the
7 graphs all changed, the curves are all going up,
8 but have we seen historically other drugs that look
9 like this? Is there some sense, regionally
10 speaking, that it is linked to where the largest
11 increases of controlled prescription drug for
12 medical purposes is happening? Is there any way of
13 interpreting these data other than just a
14 conclusion that, yes, at a time of increasing
15 medical use, you are also seeing some increased
16 abuse, which is like no surprise?

17 MS. TRUNZO: I will speak first for TEDS.
18 Changes in TEDS tend to occur very gradually, so
19 whenever we see a sharp increase, I think that
20 something real is going on there, however, as Judy
21 mentioned in her presentation, other opiates
22 represent a very small percentage of TEDS'
23 admissions, so the numbers are small. So,
24 therefore, it is easy to see a large percentage
25 increase when there is an increase in the numbers.

1 However, you know, the trend has been
2 consistent since 1997. It's not going like this
3 that might make you think some sort of error was
4 creeping in.

5 DR. PORTENOY: Just to follow up on that,
6 is there any way from the data to sort out the
7 difference in the adverse outcomes that would
8 originate from diversion, diversion to the illicit
9 market versus what is actually being prescribed by
10 doctors speaking to Brian's point?

11 MS. TRUNZO: No, we can't do that.

12 DR. KATZ: Dr. Maxwell.

13 DR. MAXWELL: This is a little bit off
14 topic, but there was one thing in Mr. Gfroerer's
15 presentation that caught my eyes, because often we
16 don't associate hallucinogen use with the use of
17 other opiates, but the National Household Survey is
18 showing 89 percent of the OxyContin users also used
19 other hallucinogens.

20 Did you break out which hallucinogens are
21 most associated with it? This is kind of an
22 interesting change in who is using it. It's club
23 drug users?

24 MR. GFROERER: Well, I don't have that
25 data. It is possible to look at that, though, we

1 could look at the specific hallucinogens and see
2 which ones are associated with OxyContin, but I
3 don't have it now.

4 DR. KATZ: Dr. Gillett.

5 DR. GILLETT: Thank you. It strikes me
6 that veterans are rather ignored here. They are
7 either institutionalized and excluded or somehow
8 not counted, and I was curious as to how you tapped
9 into that population, which has a history of drug
10 abuse and other issues critical to their health.

11 MS. TRUNZO: In TEDS, admissions to
12 Department of Veterans Affairs facilities are
13 excluded, however, the data might include veterans
14 who were receiving treatment at state-funded
15 facilities. They weren't broken out in my
16 presentation although we could do that. There are
17 quite a few veterans in the TEDS database, but the
18 federally-owned facilities simply aren't part of
19 it.

20 DR. GILLETT: Along that same line, how
21 does that work with rural communities which are not
22 served by emergency rooms, do we undersample,
23 underreport, ignore, what?

24 MS. TRUNZO: I will turn this over to Judy
25 in a minute. TEDS, as a rule, does not include

1 emergency rooms, it includes specialty treatment
2 facilities or substance abuse treatment units
3 within a hospital.

4 DR. BALL: The DAWN sample of hospitals is
5 designed, so that we can produce estimates for the
6 nation as a whole, and we have oversamples in 21
7 major metropolitan areas that we can produce
8 estimates for each of those areas.

9 The challenge of collecting data on drug
10 abuse in rural areas, and certainly Joe can
11 probably talk about even more than I, but
12 basically, it is not feasible for us, given the
13 constraints of budget, to produce rural estimates
14 from emergency department sample in DAWN.

15 Rural areas are included in the national
16 estimate, but all the metropolitan areas are, as
17 well. One of the ways that we are beginning to try
18 to get a handle on this is on the medical examiner
19 side of DAWN, that the medical examiner data, too,
20 has been sort of skewed toward metropolitan areas
21 in the past.

22 We have begun an initiative to bring on
23 some statewide medical examiner systems, and many
24 of these come from states that have substantial
25 rural populations, so we are sort of looking at the

1 state initiative as a way of trying to get some
2 comparable data on drug abuse in rural areas, and
3 that is beginning this year.

4 DR. KATZ: Thanks, everybody, especially
5 our colleagues from SAMHSA for pitching in right
6 before lunch.

7 Two announcements before we adjourn for
8 lunch. First of all, we will regroup here at 1:45
9 to start the afternoon session. Secondly, any
10 speakers for the open public forum, please, as we
11 begin our afternoon session at 1:45, situate
12 yourselves here in this seating area to my left, so
13 that we can bring people up and down relatively
14 efficiently when we get started.

15 Thanks, and I will see you at 1:45.

16 [Whereupon, at 1:00 p.m., the proceedings
17 were recessed, to be resumed at 1:45 p.m.]

1 the registration of all handlers of these drugs
2 including manufacturers, distributors, importers,
3 exporters, pharmacies, and practitioners.

4 Production quotas, as well as
5 recordkeeping and security requirements, are
6 designed to enable DEA to track and safeguard
7 potentially dangerous controlled substances as they
8 are transferred from the manufacturer to the
9 ultimate user.

10 However, despite these controls and our
11 best efforts, the diversion and abuse of
12 pharmaceutical controlled products continues to
13 pose a significant problem. New, higher dose,
14 single-entity products, particularly opiates, are
15 of particular concern given our experience with
16 OxyContin.

17 For the sake of clarity, DEA defines
18 diversion as the movement of a controlled substance
19 from the legitimate distribution chain into the
20 illicit market.

21 Why are prescription drugs so popular with
22 the drug abusing population? There are several
23 reasons for this. Number 1 is quality and
24 quantity. Abusers know that prescription drugs are
25 manufactured under strict government control. They

1 know the drugs do not contain adulterants or
2 contaminants, and they know the exact dosage they
3 are taking. These assurances are not available on
4 street drugs.

5 In addition, the amounts of the drug found
6 in the new high-dose opioids makes these drugs
7 particularly attractive to narcotic addicts.

8 Second, there is the belief that if my
9 doctor prescribed it for me, it can't be bad, and
10 most often this is true as there is no question
11 that pharmaceutical drugs are beneficial when used
12 appropriately. However, care must be taken that
13 the right patient gets the right drug at the right
14 time and in the right dose in order to ensure its
15 efficacy.

16 Also, there is the belief that if the user
17 does not inject the drug, he is not truly a drug
18 abuser. In U.S. society, the stigma of being an
19 I.V. drug abuser often does not carry over to those
20 who swallow a pill.

21 There is also the cost. When controlled
22 substances are obtained via a prescription,
23 oftentimes the cost is covered by health insurance
24 or by Medicaid, which makes the cost to the user
25 minimal. However, on the street, pharmaceutical

1 controlled substances command a very high price and
2 this encourages the diversion of these drugs.

3 Sometimes the abuser will turn to
4 prescription drugs when street drugs are not
5 available, or they will use prescription drugs in
6 combination in order to potentiate the effect of
7 street drugs.

8 Finally, prescription drugs are readily
9 available and distributed through open commercial
10 markets unlike street drugs, which are distributed
11 through a series of illegal and underground
12 trafficking networks.

13 Today, the vast majority of diversion of
14 controlled substances is at the retail level, which
15 includes diversion by practitioners and pharmacists
16 and consumers. The means used to divert
17 prescription opiates are those typically used by
18 diverters of all pharmaceutical controlled
19 substances and include illegal and indiscriminate
20 prescribing by practitioners. This includes the
21 four D's previously referred to as the doctors who
22 are duped, dishonest, disabled, and dated.

23 There is also illegal dispensing by
24 pharmacists. Pharmacy theft is another common
25 method of diversion including armed robbery, night

1 break-ins, employee theft, and customer pilferage.

2 There are forged and fraudulent prescriptions.

3 There are patients who go to doctors
4 claiming false medical needs. There are doctor
5 shoppers who travel from doctor to doctor looking
6 for an easy mark who will readily write
7 prescriptions or who can be duped by false medical
8 records and illnesses.

9 There is foreign diversion and the
10 subsequent smuggling into the United States. There
11 is also in-transit theft of controlled substances
12 during the transportation process from the
13 manufacturer to the retail pharmacy. In fact,
14 during this past year, we have experienced several
15 armed hijackings of entire tractortrailers of
16 controlled substances. This has been a rather
17 unusual event and one that we are particularly
18 concerned about.

19 There is also distribution through the
20 internet. Many internet web sites advertise and
21 sell controlled substances with little or no
22 oversight to encourage or ensure that the drugs are
23 being used for a legitimate medical purpose.

24 In order to keep abreast of diversion
25 trends, the DEA Office of Diversion Control gathers

1 information and intelligence from several sources.
2 The DEA's automated reports and consolidated order
3 system, known as ARCOS, was developed to monitor
4 and maintain current and historical records of
5 selected controlled substance inventories and
6 transactions from the point of manufacturer to the
7 point of retail sales where it is dispensed to the
8 ultimate consumer.

9 The DEA gathers drug exhibit data from
10 state and local forensic laboratories through the
11 National Forensic Laboratory Information System.
12 Intelligence is also gathered from other federal
13 agencies, state and local counterparts, and
14 regulatory agencies.

15 In addition, the DEA is alerted to
16 possible illegal activities and abuse by family
17 members, local law enforcement, and state
18 authorities. Through these sources, DEA finds that
19 while there are some unique drug trends in each
20 geographic area, overall, the abuse and diversion
21 of controlled substances is consistent throughout
22 the country.

23 I would now like to take this opportunity
24 to identify for you some of the prescription
25 opiates that DEA finds to be commonly abused and

1 diverted. In many of these cases, these drugs are
2 abused in combination with each other and with
3 other types of controlled substances, such as
4 benzodiazepines. This polydrug abuse makes
5 successful treatment even more difficult and
6 contributes to overdoses and death.

7 Historically, DEA has found that the
8 immediate-release opiate products of hydrocodone,
9 hydromorphone, and oxycodone are among the most
10 diverted prescription drugs. Once diverted from
11 legitimate channels, these drugs can be used as a
12 substitute for illicit narcotics and are frequently
13 trafficked on the street by individuals and
14 structured organizations.

15 The costs of purchasing these prescription
16 drugs on the illicit market vary from drug to drug
17 and from geographic area to geographic area. Most
18 often, recognizable brand names are preferred over
19 generics and command a higher price on the street.

20 Hydromorphone has been one of the most
21 diverted and abused prescription opiates for the
22 past 30 years. Hydromorphone 4 and 8 milligram
23 tablets are the most subject to diversion and
24 abuse. As far back as the 1970s, Dilaudid has been
25 known on the street as "drug store heroin."

1 Current street prices for a single 4-milligram
2 Dilaudid tablet, the most preferred strength, range
3 from \$5.00 in the Milwaukee area to as high as \$80
4 in Richmond, Atlanta, and San Diego. The
5 nationwide average price for a single 4-milligram
6 Dilaudid tablet is \$40 per tab.

7 Oxycodone immediate-release combination
8 and single entity products are also very popular
9 among the narcotic-abusing population. The most
10 common and popular combination oxycodone products
11 are Percodan, Percocet, and Tylox. Diversion of
12 these products occurs in every area of the country
13 and the street price runs between \$10 and \$30 per
14 tablet.

15 For the last three years, DEA's National
16 Forensic Laboratory Information System reported
17 oxycodone and hydrocodone account for approximately
18 70 percent of all narcotic analgesic drug exhibits
19 analyzed by state and local forensic labs.

20 The DEA Quarterly Reports indicate that
21 hydrocodone products are the most sought after
22 licit drugs and are diverted in every geographic
23 area of the country with street prices averaging
24 around \$5.00 per tablet.

25 As a group, hydrocodone products are the

1 most prescribed and the most diverted of the
2 opioids. Because they are Schedule III controlled
3 substances, hydrocodone can be telephoned in to
4 pharmacies and can be refilled, so they have a
5 higher association with doctor shopping and
6 fraudulent prescriptions.

7 The most popular brand names of
8 hydrocodone products diverted include Lortab,
9 Vicodin, Lorcet, and Tussionex. Because there is a
10 steady increase in abuse and diversion of these
11 products, DEA is currently reviewing hydrocodone
12 drug products for possible control status change
13 from Schedule III to Schedule II.

14 The new generation of high-dose,
15 single-entity controlled-release products, or
16 sustained-release products, such as MS-Contin,
17 Duragesic, and OxyContin pose special problems for
18 law enforcement.

19 The problems associated with OxyContin
20 have been particularly devastating. OxyContin is a
21 valuable and efficacious drug when used properly,
22 however, the abuse and subsequent diversion of
23 OxyContin has increased dramatically since its
24 introduction into the market.

25 Once word of this product made its way to

1 the street, its popularity skyrocketed. DEA has
2 never witnessed such a rapid increase in the abuse
3 and diversion of a pharmaceutical drug product, and
4 we believe there are a number of reasons for this.

5 OxyContin is marketed in 10, 20, 40, and
6 80 mg tablets. While the higher dose of active
7 ingredient facilitates continuous and effective
8 pain relief, it also makes the product more
9 attractive to drug abusers. In simple terms, the
10 drug abuser gets more bang for his buck by buying
11 one OxyContin 80 mg tablet than in one Percodan
12 tablet containing 5 mg of oxycodone.

13 Put another way, the abuser would need to
14 take 16 Percodan tablets to get the same effect or
15 the same quantity of narcotic as found in one 80 mg
16 OxyContin tablet. In addition, when the
17 sustained-release formulation is compromised, the
18 entire dose of active ingredient is released at one
19 time, thus creating a potent narcotic high. This
20 immediate release of the active ingredient can have
21 deadly consequences for opiate-naive users whose
22 bodies have not developed a tolerance to the
23 narcotic.

24 The DEA also believes that the original
25 marketing of OxyContin contributed to its abuse and

1 diversion. OxyContin was promoted to a wide range
2 of medical specialties for a variety of
3 indications. Many of the physicians were family
4 practitioners and internists, not all of whom were
5 trained in pain management regarding the proper use
6 of such a high dose narcotic.

7 Because OxyContin contains the active
8 ingredient oxycodone, it was frequently equated
9 with other products such as Percodan. But as
10 stated before, OxyContin contains 2 to 16 times the
11 dosage of oxycodone as Percodan. The effects of
12 taking such a potent narcotic were not fully
13 recognized by either physicians or consumers.

14 Problems with OxyContin occurred
15 relatively soon after its initial marketing.

16 [Slide.]

17 By the year 2000, DEA noted a dramatic
18 increase in the illicit availability and abuse of
19 OxyContin. By mid-2001, OxyContin reached record
20 levels of diversion and abuse. Initially,
21 diversion was noted in rural areas of the eastern
22 United States, particularly in parts of Appalachia
23 and New England.

24 It very quickly gained popularity among
25 prescription drug abusers, and it was not long

1 before OxyContin abuse and diversion spread to
2 other parts of the country including South Carolina
3 and Florida.

4 While at first the abuse and diversion of
5 OxyContin seemed to remain east of the Mississippi
6 River, within the past couple of years, DEA has
7 seen an increased diversion spread into western
8 parts of the country including Alaska and Hawaii.

9 Street names for OxyContin include C, OC,
10 Ox, and Execution. Drug abusers quickly found the
11 means to compromise the time release mechanism of
12 OxyContin by removing the coating or by crushing
13 the tablet which allows for the complete dose of
14 oxycodone to be administered at one time by
15 swallowing, injecting, or snorting.

16 Its abuse has led to an OxyContin
17 subculture with the manufacturer's promotional
18 items often found for sale on E-Bay.

19 [Slide.]

20 In one DEA investigation, a defendant was
21 found to have this tattoo on his arm. When asked
22 what the tattoo stood for, the defendant stated
23 that by taking an 80 mg and a 40 mg tablet together
24 just one time, the user would be hooked for life
25 and his life would be hell.

1 DEA field offices report that the 40 mg
2 OxyContin tablet is the most popular dose sold on
3 the street and that all dosages sell for an
4 approximately \$1.00 per milligram.

5 Methods of diversion of OxyContin run the
6 full spectrum of those previously identified.
7 Illegal and indiscriminate prescribing by
8 unscrupulous medical professionals, doctor
9 shopping, and forged prescriptions are common
10 methods of diversion.

11 DEA investigations have also uncovered
12 organized rings of individuals obtaining OxyContin
13 by fraudulent means of doctor shopping or
14 prescription forgery. Oftentimes these individuals
15 use some of the drug themselves and then sell the
16 remainder on the street to cover their own drug
17 habits.

18 Other investigations have found drug
19 organizations that traffic in illicit street drugs,
20 such as cocaine and Ecstasy, are now also
21 trafficking in OxyContin.

22 In South Carolina, a group of seven
23 physicians was investigated and indicted for the
24 illegal distribution of OxyContin. The
25 investigation found that patients would wait up to

1 four hours to see one of the physicians who would
2 write prescriptions for OxyContin for nonmedical
3 reasons. Patients traveled from all parts of South
4 Carolina and from out of state in order to get
5 their OxyContin prescriptions.

6 The prescriptions were then filled in
7 nearby pharmacies and taken back to local
8 communities where they were sold on the street.
9 The DEA determined that the physicians diverted in
10 excess of 1,080,000 tablets of OxyContin.

11 As a result of this investigation, the
12 physicians are currently awaiting sentencing for
13 the illegal distribution of OxyContin.
14 Regrettably, one doctor was so despondent over his
15 involvement that he committed suicide.

16 When interviewed by the DEA, the primary
17 target and owner of the clinic said that his only
18 goal in the operation of the clinic was to make as
19 much money as possible without getting caught. He
20 admitted that all he and his colleagues did was
21 distribute narcotics.

22 His hiring process started with seeking
23 out desperate and willing doctors for job placement
24 and he instructed the placement agencies to only
25 refer those doctors who would write large amounts

1 of narcotics.

2 His pain protocol was that everyone coming
3 to the clinic would receive a narcotic and if the
4 patient did not want narcotic, they could go
5 elsewhere. The clinic also had a "don't ask, don't
6 tell" policy about histories of drug abuse and
7 patients were deliberately not asked if they had
8 drug problems.

9 [Slide.]

10 The chart on the screen shows the
11 distribution of OxyContin in the State of South
12 Carolina for the years 2000 to 2002. While DEA
13 cannot avow that the drop in OxyContin distribution
14 wa due solely to the closing of this clinic, it is
15 interesting to note the sharp decline beginning in
16 June 2001, the same time that the clinic was shut
17 down.

18 In many parts of the United States, thefts
19 of OxyContin through armed robberies and night
20 break-ins of pharmacies have increased over the
21 past three years. The violence typically
22 surrounding armed robberies is of particular
23 concern to DEA and other law enforcement agencies.

24 In the year 2000, DEA received reports of
25 43 armed robberies of pharmacies nationwide where

1 OxyContin was taken. In the year 2002, there were
2 277 such armed robberies. Particularly hard hit
3 has been the State of Massachusetts, where almost
4 250 armed robberies were reported in an 18-month
5 period.

6 Due to the large number of robberies
7 throughout the state, many of the pharmacies in
8 Massachusetts discontinued selling OxyContin.
9 Others hired armed security guards to patrol their
10 premises during business hours.

11 The pharmacies were not the only targets
12 for armed robberies. In one particularly heinous
13 incident, two armed men entered a nursing home in
14 Massachusetts at 1:30 in the morning. They held 6
15 nurses and 40 patients at gunpoint and demanded all
16 OxyContin be turned over to them. Fortunately,
17 once they received the drugs, the armed gunmen left
18 and no one was physically harmed.

19 I would like to share with you the
20 experience DEA found in Southwestern Virginia
21 regarding the abuse and diversion of OxyContin.
22 Due to the devastation that OxyContin abuse was
23 having in this area, DEA conducted a threat
24 assessment of the problem in 2001.

25 This study found that OxyContin abuse in

1 Southwestern Virginia exhibited a sharp rise
2 beginning in the spring of 1999. Considerable law
3 enforcement resources were devoted to curb the
4 OxyContin diversion including the creation of
5 formal and informal drug task forces combining
6 federal, state, and local resources.

7 Through these combined efforts, several
8 OxyContin trafficking organizations were identified
9 and disrupted. However, the area then experienced
10 an increase in the number of pharmacy armed
11 robberies. In addition, homes were broken into for
12 the sole purpose of stealing OxyContin from
13 legitimate pain patients.

14 As a result of this crime, many local
15 jails were filled to double their capacity and
16 reported that more than half of their inmates were
17 incarcerated due to OxyContin related crime.

18 The study also found that drug treatment
19 centers in Southwestern Virginia were experiencing
20 an increase in the number of intakes due to
21 OxyContin abuse. One treatment facility stated
22 that in 1999, they had treated 18 patients for
23 prescription narcotic addiction. However, between
24 March 2000 and January 2001, the facility had
25 treated more than 1,000 patients, with over 98

1 percent of the patients stating OxyContin was their
2 drug of choice.

3 Less than 2 percent of the patients
4 reported a preference for heroin. One OxyContin
5 addict interviewed related some of the desperate
6 lengths abusers will go to in order to get their
7 fix, including using water from mud puddles in
8 order to inject the drug, or using needles
9 previously used to vaccinate dogs.

10 [Slide.]

11 In response to growing concern among
12 federal, state, and local officials about the
13 dramatic increase in the illicit availability and
14 abuse of OxyContin, DEA initiated its OxyContin
15 Action Plan in May 2001 as a comprehensive effort
16 to prevent its diversion and abuse.

17 This was the first time that DEA had found
18 it necessary to take such a comprehensive approach
19 to a particular brand name controlled substance
20 drug product. These efforts are not intended to
21 impact on the availability of OxyContin for
22 legitimate medical use.

23 The OxyContin Action Plan is ongoing and
24 has four primary elements. Individually, the
25 elements will not result in success. To succeed,

1 we must have cooperation, coordination, support and
2 participation from all four of the following
3 elements:

4 First, the four elements are enforcement
5 and intelligence, which includes coordinated
6 investigations targeting individuals and
7 organizations trafficking OxyContin.

8 Regulatory and administrative, where DEA
9 and other regulatory agencies utilize all of our
10 means to prevent and pursue action necessary to
11 make it more difficult for abusers to obtain
12 OxyContin.

13 We also seek industry cooperation. DEA
14 has sought increased cooperative efforts with all
15 aspects of the pharmaceutical industry, and we view
16 voluntary compliance from industry as the key to
17 this element.

18 We also participate in Awareness/Education
19 and Outreach Initiatives. This includes
20 participation at several levels including town-hall
21 meetings, demand reduction presentations to parent
22 groups, and cooperative efforts with ONDCP. In
23 addition, DEA includes information on OxyContin
24 abuse on the Office of Diversion Control public web
25 site at www.deadiversion.usdoj.gov.

1 Since the OxyContin Action Plan was
2 initiated in mid-2001, DEA has conducted over 400
3 investigations of the diversion and trafficking of
4 OxyContin. Well over 110,000 work hours have been
5 spent on these investigations with the result of
6 almost 600 individuals arrested.

7 Approximately, 60 percent of the cases
8 initiated were in the retail profession including
9 doctors and pharmacists. Doctor shoppers,
10 forgeries, and individuals arrested in armed
11 robberies and burglaries accounted for 40 percent
12 of the investigations.

13 There has been concern expressed by some
14 pain physicians that they could be investigated by
15 DEA or have legal sanctions placed on them by DEA
16 or state medical boards simply because they
17 prescribe OxyContin or other strong opioids.

18 I would like to assure you that the intent
19 of DEA is to target the illicit diversion and abuse
20 of controlled substances. We recognize the place
21 that pharmaceutical controlled products have in the
22 treatment of a variety of medical needs, including
23 pain management, and we work closely with state
24 medical boards and associations to ensure our
25 investigators are up to date on the latest

1 guidelines.

2 In conclusion, I would like to say that
3 DEA is committed to protecting the American
4 public's health and safety from the serious and
5 negative consequences associated with the diversion
6 of pharmaceutical controlled substances.

7 In this effort, we will not be deterred.
8 DEA has seen firsthand the devastation that all
9 drug abuse, including prescription drug abuse, can
10 wreak on our fellow Americans. Lives can be lost
11 and families can be destroyed.

12 During the past few years, DEA and the
13 entire healthcare community have learned new
14 lessons on the damage a prescription drug can do
15 when not appropriately prescribed or used.

16 From our experience with the diversion of
17 OxyContin, we have found that a targeted effort to
18 eliminate diversion of particular products, such as
19 our action plan, may be necessary and that it can
20 be an effective weapon in the fight against drug
21 diversion.

22 However, as always, prevention of drug
23 abuse is the most effective tool against diversion.
24 The devastation wrought by the abuse of OxyContin
25 has been a hard lesson for all of us. We must

1 learn from this experience that once a drug has
2 gained popularity among the drug-abusing
3 population, there are few actions that can
4 dramatically alter the demand for the drug on the
5 street.

6 Law enforcement efforts are, in reality,
7 simply clean up of a problem that has gone out of
8 control. Steps must be taken to ensure that
9 comprehensive risk management plans are in place
10 before any new high-potency narcotic is approved
11 for release to the American people.

12 Thank you. I think I have time to
13 entertain a couple of questions.

14 DR. KATZ: It is still yellow. We have
15 time for a question or two. Dr. Dworkin.

16 DR. DWORKIN: Does the DEA have any data
17 regarding what percent of diverted drug remains
18 local and what percent, if you will, crosses state
19 lines and ends up being used elsewhere?

20 DR. WILLIS: I don't have data to that
21 effect and it just depends on a case-by-case basis.
22 We do know of many examples where we have very
23 organized criminal rings that will traffic from
24 Florida up to New York, for example. We had an
25 example of that recently.

1 Some of the local doctor shopping and
2 prescription forgery remains local area. I am
3 afraid I don't have those specific statistics for
4 you

5 DR. KATZ: Dr. Crawford.

6 DR. CRAWFORD: Thank you. In a similar
7 vein, can you quantify for us and estimate how much
8 of the problem may be due to the rogue internet
9 sites out where it is out of the United States, not
10 based in the United States?

11 DR. WILLIS: Well, foreign internet sites
12 are a particular problem, and DEA is very aware of
13 this issue. We are working in several different
14 arenas with our foreign counterparts. It is
15 difficult to investigate and curtail the smuggling
16 or diversion of these drugs from foreign sources,
17 simply because we do not have immediate control
18 over these sources.

19 We are putting a lot of effort into
20 identifying them. As far as quantitating how much
21 is coming in, no, I am afraid I can't do that.
22 There are new sites that come up on the web every
23 single day. We do know that probably the drugs
24 that are most purchased or available over the
25 internet as far as controlled substances would be

1 weight control drugs and hydrocodone, but there are
2 a number of web sites that advertise the higher
3 schedule narcotics also.

4 DR. CRAWFORD: And a very quick question.
5 We have been told this morning by Mr. Woodworth
6 that DEA establishes quote limits on the
7 manufacture of the products. For any of these
8 predominant products we are discussing today, have
9 any of the manufacturers met or approached their
10 limit, are they well below those limits?

11 DR. WILLIS: Well, the quotas are based
12 also upon estimates submitted by the drug
13 manufacturers as to how much they will be producing
14 each year, so the vast majority of them produce
15 what they submit.

16 DR. KATZ: Dr. Shafer.

17 DR. SHAFER: I heard two different kinds
18 of diversion problems and to my mind they are quite
19 different. One is clearly criminal diversion,
20 hijackings, home invasions, thefts, or physicians
21 who are basically running criminal enterprises to
22 make drugs available.

23 The other is diversion I would say at the
24 level of the individual patient, who may be doctor
25 shopping because they are addicts, but they are

1 essentially seeking drug for their own use. I
2 somewhat despair as a physician of being able to
3 give you any guidance on, you know, hijacking
4 trucks. It is just not an area that I have a lot
5 of expertise or experience with.

6 How much of the diversion is frankly
7 criminal activity and how much of it is something
8 that happens as an adverse outcome of routine
9 clinical care?

10 DR. WILLIS: Well, it is difficult really
11 for me to quantify that. DEA, we expend most of
12 our resources at the criminal level, so I can
13 address as far as the number of investigations we
14 have had and the number of defendants we have
15 arrested, the number of armed robberies, and that
16 type of thing. We do not have the resources to
17 fully investigate diversion through doctor shopping
18 and prescription forgery. We work primarily in
19 concert with our local law enforcement agencies,
20 and they are the ones that primarily do the doctor
21 shopping and prescription forgery.

22 So, I don't have available statistics as
23 to how much is associated with criminal versus
24 individual patients. What I can tell you is that
25 physicians and obviously it's a small number of

1 physicians who are involved in criminal activity,
2 we recognize that the vast majority of doctors are
3 very law-abiding and only want to help the public,
4 but a single physician has an unlimited ability to
5 write prescriptions, and until law enforcement or
6 the regulatory boards catch up with their
7 activities, so one physician can do a lot more
8 damage than a dozen prescription forgers.

9 DR. KATZ: Thank you. I just can't help
10 but emphasize the importance of that question about
11 how critical it is to design any rational program
12 to combat prescription opioid abuse without knowing
13 what proportion of the cases of prescription opioid
14 abuse arrive to it from different pathways, it is
15 impossible to rationally construct methods to
16 reduce the ultimate problem not knowing which
17 pathway to reduce.

18 DR. WILLIS: That has been a problem we
19 have been dealing with for years.

20 DR. KATZ: So, I would just submit to the
21 committee, since one of the aspects of our agenda
22 in this meeting is to decide what data we need in
23 order not only to construct a risk management
24 program, but to monitor the results of the program,
25 I would ask the committee to keep this question in

1 mind as we get to that discussion later today or
2 tomorrow.

3 I have got a couple of people ahead of
4 you, Dr. Gillett, but I will put you right on the
5 list.

6 Dr. Cush.

7 DR. CUSH: I haven't seen any information
8 on the use of taggers or tracers, or anything like
9 that in these batches. Do they do that or is that
10 confidential?

11 DR. WILLIS: That type of thing would be
12 proprietary information.

13 DR. KATZ: Dr. Portenoy.

14 DR. PORTENOY: I am just look at this
15 problem as you presented it, as one that would have
16 to include law enforcement, the availability of
17 treatment, demand reduction, and then some controls
18 on the prescriber side.

19 I am just wondering whether DEA collects
20 data about whether or not the regional differences,
21 the regional distribution in abuse may correlate
22 with the availability of treatment, the differences
23 in the availability of treatment in different
24 states, or the expertise of local law enforcement
25 in different states, or educational programs

1 directed toward the public for demand reduction in
2 different states, whether you collate any
3 information that could help us try to understand
4 the regional differences.

5 DR. WILLIS: I am not aware that we have
6 any information at the moment, but I think that
7 would be a very interesting study for us to
8 undertake. Particularly, we do have all of the
9 distribution data through our ARCOS information
10 system. We have treatment information as to where
11 the narcotic treatment programs are located and
12 some type of correlational study would be
13 interesting to do.

14 DR. BRIL: Along these lines with
15 differences in regions, I was wondering if the DEA
16 has any information on the use of, say, OxyContin
17 in--is it the Netherlands where opiate use is
18 decriminalized, the European country where it is
19 not a crime, I guess, to use these drugs?

20 DR. WILLIS: I don't have information on
21 that available, but we could try to find some out
22 and get back to you.

23 DR. BRIL: That would be kind of answering
24 the question directly about what comes from
25 prescription use and what comes from recreational

1 use if you had numbers from a country where it
2 wasn't criminalized to take these drugs.

3 DR. KATZ: Dr. Ciraulo.

4 DR. CIRAULO: I have just a couple of
5 comments really related to the experience that we
6 have had in South Boston, which is a small
7 community. One of the things I would like to point
8 out is it is not as simple as an OxyContin problem.

9 The problem started several years ago with
10 actually a heroin problem, that the heroin entered
11 the neighborhood in such a cheap and pure form that
12 adolescents were able to get it. What we saw is a
13 decline in cocaine use, then using heroin, then, a
14 switch to OxyContin. So, I think it is a
15 complicated problem, it is not just an OxyContin
16 problem.

17 The second problem is a real concern about
18 the level of resources that are being put into
19 stopping the diversion. I can go into South Boston
20 and identify, and I know the police can go do the
21 same thing, who is pushing, and what happens when
22 they identify these folks, they keep on moving
23 farther south and farther south, but we have seen
24 30 overdoses of adolescents in the past month on a
25 mixture of heroin and OxyContin. So, I am

1 concerned.

2 Are there resources at the state level?

3 You saw Massachusetts was one of the ones way up
4 there. Are there enough resources and what can we
5 do to--

6 DR. WILLIS: Well, I don't think there are
7 enough resources nationwide to combat the problem.
8 Certainly, there aren't at the federal level, and
9 the state and local police departments are
10 stretched to the limits also. So, no, I don't
11 think there are enough resources.

12 I don't think it's a matter of not wanting
13 to work on this problem. It's simply a matter of
14 not having the budget and the resources available
15 to address the problem the way it should be.

16 I also agree with you in your first part
17 of the comment about it isn't just an OxyContin
18 problem. It is a very complex problem. One type
19 of drug abuse leads to another type of drug abuse
20 and experimentation. When the heroin is not
21 available on the street, they will turn to the
22 pharmaceutical narcotics and vice versa, so it is a
23 very complex problem.

24 DR. KATZ: Thank you very much, Dr.
25 Willis, for sharing your thoughts with us.

1 Open Public Hearing

2 DR. KATZ: We are moving on to the open
3 public hearing section of our afternoon now. First
4 of all, let me just say that anybody who is
5 planning on speaking during the open public forum
6 now, please come up from wherever you are and have
7 a seat in that section to my left.

8 I promised that I would read this
9 announcement about financial disclosures before
10 every open public forum session, so I am going to
11 keep my promise right now. This is for the
12 speakers to pay attention to.

13 Both the FDA and the public believe in a
14 transparent process for information gathering and
15 decisionmaking. To ensure such transparency at the
16 open public hearing session of the Advisory
17 Committee meeting, FDA believes that it is
18 important to understand the context of an
19 individual's presentation.

20 For this reason, FDA encourages you, the
21 open public hearing speaker, at the beginning of
22 your written or oral statement, to advise the
23 committee of any financial relationship that you
24 may have with any company or any group that is
25 likely to be impacted by the topic of this meeting.

1 For example, the financial information may include
2 a company's or a group's payment of your travel,
3 lodging, or other expenses in connection with your
4 attendance at the meeting.

5 Likewise, FDA encourages you, at the
6 beginning of your statement, to advise the
7 committee if you do not have any such financial
8 relationships. If you choose not to address this
9 issue of financial relationships at the beginning
10 of your statement, it will not preclude you from
11 speaking.

12 So, here is what that all boils down to.
13 When you get up, just say who you are, where you
14 are from, and financial disclosures that you have.
15 You have got five minutes. The yellow light goes
16 on at four, and the red light goes on at five, and
17 then I will interrupt you and it will be time for
18 the next person. So, hopefully, that makes it more
19 clear.

20 The first speaker will be Barry Cole.
21 After that will be Jeffery Ebel, if you would like
22 to put yourself on deck.

23 DR. COLE: Thank you very much. Barry
24 Cole with the American Academy of Pain Management.
25 In the last year, myself or the American Academy of

1 Pain Management have received funding from Abbott
2 and G.W. Pharma, Jansen, Ortho-McNeil, and Purdue
3 Pharma.

4 [Slide.]

5 This is about education I would say more
6 than anything else. That is what is really
7 important. We understand that today, that there
8 are still tens of millions of people suffering that
9 can't get lost in any debate that we talk about.

10 [Slide.]

11 Why we are really here is how to stop
12 substance abusers from dying. We are at an
13 interesting position, we don't really have a
14 product defect per se, we have a defect in the end
15 use of the product, and perhaps practitioner
16 education can address that problem.

17 However, there will always be public
18 policy implications for every choice we make. What
19 I worry about is that pain patients will have
20 decreased access to practitioners. Already many
21 people tell me it's just too much trouble to deal
22 with these kinds of patients, there will be more
23 barriers thrown in their way, there will be
24 mandatory police checks, there will be increased
25 costs that somebody is going to get stuck with.

1 There will be more administrative burden,
2 and I can't even guarantee that the patients will
3 fare any better, while I can't absolutely
4 guarantee either that abusers won't stop dying.
5 The problem here is that they will still abuse
6 product just like criminals still can obtain guns
7 even with gun control legislation.

8 We have always used education as the
9 remedy in medicine. The half-life of medical
10 information is about five years. Every physician
11 expects to go back and retrain. We have used the
12 model in California where the Academy is located
13 now of having a mandatory 12-hour educational
14 requirement to allow for relicensure of California
15 physicians. There is something that the Federal
16 Government could do - look at DEA's certificate
17 renewal on a three-year basis as something that
18 could be contingent on continuing education.

19 The kind of education that needs to be
20 addressed is what kind of patients are we putting
21 on medication and when do we make these choices.
22 It is about medical history taking. It's about
23 risk assessment. It's about doing a physical
24 examination, something that often isn't done that
25 well.

1 It is about developing a plan of care with
2 measurable, behaviorally measurable goals, getting
3 informed consent, maintaining an ongoing monitoring
4 relationship with the patient, establishing some
5 way of seeing that therapy works, and obviously,
6 staying in compliance with rules and regulation.

7 I can't tell you how many charts I have
8 reviewed where it appears that my colleagues don't
9 believe that the DEA's rules specifically apply to
10 them. They have found loopholes, but they thought
11 they could exploit.

12 Roles for simulation-based opioid
13 education, this is something that I don't think
14 very many of us have thought about. Most of us
15 went to medical school, nursing school, pharmacy
16 school. We sat like sponges in a room and they
17 presented a lot of information.

18 I have recently been working with a group
19 called Digital Think out of San Francisco to see if
20 there is a way to creatively solve this problem
21 through on-line education, creating an environment
22 that would actually immerse practitioners in real
23 decisionmaking processes and allow them to fail
24 safely, be able to identify what they don't know
25 and provide education to them on a real-time basis

1 and hopefully, teach them something along the way.

2 [Slide.]

3 The U.S. Military loves this idea. If you
4 think about it, because the consequences of bad
5 decisions are literally lethal and also they have
6 to make decisions often with imprecise information
7 in a very short period of time.

8 [Slide.]

9 The difference between our traditional
10 educational models and where we might want to go is
11 being able to get past the consequences of bad
12 decisionmaking from a paper and pencil test to
13 showing what really could happen. I guess you
14 could have a model where there is an electronic DEA
15 agent who actually kicks down your door and you can
16 see your hands being handcuffed to do the perp
17 walk. That is possible.

18 Knowledge being tested doesn't always seem
19 relevant when you do a paper and pencil test. It
20 would seem a lot more relevant when you are
21 actually doing a computer simulation and certainly
22 you would be able to see its applicability in real
23 time, and obviously, passing tests doesn't prove
24 you really know anything, it proves you passed a
25 test.

1 Working in a simulation model, we hope
2 would actually lead to behavioral changes on the
3 job.

4 [Slide.]

5 The Academy, like many other pain-related
6 organizations, really is hoping that we can all
7 work together. This is more than just about my
8 organization or anyone else's. It involves law
9 enforcement, it involves professional societies,
10 the addiction community, the patients themselves,
11 and even regulatory authorities.

12 I am a former state administrator for
13 Nevada, a place that has been described as the most
14 behaviorally adverse state in the Union. I was the
15 Director of Mental Health, very strange job.

16 I think we really can work together and
17 make a lot of good things happen. Don't be too
18 draconian too quickly.

19 Thank you.

20 DR. KATZ: Thank you, Dr. Cole.

21 Jeffery Ebel, you are next, and on deck is
22 Dr. Van Zee.

23 So, once again, who you are, where are you
24 are from, any financial disclosures, yellow at
25 four, red at five.

1 DR. EBEL: Good afternoon. My name is
2 Jeffery Ebel and I am President of Clint
3 Pharmaceuticals. Clint Pharmaceuticals is located
4 in Nashville, Tennessee. We are a distributor of
5 injectable medications to physicians, hospitals,
6 clinics, pain control centers, and to surgery
7 centers.

8 We distribute these products that we have,
9 are distributed, all have FDA approval. We get the
10 products in from the manufacturer, and we do not
11 alter them or do anything with them in any way. We
12 simply get them in and then re-ship them out.

13 The product I am going to talk to you
14 about is called Celestone Soluspan. It is a
15 product that we do benefit from financially when
16 the product is sold.

17 I will just lay this up here for Exhibit
18 A. However, the competitive products to Celestone
19 Soluspan, Kenalog and Depo Medrol, we market those
20 equally as well, and if a physician does not have
21 access to the Celestone, they can order the Kenalog
22 or Depo Medrol, and we would benefit from that.
23 So, we really don't have in a way a horse in this
24 race.

25 Clint Pharmaceuticals works with many

1 specialties, such orthopedics, rheumatologists,
2 dermatologists, et cetera. One of these
3 specialists we work with is anesthesiologists or
4 pain care physician.

5 We plan to work with the ASIPP in getting
6 Celestone Soluspan available to their patients. I
7 have a letter here that I am submitting as an
8 exhibit from the ASIPP, which is the American
9 Society for Interventional Pain Physicians.

10 Celestone Soluspan has not been available
11 to the physicians and has been in an extreme
12 back-order situation for the last two years. It
13 was developed in 1963 by Schering-Plough. Clint
14 Pharmaceuticals has distributed many doses of this
15 product over the last 15 years without even one
16 incident of adverse reaction or fatality reported
17 to our company.

18 The anesthesiologists or pain management
19 physician uses Celestone Soluspan in epidural
20 injections to reduce the pain in their patients.
21 Celestone Soluspan has not been available due to
22 complications with the FDA and Schering-Plough, the
23 manufacturer.

24 The lack of access, of patient access to
25 Celestone Soluspan, has spawned fatalities and

1 adverse reactions across our country. These
2 adverse events are due to the pain physicians
3 having to resort to using compounded steroids in
4 treating their patients.

5 I have Exhibit B, a list of various
6 sightings where these fatalities and adverse
7 reactions have been reported.

8 We have, however, no idea how extensive
9 these incidents are because compounding pharmacies
10 are not regulated. They do not have to report
11 adverse reactions, compounding pharmacies do not
12 have to comply with good manufacturing practices.

13 There are only two other commercially
14 available long-acting repository steroid
15 suspensions available to the interventional pain
16 specialists. One is Kenalog and the other is Depo
17 Medrol, which I showed to you earlier.

18 Many times these commercially available
19 steroids are unaccessible to the interventional
20 pain physician. Kenalog, for example, has benzyl
21 alcohol. Benzyl alcohol as a preservative is known
22 as a neurotoxin. Depo Medrol contains polyethylene
23 glycol, which has been implicated in arachnoiditis.

24 DR. KATZ: I need to ask you to finish
25 your sentence and your time is up.

1 DR. EBEL: I am requesting that you put
2 this product on an emergency use for the pain
3 interventional physician as you have with the
4 Ob-Gyn patients as this product is being used with
5 the Ob-Gyns in fetal lung maturation and is
6 available to them. I would like to have this
7 product available to the interventional pain
8 physician.

9 DR. KATZ: Thank you.

10 Dr. Van Zee.

11 DR. VAN ZEE: My name is Dr. Art Van Zee.
12 I have no financial disclosures. I guess I should
13 disclose that I grew up in Nevada.

14 I am a general internist that has
15 practiced the last 27 years in a small coalmining
16 town in Southwest Virginia. What has brought me to
17 these issues has been the OxyContin abuse problem.

18 It would be hard to overstate the
19 devastation that this has brought to Central
20 Appalachia and now a number of other areas of the
21 country. There are literally tens of thousands of
22 new opioid addicts in Central Appalachia stemming
23 from the use and abuse of OxyContin. Many of these
24 are good kids from good families who recreationally
25 used OxyContin and became rapidly addicted.

1 Most of the OxyContin issues have to do
2 with chronic noncancer pain issues. The noncancer
3 pain market, if you will, constituted 85 percent of
4 the total opioid market in 1999, and Purdue Pharma
5 has aggressively promoted opioids in general, and
6 OxyContin in particular, for chronic noncancer
7 pain.

8 What do we know about the risks and
9 benefits of opioids in chronic noncancer pain?

10 The risks of diversion have certainly been
11 much higher than expected

12 This map is from IMS Health that documents
13 OxyContin prescriptions per capita, highest and
14 lowest states in the year 2000. The thing that
15 this speaks to I think and some of the subsequent
16 slides, graphic slides, to some of the questions
17 raised about regional variation, variability of
18 OxyContin abuse.

19 For those of you familiar with the
20 OxyContin abuse problem, if you made a slide of
21 those areas that were affected by that problem in
22 the year 2000, it would virtually superimpose over
23 these areas here.

24 I want you to note that Virginia appears
25 as a normal area, normal kind of prescribing area

1 for OxyContin.

2 If you look at more detailed data, and
3 this data comes out of the ARCOS system through the
4 DEA's Office of Diversion Control where they are
5 able to track opioid distribution down to the
6 retail level, one can see on this slide, the year
7 2000, OxyContin distribution per 100,000
8 population, the red being over national average
9 prescribing.

10 You can see this remarkably high area in
11 Southwest Virginia. This is all Southwest Virginia
12 area and this is where we have had extensive
13 OxyContin abuse problems, and it is not just that
14 this area is a higher prescribing area, but a very
15 higher prescribing area.

16 These counties range in OxyContin
17 prescribing anywhere from 300 to 600 percent higher
18 than national averages.

19 Other states involved in the Central
20 Appalachian OxyContin problem have similar
21 demographic information in terms of high OxyContin
22 prescribing and high use. East Kentucky, as you
23 have heard about today, has had a terrible problem.

24 Maine, West Virginia, Alabama, the story
25 is much the same, and, to me, this information

1 would suggest that the high availability of
2 OxyContin was associated with high abuse rates and,
3 not surprisingly, reinforce the old idea that a
4 highly abusable drug, if widely available, will be
5 widely abused.

6 What do we know about the risk of
7 addiction for treating chronic noncancer pain? We
8 don't have a definite answer about that. There are
9 some studies that looked at the risk of addiction
10 in treating acute pain setting, and those were
11 somewhat reassuring.

12 There are a number of studies that looked
13 at prescription opioid abuse behaviors, and that is
14 not to be equated with addiction, but they can
15 certainly run around together and these are
16 oftentimes an indicator of addiction problems.

17 Dr. Portenoy, at this same committee
18 hearing a year and a half ago, said that quite
19 frankly we really don't know what the risk of
20 addiction is in treating patients with opioids for
21 chronic, nonmalignant pain.

22 What are the benefits of using opioids for
23 treating chronic, nonmalignant pain? Again, there
24 is very limited data on this. In the handouts, I
25 referenced eight studies that were prospective,

1 randomized, double-blind, placebo-controlled
2 studies lasting at least four weeks in duration,
3 and if you take those studies as a whole, you will
4 see that the efficacy is certainly there, but it's
5 a very thin to modest amount of efficacy, and the
6 functioning is essentially not improved.

7 DR. KATZ: Dr. Van Zee, I have to ask you
8 to wrap it up.

9 DR. VAN ZEE: So, in conclusion, I would
10 say there has been great harm, pain, and suffering
11 from the OxyContin abuse problem in areas that have
12 been affected. Its high availability seems to
13 correlate with high abuse. From my point of view,
14 it is very problematic in a risk-benefit analysis
15 of opioids in chronic, nonmalignant pain when we
16 really don't know what a lot of the risks are
17 involved including addiction and diversion.

18 Thank you.

19 DR. KATZ: Thank you, Dr. Van Zee.

20 Siobhan Reynolds is next and Gregory
21 Walter will be after her.

22 MS. REYNOLDS: Good afternoon. I am
23 Siobhan Reynolds, Executive Director of Pain Relief
24 Network in New York City. We don't have any
25 relationship with pharmaceutical companies of any

1 kind.

2 We are a national patient and physician
3 advocacy group dedicated to making pain care
4 available to Americans. I would like to tell you,
5 if I might, how I came to sit before you today.

6 I married a man, Sean Greenwood, who
7 developed severe chronic pain as a result of a
8 congenital connective tissue disorder. We were
9 married for 11 1/2 years, we had a son, and I
10 continued to care for him.

11 As a result of the damage he and our
12 family suffered because we were unable to find pain
13 care, I became an advocate on behalf of all
14 Americans in pain. I became familiar with the
15 inner circle of cutting edge pain care and was
16 invited to participate in an internet listserv
17 discussion on the issues confronting physicians who
18 treat pain.

19 One by one, I watched as several of our
20 most prominent members were arrested and charged
21 with murder or subjected to accusations of
22 violating the Controlled Substances Act. I knew,
23 as I watched this, that something was going
24 terribly wrong.

25 I am trained as a film-maker, so I set out

1 with my camera to find out what the stories were
2 behind the attacks. What I found will soon be a
3 film, but it also brought me before you here today.

4 In my travels, I came across Dr. Deborah
5 Bordeaux as she was about to stand trial in the
6 trial that this lady was referring to, in South
7 Carolina, for writing prescriptions for pain
8 medications outside the course of professional
9 practice and without legitimate medical purpose.

10 I sat alongside here and two other doctors
11 tried on similar charges. I was shocked and
12 dismayed to learn that the Justice Department was
13 bringing out-of-date, anti-scientific and
14 prejudicial testimony into a U.S. courtroom in the
15 hopes of convincing the jury that by prescribing
16 medication in conformity with the actual up-to-date
17 standard of care, the standard I am familiar with,
18 that the doctors had done something shameful,
19 something unspeakably wrong.

20 I have since watched the U.S. bring such
21 cases all around the country. I began PRN and
22 hired nationally renowned counsel to take up Dr.
23 Bordeaux's appeal, partly because I wanted to save
24 this innocent woman from federal prison, but also
25 because I wanted to figure out what was going on

1 here. How could it be, I asked, that in an area of
2 medicine so central to the physician's role, that
3 of relieving suffering, could find itself so
4 thoroughly overwhelmed, so unable to develop its
5 own methods and clinical practices in the
6 communities, as any other area of medicine is
7 allowed to do.

8 As it turns out, the red flags that the
9 government uses to determine if a doctor appears to
10 be diverting drugs rather than practicing medicine
11 are, for all intents and purposes, identical with
12 the markers I or the healthcare professionals I
13 know would identify as signs that good progressive
14 medicine is being practiced.

15 In other words, what we have is a perfect
16 storm created by the collision of the development
17 of progressive pain care with the application by
18 Ashcroft's Justice Department of a now hopelessly
19 out-of-date Rosen Rules.

20 As a result, hundreds of physicians have
21 been misidentified as being in violation of the
22 Controlled Substances Act and have borne the full
23 brunt of Justice Department drug prosecutions aided
24 by determinant sentencing laws that have become so
25 draconian that even the Supreme Court Justices

1 Rehnquist and Kennedy have moved to speak out
2 against them.

3 Physicians all over America have been
4 induced to take plea deals or to walk away from
5 medicine rather than face what Dr. Bordeaux
6 currently faces. Having been convicted by a lay
7 jury of violating the CSA, Dr. Bordeaux's OxyContin
8 prescriptions, 270 pills in total, were weighed up
9 as though they were heroin, and the probation
10 department has recommended that she spent 100 years
11 in prison.

12 Since the committee, this committee cannot
13 be moving to further manage the risk of Palladone,
14 as a result of objective evidence of harm, because
15 the only evidence we have actually disproves the
16 DOJ's claims of hundreds of deaths summarily, and
17 you cannot be concerned on the basis of any finding
18 by any court that Purdue Pharma has been negligent,
19 because they have been beating all these claims
20 against them without exception, I must conclude,
21 therefore, that your perception of the risks posed
22 by Palladone is created at least in part by the
23 astonishing increase in physician prosecutions
24 recently reported by the Justice Department.

25 I am here to tell you that a terrible

1 misunderstanding has occurred here and the public
2 health has been inestimably damaged. All over
3 America, doctors have simply put down their pens,
4 patients in pain have returned to their beds or
5 committed suicide. The suffering and destruction
6 of innocent life is unimaginable.

7 PRN is therefore calling for you to
8 suspend your cooperation with the DOJ and to stand
9 solely for your primary commitment to safeguard the
10 public health. The public and the compassionate
11 physicians have been badly let down by our Federal
12 Government, a Federal Government which seems to
13 have lost its way.

14 We hope you will join us in our call for
15 an open and frank congressional investigation in
16 what has happened here before you resume your
17 collaboration with the DOJ.

18 The damage done will only come to be known
19 as we uncover the deaths and listen to the stories
20 the American, the stories the American people, the
21 people have to tell.

22 You can find--

23 DR. KATZ: Ms. Reynolds, you need to wrap
24 up.

25 MS. REYNOLDS: You can find our web site

1 at painreliefnetwork.org and thank you very, very
2 much.

3 DR. KATZ: Thank you.

4 Gregory Walter is next and then Mary
5 Baluss.

6 DR. WALTER: Good Afternoon. I just have
7 a few things to say. I am an emergency physician
8 in South Georgia. I have been an emergency room
9 physician for 20 years. My wife of 10 years has
10 been a chronic pain patient.

11 I think it's appalling the way we treat
12 our chronic pain patients in this country. I have
13 sat in emergency rooms with her for five hours to
14 have her declared a drug addict, a drug-seeking
15 individual. I have had her denied care time and
16 time again.

17 I have had a personal perspective that not
18 too many people have had. I, for 20 years, have
19 had drug-seeking people come to me, and I have had
20 to make the decision whether they are diverter or
21 not, and I have done this to the best of my ability
22 with all the skills I possess.

23 I have also worked in this pain clinic in
24 South Carolina for six months, which the DOJ has
25 declared a hell hole, and I just wondered when the

1 DOJ was going to tell you that there were only two
2 pain clinics in all of South Carolina, so the
3 patients have to drive for four hours to get pain
4 medications.

5 Then, I was wondering when they were going
6 to get to the fact that after they closed the two,
7 not one, pain clinics in South Carolina, how the
8 numbers dropped, but then the whole entire State of
9 South Carolina has no place to go.

10 I thought the DEA was going to tell us
11 that they were going to make sure the patients had
12 a place to go, but when they closed those two
13 clinics and confiscated all the patients' records,
14 where were these patients to go?

15 That's all I wanted to say.

16 DR. KATZ: Thank you, Dr. Walter.

17 Mary Baluss and next will be Bruce
18 Canaday.

19 MS. BALUSS: Good afternoon. My name is
20 Mary Baluss. I am the Director of the Pain Law
21 Initiative. I am also speaking today on behalf of
22 the National Foundation for the Treatment of Pain.
23 I am also the Chairman of the Maryland Pain
24 Initiative.

25 I, myself, have received a grant from

1 Purdue that allows me to buy two medical journals a
2 year, and that's it, and as far as I know, and I
3 just don't know for sure, there is no industry
4 funding for the National Foundation for the
5 Treatment of Pain.

6 However, I am here today to talk to you a
7 little bit in reactive mode. I would say that my
8 message to you is do not restrict the availability
9 of OxyContin to particular specialties. The
10 specialty of the anesthesiologists doesn't want to
11 use OxyContin because, in part, procedures are so
12 much more profitable.

13 The other specialties, which are not so
14 overtly associated with pain management, see the
15 great bulk of American patients, and I assure you
16 that in the rural areas in small towns, they see
17 the people with serious chronic pain.

18 So, I would say please do not restrict the
19 specialties. Doctor education at every specialty
20 level is a wonderful idea. It should be based on
21 clinical experience and clinical data, and not on
22 scare stories.

23 Do not restrict OxyContin to severe pain
24 even if you can figure out what that means. Pain
25 is subjective, it takes everybody, as we have seen

1 data today, it takes everybody differently, our
2 little bundles of nerves react differently to
3 different stimuli and to different pain
4 medications.

5 By the time a person gets to the privilege
6 of being tried on opioids, they have usually had or
7 been asked to have every intervention that could
8 possibly be dealt out. The ones who haven't had
9 those interventions are the people who can't afford
10 it, and this is another reason not to restrict the
11 medical pain management modality is because the
12 poor people cannot afford your procedures, and they
13 are the people who worked in the coal mines and the
14 other aspects of Appalachia, and they hurt, and
15 that suffering is so palpable.

16 I get a lot of phone calls and I don't
17 charge my clients who are pain patients, and I
18 don't charge the doctors that I help out, but I get
19 calls almost every day and sometimes several day
20 which basically say my doctor dumped me, what am I
21 going to do. Where do you live? Well, I live in a
22 little town near Des Moines or a little town near
23 Columbia, South Carolina, or a little town near New
24 Orleans.

25 Some of them live in big towns, but mostly

1 they live in little towns, and their doctors have
2 decided it's not worth the trouble, it's not worth
3 the fear of investigation, it is not worth hassling
4 with pharmacists. This is why we need doctor
5 education, not to reduce the prescribing, but to
6 make it as intelligent and as clinical as possible.

7 Now, the DEA--and I didn't come here to
8 mix it up with the DEA today, but they sort of
9 started it--the DEA's Risk Management Program is
10 based on two things--three things. One is the
11 criminalization of prescribing to people who are
12 lying to you.

13 Another is the expectation of perfect
14 prognostication on the part of any doctor, so that
15 he knows when he is being lied to.

16 Thirdly, they have conflated the notion of
17 legitimate medical purpose with the notion of
18 illegitimate medical procuring on the part of
19 would-be patients, and you can't do it that way.

20 We need more data on outcomes, we need
21 more research, we need more funding for drug abuse,
22 for people who are addicted, but we don't need the
23 DEA's suggestions that were made today.

24 Finally, Dr. Willis started this. I, like
25 Ms. Reynolds, was very close to and sat through the

1 entire trial of South Carolina doctors. The only
2 people testifying against those doctors were
3 themselves plea bargaining felons.

4 The doctor who testified against them was
5 a specialist in nothing. He had no board
6 certifications, never taken a pain management
7 certification, and I know you are going to tell me
8 to sit down. So, thank you.

9 DR. KATZ: Thank you, Ms. Baluss.

10 Next is Bruce Canaday and after that
11 Arthur Horn.

12 DR. CANADAY: Thank you for the
13 opportunity to present the views of the American
14 Pharmacist Association.

15 I am Bruce Canaday, clinical professor
16 with the University of North Carolina, and Director
17 of Pharmacotherapy for the Coastal Area Health
18 Education Center in Wilmington, North Carolina. I
19 am also a member of the APHA Board of Trustees and
20 appearing today on behalf of the Association.

21 In the interest of full disclosure, I have
22 on occasion been involved in project funded by
23 pharmaceutical manufacturers, and APHA commonly
24 partners with federal agencies, consumer groups,
25 the pharmaceutical industry, and others to develop

1 educational tools for pharmacists and consumers.

2 Neither I nor the Association received any
3 funding to participate in today's meeting. The
4 views I am presenting today are solely those of the
5 Association and its membership.

6 As the medication use experts in the
7 healthcare team, we would like to share our
8 experience with risk management programs, offer our
9 perspective on program design, and provide
10 recommendations on the development of risk
11 management programs for opiate analgesics.

12 Before you can discuss the design of risk
13 management programs, there is a few fundamental
14 questions to be addressed. First, what is the
15 specific risks identified, is the risk to manage
16 the potential of adverse events or
17 contraindications, or is it product abuse and
18 diversion? Very different things.

19 It is equally important to establish the
20 metrics of success. If the risk is diversion, does
21 success mean a reduction in diversion or zero
22 diversion, and what numerator do you use, what
23 denominator?

24 These questions should be at the forefront
25 of considering risk management programs for any

1 product. Pharmacist participation in risk
2 management programs have grown significantly in
3 recent years. Despite the additional steps that
4 participation requires, we would rather work to
5 mitigate product risk than lose a tool in our
6 armamentarium for curing patients and helping them.

7 Patients must not lose access to opiate
8 analgesics because of failure to reduce risk or
9 prevent misuse. While pharmacists want to
10 participate in risk management programs, our
11 experience has not been very positive to date.

12 We are often not provided with the
13 opportunity to help shape the programs we are then
14 responsible for implementing. In some cases, in
15 fact, pharmacists are excluded from participating
16 all together. APHA has significant concerns with
17 these restrictive distribution programs. Any
18 pharmacist should be allowed to participate in a
19 risk management system.

20 While it is understandable that
21 participation may require that the providers meet
22 certain requirements, providers who meet them
23 should be allowed to opt in the program, and not be
24 automatically excluded.

25 To increase the effectiveness of risk

1 management programs, pharmacists must be involved
2 both in the development and implementation. The
3 current product-by-product approach to risk
4 management is frankly a bit of a morass.

5 The risks are identified with a product, a
6 new program is developed to address that risk which
7 may bear little or no similarity to currently
8 existing programs. APHA strongly supports utility
9 or a systems-based approach to risk management,
10 this approach, create a prototype system that
11 includes standard tools.

12 As products are identified that require
13 special attention, the program is built with the
14 appropriate tools from the prototype system. This
15 would provide consistency, limit administrative
16 burden, increase program efficacy and
17 effectiveness, and allow providers to place greater
18 focus on patient care.

19 As you discuss opiate analgesics, I would
20 like to highlight three areas for your
21 consideration. First, when preparing for this
22 meeting, it was unclear if the Agency is seeking a
23 new program for one new drug product, or group of
24 similar products, or an entire class of drugs.

25 We have concerns if the Agency targets one

1 specific pain relief product for a risk management
2 program when other products have similar risk. If
3 all the products in class have similar risks, the
4 risks could be managed in a consistent manner,
5 otherwise, providers will migrate to products of
6 similar risk with frankly less hassle.

7 Second, if the goal is to limit diversion,
8 it must be very carefully considered. Opiates are
9 under the spotlight already. A program to reduce
10 diversion could not only restrict access to
11 appropriate pain medications, but really
12 significantly compromise the entire system.

13 Finally, controlled substances are subject
14 to state oversight and federal DEA rules. You need
15 to be sure that we are not in conflict with
16 existing laws. The agency should consider what
17 diversion programs are already in place or under
18 consideration. I know Florida and Virginia are
19 putting together their own programs, which are
20 going to make it a bit challenging to deal with
21 another set of regulations.

22 We welcome the opportunity to work with
23 the Agency. We recommend that you consider a
24 utility approach in risk management, managing
25 products with similar risks or similar systems to

1 help providers navigate the system, and to allow us
2 to focus on what we should be, the patient and
3 appropriate medication use.

4 Thank you.

5 DR. KATZ: Thank you.

6 Would anybody from FDA care to address the
7 question about whether the FDA is seeking risk
8 management, the device for a single drug or for the
9 entire class of drugs?

10 DR. RAPPAPORT: This particular meeting is
11 about Palladone, it's about a risk management plan
12 for Palladone. There is a possibility that this
13 could be expanded to apply to other similar
14 products in the future, as well. That is not the
15 topic of this specific session.

16 DR. KATZ: Arthur Horn and next is Jan
17 Towers.

18 DR. HORN: Good afternoon. My name is
19 Arthur Horn. I am a physician in Hagerstown and
20 Frederick, Maryland, just down the road.

21 I have come today because Congressman Wolf
22 asked me to come and share some of my feelings
23 about narcotic therapy. My practice consists of
24 chronic pain management. I have been doing so ever
25 since I came to Maryland back about 14 years ago.

1 I don't have to bestow the virtues
2 narcotic therapy has really changed over the past
3 couple of years, particularly the last 10 years.
4 Patients have definitely benefited from that.
5 There is an improvement in function, there is
6 certain more functional standpoint that we are able
7 to find with these individuals.

8 But one of the tools that we have used,
9 OxyContin is a double-edged sword. Although it
10 works well, well tolerated initially, has been a
11 problematic drug particularly over the past couple
12 of years with all the notoriety that we have seen.

13 I would like to make some suggestions as a
14 doctor in the trenches, you know, a doctor who
15 basically treats patients every day including my
16 daughter, she has a complaint every day also.

17 I am very concerned about the increase
18 equivalent amount of morphine that patients receive
19 on a daily basis, and that clearly has been
20 escalating, and not only has that been escalating
21 as newer products have come out, but as these
22 patients stay on longer as your tolerance builds
23 up, sometimes they can be receiving whopping doses
24 of narcotic therapy on a daily basis.

25 That leads me to the second problem with

1 OxyContin, which is the street value. I went ahead
2 and I went to a pharmacy, and I asked to weigh out
3 40 mg tablets one ounce of OxyContin. That turned
4 out to be 210 tablets. Retail cost was \$1,040.
5 When I calculated it out on my little calculator,
6 that came out to 2 1/2 ounces of gold.

7 When I converted that to the traditional
8 sale of OxyContin, which is \$1.00 a milligram, that
9 came out to \$8,400 for that one ounce of OxyContin,
10 which equals 21 1/2 ounces of gold. Again, this is
11 part of what I think is the motivation for some of
12 these diverters.

13 Once again, we do want to treat these
14 individuals, they have clearly responded favorably,
15 the people that take the medication appropriately,
16 but when you are looking at such a marked
17 profitability in terms of a single one
18 prescription, it is really an attractive nuisance
19 as far as I am concerned, and, well, once again,
20 leads to further problems.

21 In addition, I think most of the doctors
22 that treat chronic pain and that prescribe chronic
23 opioid therapy really are effective at what they
24 do. They really try their best, they try not to
25 give patients medications for abuse or diversion,

1 but as we saw, there is a small number of doctors
2 that really stick out, that are really running
3 prescription mills, and there are some doctors that
4 just aren't as careful as they should be.

5 I am concerned about the doctors in the
6 middle, the ones that may suspect a patient is
7 abusing medication, but are not willing to really
8 do anything about it. Those are the ones that
9 really need to be watched, because I think they are
10 very pervasive throughout the entire medical
11 community.

12 My suggestion is, as was brought up, a bar
13 code on tablets or a tagon [ph] put inside. I
14 would like to see that traced back from the
15 apprehended products on the street, and find out
16 where that came from, find out whether it was
17 stolen from a truck or which doctors and which
18 patients were involved.

19 The reason why is because we really have
20 to control this to get some effective use of this
21 medication without fear of reprisal, but on the
22 other hand, we have to take these bad guys off the
23 street.

24 Another issue, and I would only like to
25 throw it out, I don't know how realistic it is,

1 that perhaps when patients take a medication, such
2 as OxyContin, which has a 20 to 30 percent
3 immediate release within the first two hours, this
4 may represent a public safety issue in terms of
5 driving, you know, operating equipment and things
6 like that, and that certainly is another
7 consideration to be given.

8 Ultimately, in conclusion, I believe that
9 OxyContin has been very helpful, but on the other
10 hand, it is a problematic drug, which does have its
11 problems in terms of euphoria and this large amount
12 of narcotic therapy.

13 I think if we can identify the abusers
14 that are involved or the people that are helping
15 this, I think we could make a difference in
16 continue to improve our patients with chronic
17 pain's lives.

18 Thank you.

19 DR. KATZ: Thank you, Dr. Horn.

20 Jan Towers and next with be David
21 Joranson.

22 DR. TOWERS: My name is Jan Towers. I am
23 the Director of Health Policy for the American
24 Academy of Nurse Practitioners. I have no direct
25 financial relationship with any pharmaceutical

1 companies, but our organization does accept
2 unrestricted educational grants for many of our
3 activities from a variety of pharmaceutical
4 companies.

5 The American Academy of Nurse
6 Practitioners is the full service national
7 organization representing advanced nurse
8 practitioners from all specialties. Advanced
9 practice nurse practitioners practice in a variety
10 of settings where it is necessary to prescribe and
11 manage opiate analgesic drug products for the
12 patients under their care.

13 These sites range from pain management
14 clinics, hospice and oncology practices to acute
15 care facilities and primary care practices. Nurse
16 practitioners also practice in settings where they
17 are working with patients to deal with addictions
18 associated with misuse and abuse of these same
19 drugs.

20 The comments made here are considered in
21 the perspective of nurse practitioner experience
22 with the management of patients in all of these
23 settings.

24 As we review materials to be used in the
25 consideration of a framework for a risk management

1 plan for extended-release opiate analgesics, there
2 are a number of SDA, risk management activities
3 that we feel are particularly applicable to
4 authorized prescribers and dispensers of these
5 drugs.

6 While the DEA has responsibility for
7 dealing with the illicit use of these drugs, we
8 feel the FDA's responsibility centers around the
9 safe and effective use of these drugs in legitimate
10 patient care settings. In this context, we would
11 suggest the following.

12 First, in addition to clear product
13 labeling that includes descriptions of the drug
14 structure's actions and interactions, side
15 effects, contraindications, documented studies in
16 dosing, we encourage the inclusion of high-quality
17 patient education information focused on increasing
18 patient knowledge and hence, appropriate compliance
19 by patients for whom these medications are
20 prescribed.

21 Second, we endorse the concept of
22 additional education and outreach to healthcare
23 professionals and suggest that this concept be
24 extended to consumers, that is, patients, as well.
25 Studies have shown that the most effective

1 treatments are those where providers and patients
2 are well informed and share in the therapeutic
3 process.

4 In the area of tool development, we would
5 suggest that contributions to the development of
6 tools be broader than what is in your document that
7 you have today, physicians, pharmacists, patients,
8 and insurers.

9 We further suggest that the target groups
10 be broader than physicians and pharmacists as
11 listed in the FDA concept document. Advanced
12 practice nurse practitioners, for instance, can
13 make a viable contribution to the development of
14 educational and outreach tools focusing on these
15 drugs.

16 We suggest that you seek their input in
17 your deliberations and in the development of
18 processes adopted by the FDA to assure the safe and
19 effective use of these medications. With their
20 focus on the total patient and his or her
21 environment, and the provision of care to patients
22 with acute and chronic pain, and with their
23 additional expertise in patient education and
24 counseling, input from advanced practice nurse
25 practitioners regarding these issues as they apply

1 to both patients and providers would be an asset to
2 the development and implementation of risk
3 management programs centering on these medications.

4 In addition, we would caution you not to
5 take steps that would limit needed patient access
6 to these medications prescribed and dispensed by
7 authorized prescribers and dispensers in all
8 healthcare environments.

9 We would suggest that educational and
10 outreach programs also be explored and developed to
11 assist providers, patients, and patient support
12 systems in recognizing and managing patients with
13 addiction problems, and we endorse the evaluation
14 process suggested in the concept paper.

15 While problems have arisen with the use of
16 opiate analgesic drugs, the use of these
17 medications, particularly in the management of
18 chronic pain, has demonstrated their worth. We
19 suggest that a well-informed provider-patient and
20 public population can facilitate the safe and
21 effective use of these particular drugs.

22 We thank you for the opportunity to speak
23 with you today. The American Academy of Nurse
24 Practitioners is interested in working on these
25 projects with you and with the Food and Drug

1 Administration. You have our contact information.

2 Thank you.

3 DR. KATZ: Thank you.

4 David Joranson, you are up, and Daniel

5 Carr, you will be the next and final speaker.

6 DR. JORANSON: My name is David Joranson.

7 Our published work has been supported by grants

8 from the Robert Wood Johnson Foundation. Our group

9 at the University of Wisconsin has also received

10 unrestricted grants from Purdue, Jansen

11 Pharmaceutical, Ortho-McNeil, and I have received

12 some honoraria from time to time for occasional

13 lectures. No company paid for my trip here today.

14 The title of my talk is Use the Principle

15 of Balance to Evaluate Risk Management Strategies

16 for Opioid Analgesics.

17 Mr. Chairman, committee members, the task

18 of developing risk management strategies for

19 approved opioid analgesics is essential to good

20 public health policy. The appropriate medical use

21 of opioid analgesics is absolutely essential for

22 many patients because adequate pain relief restores

23 quality of life and saves lives.

24 However, there are still many barriers to

25 the appropriate medical use of opioids. Opioids

1 also have an abuse potential. Drug abuse destroys
2 lives and diversion of prescription pain
3 medications from legitimate medical channels to
4 illicit uses should be prevented, but efforts to
5 prevent the abuse of opioid analgesics should not
6 interfere with their use in legitimate medical
7 practice and patient care.

8 This is a principle called balance, and
9 achieving the right balance between these two
10 public health objectives, that is to say,
11 preventing abuse and ensuring patient access is the
12 subject of my statement and I think the mission of
13 the Committee, as well.

14 FDA and the Committee can use the
15 principle of balance to evaluate various risk
16 management strategies. There are two tests for
17 balance. One is that the strategy should have a
18 high potential to prevent diversion or abuse, and,
19 two, that the strategy should have a low, perhaps
20 zero, potential to interfere with legitimate
21 medical practice and patient care.

22 For example, balanced strategies to
23 address diversion and abuse would include measures
24 to prevent pharmacy theft, to identify employees
25 who divert medications, to identify doctor

1 shoppers, making sure to distinguish them from
2 inadequately managed pain patients, to educate
3 physicians about how to identify at-risk patients
4 or to formulate products to reduce their abuse
5 potential.

6 These strategies are balanced because they
7 address the sources of diversion and abuse directly
8 without interfering in legitimate medical practice
9 or patient access to needed medications.

10 In contrast, unbalanced approach would be
11 physicians who stop prescribing to all patients or
12 who refer all their patients to specialists,
13 pharmacists who refuse to stock needed medications,
14 insurance companies that restrict reimbursement or
15 agencies that restrict the amounts that physicians
16 can prescribe to patients.

17 These are unbalanced because they are not
18 aimed directly at the source of the problem, and
19 they have a clear potential for interfering in
20 medical practice, interrupting patient access to
21 pain relief, and increasing the burden on health
22 professionals and patients.

23 As the Committee evaluates risk reduction
24 strategies, I ask that you consider the extent to
25 which crime is the source of the opioid analgesics

1 that are abused. Large and as yet unknown
2 quantities of prescription pain medications are
3 diverted each year, are abused, and thus,
4 contribute to the drug abuse statistics that you
5 study.

6 This particular chain of events begins
7 with criminal rather than medical or patient
8 behaviors. I am referring to pharmacy theft,
9 forgery rings, doctor shopping by non-patients who
10 feign painful illnesses in order to obtain
11 prescriptions.

12 It is important to note that in the 1980s,
13 at the urging of the country's pharmacists,
14 Congress made pharmacy theft of controlled
15 substances a federal criminal offense, however,
16 little is known about how this law is enforced in
17 the country.

18 It is important for the Committee to
19 realize that risk management strategies that you
20 may develop for use particularly within the
21 healthcare system are independent of, and may not
22 affect, the abuse levels of medications being
23 diverted by criminal activities. In fact,
24 statistics are available to quantify diversion from
25 pharmacy thefts, and I would urge the Committee to

1 obtain these data and factor them into your
2 understanding of the numerators and the
3 denominators.

4 We respectfully recommend that FDA and the
5 Committee use the principle of balance to evaluate
6 risk management strategies. A balanced approach is
7 consistent with good medicine where we aim to do no
8 harm and where we avoid cures that are worse than
9 the disease.

10 A balanced approach is also completely
11 consistent with international, federal expectations
12 of what amounts to good drug regulation.

13 I have attached a bibliography to my
14 statement and I will be pleased to provide any
15 other information that the Committee may require.

16 Thank you.

17 DR. KATZ: Thank you. It may be worth
18 pausing for a second since Mr. Joranson has
19 proposed a relatively simple lens through which we
20 can look at any proposed risk management strategy,
21 and since that is what we are doing for the next
22 day or so, the strategy being to simply look at to
23 what extent they are likely to impact upon the
24 problem we are trying to impact on, namely,
25 diversion and abuse, and then to what extent they

1 may interfere with normal medical practice.

2 Does anybody have any questions for Mr.
3 Joranson about that principle of balance and about
4 his experience in implementing that policy and
5 evaluating regulations? Russ.

6 DR. PORTENOY: Just to clarify a point.
7 The aspect of balance that relates to the negative
8 side, what we would like to try to deal with in
9 terms of the positive outcome of risk management
10 program relates to reducing diversion, reducing or
11 limiting the adverse consequences of addiction, and
12 then there is this gray area of misuse where
13 physicians who don't have adequate skills may use
14 these medications inappropriately.

15 Several of the speakers have addressed
16 that and obviously, for those of us who are pain
17 specialists, it is a very problematic thing because
18 we try to educate physicians in order to treat pain
19 more effectively, to use these drugs more
20 effectively, and it is quite clear that some
21 physicians can be trained well and some physicians
22 cannot be trained well, and the ones who are not
23 trained well can become part of a problem, not only
24 in relation to the problem of iatrogenic addiction,
25 which is probably less common, but in the problem

1 of not treating patients up to the standards of
2 care where patients' function declines and they
3 don't do well as a result of continuing access to
4 an opioid drug.

5 We don't have much data about this, and I
6 just wondered how you would put that piece of it,
7 that issue of misuse, that gray zone in that misuse
8 category, how you would put that into the balance
9 equation.

10 DR. JORANSON: Could you clarify what you
11 are defining as misuse?

12 DR. PORTENOY: Yes. What we would like to
13 do, the lens through which we would like to
14 evaluate the risk management program might be that
15 we don't want to do anything that would reduce
16 effective good medical care with respect to opioid
17 therapy. We don't want any management program to
18 make care less good.

19 At the same time, we would like to target
20 these risk management programs to try to reduce bad
21 outcomes. So, under the bad outcomes, we have
22 diversion into the illicit marketplace, we have the
23 development of iatrogenic addiction.

24 Do we also have a responsibility there to
25 talk about the inappropriate use of opioid therapy

1 by physicians who aren't adequately trained to
2 provide these drugs or to monitor these drugs with
3 sort of a broader negative than just the
4 possibility of diversion?

5 DR. JORANSON: Dr. Portenoy, I think the
6 brief answer to your question is that good pain
7 management is always going to require a large
8 investment in education especially now that we know
9 that very little about pain management was taught
10 at all or perhaps not even accurately in past
11 generations.

12 We have got problems in knowledge to
13 overcome, as well as teaching new knowledge. In
14 some countries, doctors are so afraid of
15 prescribing opioids that if you make them available
16 to them, they won't prescribe them because they are
17 too afraid.

18 In this country, there are some doctors,
19 as we know, that don't have that problem. My sense
20 is that as a matter of public policy, education can
21 be encouraged and perhaps at the state level it can
22 be required as a continuing education piece as some
23 states are, but it's experimentation at this point
24 to learn what the effect of this kind of education
25 will be on practice.

1 But I don't think that we should rely on
2 education to solve problems of deliberate misuse or
3 diversion area activities. I think that is a job
4 that we should focus on and clean up. We have done
5 it a couple of times in past decades, and I don't
6 think we should get those two things mixed up.

7 If we can separate out the problems of
8 diversion, target those and deal with them, it will
9 be a lot easier to deal with improving the
10 educational level of practitioners and many
11 regulatory agencies, including the state medical
12 boards, are eager to be involved in that process.
13 About half of the state medical boards have adopted
14 a policy statement that encourages increased
15 education for any physician who makes pain
16 treatment part of his or her medical practice.

17 DR. KATZ: Dr. Passik, question?

18 DR. PASSIK: We have a lot during the day
19 today, a lot of statistics indicating, you know,
20 curves going up, and as Russ said earlier, all we
21 can really extrapolate from that is more
22 availability, more abuse, but we haven't, other
23 than Dr. Van Zee's comments in the open forum,
24 really seen a big correlation between medical use
25 and abuse, geographically or otherwise.

1 I think that is one of the biggest
2 problems we face is we don't know how much of it is
3 coming. Of the 90 percent of diversion that was
4 talked about the first thing this morning, we don't
5 know how much of it is coming from medical use with
6 pain patients.

7 I wanted to ask David if he could amplify
8 because he added another unknown, which is the
9 whole issue of pharmacy theft, and I just wondered
10 if he had any comments about that, because we have
11 heard that 90 percent of the abuse happens there,
12 but you have added yet another unknown, which is
13 how much is being diverted from pharmacy theft as
14 opposed from patients and doctors.

15 DR. JORANSON: Well, obviously, the reason
16 that you want to know how large that source is, is
17 so that you can begin to factor out whether it is
18 doctors and patients that are the problem, or
19 whether it is criminals, so to speak, that are
20 responsible for putting the drugs on the street.

21 Of course, the short answer is that it is
22 both, but we need to know a little bit more about
23 the proportions, and I think this is also going to
24 vary regionally. For example, I think DEA
25 mentioned a high number of thefts in the Boston

1 area, and that has been in the newspapers hundreds
2 or more. It is possible to determine the amount of
3 all prescription controlled substances that were
4 stolen in those thefts. There is a form that all
5 the pharmacists have to fill out, the DEA-106 form,
6 and presumably that data could be available and
7 could be studied, and would add some perspective to
8 the total quantities. These would be objective
9 measures of diversion, not indicators. They are
10 actual measures. That could happen for any
11 pharmacy theft anywhere in the country.

12 DR. PASSIK: Do we have that data and when
13 was the last time it was available?

14 DR. WILLIS: We could get that for you.

15 DR. KATZ: Many people didn't hear that
16 response, but the bottom line is that that data
17 could be made available to the Committee.

18 Dan Carr, you have got your five minutes
19 in the sun.

20 DR. CARR: Thank you very much, Dr. Katz,
21 and the distinguished and erudite members of the
22 Committee for giving me your attention.

23 I recognize first that the issue of risk
24 management is fraught with complexity and
25 therefore, I have chosen only to identify two

1 specific comments to leave you with amidst an ocean
2 of greater complexity.

3 I also point out that nobody paid for me
4 to be at the meeting today. By coincidence, I had
5 to be in Washington yesterday because the American
6 Academy of Pain Medicine unveiled a new
7 internet-based educational effort, a part of which
8 encourages appropriate use of opioids, and
9 tomorrow, the Institute of Medicine has a program
10 on encouragement of clinical research.

11 On the other hand, that educational
12 program, and hence my airline ticket, was supported
13 by Purdue very indirectly

14 [Slide.]

15 If we were able to deal with all the
16 complex issues of risk, and we tackled them
17 capably, we might produce an ideal world in which
18 there is prospective identification and planning
19 for patients who are both at risk of undertreatment
20 of pain, as well as the adverse effects of such
21 therapy.

22 There would be prompt, perhaps even
23 preemptive, individualized antinociceptive and
24 palliative interventions including adjuvant
25 medications. We would deliver effective treatments

1 based upon rigorous evidence, and we would capture
2 data about the effects and adverse effects in a
3 standardized fashion.

4 We would do so in a supportive climate
5 with respect to policies, payment, and attitudes,
6 and there would be recognition at the system level
7 that the disease burden of undertreated pain far
8 outweighs that of abuse, addiction, and diversion.

9 One reference I could think about right
10 off the bat that you could go to is the WHO global
11 burden of disease web site to see numbers to
12 support this. There would also be recognition at
13 the system level that people have always and will
14 always treat their pain by whatever means is
15 available to them.

16 There would also finally be recognition at
17 the system level that the adverse effects of these
18 treatments often preclude adequate pain control.

19 [Slide.]

20 Personal experience includes doing many
21 systematic reviews and meta-analyses, some of these
22 over the years funded by the government.

23 [Slide.]

24 Having looked at the evidence, there are a
25 lot of problems with the evidence, and this

1 evidence is evidence relevant to the formulation of
2 policy concerning management of risk.

3 Randomized, controlled trials are a tiny
4 fraction of the literature and most of the
5 literature is observational or describes a
6 technique. There clearly are very important
7 elements of data that would be important to
8 formulate a rational risk management policy, not
9 only for the single drug Palladone, but for all
10 drugs which are lacking.

11 Even in the randomized, controlled trials,
12 a pervasive problem is underpowering. In fact, if
13 one is assigned to pool the available data and
14 construct a pooled efficacy estimate for various
15 classes of drugs including opioids, it is an almost
16 impossible task because of the heterogeneity of
17 diagnoses, patients, and outcomes.

18 There is a proliferation of instruments
19 that have been employed, and that is for pain, and
20 the picture is even worse for non-pain symptoms,
21 such as fatigue.

22 A 2003 systematic review commissioned by
23 the American Pain Society on treatment of opioid
24 side effects, which can be looked at in the Journal
25 of Pain by McNicol, et al., was hampered by the

1 lack of focus to date on the side effects.

2 [Slide.]

3 What the two points I wanted to make?

4 Well, in formulating a risk management policy, one
5 dimension of risk simply has to do with adverse
6 effects. These are very important in the real
7 world.

8 Eric Mannheimer of the Cochrane
9 Collaboration has pointed out that the assessment
10 of effects and side effects in drug trials to date
11 have proceeded as if they were two different
12 dimensions or different universes.

13 While for most of the effects, we capture
14 these prospectively, seek them deliberately, and we
15 use instruments that at least have some likelihood
16 of reflecting consensus, thus far to date, the
17 majority of trials, even randomized, controlled
18 trials, have captured side effects only if
19 volunteered or if prospectively, in an ad-hoc way.

20 Given the importance clinically of side
21 effects, and the fact that in the real world, they
22 contribute to risk, consensus instruments and
23 methods should be encouraged and possibly required.

24 I know that I am echoing what many people
25 around the table or in the audience have said,

1 Mitchell Max, for instance, has a manuscript about
2 this point, but I think this is an important
3 opportunity in formulation of a risk management
4 policy.

5 Further, if instruments are standardized,
6 this will allow pooling of data which is not
7 currently possible.

8 [Slide.]

9 Now, looking at another dimension of risk,
10 which is the societal dimension, I think we have
11 heard from many of the speakers that discouraging
12 clinicians from prescribing, controlled substances
13 worsens the situation that is well documented of
14 undertreatment of pain.

15 Therefore, in the formulation of a risk
16 management policy, adding to risk management
17 burdens may increase the global aggregate societal
18 risk from undertreated pain or the reliance upon
19 unregulated analgesics. That might include street
20 drugs, alcohol, or over-the-counter NSAIDs, which
21 themselves carry considerable risk.

22 I wanted to emphasize the point that the
23 true systemwide risk is aggregated and it is
24 distributed, much as one might imagine the process
25 of treating pain as consisting of a flow of fluid,

1 let's say, through a series of spigots. The spigots
2 represent the choices of therapies, and if shut one
3 spigot or make one element less available in a
4 multi-spigot system, that has two effects.

5 First, you increase the aggregate
6 resistance slightly and you shift the flow to be
7 through other spigots.

8 So, I wish you would keep these two points
9 in mind, and thank you for your attention.

10 DR. KATZ: Thank you, Dr. Carr.

11 Our next presentation will be from Ann
12 Trontell. The open public hearing session is over.
13 She is Deputy Director of the Office of
14 Pharmacoepidemiology and Statistical Science at
15 FDA, and will speak to us, giving us an
16 introduction to the goals of risk management plans
17 and also non-opiate risk management plans.

18 After this presentation, we will have a
19 break.

20 Existing Risk Management Plans

21 Introduction: Goals of Risk Management Plans/

22 Non-Opiate Risk Management Plans

23 DR. TRONTELL: Good afternoon. I am going
24 to be providing a broad and general overview of
25 FDA's experience to date in risk management

1 programs and our evolving guidances on the topic of
2 risk management.

3 [Slide.]

4 FDA's involvement with risk management is
5 longstanding and derives from the Agency's role in
6 weighing the risks of drug products along with
7 their benefits in making decisions about drug
8 approval.

9 The nomenclature of risk management per se
10 was probably introduced in 1999 when the FDA
11 Commissioner released a report on managing the
12 risks of medical products.

13 [Slide.]

14 With the passage of the Prescription Drug
15 User Fee Act last year, FDA's role in risk
16 management was formalized. The Agency was asked to
17 develop three interrelated guidances on risk
18 management and to do so by September 30th of next
19 year.

20 The topics for these three guidances were
21 premarketing risk assessment, postmarketing
22 pharmacovigilance and pharmacoepidemiology, and
23 risk management itself.

24 [Slide.]

25 FDA gathered its preliminary thoughts in

1 these three areas and published and presented
2 concept papers on each in April of this past year,
3 and solicited public comment. Draft guidances
4 based upon these concept papers and the commentary
5 received upon them will be published later this
6 fall. There will then again be another opportunity
7 for commentary.

8 [Slide.]

9 As a consequence, this presentation will
10 be focusing both on FDA's experience with risk
11 management, as well as the concepts that were
12 articulated in the concept paper entitled "Risk
13 Management Programs." I hope you understand I am
14 giving you a snapshot of what is a very rapidly
15 evolving approach to drug safety by the Agency and
16 our many partners.

17 [Slide.]

18 The Risk Management concept paper
19 discussing risk management programs focuses on risk
20 minimization efforts. These efforts are termed
21 "risk management programs" in the concept paper.
22 The risks are, in fact, identified using practices
23 that are described in the other two PDUFA3
24 documents on risk assessment in the premarketing
25 and postmarketing areas.

1 [Slide.]

2 Important concepts, as Dr. Galson told you
3 this morning, include our concept of safety, which
4 is that it means for us, on balance, that
5 beneficial actions of a product outweigh their
6 harmful or undesirable side effects. It does not
7 suggest that risk itself is absent.

8 A risk management program was defined in
9 the concept paper as a strategic safety effort to
10 reduce risk and that that effort entailed one or
11 more risk reduction goals and the use of one or
12 more interventions or tools other than the package
13 insert.

14 The package insert, or PI, refers to the
15 professional package insert or what you may know as
16 FDA-approved labeling. This is not considered in
17 the concept paper to be a formal risk management
18 program in and of itself.

19 [Slide.]

20 As I stated, part of the definition of a
21 risk management program is that it have one or more
22 goals. The goals of a risk management program
23 would, in FDA's concept paper, be tailored to a
24 product's specific risk concerns and describe the
25 ideal product use scenario or the desired end

1 result of the risk management program.

2 It would include a vision statement, if
3 you will, of the optimal drug use scenario.
4 Examples may illustrate this. For the drug product
5 thalidomide, a known teratogen, the vision
6 statement might be described as no fetal exposures.
7 For clozapine, a product associated with
8 agranulocytosis, the goal might be stated no
9 agranulocytosis.

10 [Slide.]

11 In the concept paper, FDA discusses when a
12 risk management program might be appropriate. The
13 Agency describes in its concept paper that this
14 might, in fact, occur whenever risk reduction needs
15 emerge during a product's lifecycle, and this
16 might, in fact, be initiated by a drug company's
17 sponsor or by the Agency.

18 The language proposed in the concept paper
19 was in instances "when the number or severity of a
20 product's risks appears to undermine the magnitude
21 of benefits in an important segment of actual or
22 potential users."

23 [Slide.]

24 The challenge is how to assess, in fact,
25 whether or not risks undermine benefits, and that

1 will likely be much of the topic of further
2 discussions here today and tomorrow.

3 There is no simple formula that compares
4 risks and benefits. They are measured in different
5 units and they are of different types. As such,
6 FDA stated in its concept paper that it anticipates
7 case-by-case judgments will be made by the
8 company's sponsor or by FDA on whether or not to
9 develop, submit, or implement a risk management
10 program.

11 At the same time, the Agency acknowledges
12 that for most drug products, that these will be
13 handled sufficiently and well by the package insert
14 without the need of a formal risk management
15 program.

16 [Slide.]

17 Now, to turn to risk management program
18 tools, which again were part of the definition,
19 these we defined as a process or system intended to
20 enhance safe product use by reducing risk. The
21 choice of tools can be influenced by the severity
22 of the risks, its reversibility or its rate.

23 [Slide.]

24 It may be useful for discussion purposes
25 to talk about three categories of tools that can be

1 used in current risk management programs. These
2 include education and outreach, so-called "guiding"
3 systems, and restricted access.

4 [Slide.]

5 First, education and outreach. As I
6 stated previously, in the concept paper on risk
7 management programs, the Agency specifically
8 excluded the conventional professional labeling, or
9 package insert, acknowledging, in fact, that this
10 is the standard mechanism whereby the Agency, with
11 drug company sponsors, communicates risks and
12 benefits.

13 Instead, education and outreach would
14 describe those that go beyond the package insert,
15 and might include, for example, the issuance of
16 Dear Healthcare Practitioner letters or other
17 public notices, training programs or offerings of
18 continuing education, or patient-oriented labeling,
19 such as medication guides or patient package
20 inserts, or PPIs, which I will now describe.

21 [Slide.]

22 Medication guides are a form of
23 FDA-approved patient labeling that have been
24 regulated since 1999 with the reference given to
25 you here. These patient labelings are, in fact,

1 required to be dispensed by pharmacists with each
2 prescription to a patient.

3 They are intended primarily for outpatient
4 prescription products that pose serious and
5 significant public health concerns, and at the time
6 this regulation became effective, it was
7 anticipated that this form of patient labeling
8 would be applied on average to 5 or 10 products on
9 an annual basis.

10 [Slide.]

11 Medication guides have, as part of the
12 regulations, the requirement that they meet one or
13 more of the following criteria set within
14 regulations, the first being that patient labeling
15 could help to prevent the occurrence of serious
16 adverse events; the second being where there might
17 be serious risks associated with the use of a
18 product or the patient should be informed in order
19 to make a decision whether or not to initiate or
20 continue use with that product.

21 The third triggering criteria was
22 instances where patient adherence to therapy and to
23 directions was crucial to effectiveness,
24 particularly for life-threatening conditions.
25 Again, the regulations for medication guides set

1 forth a standard format and content for these
2 materials.

3 [Slide.]

4 Depending on how you counted, there are
5 now approximately 13 medication guide texts that
6 cover approximately 22 different products.

7 They cover a wide array of risks, and the
8 risks are not in any way constrained by regulation.
9 They include, but are not limited, to issues of
10 hepatotoxicity risks, teratogenicity, abuse and
11 diversion, and the potential for overdose.

12 [Slide.]

13 Patient packaging inserts, or PPIs, are
14 yet another form of FDA-approved patient labeling
15 with some important differences for medication
16 guides. In the instances of products that contain
17 estrogens, they are, in fact, required for
18 distribution to patients, much like medication
19 guides, but otherwise, PPI distribution is
20 optional.

21 In instances where PPIs may be used as the
22 brief summary for direct to consumer ads, they are
23 subject to FDA regulation, as listed in this slide.

24 [Slide.]

25 Many patient package inserts follow the

1 medication guide format on FDA's encouragement that
2 this format may well promote consistency in patient
3 adherence with patient labeling.

4 In fact, as many products are increasingly
5 packaged in unit-of-use packaging where PPIs may be
6 contained, they may function similarly to a
7 medication guide and that each patient would
8 receive a PPI.

9 [Slide.]

10 But to draw the distinction clearly,
11 medication guides are required to be dispensed with
12 medications to patients. For other than
13 estrogen-containing products, PPIs are optional.
14 In instances where generic products may enter the
15 marketplace, they conform to the same labeling
16 requirements as the innovator drug, and the
17 medication guide requirements convey then, as well.

18 [Slide.]

19 Turning now to the second broad category
20 of tools are those that we call systems that guide
21 prescribing, dispensing, and use.

22 The purpose of these systems is to assist
23 individuals in following appropriate prescribing
24 practices or stated in alternative terms, to make
25 it difficult for individuals to forget important

1 safety processes.

2 These may use a variety of reminders or
3 prompts.

4 [Slide.]

5 Examples of these might include the use of
6 patient agreements, sometimes called informed
7 consent, or practitioner certification programs.
8 There have been a number of special conditions of
9 dispensing that have been put into practice.

10 These include special packaging,
11 limitations on the supply of the drug product, or
12 the inability to obtain refills. In some
13 instances, check mechanisms have been put in place
14 to assure that appropriate prescribing has taken
15 place.

16 [Slide.]

17 An example of special packaging would be
18 the drug product Lindane, also known as
19 gamma-hexachlorocyclohexane. This product is now
20 limited in its dispensing to one or two ounce
21 aliquots due to the risk of seizures and death with
22 overdose from this product.

23 [Slide.]

24 Yet another product, in this case having
25 multiple guiding systems, is the drug product

1 alosetron, known perhaps to some of you as
2 Lotronex. For this product, there is a patient
3 agreement. There is physician attestation to
4 knowledge of the disease irritable bowel syndrome
5 and of the attendant product risks in using this.

6 The physician then obtains stickers which
7 are affixed to prescription. These indicate then
8 the physician's expertise, appropriate patient
9 selection, and signing of the patient agreement.

10 Pharmacists look for these stickers on
11 prescription prior to dispensing. This system
12 depends then upon individuals being aware and
13 informed about its existence.

14 [Slide.]

15 Turning to the third category of tools are
16 restricted access systems. These systems link drug
17 product access to compliance with risk management
18 program elements. An example would be the drug
19 product clozapine, or the expression is "no blood,
20 no drug," the reason being that proof of adequate
21 white cell count is necessary for pharmacists to
22 dispense this product.

23 Restricted access systems often limit
24 prescribing and dispensing to selected healthcare
25 practitioners and pharmacists and may require

1 documentation of safe use conditions, such as
2 laboratory tests or monitoring, before dispensing
3 to patients.

4 [Slide.]

5 One example of a restricted access system
6 is the thalidomide program, known as STEPS,
7 standing for the System for Thalidomide Education
8 and Prescribing Safety. I will be describing only
9 a component of this, it is actually quite complex.

10 But in the thalidomide system, this
11 product is shipped only to pharmacists who are
12 registered with the program, and these pharmacists
13 can dispense the product only if the following
14 conditions are met: that both the patient and the
15 prescriber are registered with the program,
16 necessary documentation is in place for that, and
17 that, in fact, there is some receipt of centrally
18 authorized information indicating both the provider
19 and the patient have been compliant with the
20 program features to assure that the product isn't
21 given to anyone who is pregnant.

22 [Slide.]

23 In its concept paper, FDA set forth three
24 considerations in the use and development of tools.
25 The first was that stakeholder input be solicited

1 on the feasibility and acceptance of the tools, and
2 this would include all manner of prescribers,
3 pharmacists, patients, and payors, and yet other
4 parties perhaps we haven't named.

5 The Agency also set forth the value of
6 consistency in selecting and developing tools since
7 we think it is important to look to existing and
8 well-accepted tools to minimize confusion and
9 burden upon the healthcare community.

10 The Agency also indicated the value of
11 evidence of past effectiveness of a tool in a
12 similar product or in a similarly related safety
13 objective in order again to make use of the most
14 effective tools.

15 One comment received by the Agency at its
16 public meeting in April, and also in the written
17 commentary that came after that, from the public,
18 was that another important consideration needed to
19 be stated explicitly. That was preserving patient
20 access to the benefits of drugs at the same time
21 that risks were minimized.

22 [Slide.]

23 It is important to make some mention here
24 of Subpart H, which is a regulatory approval option
25 available to FDA to be applied in instances where

1 we have used surrogate endpoints or in instances
2 where the Agency deems it important to have
3 restrictions to ensure safe product use.

4 Subpart H may include restricted access.

5 [Slide.]

6 However, restricted access or distribution
7 can be done without approval under Subpart H
8 approval provisions. Subpart H affords FDA the
9 opportunity of more rapid product withdrawal if
10 that should be necessary, and also gives FDA an
11 opportunity to review promotional materials prior
12 to their publication.

13 [Slide.]

14 The FDA concept paper on risk management
15 programs states as one of its important principles
16 that it feel risk management programs should be
17 evaluated. The Agency feels it is important to
18 measure the effectiveness and value-added of tools
19 and to use this information to assess progress
20 toward attaining goals and any changes in health
21 outcomes that might be attributed to the program.

22 It would also allow the modification, as
23 necessary, of a risk management program to ensure
24 that goals and health outcomes are, in fact, being
25 met.

1 [Slide.]

2 In talking about evaluation, the risk
3 management program concept paper has some overlap
4 with the concept paper on postmarketing
5 pharmacovigilance and pharmacoepidemiology. Active
6 or targeted surveillance systems may, in fact,
7 serve as means for measuring whether or not risk
8 management program goals or objectives have been
9 met and may, in fact, determine whether or not the
10 overall risk management program itself is effective
11 or needs modification.

12 [Slide.]

13 So, in summary, risk management programs,
14 as they have been put into practice to date, and as
15 FDA is stating its guidance to the industry over
16 the coming year, these are sparingly applied
17 interventions that have been intended to minimize
18 identified risks and that are goal-oriented in
19 terms of their purpose.

20 Risk management programs use tools that
21 are commensurate with the risks and benefits of the
22 products, and that they merit evaluation.

23 [Slide.]

24 Let me summarize and expand the three
25 categories of tools that I have described, the

1 first being education and outreach. Education and
2 outreach can take many forms, and the Agency and
3 sponsors have had experience with these categories
4 of interventions for many years. They can be
5 general or targeted and applied to many drugs.

6 They are perceived by many as being
7 limited in their intrusiveness on conventional
8 prescribing, dispensing, and use processes. Data
9 on the effectiveness of these interventions is, in
10 fact, limited, and the data that are available are
11 mixed with evidence of low to moderate influence
12 upon actual prescribing behaviors.

13 [Slide.]

14 The category of risk management program
15 tools that I described as guiding systems are more
16 limited in number than education and outreach.
17 These are perceived to be moderately intrusive on
18 conventional prescribing, dispensing, and use
19 processes, and as yet, we do not have evidence on
20 their effectiveness, but evaluations are planned
21 for several of these programs.

22 [Slide.]

23 Lastly, the category of risk management
24 program tools described as restricted access are,
25 like the guiding systems, applied really to a small

1 number of drugs and only a small number of systems
2 are currently in practice.

3 They have been applied to date for
4 products that have limited therapeutic alternatives
5 and which themselves are recognized to pose
6 significant risks. As such, the product and user
7 populations for these products is typically quite
8 small.

9 [Slide.]

10 Restricted access programs, because they,
11 in fact, do restrict access and distribution
12 through pharmacists and prescribers, are perceived
13 as being the most intrusive on prescribing,
14 dispensing, and use.

15 Because many of the participants in
16 restricted access programs are registered, they are
17 relatively closed systems and, as such, offer more
18 easy opportunities to evaluate their success.

19 To that end, the data that the Agency has
20 received to date has supported their effectiveness
21 in risk minimization in these specialized
22 populations, but they do also show instances where
23 product uptake has been slow and where there has
24 been substitution of alternative products for
25 products that have risk management programs.

1 That concludes my remarks. I have a few
2 minutes for questions if you like.

3 DR. KATZ: Thanks very much. Dr. Wlody.

4 DR. WLODY: I think one of the things that
5 we could probably agree upon is that although we
6 can't say how large a fraction of the problem it
7 is, that some fraction of the inappropriate use of
8 these opioid drugs may be due to lack of physician
9 knowledge, and with that in mind, I think it is
10 very interesting the case of alosetron where you
11 mentioned that stickers indicating physician
12 expertise have to be attached to the prescription
13 before it is filled by the pharmacist, and I would
14 be interested to know how that physician expertise
15 is demonstrated, is it just the physician
16 attestation of his knowledge?

17 DR. TRONTELL: I will invite Dr.
18 Raczkowski to add to my comments, but it is based
19 upon physician attestation of the necessary
20 knowledge to diagnose and appropriately treat
21 irritable bowel syndrome, so there is no
22 independent body assessing certification.

23 There are, in fact, a few programs that do
24 independently require certification. In the case
25 of the drug product dofetilide, that is the case

1 that a certain competency has to be demonstrated.

2 DR. RACZKOWSKI: Yes, that is correct.

3 The only thing I would add is that the physician's
4 self-attestation also includes attestation that the
5 physician is familiar with both the risks and
6 manifestations of some of the serious side effects
7 of alosetron and is familiar with how to treat
8 those serious complications.

9 DR. KATZ: Bob.

10 DR. DWORKIN: It sounded to me like the
11 two programs you described in a little bit of
12 detail, the alosetron program and the thalidomide
13 program, are ones that don't carry any penalties
14 associated with not following these
15 recommendations.

16 Is that correct, that these are really
17 structures without a penalty?

18 Just a follow-on question, if that is
19 true, is the DEA in a position, to the best of your
20 knowledge, to institute similar programs that do
21 have teeth, such that unless the program is adhered
22 to, the individual doesn't have their DEA license
23 maintained?

24 DR. TRONTELL: The two programs that I
25 described, the penalty, in fact, this probably may

1 be a difficult term for me to apply, in the case of
2 thalidomide, in fact, product access is not
3 supposed to occur unless every step is done and
4 documented. So, you might presume that the absence
5 of the drug product being dispensed, the
6 inconvenience or going back to, in fact, document
7 the safe-use conditions could be an inconvenience,
8 but no penalty is applied.

9 In the instance of the alosetron program,
10 there may be instances where individuals are
11 unaware of the program where, in fact, a
12 prescription may be filled without a sticker or a
13 physician may, in fact, write a prescription
14 without a sticker. Those are, in fact, being
15 evaluated at this time to determine to what extent
16 that may be a problem.

17 Again, I will invite Dr. Raczkowski if
18 there are any specific interventions related to any
19 early signs that this may be having lapses in its
20 application.

21 DR. RACZKOWSKI: I have no additional
22 comments.

23 DR. KATZ: Dr. Cush.

24 DR. CUSH: Could you comment on the
25 utility of a registry system as a restricted

1 access? I know those could be voluminous in what
2 they collect, and they can also be limited, but
3 nonetheless, have the same sort of effects as far
4 as monitoring and tracking what happens to
5 prescriptions and who they are given to, by whom,
6 how many, and the outcomes of such prescriptions.

7 DR. TRONTELL: My own perspective on
8 registry systems, it varies in part with our own
9 agency's experience. Registries may, in fact, be
10 put in place for purposes of obtaining information
11 rather than trying to direct use. In the case of
12 pregnancy registries, that may, in fact, allow us
13 to determine if inadvertent pregnancy exposure, so
14 they are more information gathering than
15 restricting, in fact, access to the program.

16 Registry programs, mandatory registries,
17 such as exist with thalidomide or for dofetilide,
18 in fact, in practice, either because of the product
19 or because of the registry itself, tend to be used
20 on relatively small populations of patients.

21 To my knowledge, they have not been widely
22 applied to products that have widespread use in the
23 population in that instance where they are being
24 used as a form of gate-keeping in terms of access
25 to the program.

1 They do offer the opportunity to collect
2 information on a population. It is important,
3 however, that these registry programs be really
4 highly focused on issues of product safety rather
5 than research. There are some human subject
6 concerns in setting up such programs.

7 DR. KATZ: Final question to Dr. Aronson.

8 DR. ARONSON: You mentioned education and
9 outreach in the same breath, and I guess I would
10 like to differentiate them at least in my own mind
11 as one being, I suppose, verification of knowledge,
12 not only teaching, but also to verify that the idea
13 was received, whereas, the other is promotion of an
14 idea over concept without necessarily verifying
15 that it was received.

16 In that light, you have noted that there
17 isn't any data to suggest that it makes a
18 difference, although we all have our sense that it
19 does.

20 Are you saying that because you are not
21 differentiating those two processes of education
22 and outreach, or because you have and it doesn't
23 matter no matter how you do it?

24 DR. TRONTELL: I may not be making the
25 same distinction in those two terms that do. The

1 distinction of some form of education that actually
2 requires some certification that a level of
3 knowledge has been attained. In fact, we might
4 categorize in the guiding systems, which is that a
5 certain level of competency needs to be
6 demonstrated to an external body prior to the
7 ability to prescribe, in contrast to the others
8 which are more passive and dependent on an
9 individual reading and absorbing and applying that
10 information.

11 DR. KATZ: Thank you, Dr. Trontell.

12 I realize we are getting to the part of
13 the afternoon where everyone's stamina and energy
14 is probably at its nadir for the day. What we will
15 do is we will take a eight-minute break. We will
16 resume with the final presentation from Dr.
17 Winchell and then we will have a focused and
18 productive discussion until 5:00.

19 [Break.]

20 DR. KATZ: It is my pleasure to introduce
21 Dr. Celia Winchell who is Acting Deputy Director of
22 the Division of Anesthetical, Critical Care and
23 Addiction Drug Products, our sponsor, who will be
24 speaking about current opioid risk-management
25 plans.

1 Current Opioid Risk Management Plan

2 DR. WINCHELL: To kick off this
3 afternoon's discussion, what is left of it, and
4 tomorrow's discussion, I am going to be describing
5 elements of existing risk-management programs for
6 opioid drugs.

7 [Slide.]

8 Before I begin, I will run through the
9 products that I will be mentioning in this
10 presentation to familiarize you with them and their
11 similarities and differences.

12 I am including OxyContin, Avenza and
13 Palladone which are within the group of
14 modified-release opiates that we are primarily
15 concerned with today and tomorrow. Others,
16 including Actiq, Suboxone, Subutex and Tramadol are
17 not really in the same category but the issues of
18 concern were similar and the programs have many
19 similar features.

20 OxyContin, as you know, is a
21 modified-release formulation of oxycodone. Avenza
22 is a once-a-day oral morphine. Palladone is a
23 modified-release hydromorphone. Actiq is a
24 high-dose fentanyl product formulated into an oral
25 transmucosal dosage form resembling a lollypop.

1 For Actiq, the primary concern was the
2 high potency of the product and the potential for
3 accidental overdose, either in patients,
4 themselves, due to improper patient selection or in
5 household contacts of the patients, especially
6 children who might be attracted to the product
7 because of its formulation.

8 It is sweet, raspberry flavored, could be
9 mistaken for candy. Because of this unique concern
10 related to the formulation, specific aspects of the
11 risk-management program for Actiq were included as
12 conditions of approval under Subpart H.

13 Tramadol is an analgesic whose abuse
14 potential was somewhat uncertain at the time of its
15 approval. So the important issue at the time that
16 this particular program was put into place was
17 early detection of abuse and misuse.

18 Finally, Suboxone and Subutex are two
19 bupranorphine formulations for agonist treatment of
20 opioid dependence. All of the issues brought up by
21 the opioid analgesics were relevant to these
22 products as well but there is naturally less
23 emphasis on encouraging doctors and pharmacists to
24 avoid providing the product to patients with drug
25 abuse problems.

1 Just to keep your interest, because I know
2 everybody is tired, we can make a little game of
3 finding the times that I say Suboxone-Subutex and
4 the times I say Subutex-Suboxone because I know I
5 am inconsistent. Also, you can find the times I
6 left the Capital C out of OxyContin.

7 [Slide.]

8 Three themes are prominent in these
9 programs. First, the prevention of accidental
10 overdose or unintended exposure; this refers to
11 possible overdoses in patients, themselves, who
12 lack opioid tolerance and to the possibility of
13 household contacts including children being harmed
14 by accidental exposure to the products.

15 Second is the encouragement of proper
16 patient selection. This subsumes, basically, two
17 things. On the one hand, providers are urged to
18 ensure the drug isn't given to someone who will be
19 harmed by it.

20 So, in the case of some high-potency or
21 high-dose products, this would include opioid-naive
22 patients but it also includes patients who don't
23 actually need opiate treatment and would,
24 therefore, have no justification for being exposed
25 to the risks of physical dependence, withdrawal and

1 overdose

2 Then the other aspect of proper patient
3 selection refers to making an effort to ensure that
4 the recipient of a prescription is, indeed, a
5 legitimate patient, not a fraudulent patient with
6 criminal intent who is obtaining the prescription
7 from misuse, abuse or sale. Thirdly, the programs
8 address the general topic of preventing and
9 detecting misuse and abuse.

10 The programs generally employ several
11 different features that have been listed among the
12 possible components of risk management plans,
13 education and outreach to patients, physicians and
14 pharmacists have been incorporated in various ways.
15 Some programs have also incorporated mechanisms to
16 ensure safe and appropriate use along the lines of
17 what was termed guiding systems by Dr. Trontell's
18 presentation.

19 Some features intentionally restricted
20 distribution to pharmacies early in launch and all
21 included some form of targeted surveillance in
22 addition to the usual passive collection of adverse
23 event reports with the stipulation that some sort
24 of prevention measures would be undertaken in the
25 case of concerning trends.

1 I will run through some of these
2 components were operationalized across risk
3 management programs, but let me emphasize that the
4 examples I am giving will not be exhaustive, just
5 representative.

6 [Slide.]

7 Education has been an important component
8 of virtually all of these programs. Patient
9 package inserts in consumer-friendly language have
10 been made available to alert patients to important
11 information about use of their medications. Each
12 one also emphasizes the risk of overdose and the
13 need to store the product securely away from
14 household contacts who could be harmed by exposure
15 to the products.

16 A public service campaign about the risks
17 of prescription drug abuse has been a component of
18 one program. Training materials and courses for
19 physicians and pharmacists have also been developed
20 and some companies have established call centers or
21 web sites to provide information about their
22 products.

23 Some programs have been targeted to
24 particular medical specialties, but a challenge for
25 these education and training programs for these

1 modified-release opioids is the broad range of
2 prescribers as was mentioned to use in Dr. Rigoni's
3 presentation of prescription usage data.

4 I will go through in a little more detail
5 what some of these educational programs include.

6 [Slide.]

7 The Subutex-Suboxone risk management
8 program includes a brochure for physicians that is
9 separate from the package insert. This brochure is
10 Answers to Frequently Asked Questions. It is about
11 the nuts and bolts of using the product. Because
12 special qualifications and a special notification
13 process involving HHS and DEA are needed before
14 using Subutex and Suboxone to treat opiate
15 dependence, this brochure walks the doctors through
16 that process.

17 It also gives tips on storage and
18 recordkeeping, so doctors will feel comfortable
19 keeping a supply on hand in order to provide
20 supervised dosing, and it gives some tips on
21 preventing diversion, just simple things like
22 writing prescriptions in a way that makes them less
23 likely to be altered, keeping your prescription
24 pads secure, and so on.

25 There are many opportunities for in-depth

1 physician education on these products, some
2 provided by the sponsor, but many provided by the
3 Substance Abuse and Mental Health Service
4 Administration.

5 These are conveyed through web sites and
6 through professional and through professional
7 organizations and fulfill the legal requirements
8 for training that is part of the notification
9 process.

10 [Slide.]

11 For Actiq, the physician education
12 component is aimed at specialists in oncology and
13 pain. It includes a CD-ROM that discusses child
14 safety, proper patient selection, prevention of
15 diversion and abuse, and proper handling of the
16 product, emphasizing safe storage and disposal.

17 Company made available a speakers' bureau,
18 they trained specialized detail reps to educate the
19 healthcare providers about the product, and in
20 addition, put together a professional information
21 kit and made that available to physicians.

22 [Slide.]

23 The program for OxyContin has included
24 physician education materials that address the use
25 of opiates in medical practice. An anti-diversion

1 brochure gives specific information about how
2 individuals obtain prescription drug from unwitting
3 physicians through theft or alteration of
4 prescriptions or through the fabrication of
5 clinical scenarios that persuade the physician to
6 write a prescription for the desired product.

7 These brochures alert doctors to these
8 techniques in order to help them guard against
9 them. In addition, materials on pain diagnosis and
10 management were developed, were funded and made
11 available, and, in addition, a CD-ROM-based
12 training program and series of lectures covering
13 both topics was disseminated.

14 Several program include education directed
15 specifically at pharmacists. I will run through
16 some examples. Prior to the approval of Suboxone
17 and Subutex, pharmacists actually had no role in
18 the agonist treatment of opiate addiction because
19 it was illegal under the Narcotic Addict Treatment
20 Act to prescribe the treatment. It had to be
21 dispensed at specialized clinics.

22 So, therefore, the entire concept of
23 pharmacist seeing patients coming in to fill
24 prescriptions for this type of treatment was novel,
25 so a pharmacist brochure was developed which, in

1 addition to the usual pharmacologic information
2 about the product itself, explained the
3 requirements for physicians under the Drug Abuse
4 Treatment Act, described the new role of
5 pharmacists in addiction treatment, gave some
6 helpful information about confidentiality and other
7 things that we thought would be useful to
8 pharmacists.

9 The seminars at pharmacy professional
10 meetings are also being sponsored to educate
11 pharmacists about various issues in addiction
12 treatment and specifically about the products.

13 [Slide.]

14 The Actiq program emphasized enlisting the
15 assistance of pharmacists as gatekeepers. Through
16 Dear Pharmacist Letters and ads, pharmacists were
17 prompted to check that the product was not
18 prescribed off-label, and they were to play a role
19 in ensuring the product did not go to opiate-naive
20 patients.

21 In addition, the pharmacists were enlisted
22 in giving child safety messages and giving the
23 materials that are intended to prevent accidental
24 exposure.

25 [Slide.]

1 A number of programs have employed tools
2 which fall broadly in the category of guiding
3 systems. These have been described as mechanisms
4 or processes that help well-intentioned people to
5 do the right thing.

6 For example, the OxyContin program
7 featured distribution of tamper-resistant
8 prescription pads to physicians that would help
9 them ensure their prescriptions would be less
10 likely to be altered, and because keeping the
11 product safely away from children in the home is a
12 key message of the Actiq program, the patients are
13 provided with a Welcome Kit that gives them the
14 tools to do just that. The kit contains cabinet
15 locks, a locked bag for storing drug supply,
16 child-resistant disposal container, and, in
17 addition, the Actiq program incorporated prompts in
18 the pharmacy software programs that are used in
19 major chains. It was to encourage pharmacists to
20 verify the patient was opioid-tolerant and to
21 inquire whether there were children present in the
22 home to make sure they got the appropriate child
23 safety messages.

24 [Slide.]

25 Although not the type of closed restricted

1 access system that Dr. Trontell described
2 associated with clozapine or thalidomide, some
3 element of restriction of access is included in
4 several of these programs.

5 Most obvious is control under the CSA.
6 That is a form of restricted access. Not everyone
7 can write a prescription for a controlled product,
8 only physicians with a DEA license can write
9 prescriptions for controlled products.

10 In addition, Schedule II control, which
11 prevents phone-in prescriptions, disallows refills,
12 and tends to prompt pharmacist scrutiny is in place
13 for most of these products.

14 An additional restriction is in place for
15 bupranorphine. Legislation, the Drug Abuse
16 Treatment Act, exists that permits agonist
17 treatment of opiate addiction outside the clinic
18 setting using specific medications. At present, it
19 applies only to bupranorphine.

20 Under this law, the physicians must meet
21 certain criteria. It must go through a
22 notification process to obtain a special
23 identification number from DEA, and this
24 identification number identifies the physician is
25 qualified to use the product.

1 Some programs also include mechanisms to
2 limit the distribution of products through retail
3 pharmacies, and they have monitoring to make sure
4 the sales match up with the geographic location of
5 legitimate prescribers and patients.

6 [Slide.]

7 One very prominent feature in these
8 programs is the inclusion of surveillance above and
9 beyond the usual approaches to pharmacovigilance
10 that are employed by pharmaceutical companies.

11 Each program has specific mechanisms or
12 studies to detect early signals that problems are
13 occurring. The Actiq program featured a series of
14 checks and balances. Pharmacists are surveyed to
15 ensure that the drug is being prescribed by
16 physicians on label. Physicians are surveyed to
17 ensure that the pharmaceutical detail reps are
18 delivering the appropriate information, and
19 patients are surveyed to ensure that pharmacists
20 are delivering safety messages.

21 [Slide.]

22 Almost every program incorporates
23 monitoring of various publicly available databases,
24 both commercial databases and government-sponsored
25 ones. Sponsors monitor prescription databases,

1 such as IMS Health, to get the type of drug usage
2 information we saw presented this morning, and in
3 addition, some may include monitoring of the ARCOS
4 database, the DEA-administered program.

5 Risk management programs also include
6 monitoring of databases, such as DAWN and the Toxic
7 Exposure Surveillance System, to get information
8 about overdoses and other adverse experiences and
9 to keep an eye on how the drug is being discussed
10 in the media and by the general public. Several
11 sponsors have a formal approach to media
12 surveillance, and also monitor internet discussion
13 sites where information about the abuse of their
14 products might be a topic.

15 [Slide.]

16 Where street use of the product is a
17 concern, programs have incorporated ways to detect
18 these trends through specific contact with
19 individuals who are in a position to be aware of
20 this use.

21 Important informants in these programs
22 include entrants into drug treatment. Some
23 programs have tapped into a government-funded
24 system known as DENS, the Drug Evaluation Network
25 System. This program collects information about

1 recent drug use from entrants into participating
2 treatment programs using a computerized intake
3 interview.

4 The interview uses the Addiction Severity
5 Index and therefore gives information about the
6 characteristics of patients who report using a
7 particular drug, such as their previous drug use
8 treatment history.

9 The sample currently includes 115 service
10 delivery units across 79 sites. The initial
11 sample, much smaller, was largely urban, but rural
12 and suburban areas were added in a recent
13 expansion.

14 For Suboxone and Subutex, an independent
15 system of interviews with entrants into treatment
16 was established, in which a cohort of 60 programs
17 in both urban and rural areas, treating both adults
18 and adolescents, are to administer a product
19 familiarity interview to their treatment entrants.

20 This interview asks not only what drugs
21 the specific patient has used, but asks what drugs
22 he or she has heard about people using on the
23 street.

24 Other program features intended to tap
25 into this question include surveys of law

1 enforcement officials, quarterly surveys of
2 individuals involved in drug abuse treatment and
3 research, who have been termed "key" informants,
4 surveys of physicians who have identified
5 themselves as providing bupranorphine treatment,
6 and semi-structured interviews with people involved
7 in the drug-abusing street culture by trained
8 ethnographers.

9 [Slide.]

10 To a greater or lesser extent, the various
11 programs have identified interventions that could
12 be taken if problems were detected through this
13 targeted surveillance. In many cases where the
14 problem might be tracked to improper patient
15 selection or off-label use, the intervention
16 involved retraining pharmaceutical reps and
17 auditing promotional practices basically to ensure
18 that doctors were being given the right
19 information.

20 The Actiq program went so far as to call
21 for the sponsor to send letters or have
22 pharmaceutical reps go visit doctors who were
23 identified as off-label prescribers. In addition,
24 the OxyContin program has explicitly identified as
25 one possible intervention, the involvement of law

1 enforcement in the area where diversion is
2 detected.

3 [Slide.]

4 In summary, drawing from the risk
5 management programs developed for various opioid
6 products, I have given some examples of education
7 and outreach efforts to physicians, pharmacists,
8 and patients.

9 I have described some guiding systems that
10 help people remember to do what needs to be done to
11 use the product safely. I have described some way
12 that supply and access to these drugs are
13 constrained, and the various approaches taken to
14 surveillance for abuse, misuse, and diversion.

15 Today and tomorrow, we will be asking for
16 your input on the pros and cons of different
17 approaches to each of these components of risk
18 management and your insights on how risk management
19 programs for these products can be optimized.

20 Thank you.

21 DR. KATZ: We have time for a question or
22 two to Dr. Winchell. Yes.

23 DR. GARDNER: Dr. Winchell, thanks for
24 that comprehensive list. Can you tell us whether
25 any of these have been evaluated? Do we have any

1 idea of the effectiveness of any of these methods?

2 DR. WINCHELL: A lot of these programs are
3 very new and have not been evaluated. We don't
4 have much data collected on some of them. I am
5 going to turn to my colleagues from the division to
6 give you any other information that they have about
7 these programs.

8 DR. RAPPAPORT: Unfortunately, we don't
9 have any information that we can give you today.
10 There is very limited information on a couple of
11 the programs, and it is somewhat tangential to the
12 discussions today.

13 The one bit of information that I think
14 will be useful to you will be provided to you
15 tomorrow by the folks from Purdue Pharma on the
16 data that is available from the OxyContin plan.

17 DR. DWORKIN: I have a related question.
18 After the program is approved and initiated, who is
19 doing the evaluation of two things, the data that
20 are collected by the program, whatever the program
21 is, and the integrity of the program itself, is it
22 simply that this is being done by the
23 pharmaceutical company in-house, or does the Agency
24 somehow provide monitoring and oversight of the
25 collected data and the program?

1 DR. WINCHELL: All of these programs
2 provide for periodic reporting to the Agency of the
3 data collected, and we evaluate those in contacts
4 with other sources of information that we have,
5 like our AERS database, so we get what they get.

6 DR. KATZ: Dr. Skipper.

7 DR. SKIPPER: You didn't mention modifying
8 the drugs, such as with Suboxone, adding naloxone
9 as a risk management mechanism or program. I would
10 like to know how that fits in as a category.

11 DR. WINCHELL: You could see it that way.
12 Again, that is a strategy that has not had
13 evaluation although it has theoretical appeal. It
14 has been done once before, again without much
15 evaluation.

16 DR. SKIPPER: It doesn't fit into any of
17 these categories, right, very well. It would be
18 product alteration to reduce risk.

19 DR. WINCHELL: I am going to let Dr.
20 Rappaport answer that.

21 DR. RAPPAPORT: I think we have somewhat
22 shied away from that because the efforts that have
23 been made by a number of different sponsors with
24 these types or products to make agonist/antagonist
25 formulations have been thus far unsuccessful,

1 troublesome, both in the area of manufacturing and
2 in clinical efficacy, and also the work that is
3 being done there in the studies that are being done
4 to evaluate the efficacy and the quality of these
5 products is not completed, so we really don't have
6 any data to present, but it has so far been rather
7 disappointing and we are not as hopeful as we were
8 a couple of years ago that that was going to be an
9 alternative way to deal with this problem.

10 DR. KATZ: Dr. Maxwell.

11 DR. MAXWELL: Let me go back and ask
12 again, and I am not quite sure who to ask, but I do
13 want to clarify very specifically. On the targeted
14 surveillance slide, there was comment that one of
15 the things was surveys of interest in some drug
16 treatment and the DENS program.

17 There was also mentioned the key informant
18 network and the street ethnography network. I
19 really would like to know, has FDA received any
20 reports from either the Suboxone or the OxyContin
21 manufacturers and distributors about any of these
22 three different surveillance methods, have they
23 come back to you and said we have gotten this many
24 people from DENS?

25 DR. WINCHELL: Bob?

1 DR. HERTZ: I am not Bob, by the way.

2 [Laughter.]

3 DR. HERTZ: Yes, we have some information.

4 Some of it is going to actually be presented
5 tomorrow by the company, so we will hear about some
6 of the information that has been collected so far
7 for programs that are common to the product to be
8 discussed tomorrow, as well as OxyContin. So, we
9 will hear some of that from Purdue.

10 What was the rest of that?

11 DR. MAXWELL: Suboxone. Again, this was
12 one of the ones that was mentioned. What data have
13 you gotten back on that one?

14 DR. RAPPAPORT: You may have more on this,
15 but that is a very new program, so we really don't
16 have anything back yet.

17 DR. KATZ: Dr. Aronson, then the last
18 question to Dr. Portenoy.

19 DR. ARONSON: Mine is very quick. You
20 mentioned in your discussions of methodology, the
21 granting of a specialized DEA licensure or
22 privilege. What is that mechanism or what would
23 you propose it to be?

24 DR. WINCHELL: Was this about the Drug
25 Abuse Treatment Act, the special DEA identification

1 number associated with bupranorphine treatment, is
2 that the question? Okay.

3 I am going to hope that my friends from
4 DEA and CSAT will run up here and tackle me if I am
5 very wrong, but the Drug Abuse Treatment Act
6 requires that physicians notify the Department of
7 their intent to use bupranorphine. They have to
8 certify that they have the necessary qualifications
9 and that they have the necessary facility to
10 provide or refer patients for ancillary treatment,
11 that they will restrict themselves to treating a
12 limited number of patients at a time, and this
13 notification goes through the Department of Health
14 and Human Services in the person of CSAT, and to
15 DEA, where if HHS finds the person is qualified,
16 they ask DEA to issue an identification number.

17 The identification number then can be used
18 on prescriptions or in other venues to indicate
19 that the physician has complied with the
20 requirements for notification.

21 DR. ARONSON: What is qualified? How do
22 you define that?

23 DR. WINCHELL: Qualified is defined by
24 law--Nick, do you want to answer this? This is the
25 expert on this law from the Center for Substance

1 Abuse Treatment, Nick Ruder.

2 DR. RUDER: The qualifications are
3 established in the statute. The physician must
4 have a license to practice medicine, and it's a
5 physician, it rules out nurse practitioners,
6 physician assistants, and things like that.

7 The physician must have a valid DEA
8 registration and the physician must be qualified by
9 training and experience, and training and
10 experience in this case means either certification
11 by three or five societies, medical societies, the
12 American Society for Addiction Medicine, the
13 Osteopathic Society, and the American Academy of
14 Addiction Psychiatry, or it could be eight hours of
15 training in addiction treatment.

16 That is all specified in the statute, and
17 the statute even goes on to say that eight hours of
18 training can be by electronic means, so eight hours
19 of training offered by an electronic web site also
20 qualifies as training and experience under this
21 law.

22 So, physicians certifies he will treat 30
23 or fewer patients, they have the capacity to refer
24 patients for other ancillary services, have a DEA
25 registration, license to practice medicine, and the

1 qualifications and training I talked about.

2 DR. WINCHELL: To the extent that you
3 might be getting some ideas about how this could be
4 applied in the current situation, it is helpful to
5 know that this law took probably five years to get
6 passed.

7 DR. KATZ: I am actually going to hold off
8 on further questions for now unless anyone wants to
9 sell one of their children for a question or
10 something like that.

11 Okay. Go ahead.

12 DR. PORTENOY: I would actually like to
13 sell three of my children.

14 DR. KATZ: Oh, no, I already have four,
15 that was a mistake, I take it back.

16 [Laughter.]

17 DR. PORTENOY: This is a very, very
18 important question, so my thanks to the Chairman.

19 From this broad framework of balance, has
20 the Agency given any thought in the evaluation
21 process to looking at the adverse effects of pain
22 control on legitimate patients from any of these
23 interventions? If not, why not?

24 DR. WINCHELL: Bob.

25 DR. RAPPAPORT: We have definitely given

1 it thought. It is a topic we actually brought to
2 you today to ask how to do that, what we should be
3 looking for in those kinds of programs. It is
4 clearly an issue we have been thinking about since
5 you actually brought it up two years ago at the
6 last meeting.

7 DR. KATZ: I have a very ambitious agenda
8 for the last 18 minutes or so of our session for
9 today. So, hopefully, with the help of the
10 Committee, we will be able to accomplish it, which
11 is to answer Question No. 1 on the list of
12 questions that we have.

13 Dr. Rappaport, you wanted to intercede
14 with a comment before we do that?

15 DR. RAPPAPORT: I want to just give a
16 little clarity to my earlier comment about the
17 purpose of the meeting, the discussion that we are
18 about to undertake, and that will probably continue
19 into tomorrow, is a general topic discussion. It
20 is not specific to Palladone. It is followed by a
21 specific question related to Palladone tomorrow,
22 what will probably be tomorrow afternoon by that
23 time, and how we then apply that to other similar
24 products and any recommendations that we glean from
25 your discussion and comments, how we then apply

1 that to other similar products is still under
2 discussion.

3 Committee Discussion

4 DR. KATZ: The last 16 minutes of our
5 agenda. I want to try to answer Question No. 1, so
6 if everybody could go in their packets and look at
7 Question No. 1, which is actually very short.

8 I think the way that we can actually make
9 some progress on this question in the next 15
10 minutes is for me to--I will read it to you, but
11 then I will break it up into what I think are more
12 digestible chunks, that I think are relatively
13 non-controversial at this stage, but yet very
14 important to the process of our meeting.

15 The question reads: Please discuss the
16 role of the potent, modified-release opioids in the
17 management of chronic pain.

18 What I am going to do is break that up
19 into four pieces. I will read you all those four
20 pieces now and then I will re-read No. 1. I am
21 going to start with No. 1 and see if we can work
22 our way through No. 4, if that makes any sense to
23 anybody.

24 Here are the four pieces that I would like
25 to break that question up into.

1 Question No. 1 is are there certain types
2 of patients for whom moderate-release opioids for
3 the treatment of chronic pain are appropriate, or
4 to put it the other way, are there certain types of
5 patients for whom moderate-release opioids are not
6 appropriate, and the dimensions of patient status
7 that we could consider are there is certain types
8 of pain intensities, moderate, severe--you heard
9 that discussion battered about earlier--for whom
10 these opioids should be contraindicated or for whom
11 they are indicated, are there certain diagnoses for
12 which we can say they are or are not indicated, et
13 cetera.

14 I will go through all of them and then I
15 will go back to No. 1. The next piece is are there
16 certain patients that are at higher risk for
17 complications of opioid therapy that potentially
18 could be identified upfront and perhaps be triaged
19 into a different sort of treatment program or
20 paradigm or clinic or specialist, et cetera.

21 No. 3 is, is there an appropriate duration
22 of treatment or is there a duration of treatment
23 that we can say a priori is never appropriate.

24 No. 4 is, is there an appropriate or
25 inappropriate dose of opioids that we can identify.

1 Those are the four pieces. I know that
2 people didn't take them down, so I will go through
3 them now, one by one.

4 So, Question No. 1 or Subquestion No. 1
5 is: Is there any class of patients that we can
6 identify a priori for whom long-term treatment with
7 opioids is not appropriate?

8 Let me actually prompt the group even
9 further. Is there any level of pain intensity for
10 whom we can say, at the outset, that opioids are
11 not appropriate? People with moderate pain, people
12 with severe pain, mild pain, certain diagnostic
13 types?

14 Dr. Portenoy.

15 DR. PORTENOY: It is easiest to go to the
16 populations for which there is a worldwide
17 consensus about the appropriate use of opioids to
18 answer the question, so the populations for which
19 there is very little argument around the world is
20 patients with cancer and advanced medical illness,
21 patients with AIDS who have advanced medical
22 illness, and acute pain patients.

23 I think, as a general rule, in all those
24 populations, what the guidelines around the world
25 say is that anybody with moderate to severe pain

1 should at least be considered a candidate for
2 opioid therapy.

3 So, the population that is not a candidate
4 is the population of patients whose pain is
5 generally mild, otherwise, they are all potentially
6 candidates.

7 DR. KATZ: Does anybody have anything to
8 add to that or disagree or care to amplify? Yes,
9 Dr. Skipper.

10 DR. SKIPPER: I am wondering if rather
11 than use the terms "moderate" or "severe," it is
12 better to look at function, you know, pain that
13 inhibits, you know, active function, or is there
14 any question about those terms? They are so
15 relative.

16 DR. PORTENOY: Could I answer that because
17 I also didn't want to leave the impression that the
18 guidelines or the consensus that has been applied
19 for patients with advanced medical illness are
20 being viewed as being simply transposable to
21 chronic, nonmalignant pain. I didn't mean to say
22 that.

23 But I think from the perspective of
24 chronic, nonmalignant pain, there is a consensus,
25 at least in the community of pain specialists that

1 is gradually evolving that patients with chronic,
2 moderate to severe pain, which has impact on
3 quality of life should at least be considered for
4 opioid therapy, but one has to consider what
5 conventional practice is, one has to consider
6 whether other types of therapies exist that might
7 have a better risk-benefit ratio, and one has to
8 consider whether or not those patients have the
9 capacity for responsible drug use.

10 So, the considerations in the population
11 without advanced medical illness become more
12 complex and require greater assessment, but the
13 bottom line is that as a broad population issue in
14 terms of pain severity, it is moderate to severe
15 from a verbal report perspective, and not requiring
16 them to function poorly.

17 DR. KATZ: What I am hearing from you, you
18 are telling us that there is more or less a
19 worldwide consensus that patients with terminal
20 illnesses or life-threatening illnesses essentially
21 regardless of pain severity are appropriate
22 candidates for consideration of opioid therapy.

23 I don't hear anybody disagreeing with
24 that. Somebody can flag me down if they do.

25 The next category, the much larger

1 category, as we have learned, is those patients
2 with chronic pain not related to terminal illness,
3 and I am hearing from you that in patients with
4 nonmalignant pain, whether it be moderate or severe
5 in intensity, opioid treatment can be appropriate
6 long term given the other considerations that you
7 had mentioned.

8 So, in other words, what I am trying to
9 say is that even patients with moderate pain,
10 nonmalignant in nature, should not be excluded from
11 opioid therapy, but should be considered with the
12 other provisos that you mentioned.

13 DR. PORTENOY: Again, this is from my
14 perspective. If one goes through an assessment of
15 the patient and thinks about what conventional
16 practice is, what the risk-benefit ratio of
17 alternative treatments are, and whether or not the
18 patient has the capacity for responsible drug use,
19 they will end up being a subpopulation of patients
20 whose verbal report is that they have moderate pain
21 for which opioids appear to be the safest and most
22 appropriate therapy, but there will be a large
23 number of patients for whom opioids shouldn't be
24 considered, because either conventional practice is
25 very much against it or because the risk-benefit

1 ratio falls on the side of trying alternative
2 approaches first.

3 DR. KATZ: Does anybody disagree with that
4 in the sense that they feel that patients with pain
5 who by verbal report is in the moderate range,
6 should be categorically excluded from long-term
7 opioid therapy? Is there anybody at this table
8 that feels that way? Dr. Leiderman.

9 DR. LEIDERMAN: Just a question,
10 clarifying for Dr. Portenoy. When you say "opioid
11 therapy," now, are we talking about all opiates, or
12 immediate-release, combination, short-acting,
13 long-acting, and then sort of my corollary to that
14 question is I think it is really important to
15 distinguish because, of course, we are talking, we
16 are differentiating, that is the point of the
17 meeting, a particular class of high dose, high
18 potency, extended-release opiates at this meeting.

19 Then, I guess another corollary is do you
20 conceive of an algorithm as being appropriate? In
21 other words, should physicians in a best practice
22 sense, either formally or informally, go through a
23 reasonable algorithm that goes from non-opiates,
24 NSAIDs, or whatever, up to immediate-release,
25 combination, and then obviously depending upon

1 response and failing at one of those levels, be
2 moved on in a sequential way as the WHO guidelines
3 suggest for cancer pain.

4 DR. PORTENOY: I am glad you mentioned
5 cancer pain at the end because my thinking is that
6 it is always good to start with that population and
7 then to think about how this moving target of what
8 is appropriate opioid prescribing looks today and
9 what has to happen to make it go forward in an
10 appropriate way.

11 In the cancer population, there has been
12 an ongoing controversy for 10 years about whether
13 or not the latter is necessary, and there have been
14 a couple of studies to show that patients with
15 moderate pain do completely well with long-acting
16 analgesics, with modified-release analgesics if the
17 doses are adjusted appropriately, so they are
18 started at very low doses.

19 From the pharmacological perspective,
20 there is nothing magical, as you know, about a
21 modified release opioid. If the dose is adjusted
22 appropriate to the level of the patient's prior
23 opioid exposure and pain, the patient should do
24 well with that, and so the latter was developed as
25 a teaching tool, but shouldn't be viewed as dogma,

1 as the only way you can treat a cancer patient.

2 So, from that perspective, can you bring
3 that paradigm into the nonmalignant population? I
4 would say yes, you can. I think the first decision
5 to make is whether or not a patient is a candidate
6 for long-term opioid therapy, and if they are a
7 candidate for long-term opioid therapy, then, the
8 question is which drug to be started, at which
9 dose, monitored in an appropriate way over time, so
10 that the therapy remains safe and can have the best
11 chance for effectiveness.

12 If a patient has mild pain, I think
13 everybody would agree that an opioid is not
14 indicated or it would be perfectly reasonable to
15 try a non-opioid first. If a patient has moderate
16 pain, and they are still functioning well, that
17 might be perfectly appropriate, as well.

18 Even if a patient presents to the practice
19 and they have severe pain, but they are coping well
20 and functioning well, one might think to try an
21 NSAID first or an alternative non-opioid adjuvant
22 analgesic with other modalities first.

23 I don't think we should stipulate that a
24 specific therapy should be attached to a certain
25 pain intensity, but if the entire clinical setting

1 supports the use of opioid drugs, based on an
2 assessment of the patient including a risk
3 assessment, then, the selection of the drug
4 follows, to me, the same guidelines as appropriate
5 for cancer pain.

6 In some cases, that would be to start with
7 a short-acting and titrate, in some cases, it might
8 be to start with a long-acting. Some of my best
9 cases, parenthetically, have been elderly people
10 that I have started on once-daily drugs at very low
11 dose, because I can be sure adherence to therapy, I
12 find it easy to monitor, and I can adjust the dose
13 to make it safe.

14 DR. KATZ: Dr. Brill.

15 DR. BRIL: I guess I have a slightly
16 different viewpoint for chronic, nonmalignant pain.
17 First, pain severity. Someone with mild pain, I
18 don't know that you need to go to an opiate at all.

19 So, we are talking about moderate and
20 severe, so if you have carcinoma or cancer or
21 terminal HIV or something like that, then, I have
22 no trouble going directly to an opioid. If it's a
23 chronic, nonmalignant situation, I do have a lot of
24 trouble because I haven't yet heard anything that
25 will predict, for me, the patients will have

1 trouble with the addiction or tolerance.

2 In all the studies I have seen, the
3 patients who were on opiates for nonmalignant pain
4 have the complications or adverse effects that are
5 typical of the class, so, therefore, they have the
6 potential for tolerance even though I know in
7 diabetic neuropathy, they say that they don't get
8 that with Tramadol, I just don't know about that.

9 So, I would think that for nonmalignant
10 pain, what appears to be most reasonable for me,
11 with moderate pain, is that you go through
12 alternative therapeutic approaches, and that that
13 will actually be what is advocated.

14 I just have a real problem in going
15 directly to slow-release or fast-acting or any kind
16 of opiate that has all those potentials for the
17 complications and addiction, and I haven't really
18 heard anything today that can identify for me
19 definitely the patients who will run into trouble
20 with that.

21 I mean I am really happy to learn more
22 about it if I could, plus I haven't heard that this
23 class of drugs is more effective really in a
24 resounding way, say, as opposed to the tricyclic
25 antidepressants for neuropathic pain or the

1 anticonvulsants. I mean I haven't heard that one
2 is clearly superior, and they will all have side
3 effects. I mean everything we use will have side
4 effects, so I would think you might start with the
5 least and then build up. That is basically how I
6 would think.

7 DR. KATZ: Let me try to summarize what
8 you just said, which seems to me that you feel that
9 opioids should not be used until other therapies
10 which have demonstrated safety and efficacy have
11 been tried first and have not been satisfactory.
12 Is that your point?

13 DR. BRIL: Pretty well, yes, because I
14 have found, I guess for these patients, they do
15 need chronic therapy, so I think the potential for
16 abuse then increases, I would think, but, you know,
17 I am not for sure, but they do need chronic
18 therapy.

19 I found very few of my patients that can
20 be treated for a few weeks or a few months and then
21 stop treatment. They are on the treatment for
22 years.

23 DR. KATZ: Certainly, if that
24 recommendation echoes throughout many of the
25 guidelines for use of long-term opioids that are

1 available, I don't think you would disagree with
2 that, Russ, do you?

3 DR. PORTENOY: No, I think we are in
4 screaming agreement for the most case, but I think
5 in the absence of good--there aren't good data to
6 show that opioids work in all different kinds of
7 pain syndromes, as you know, and there is a little
8 comparative data as the study that Nat talked about
9 before that compared a tricyclic with morphine in
10 diabetic neuropathy, but we are in a situation
11 where we don't have enough efficacy or safety data
12 for long enough periods of time, in appropriately
13 selected subpopulations to be able to know in a
14 very certain way, so it is in the realm of clinical
15 judgment.

16 If you have a patient--I am just thinking
17 in terms of case examples--but if you have a
18 patient at the age of 60, who has an evolving
19 painful diabetic polyneuropathy, had no prior
20 history of substance abuse, has no family history
21 of substance abuse, but has some significant risk
22 factors to anticonvulsant and antidepressant
23 therapy, and hasn't responded to NSAIDs over the
24 counter, and that patient is no longer able to
25 function well because the pain is becoming chronic

1 and debilitating and sleep is interfered with, and
2 the patient is developing a mood disorder, and in
3 your mind, you go through the risk-benefit ratio of
4 thinking shall I start this patient on an opioid,
5 or put this patient at some additional significant
6 risk by trying a tricyclic or an anticonvulsant, I
7 would think that the data at this point in time
8 would support that route.

9 Again, if you are saying, well, where is
10 the study to show that this 60-year-old diabetic
11 with painful polyneuropathy, predisposed to side
12 effects from anticonvulsants and antidepressants,
13 with no prior history of substance abuse and a
14 negative family history, is going to do well six
15 years later, I don't have that data.

16 I would say, well, where is the data that
17 they are going to do well with the tricyclic, you
18 don't have those data either. So, I think that is
19 the realm, that is the situation we are in.

20 DR. KATZ: So, with apologies to people
21 who have questions and are waiting, I am not going
22 to let this point go until it is done since it's
23 two minutes of 5:00. I don't hear anybody saying
24 that patients with pain of moderate intensity
25 should categorically be excluded from opioid

1 therapy. Everyone is saying that there may be
2 other considerations involved in choosing the
3 therapy, which is the same for any medical
4 treatment for any condition.

5 This is nothing new for physicians that
6 there might be treatment considerations other than
7 one simplistic one. But I don't hear anybody
8 saying that patients whose pain is of an intensity
9 that is moderate should categorically be excluded
10 from opioid therapy.

11 Am I missing something here, Dr. Skipper?

12 DR. SKIPPER: I want to say one thing. It
13 seems like to me that I still think that function
14 needs to be the key element. Even if somebody has
15 mild pain, and they are not able to function, then,
16 that might be a candidate, because I think the
17 problem with these mild, moderate, severe is if
18 somebody wants the drugs, and you say, well, you
19 have to have moderate pain to get it, well, oh,
20 yeah, I have moderate pain. But if we analyze it
21 from the function point of view, which is what we
22 look at to decide if it's working, are they
23 improving their function. If there is no decrease
24 in function to begin with, how do we know?

25 DR. KATZ: I understand your point. It

1 doesn't sound like you are disagreeing with me.

2 DR. SKIPPER: I am disagreeing to use that
3 as a measure, to say that patients with moderate
4 to severe pain would be candidates.

5 DR. KATZ: You are saying that you would
6 be more inclusive than that and allow patients with
7 even lesser degrees of pain intensity, but
8 functional impairment also--

9 DR. SKIPPER: Look at it from a whole
10 different perspective, and not use those degrees at
11 all.

12 DR. KATZ: Fine, that's great.

13 It's 5 o'clock. I am going to defer to
14 the folks from FDA to see if they have any
15 concluding comments from our session today.

16 Sorry, one announcement that I have been
17 asked to make about 20 times, and I have forgotten
18 every time.

19 It is not appropriate for people on the
20 Advisory Committee to speak about Advisory
21 Committee matters between now and 8 o'clock in the
22 morning when you are sitting around the table, and
23 I will see you then.

24 [Whereupon, at 5:00 p.m., the proceedings
25 were recessed, to resume on Wednesday, September

1 10, 2003, at 8:00 a.m.]

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