

UNITED STATES OF AMERICA  
FOOD AND DRUG ADMINISTRATION  
CENTER FOR DRUG EVALUATION AND RESEARCH

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ANESTHETIC AND LIFE SUPPORT DRUGS

ADVISORY COMMITTEE

\* \* \*

MEETING

\* \* \*

WEDNESDAY,

JANUARY 30, 2002

\* \* \*

The Advisory Committee met in the Holiday Inn, Two Montgomery Village Avenue, Gaithersburg, Maryland, at 8:00 a.m., Dr. Nathaniel P. Katz, Acting Chairman, presiding.

PRESENT:

NATHANIEL P. KATZ, M.D.

JIM ANTHONY, Ph.D.

MICHAEL A. ASHBURN, M.D., M.P.H.

JANICE BITETTI, M.D.

JEFF BLOOM

AMANDA S. CARLISLE, PH.D., M.D.

MARIA K. CONNOLLY, D.N.Sc.

## PRESENT (Continued):

DEBRA FRIEDMAN, M.D.

KATHLEEN M. FOLEY, M.D.

ERIC S. HOLMBOE, M.D.

TERESE T. HORLOCKER, M.D.

BRUCE ALLEN LEVY, M.D., J.D., Guest

LLYN A. LLOYD, R.Ph.

MITCHELL B. MAX, M.D.

CHARLES H. McLESKEY, M.D.

LAURA F. McNICHOLAS, M.D., Ph.D.

WINSTON C.V. PARRIS, M.D., FACPM

RUSSELL PORTENOY, M.D., Guest

MARCUS M. REIDENBURG, M.D.

RICHARD G. ROBERTS

NEIL L. SCHECHTER, M.D.

MARK SCHREINER, M.D.

CHARLES SCHUSTER, M.D.

RICHARD M. SMILEY

JOSEPH R. TOBIN, M.D.

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

(8:14 a.m.)

ACTING CHAIRMAN KATZ: Good morning. Can everybody hear?

I'd like to call the meeting to order. I'd like to thank everybody for coming. My name is Nathaniel Katz. I'll be chairing the meeting this morning.

This is the Anesthetic and Life Support Drugs Advisory Committee meeting. The topic for the next two days will be opioids. So if you're in the wrong place, you can make yourself aware of that right now.

Let me begin by again thanking all of you for coming and thanking the folks at the FDA for inviting me to participate in this meeting.

What I'll be doing first is I'll begin with a few moments of introductory comments to try to set a context for today's meeting.

The subject as you all know is opioids, and I'd like to just take a moment and provide a historical context for the discussions that we'll be having over the next two days.

As many of you may know, opioids have been used for therapeutic purposes for a long, long time.

1 The first reports that we have of the use of opioids  
2 come from actually the first historical writings which  
3 were from ancient Sumeria in about 4000 B.C., and  
4 there were clear-cut writings then about the  
5 therapeutic of opioids.

6 And we have awareness of the use of  
7 opioids from most cultures since that time. Already  
8 in about 300 B.C., there was a vociferous argument  
9 going on in the literature where some people were  
10 saying, some physicians were saying that opioids  
11 should never be used because of their horrible side  
12 effects and complications, whereas others, including  
13 Galen in the 2nd Century A.D., decided that opioids  
14 should be used for everything because they cure all  
15 illnesses.

16 And since that time up until the present  
17 day, we've seen that the discussions of opioids have  
18 typically been framed in that context, where people  
19 have taken either one dramatic view or another one and  
20 have sort of shouted at each other over these gulfs.

21 And that applies up until the present day,  
22 I think, in the year 2002. Today I think we have an  
23 opportunity to start to discuss these issues in a  
24 different way in that we can actually in one of the  
25 few occasions in history start to have a rational

1 discussion where we all try to understand differing  
2 points of view and get them all on the table so that  
3 we can inform each other and understand the issues  
4 rather than just shouting from our positions, and so  
5 that we don't take the risk of being like the blind  
6 men feeling the elephant where the one on the tail  
7 thinks that he's feeling a rope and the one on the leg  
8 thinks that it's a tree, and all of them suffering  
9 because they don't really see the whole picture. They  
10 just know what their one little part is.

11 So today and tomorrow what we're going to  
12 try to do is understand the whole picture.

13 So with that context, I'd like to set  
14 forth what the goals of the meeting are for the next  
15 two days, which are to share ideas about opioids with  
16 each other, exchange information, synthesize the whole  
17 picture for ourselves, help inform this division of  
18 the FDA about these issues.

19 What we're not going to be doing over the  
20 next two days or what the goals are not are  
21 necessarily to come to any consensus or agreement on  
22 some of the major issues. I think it will be enough  
23 if we can simply inform each other and understand  
24 these issues better.

25 The goal of this meeting is not to take

1 any particular drugs off the market. It's not to  
2 focus on any specific drugs. We're trying to deal  
3 with the opioids as a class since they all share very  
4 similar properties; not to focus on any particular  
5 members of that class. We're not going to try to come  
6 up with any black and white prescriptions for what  
7 anybody ought or ought not to do about some of the  
8 issues that we'll be discussing today, but to really  
9 try to bring all of these issues to light and  
10 understand them better, and I'll look forward to the  
11 help and support of the Advisory Committee in  
12 achieving the goals of getting all of these issues on  
13 the table without necessarily being overly  
14 prescriptive if it's premature to do so.

15 So those are our goals, and I look forward  
16 to everybody's support in achieving those goals.  
17 There are a few housekeeping rules that I'll want to  
18 mention to help us achieve those goals. My main role  
19 will be to make sure that everybody gets heard today  
20 in the light of getting all of this information out  
21 there on the table.

22 And so in order to do that, we're all  
23 going to have to stay on time. So I'm going to be the  
24 big, bad guy that's rude and obnoxious when people  
25 spill over their allotted time. That will be



1 particularly important for the public speakers.

2 We have a very packed agenda today. There  
3 were a huge number of pieces of information received  
4 for this meeting. The last count that I heard is that  
5 there were over 1,600 submissions of opinions to this  
6 meeting. When I asked how many more that is than one  
7 usually gets at a meeting like this, the answer was,  
8 oh, about 1,500 more than we usually get.

9 (Laughter.)

10 ACTING CHAIRMAN KATZ: So I guess there  
11 was a lot of excitement about this issue. So it's  
12 going to be very important for people to stay within  
13 their focus and within their allotted time, and I'll  
14 deal more with that later.

15 So I'll be the rude guy, and I'll ask for  
16 everybody's forgiveness in advance if I cut off your  
17 microphone or do something obnoxious like that so that  
18 everyone can have their opinions heard.

19 With that, I'll introduce Kimberly Topper,  
20 the Executive Secretary of the committee, who will  
21 read the conflict of interest statement.

22 MS. TOPPER: The Food and Drug  
23 Administration has prepared general matters waivers  
24 for the following individual special government  
25 employees: Michael Ashburn, Janice Bitetti, Richard

1 Gorman, Eric Holmboe, Terese Horlocker, Mitchell Max,  
2 Laura McNicholas, Winston Parris, Marcus Reidenburg,  
3 Richard Smiley, Joseph Tobin, Nathaniel Katz, Llyn  
4 Lloyd, Maria Connolly and Amanda Carlisle, who are  
5 attending today's meeting.

6 The committee will meet in open session to  
7 discuss the medical use of opioid analgesics in  
8 various patient populations, including pediatric  
9 patients and patients with chronic pain of  
10 nonmalignant etiology, as well as the risk-to-benefit  
11 ratio of extending opiate treatment into these  
12 populations.

13 The committee will also discuss concerns  
14 regarding the abuse potential, diversion, and  
15 increasing incidence of addiction to opiate  
16 analgesics, especially to the modified release opiate  
17 analgesics.

18 The FDA is in the process of amending its  
19 policy concerning disclosure of financial interests to  
20 give rise to waivers for participation in meetings in  
21 which particular products are at issue. Unlike issues  
22 before committee on which a particular product is  
23 discussed, the issues of broad applicability, such as  
24 the topic of today's meeting, involve many industrial  
25 sponsors and academic institutions.

1           The committee members have been screened  
2 for their financial interests as they may apply to the  
3 general topic at hand. However, because of general  
4 topics' impact on so many institutions, it's not  
5 prudent to recite all potential conflicts of interest  
6 as they apply to each member.

7           FDA acknowledges that there may be  
8 potential conflicts of interest, but because of the  
9 general nature of the discussion before the committee,  
10 these potential conflicts are mitigated.

11           Should the discussion turn to issues  
12 related to a specific party matter, the Chair of the  
13 committee will either terminate the proceedings or  
14 redirect the discussion only to matters of general  
15 interest.

16           With respect to invited guests, the  
17 following are reported interests which we believe  
18 should be made public to allow the participants to  
19 objectively evaluate their comments.

20           Dr. James Anthony serves as a researcher  
21 and has contacts and grants from NIDA, NIMH, NIA,  
22 CSAT, CSAP, and NIJ. In addition, in the past, Dr.  
23 Anthony has given a talk for Purdue Pharma and has  
24 served as a scientific advisor for Star Scientific.

25           Dr. Steven Passik is a researcher on

1 contracts and grants from Eli Lilly, Janssen, Ortho  
2 Biotech, Organon, and Pfizer. He consults for Eli  
3 Lilly, Janssen, Ortho Biotech. Additionally, he's the  
4 scientific advisor to Eli Lilly, Janssen and Adolor.  
5 He receives speaker fees from Eli Lilly, Janssen,  
6 Ortho Biotech, Organon, Pfizer, Purdue Pharma,  
7 Roxanne, and Knoll.

8 Dr. Richard Roberts is a scientific  
9 advisor to Pharmacia's Detrol Global Advisory Board and  
10 the Pfizer/Pharmacia Bextra Primary Care Advisory  
11 Board.

12 Dr. Charles Schuster has consulted for  
13 Alza Corporation in the past.

14 Dr. Neil Schechter served on Astra-  
15 Zeneca's Speaker Bureau.

16 Dr. Mark Schreiner is a Medical Director  
17 for Children's Clinical Research Institute, AFSA  
18 (phonetic), and he's involved in clinical trials  
19 sponsored by Baxter Pharmaceutical, Sanofi Synthelabo,  
20 Novartis, Purdue Pharma, L.P., King Pharmaceuticals,  
21 Abbott and Glaxo SmithKline. He receives no direct  
22 compensation for the pharmaceutical sponsors.

23 Dr. Kathleen Foley in the past ten years  
24 has consulted with of the companies that make  
25 analgesic drugs. In the past year she's worked with

1 Purdue Pharma, Janssen, Knoll, and Abbott.

2 She is also on the Speaker's Bureau for  
3 Purdue Pharma, Knoll, and Janssen. Additionally she  
4 is a Scientific Advisory for the American Pain  
5 Foundation.

6 Dr. Russell Portenoy has constituencies  
7 with Merck, Ligand, and Akros. He is also on the  
8 Speakers Bureau for Purdue Pharma and Janssen.

9 Dr. Portenoy also serves as Scientific  
10 Advisor for Cima Pharmaceuticals, Direct, and  
11 Chrysalis. Additionally, he reports involvements on  
12 contracts and grants with Parke-Davis, Boehringer  
13 Ingelheim, Elan, Ortho Biotech, Endo, Ametek,  
14 Medtronic, Purdue Pharma, Pfizer, Janssen, Abbott,  
15 Curatech, Ortho-McNeil, Elon, Pfizer, and Searle.

16 In addition, we'd like to disclose that  
17 Dr. Charles McLeskey is participating in this meeting  
18 as our industry representative acting on behalf of  
19 regulated industry. As such he has not been screened  
20 for any conflicts of interest.

21 In the event that any discussions involve  
22 any other products or firms not already on the agenda  
23 for which FDA participant has a financial interest,  
24 the participants are aware of the need to exclude  
25 themselves from such involvement and their exclusion

1 will be noted for the record.

2 ACTING CHAIRMAN KATZ: Thank you,  
3 Kimberly.

4 What I'd like to do now is to do  
5 introductions. I'd like to go around the table and to  
6 have everybody on the committee and invited guests  
7 take a moment to introduce themselves, tell us who you  
8 are and what you do.

9 Why don't we start at that end of the  
10 table, please?

11 DR. KWEDER: Good morning, everyone. I'm  
12 Sandra Kweder. I'm the Director of the Office of Drug  
13 Evaluation II at FDA. What that means is my office  
14 oversees the work of the Anesthetics, Critical Care  
15 Life Support Division, as well as several others.

16 DR. RAPPAPORT: Good morning. I'm Bob  
17 Rappaport. I'm the Deputy Division Director of the  
18 Division of Anesthetics, Critical Care and Addiction  
19 Drug Products at the FDA.

20 DR. DalPAN: Good morning. I'm Gerald  
21 DalPan. I'm a medical reviewer in the Division of  
22 Anesthetics, Critical Care and Addiction Drug Products  
23 at FDA.

24 DR. MAX: My name is Mitchell Max. I'm a  
25 neurologist, and I do chronic pain clinical trials at

1 the National Institutes of Health and the Dental  
2 Institute.

3 DR. LLOYD: I'm Llyn Lloyd. I'm the  
4 Executive Director of the Arizona State Board of  
5 Pharmacy.

6 DR. REIDENBURG: I'm Marcus Reidenburg.  
7 I'm an internist and pharmacologist, head of the  
8 Division of Clinical Pharmacology at Cornell Medical  
9 College.

10 DR. HOLMBOE: I'm Eric Holmboe. I'm a  
11 general internist from Yale University.

12 DR. ASHBURN: My name is Michael Ashburn.  
13 I'm the Director of Pain Programs at the University  
14 of Utah and at Primary Children's Medical Center in  
15 Salt Lake City.

16 DR. McNICHOLAS: Good morning. My name is  
17 Laura McNicholas. I'm from the University of  
18 Pennsylvania in the Philadelphia VA. I'm a  
19 psychiatrist specializing in the treatment of  
20 substance abuse.

21 DR. HORLOCKER: I'm Terese Horlocker from  
22 the Mayo Clinic. I'm also Vice President of American  
23 Society of Regional Anesthesia and Pain Medicine.

24 DR. SMILEY: Good morning. I'm Rich  
25 Smiley, Director of Obstetric Anesthesia at Columbia

1 University.

2 DR. ROBIN: Good morning. I'm Joe Tobin.

3 I'm a pediatric anesthesiologist and intensive care  
4 specialist at Wake Forest University.

5 ACTING CHAIRMAN KATZ: As I said earlier,  
6 my name is Nathaniel Katz. I'm a neurologist. I run  
7 the Pain Clinical Trial Center at Brigham Women's  
8 Hospital in Boston, and for many years I ran the Pain  
9 and Symptom Management Program at the Dana Farber  
10 Cancer Institute at Brigham Women's Hospital in  
11 Boston, as well.

12 DR. CARLISLE: Good morning. I'm Sue  
13 Carlisle. I am an anesthesiologist and intensivist  
14 and Chief of Anesthesia at San Francisco General  
15 Hospital in San Francisco.

16 DR. PARRIS: Good morning. I'm Winston  
17 Parris. I'm a pain consultant at the Tampa Pain  
18 Relief Center and clinical professor of  
19 anesthesiology, University of South Florida in Tampa.

20 DR. BITETTI: And I'm Janice Bitetti. I'm  
21 an anesthesiologist/intensivist at George Washington  
22 University here in Washington, D.C.

23 DR. McLESKEY: Charlie McLeskey, an  
24 anesthesiologist by training. I work at Abbott Labs  
25 and serving as industry consultant to the committee.



1 MR. BLOOM: My name is Jeff Bloom, and I'm  
2 a retired AIDS patient advocate since 1994. I retired  
3 with complications from myelopathy, and since 1994  
4 I've been an AIDS patient advocate volunteer in  
5 Washington, D.C.

6 DR. PORTENOY: I'm Russ Portenoy. I'm a  
7 neurologist, and I'm Chairman of the Department of  
8 Pain Medicine and Palliative Care at the Beth Israel  
9 Medical Center in new York.

10 DR. ROBERTS: Good morning. I'm Richard  
11 Roberts. I'm a simple country doctor in Belleville,  
12 Wisconsin, where I'm a professor of family medicine at  
13 the University of Wisconsin.

14 DR. SCHREINER: I'm Mark Schreiner. I'm a  
15 pediatric anesthesiologist at the Children's Hospital  
16 of Philadelphia, and I'm the Medical Director for  
17 Children's Clinical Research Institute.

18 DR. ANTHONY: Good morning. I'm Jim  
19 Anthony. I'm a professor at Johns Hopkins, Bloomberg  
20 School of Public Health and School of Medicine. I  
21 direct a drug dependence epidemiology training program  
22 and am an epidemiologist.

23 DR. SCHUSTER: My name is Charles  
24 Schuster. I'm professor of psychiatry and behavioral  
25 neurosciences and the Director of the Addiction

1 Research Institute at Wayne State University.

2 DR. FOLEY: I'm Kathy Foley. I'm a  
3 neurooncologist at Memorial Sloan Kettering Cancer  
4 Center, and I direct a project on "Death in America"  
5 to improve the care of the dying, and I am an expert  
6 consultant to the WHO for developing initiatives in  
7 drug availability in developing countries for the  
8 treatment of cancer and aids.

9 DR. LEVY: Good morning. My name is Bruce  
10 Levy. In my prior life I was an anesthesiologist and  
11 a pain specialist, but since 1993 I'm a regulator, and  
12 I was Executive Director of the Texas State Board of  
13 Medical Examiners for eight years. In the past year,  
14 until a few months ago, I was a Deputy Executive Vice  
15 President of the Federation of State Medical Boards of  
16 the United States.

17 DR. FRIEDMAN: Good morning. My name is  
18 Debra Friedman. I'm a pediatric oncologist at  
19 Children's Hospital and Regional Medical Center in  
20 Seattle, Washington, and I'm also a member of the End  
21 of Life Task Force for the Children's Oncology Group.

22 ACTING CHAIRMAN KATZ: Thank you very  
23 much, everybody.

24 With that I'd like to reintroduce Dr. Bob  
25 Rappaport, who is Deputy Director of the Division of

1 Anesthetic Critical Care and Addiction and Drug  
2 Products, who will deliver some welcoming and  
3 introductory comments.

4 DR. RAPPAPORT: Dr. Katz -- can you hear  
5 me? -- Dr. Katz, members of the committee, ladies and  
6 gentlemen, I'd like to thank you for joining us here  
7 today to participate in what we hope will be an  
8 educational and enlightening experience for all of us.

9 The cover memo that Dr. McCormick included  
10 in the front of our briefing materials eloquently  
11 addressed the purpose of this two day meeting.  
12 Unfortunately Dr. McCormick is not going to be able to  
13 participate in this meeting due to a medical problem.

14 So I'm going to read from her memo some of  
15 the words with which I think she had hoped to unify  
16 our sense of purpose in this room.

17 This year begins the decade of pain.  
18 After a long struggle to raise pain management to a  
19 new level of importance among medical specialties and  
20 to begin to remove some of the stigmata associated  
21 with pain therapies, particularly the opioids, pain  
22 management will certain gain greater visibility in the  
23 next ten years.

24 Pain management guidelines are  
25 proliferating. Many states have adopted legislation

1 to insure that quality of life and pain relief are  
2 taken into full consideration in the terminally ill  
3 patient.

4 There are many challenges ahead, and we  
5 have a great opportunity to continue this effort in a  
6 studied and responsible way.

7 There are newer and more elegant opioid  
8 formulations and drug delivery systems on the market  
9 and in the development pipeline. These have the  
10 ability to provide opiates to the patient in more  
11 convenient, palatable, and effective ways.

12 The awareness of the importance of good  
13 pain management has made its way into new populations,  
14 such as the pediatric treatment community. In spite  
15 of the difficulties in characterizing pain in the  
16 child and the infant and in conducting adequate  
17 clinical studies to assess proper dosing, the FDA will  
18 invite discussion about the unmet needs in this age  
19 group, the kinds of delivery systems and agents that  
20 might be appropriate at various ages, the risks of  
21 having these medications in the home where small  
22 children may have access, and how these risks should  
23 be communicated and managed.

24 Our hope for this meeting is that you as  
25 the experts in pain management and addiction treatment

1 will provide the agency your views on what is need in  
2 the arena of drug development and risk management. It  
3 is our hope that you will bring the FDA up to date on  
4 your views regarding the unmet needs of the pain  
5 community and assist the FDA in thinking about ways in  
6 which we can carry out our mission responsibly with  
7 solid programs to develop good drugs while managing  
8 the risks associated with them, always keeping in  
9 balance the needs of the public.

10 Thank you.

11 ACTING CHAIRMAN KATZ: Thank you, Dr.  
12 Rappaport.

13 What we'll do now is we'll proceed to the  
14 public speaker portion of our agenda. I do want to go  
15 over a few housekeeping rules with our public speakers  
16 to make sure that everybody gets heard in a reasonable  
17 way.

18 Everybody from the public has three  
19 minutes to speak. There will be a light on, a yellow  
20 light for -- I'm sorry -- a green light for the first  
21 two minutes, and then a yellow light for your third  
22 minute, and then once that third minute is up, there  
23 will be a red light, and I understand also a very  
24 obnoxious buzzer will go off at that point in time,  
25 and then we can even cut off your microphone if you're

1 still speaking beyond that point. Hopefully that  
2 won't be an issue.

3 And then we have even worse punishments  
4 for you after that that I'm not privileged to divulge  
5 at this point in time.

6 (Laughter.)

7 ACTING CHAIRMAN KATZ: So there is a list  
8 of all speakers that everybody should have. So if you  
9 see that you're up next and you're on deck, go sit in  
10 one of those speaker ready chairs, and there are some  
11 folks from the FDA who will help chaperon you to the  
12 right place so that we don't waste a lot of time  
13 blundering back and forth.

14 Now, all of the public speakers, you need  
15 to begin with your disclosure. So if there are any  
16 potential conflicts that you think people ought to be  
17 aware of, please lay those out right up front.  
18 Anybody funded your trip down here, any financial  
19 relationship you have, research relationships, if you  
20 belong to an organization that's funded by anybody in  
21 particular, please lay that all out right up front.

22 If you have no such disclosures, just say,  
23 "I have no disclosures." And if you begin your  
24 discussion without a disclosure statement, I'll  
25 probably rudely interrupt you and remind you that we

1 need to hear that. And we do appreciate that.

2 There have been two cancellations from the  
3 original list that we had. So there will be two folks  
4 who will be able to be popped in from the top of the  
5 waiting list. That will be Dr. Babul today and Dr.  
6 Van Zee tomorrow. You'll be at the end of all of the  
7 regular speakers for today.

8 So with that, why don't we proceed?

9 MR. GIGLIO: Thank you.

10 I'm John Giglio, the Executive Director,  
11 American Pain Foundation.

12 We have received unrestricted grants from  
13 several pharmaceutical companies, some of whom make  
14 opioids, including Purdue Pharma. We also receive  
15 funds from nonprofit foundations and many individuals.

16 Our single largest grant was from an individual who  
17 died in serious pain.

18 In our last fiscal year, we received  
19 approximately 60 percent of our unrestricted funds  
20 from industry. Purdue did not ask us to testify.

21 We are a national nonprofit that supports  
22 people with pain through information, education, and  
23 advocacy, including a Web site and a toll free number.

24 In the last year we've logged several thousand calls  
25 from consumers.

1           We're the largest nonprofit representing  
2 the interests of consumers with pain, and our goal is  
3 to help people with pain get the care they need.

4           We're deeply concerned that in an effort  
5 to stop the abuse of Oxycontin, FDA and DEA will take  
6 steps that will severely hurt consumers who use  
7 opioids for legitimate medical purposes. As you know,  
8 for many people with moderate to severe chronic pain,  
9 opioids are the most effective treatment available and  
10 often the only one.

11           In the last few months, we've received  
12 requests for help from consumers. They've doubled,  
13 mostly as a result of fear from stories generated in  
14 the media. Many people are telling us that they're  
15 worried about being taken off their opioid medication,  
16 including products than Oxycontin.

17           Others have been telling us that doctors  
18 have already done so or reduced their dosage to an  
19 ineffective level. Still others have expressed  
20 concerns about becoming addicted to or even dying from  
21 their prescribed opioid.

22           On several occasions we have had people  
23 who were literally threatening suicide as they were  
24 speaking to us. Unfortunately most of the media  
25 reports fail to convey the other side of the story,



1 that millions of people suffer from serious chronic  
2 pain; yet most go untreated or under treated,  
3 especially the elder, minorities, the poor, and  
4 children.

5 The fact is when prescribed appropriately  
6 by a physician and taken as directed, opioids are  
7 safe, effective, and rarely lead to addiction. They  
8 give relief and allow people to resume their lives.

9 We recognize that opioids are sometimes  
10 diverted by criminals and abused by thrill seekers and  
11 people with addictive disorders. We acknowledge that  
12 regulation is needed to minimize diversion and abuse,  
13 and we agree that those who produce, prescribe, and  
14 dispense opioids must understand these risks and  
15 comply with all laws.

16 Yet even the DEA agrees that we already  
17 have a powerful regulatory scheme to pursue these bad  
18 guys, and we believe that adding new restrictions will  
19 have the unintended effect of killing the legitimate  
20 use of opioids. It will unravel years of slow  
21 progress that has been made in their acceptance by  
22 physicians and the use of patients.

23 We ask that as regulators you should be  
24 tough in combatting diversion and abuse, but you must  
25 do so in a way that doesn't inhibit the legitimate use

1 of opioids.

2 Thank you.

3 ACTING CHAIRMAN KATZ: Thank you very  
4 much. You win an award for not using all of your  
5 three minutes.

6 (Laughter.)

7 ACTING CHAIRMAN KATZ: Next, please.

8 MS. MULLIKIN: Good morning. My name is  
9 Chris Mullikin, and I've been a registered nurse for  
10 the past 38 years.

11 For the past three years I've been  
12 fortunate enough to be an active member of the Purdue  
13 Pharma's National Speakers Bureau, which has afforded  
14 me the opportunity to provide much needed education to  
15 both public and professional groups about the  
16 inadequate and inappropriate pain management.

17 I entered nursing for the same reasons  
18 that most of us do: a desire to help our fellow man  
19 and to advocate for those in need. After many years  
20 in a variety of nursing roles, I find myself working  
21 in an area of medicine where the need for patient  
22 advocacy is greater than almost anywhere else, that  
23 discipline being pain management.

24 About 15 years ago, I found myself in the  
25 uncomfortable position of caring for my mother, who

1 was dying of pancreatic cancer. Dealing with the  
2 death of a loved one is traumatic enough without  
3 feeling helplessness associated with my inability to  
4 manage her rapidly increasing pain.

5 I questioned the logic behind her  
6 physician's concerns about respiratory depression or  
7 even addiction.

8 After Mom died, I decided to switch my  
9 career focus to pain management. As I said, this was  
10 15 years ago, and there was a lot of ignorance and  
11 misunderstanding out there. Education about pain  
12 management and the use of opioid medication was  
13 practically nonexistent.

14 Well, we've come a long way, or have we?  
15 I now manage the Pain Management Center at Shore  
16 Memorial Hospital. It's a small health care system on  
17 Maryland's Eastern Shore. Our program consists of an  
18 in-patient acute pain management team and an out-  
19 patient pain center that treats primarily chronic pain  
20 patients.

21 Patients' statements such as, "You've  
22 given me my life back," and daily hugs are part of our  
23 routine. This patient population is one of the most  
24 labeled and under treated in the history of medicine.

25 Pain is described as the universal human

1 experience. It affects all of us at some point in  
2 time in some way. So why do we try to cover it up,  
3 ignore it, or tell our patients just to live with it?

4 We have the knowledge, the medical  
5 research, and treatment modalities to successfully  
6 manage most pain that our patients can suffer. So  
7 what's stopping us? We have the same fears and  
8 concerns of 15 years ago. They're still with us  
9 today.

10 We are allowing the abuse and the  
11 ignorance of the few to affect the potential health  
12 for the many. The restricted use of opioid medication  
13 in non-cancer pain will do a disservice to the  
14 population already living with many unfounded fears  
15 and restrictions.

16 Please do not through misguided intentions  
17 inhibit the quality of care that we can easily provide  
18 to that population. Remember the biggest form of drug  
19 abuse today is under treatment, and this is a crime  
20 that we can all eradicate.

21 Thank you for this opportunity to be an  
22 advocate for that population that I serve daily.

23 ACTING CHAIRMAN KATZ: Thank you very  
24 much.

25 Next please.

1 MS. REEVES: My name is Lorraine Reeves,  
2 and I'm Executive Director of the Chronic Pain  
3 Advocacy League, and I have no disclosures.

4 I've also been coping with my own pain for  
5 16 years now. So I understand too well what it's like  
6 to try to get treatment and also to be treated with  
7 respect.

8 While no one wants to interfere with the  
9 treatment for those who need it while addressing the  
10 drug problem, outdated attitudes and fears are already  
11 doing that. A clinic that did not want to deal with  
12 the hassles of their patients on opiate therapy dumps  
13 them even though they previously agreed not to.

14 A local pharmacy announced suddenly that  
15 it would no longer fill prescriptions for anyone  
16 unless they are with Hospice. Their longstanding  
17 clients were left scrambling trying to find their  
18 meds.

19 A doctor, while giving a lecture on pain  
20 management, is asked what would she do if one of her  
21 patients lost a prescription. They could be lying.  
22 Would she rewrite it?

23 She said, no, they're adults. They'd have  
24 to tough it out for a month.

25 No one would do that to a patient with

1 heart disease or diabetes.

2 Another woman who has had great success  
3 taking Oxycontin, has a career, has a life because of  
4 the pain relief it affords here, is informed by her  
5 doctor he wants her off of it. There's too much media  
6 coverage.

7 This is just a sampling of what I hear  
8 every day. I get calls from people desperate in need  
9 of pain relief who are struggling to find care and  
10 just want to have a life. My own situation, I take  
11 Oxycontin, and without it I would not be here today.  
12 At the very least I'd be in bed. At the worst, I  
13 don't even want to think about it.

14 Yet following an interview I did a while  
15 back, the reporter informed me that he got a number of  
16 calls from people who said, "I shouldn't take anything  
17 for my pain. God gave me the pain. I should live  
18 with it."

19 Now, this may sound extreme, but attitudes  
20 like this, that pain won't kill you, it's all in your  
21 head, you're weak if you take something, are causing  
22 very serious problems. And now we are caught in the  
23 middle of a failed drug war, which is actually the  
24 reason for the increase in addiction, not the use of  
25 opiate therapy.

1                   We are fighting for our lives. Chronic  
2 pain kills who you are, destroys your self of self  
3 while slowly destroying the body. Don't let us become  
4 casualties in a misdirected war.

5                   ACTING CHAIRMAN KATZ: Thank you very  
6 much.

7                   MS. KOWAL: My name is Nancy Kowal. I'm  
8 immediate past President of the American Society of  
9 Pain Management Nurses, and I stand before you today  
10 as not only a patient advocate because the nursing  
11 component of who I am says that I must be, but also  
12 for my patients that I care for on a daily basis.

13                   I do do lecturing for multiple  
14 pharmaceutical companies, and I also have been  
15 involved in research projects through professional  
16 venues in university settings.

17                   Today I wish to make a statement for my  
18 patients and as a representative for pain management  
19 nursing. To insure that the 21st Century provides a  
20 healthier quality of life regarding pain management  
21 issues, let us stop as professionals and reflect on  
22 the health care issues surrounding inadequate pain  
23 management.

24                   The ASPMN organization has always fully  
25 supported education and clinical expertise in pain

1 management. Grave concerns have surfaced regarding  
2 the recent negative discussion resounding around the  
3 utilization of opioid analgesics in all patient  
4 populations. Many populations are at risk currently  
5 for the non-treatment of pain.

6 If pain management's use of opioids  
7 becomes criminalized in the public's eye, further  
8 barriers to pain treatment will occur. The continued  
9 discussion of abuse potential, diversion, and  
10 addiction, as well as the politicizing of quality pain  
11 management can only prove detrimental to the clinical  
12 outcomes of our patients.

13 As immediate past President of the  
14 American Society of Pain Management Nurses, I stand  
15 for education, for research, for standards, and most  
16 of all for patient advocacy. The organization  
17 encourages and supports the systematic study of pain,  
18 along with evaluation of clinical care and research.

19 Built into this mission is the ultimate  
20 responsibility to speak for pain management as a  
21 profession publicly and in the government forum. If  
22 routine practice does not meet the patient's needs,  
23 then we are responsible to change the practice. The  
24 mission of ASPMN is to promote and provide optimal  
25 care to pain patients, including the management of its



1       sequelae.

2                   This includes the option of opioid  
3 analgesic based on a quality pain assessment, an  
4 appropriate evaluation of outcome, the risk-to-benefit  
5 ratio of providing opioid analgesia to all patients  
6 must be determined with a picture of the patient in  
7 mind.

8                   As a professional organization, quality of  
9 life and patient outcomes are our key concern. We  
10 must advocate for those that are too weak and  
11 debilitated to speak for themselves. Hear the plea of  
12 pain professionals and the patients who surround them  
13 daily. As the issue of opioid analgesic use is  
14 evaluated and discussed --

15                   ACTING CHAIRMAN KATZ: I'm sorry. Could  
16 you close your comments? Your three minutes are  
17 finished.

18                   Sorry.

19                   MS. KOWAL: Yes. Common goals and process  
20 must be established with pain clinicians to provide  
21 the best outcomes for our one focus, the patients.

22                   Thank you.

23                   ACTING CHAIRMAN KATZ: Thank you very  
24 much.

25                   Next speaker, please.

1 MS. CUSIMANO: My name is Cheryll  
2 Cusimano, and I am a pain management nurse. I take  
3 care of chronic nonmalignant pain patients.

4 I am speaking today, a pain nurse  
5 clinician, as an advocate for free choice of long  
6 acting opiates in an equal position amongst all of the  
7 treatments for pain management. We now have drugs  
8 that for both the long term and short term can both  
9 relieve pain and maintain function.

10 Although these drugs are potentially  
11 addicting, this represents, in fact, a very narrow  
12 view of the situation. If you were a diabetic on  
13 insulin as a model for prescribing, you can see how a  
14 patient can be adjusted safely on a very dangerous  
15 drug. Pain prescribing should be no different.

16 Carrying a patient on an opiate medication  
17 is guided by clinical skills and not fear. Just as  
18 with the insulin, we adjust the doses and we document  
19 responses. In the end, everything relies on knowing  
20 and following the patient.

21 I am the nursing specialist for a chronic  
22 pain service which has functioned continually for over  
23 23 years. Our care of patients, including opiates, as  
24 well as other modalities, follow guidelines and goals  
25 based on successful outcome studies. Although we

1 stabilize patients on opiates, many of them are able  
2 to transfer to alternative therapies. When we decide  
3 to use a long-term opiate, we have an up front  
4 agreement with our patients about goals and ending  
5 points.

6 If we encounter opiate abuse by a patient,  
7 then we treat this as a problem in its own right, but  
8 this situation is rare given our guidelines.

9 Since there is proper technology for the  
10 use of opiates, we must not withhold this choice for  
11 this care. The policies and guidelines for a proper  
12 practice may be the same as those for any other  
13 dangerous drug.

14 As Americans committed to patients'  
15 rights, we must not discriminate. Decisions are made  
16 on our skills and our patients' needs without threats  
17 or fears of policies that are too rigid or the abuse  
18 problems of a small but very visible subgroup of  
19 patients.

20 All of us who are clinicians and policy  
21 makers are walking the same tightrope. We all need to  
22 focus on education and guidelines for proper practice.

23 We should not fool ourselves. There will always be  
24 unskilled and misbehaving clinicians, just as there  
25 are abusing and even criminal patients.

1           The policies and disciplinary actions for  
2 violations should follow a parallel but separate  
3 agenda under public law and policy making. At all  
4 costs we must develop regulations to protect and guide  
5 the skilled and the honest efforts of good clinicians  
6 and the proper needs of our patients.

7           Thank you.

8           ACTING CHAIRMAN KATZ: Thank you.

9           Next speaker, please.

10          MS. GARRETT: My name is Rhonda Garrett,  
11 and I'm here representing the Interstitial Cystitis  
12 Association.

13          The ICA is a nonprofit, voluntary health  
14 organization that receives funding in part from the  
15 pharmaceutical industry via educational grants to  
16 support programs and services for IC patients.

17          Interstitial cystitis, known as IC, is a  
18 nonmalignant, chronic inflammatory disease of the  
19 bladder that causes severe pelvic pain, urinary  
20 urgency and frequency, up to every 20 minutes both day  
21 and night. The cause is unknown, and there are no  
22 uniformly effective treatments.

23          A diagnosis of IC is made on the basis of  
24 symptoms and the absence of other definable causes,  
25 such as infection or bladder cancer. At the present

1 time there's no specific diagnostic test for IC.

2 Approximately one million people in the  
3 U.S. suffer from IC, an incidence similar to  
4 Parkinson's disease. Epidemiological studies reveal  
5 that it takes an average five to seven years to get  
6 diagnosed, and sometimes even longer.

7 The quality of life for IC patients has  
8 been shown to be worse than that of patients  
9 undergoing dialysis for end stage renal disease.

10 Economic impact is estimated at 1.7  
11 billion per year.

12 Suicides occur every year because patients  
13 are left in severe pain with nowhere to turn to for  
14 help. Because physicians are often not familiar with  
15 the condition, patients are frequently told that their  
16 symptoms are all in their heads or caused by stress,  
17 thereby minimizing or invalidating the patient and  
18 compounding an already devastating condition.

19 Opioids are an absolute necessity for many  
20 patients with IC, particularly for those who do not  
21 respond to any of the available treatments. For IC  
22 patients it can mean the difference between life and  
23 death.

24 I am an IC patient currently on MS  
25 continin, and it has given me the opportunity to come

1 here today.

2 Opioids, when used appropriately, rarely  
3 cause dependency. Addicts use pain medication to  
4 escape life while people in chronic pain use pain  
5 medications to get their lives back.

6 While preparing for this testimony, we  
7 received the following E-mail from an IC patients.  
8 "I'm having a very hard time finding a urologist that  
9 understands IC. I'm in constant chronic severe pain,  
10 and every doctor I see seems to be afraid to give me  
11 the pain medication I need for fear of dependency  
12 problems. What they don't understand is that my life  
13 can be no worse than it is now. I am unable to leave  
14 the house and am struggling with severe pain,  
15 hopelessness, and depression. Please help me."

16 When we contacted this patient to offer  
17 our help and support, we also asked her permission to  
18 present her poignant statement at this meeting today,  
19 and this was her response.

20 "You have my permission if it is at all  
21 necessary to use my name. I'm not ashamed of this  
22 disease. It is the medical profession that should be  
23 ashamed of themselves."

24 Physicians confronted with patients in  
25 severe pain due to IC often ask themselves whether

1 this patient should receive treatment for their pain.

2 Perhaps the question should be why should this person  
3 be left in pain.

4 Thank you.

5 ACTING CHAIRMAN KATZ: Thank you.

6 Next, please.

7 DR. SWERDLOW: Good morning. I represent  
8 the Sickle Cell Disease Advisory Committee of the  
9 National Heart, Lung and Blood Institute at the NIH.  
10 This committee includes ten outside experts plus  
11 governmental representatives to provide policy advice  
12 to the NHLBI.

13 Sickle cell disease is characterized by  
14 intermittent, unpredictable episodes of severe  
15 disabling pain beginning early in childhood. Many  
16 patients develop chronic pain. Those with very mild  
17 disease may have efficacy from non-opioids, but the  
18 vast majority of patients require opioid therapy to  
19 control their acute and chronic pain.

20 The pain of sickle cell may well be  
21 different from other pain states in that it is quite  
22 severe, unpredictably intermittent, involves both  
23 acute and chronic pain, and begins early in childhood,  
24 possibly altering pain sensations and coping skills.

25 Patient are routinely accused of being

1 addicted to opioids. Substance abuse behaviors may  
2 just be desperate attempts to get badly needed  
3 opioids. Many patients require extraordinary doses  
4 for pain control, which is a long considered addiction  
5 by many physicians. The average dose of long acting  
6 opioid upon discharge from our hospital for a pain  
7 episode is one gram of morphine equivalent per 24  
8 hours.

9           The more tolerant patients require doses  
10 over ten grams of morphine equivalent for 24 hours.  
11 Lack of stronger dosage forms can be a major  
12 inconvenience when patients have to literally take ten  
13 to 50 tablets at a time for a single dose of pain  
14 medication.

15           Those who treat sickle cell patients and  
16 the patients themselves are in a constant battle with  
17 physicians in emergency departments in hospitals, not  
18 to mention pharmacists and insurers, to provide  
19 adequate amounts of pain medication.

20           Current barriers are excessive and often  
21 discourage or prevent adequate treatment.

22           Children over seven can generally learn to  
23 take tablets and use patient controlled analgesia  
24 device as well. The greatest practical difficulty for  
25 pediatric patients is finding plain opioid



1 preparations to avoid acetaminophen or NSAID toxicity.

2 Acetaminophen toxicity is the single  
3 greatest substance abuse risk to the sickle cell  
4 population. Desperate patients will consume large  
5 amounts of combination medications if that is all that  
6 is prescribed.

7 Additional pure opioid preparations and  
8 dosage strengths would be most helpful in treatment of  
9 this disease.

10 Despite the high dosage requirements,  
11 opioid addiction is highly unusual in the sickle cell  
12 population, possibly because of the great degree and  
13 frequency of pain. We see far more opioid abuse by  
14 proxy with a parent or housemate taking the patient's  
15 medications, but such abuses are usually easily  
16 detected with accurate pill counts and frequent  
17 patient visits and review of patient diaries.

18 Diversion is rare in the adult sickle cell  
19 population because the patients place such high  
20 importance on the medication for themselves.

21 ACTING CHAIRMAN KATZ: Thank you, Dr.  
22 Swerdlow. Did you have any disclosures to make?

23 DR. SWERDLOW: The committee has no  
24 disclosures. I have been on the Purdue Frederick  
25 Speakers Bureau, but not within the last year.

1                   ACTING CHAIRMAN KATZ:     Thank you very  
2 much.

3                   Let me just remind the subsequent speakers  
4 to begin with your disclosures, if you don't mind.

5                   Next, please.

6                   DR. HANDEL:    Good morning.    It's an honor  
7 to be here on behalf of the Pain and Palliative Care  
8 Service at the NIH.  I am speaking in the place of Ann  
9 Berger, who is the department chair, and I have the  
10 disclosure that I have in the past been, but am not  
11 currently on the Speakers Bureau for Purdue Frederick  
12 and Janssen Pharmaceuticals.

13                   In speaking for our service, I see the  
14 founder of our service, Mitchell Max, is here and  
15 present, and I wanted to make a couple of comments  
16 about suffering.

17                   My belief is that our service is and has  
18 been founded at the NIH specifically to deal with  
19 suffering of patients on protocols in our institution,  
20 and we have found that there are many sources of  
21 suffering, one of which is fear.

22                   Our patients commonly find themselves in  
23 situations where they have significantly uncomfortable  
24 conditions, are under intense therapy, and then find  
25 themselves in situations where they're going back to

1 their communities to continue trying to live in  
2 between their courses of therapy.

3 Our patients find that while they may have  
4 significant dedication towards comfort and increased  
5 quality of life while they're in-patients, they  
6 oftentimes find a very different situation upon  
7 leaving the institution.

8 We find that this is, because of a number  
9 of different factors, one of which is fear, one of  
10 which is lack of education in the community both in  
11 professionals and in the lay community.

12 There are fears about safety and there are  
13 fears about actually accessing the appropriate  
14 medications. We have found that there is a pattern  
15 where patients will be calling back on a regular basis  
16 asking if there's a way that we could either liaison  
17 with their physicians or their community or actually  
18 at time talks to their family.

19 Our hope in presenting to you is that  
20 there is a way that you can balance this very  
21 difficult job that you have, the job of assuring  
22 safety for patients who are on these significant  
23 medications that are necessary and are important for  
24 their quality of life with the opportunity to give  
25 them appropriate access to these medications.

1           And I believe that only in dealing with  
2 both of those sides of this balance will we stop  
3 dealing with the tail of the comment, the effects of  
4 abuse, and start getting ahead of the comment to maybe  
5 redirect the course towards better care.

6           Finally, I believe that -- and I know I  
7 speak as many of you know about sustained opioids  
8 simply being tools, and that tools can be used or  
9 misused. We have two populations using them: those  
10 that absolutely need them and have to have access and  
11 need to be managed expertly -- we need to assure that  
12 -- and those who misuse. I think we need to address  
13 those populations very separately.

14           Thank you.

15           ACTING CHAIRMAN KATZ: Thank you very  
16 much.

17           The next speaker, please.

18           MR. BROATCH: Good morning. My name is  
19 Jim Broatch, and I'm Executive Director of the Reflex  
20 Sympathetic Dystrophy Syndrome Association of America.

21           We're dedicated to promoting greater awareness of an  
22 encouraging research into reflex sympathetic  
23 dystrophy, or RSD, also known as complex regional pain  
24 syndrome.

25           About ten to 15 percent of our budget is

1 provided by unrestricted grants from pharmaceutical  
2 medical device companies.

3 RSD is a neurological syndrome  
4 characterized by intense burning pain, pathological  
5 changes in skin and bone, sweating, tissue swelling,  
6 and extreme sensitivity to touch. It generally  
7 results from some kind of trauma, and the consequence  
8 pain is much greater than the original injury.

9 Some patients report that a breeze created  
10 by a ceiling fan causes excruciating pain. A Johns  
11 Hopkins spokesperson remarked about RSD severity thus,  
12 "If hell were a clinical medical condition, it might  
13 look like RSD."

14 Anyone could get it. Most people have it  
15 between 25 and 55. It's more frequently seen in women  
16 than men. The incidence is unknown, but it's  
17 estimated between 1.2 million and six million  
18 individuals in the U.S. have it. It could literally  
19 rip your life apart, destroying your career, social  
20 network, finances, marriage, and family.

21 I'm here today to present this committee  
22 with hundreds of personal communications from our  
23 members and others in the chronic pain community who  
24 are incredibly fearful that the FDA will restrict the  
25 availability of opioids or withdraw or restrict

1 Oxycontin in the market. It's not a farfetched  
2 notion.

3 Already in a number of states Medicaid has  
4 restricted patients' access to Oxycontin.  
5 Increasingly we are receiving reports that patients  
6 are switching chronic pain patients from Oxycontin to  
7 often less effective pain killers because of their  
8 fear of increased regulatory scrutiny.

9 To help chronic pain sufferers in the  
10 medical community manage the use of opioid  
11 painkillers, we have published the opioid contract on  
12 our Web site. The testimonies that I'm presenting to  
13 the committee are from concerned patients, patients  
14 with RSD, others suffering with chronic pain. They  
15 represent a wide range of educational, socioeconomic  
16 levels, including disabled police officers, registered  
17 nurse, truckers, stay at home moms, the formerly rich,  
18 and the poor.

19 Their message to the committee and to the  
20 FDA is simple. Using opioids for chronic pain has  
21 improved the quality of their lives, although most are  
22 not working and subsist on some kind of disability  
23 related compensation. Opioids, especially Oxycontin,  
24 have allowed them to be more productive members of our  
25 society.

1 Donna Isaacs, a six year RSD sufferer,  
2 summarized the current situation well when she wrote,  
3 "I take Oxycontin every day for my pain. I'm find it  
4 more and more difficult to get my medicine because of  
5 all the media coverage. I've been to at least four  
6 drug stores that don't carry my medication because of  
7 the media coverage, and I panic every day I go to get  
8 my medicine praying that I'll be able on that day to  
9 get it filled. I need my medication every day just to  
10 get out of bed."

11 Thank you.

12 And I'm going to present this to the  
13 committee, and I hope you'll have time.

14 ACTING CHAIRMAN KATZ: Thank you, sir.

15 Next, please.

16 MS. ANDERSON: Good morning. My name is  
17 Kathleen Anderson. I'm the Director of Governmental  
18 Affairs for the American society for RSD/CRPS. I have  
19 no disclosures.

20 The recent bad press regarding Oxycontin  
21 and the future of opioids is of great concern to the  
22 members of the American Society for RFD and the  
23 community of patients and caregivers we represent.  
24 Reflex sympathetic dystrophy has one of the highest  
25 chronic pain ratings as indicated on the McGill pain

1 index. Placing additional restrictions on opioid  
2 analgesics will prolong the suffering of RSD patients.

3 Presently pain management centers are  
4 limited. Treatments revolve around medications,  
5 physical therapy, psychological therapy, and invasive  
6 surgical procedures. It takes an average of two years  
7 to be diagnosed with reflex sympathetic dystrophy, and  
8 once diagnosed, most patients must see an average of  
9 4.5 physicians before their pain is treated.

10 How much longer will it take these  
11 patients to get relief if tighter restrictions are  
12 enforced? Will they live that long?

13 Suicide is one of the leading causes of  
14 death in RSD patients in the United States today.  
15 Until more facilities are established and HMOs cover  
16 their costs, patients will continue to use primary  
17 care doctors and a variety of specialists to obtain  
18 medications for pain relief.

19 Knowing these facts, we cannot limit the  
20 dispensing of opioids.

21 I am the parent of an 18 year old who has  
22 been suffering with reflex sympathetic dystrophy for  
23 the past three years. Do I worry about the effects of  
24 her medications? Yes, of course I do. But my worries  
25 about the effects of these drugs are secondary to the



1 torture she endures with this illness. The pain is  
2 debilitating and relentless. It is inhumane.

3 Last week I watched with a broken heart as  
4 my dear friend buried her 20 year old daughter,  
5 Britney McMurty of Glastonbury, Connecticut. Her  
6 spirit was much stronger than her body after being  
7 ravaged by the pain of the RSD for the past four  
8 years.

9 Is that the same fate I have to look  
10 forward to?

11 The federal government needs to  
12 appropriate fund to establish multi-disciplinary pain  
13 clinics to insure that RSD and other chronic pain  
14 patients get timely and proper medical treatments. It  
15 would eventually allow a majority of opioids to be  
16 prescribed from centralized facilities by the pain  
17 experts. These facilities could house training  
18 seminars to educate the medical community.

19 I ask this committee to rethink the idea  
20 of enforcing additional restrictions on the dispensing  
21 of opioid analgesics. People in pain are a vulnerable  
22 population. We need to pursue education, awareness,  
23 and research in the area of chronic pain. Until pain  
24 is better understood, we need to place the burden on  
25 those responsible for opioid abuse, not the victims

1 themselves.

2 Thank you.

3 (Applause.)

4 ACTING CHAIRMAN KATZ: Thank you very much  
5 for your comments.

6 Next please.

7 MS. McLAUGHLIN: Hi. My name is Kathy  
8 McLaughlin from Hospice in Northern Virginia. I'm  
9 representing the Hospice and Palliative Nurses  
10 Association Board of Directors today.

11 The HPNA has received small amounts of  
12 pharmaceutical monies to assist in publication costs  
13 for clinical publication tools. That's the only thing  
14 I can disclose at this point.

15 Our membership represents about 4,000  
16 professional nurses across the nation, and I'm a  
17 registered nurse, a member of the Hospice and  
18 Palliative Nurses Association, and I'm a Board  
19 certified Hospice palliative nurse.

20 I'm presently practicing as the nurse case  
21 manager of children and adult patients and their  
22 families in their own homes through the Hospital of  
23 Northern Virginia.

24 Every day thousands of patients with  
25 unrelieved pain are referred to Hospice or palliative

1 care programs across the nation. Opiate analgesics  
2 are a critical element in the appropriate management  
3 of pain, especially cancer pain.

4 Time released opiate analgesics available  
5 in multiple strengths have been the mainstay of most  
6 of our programs. They're prescribed in increasing  
7 amounts because of the simple reason that they're cost  
8 effective and they work.

9 Unfortunately, though they work well for  
10 adults, the present available formulations are not  
11 always appropriate for children and dying patients.

12 At present Hospice care providers of at  
13 least two groups are confronted with the task of  
14 tailoring the adult preparations of the market for  
15 diverse size patients. Calculating initial dosages  
16 are based upon the patient's height, weight, age, and  
17 medical status. The doses are then titrated to  
18 patient response and by frequent medical and nursing  
19 assessment.

20 The concentrated oral solutions are the  
21 easiest to administer due to the small volume needed.

22 Extreme care in calculating dosage and instruction of  
23 the caregivers is paramount for safe delivery. These  
24 can be administered via feeding tube if present, but  
25 most of our patients don't have that.

1                   Unfortunately, these preparations are  
2 relatively short acting in duration and require  
3 frequent dosing, a burden to patients' families and  
4 caregivers, especially in a home setting.

5                   The long acting tablets are not often the  
6 answer because they can't be crushed, and as we've  
7 seen in the news, it's not a good thing.

8                   The transdermal patch in the long acting,  
9 microencapsulated forms are often too high a dosage  
10 for the children in our population, as well as the  
11 very old and some of the dying.

12                   Intravenous, subcutaneous, and rectal  
13 routes are also other choices for administration, but  
14 need to be used judiciously since they are invasive  
15 and often anxiety provoking for many of the children  
16 and their families.

17                   All of the above-mentioned preparations  
18 have helped maintain many children comfortably in  
19 their own homes with the support of the Hospice  
20 interdisciplinary team. By my own practice, it would  
21 seem that a long acting opiate analgesic solution or  
22 suspension would be extremely beneficial not just for  
23 infants and children in a population, but for all  
24 those who have difficulty swallowing tablets.

25                   And also the HPNA Board of Directors urges

1 very careful consideration surrounding any action that  
2 might restrict the availability of opiate analgesics  
3 and any further action to limit the availability of  
4 opiate analgesics either by decreasing production or  
5 require any sort of preauthorization for the  
6 medication would undoubtedly serve to inhibit affected  
7 pain management. The result would be unnecessary and  
8 unrelieved pain and suffering.

9 Thank you very much.

10 ACTING CHAIRMAN KATZ: Thank you.

11 Next, please.

12 DR. LEVY: Good morning. My name is  
13 Michael Levy. I'm the Director of the Pain Management  
14 Center of the Fox Chase Cancer Center in Philadelphia.

15 I'm here on my own accord and support as a pain  
16 expert from an NCI designated comprehensive cancer  
17 center.

18 In the past 20 years, I've received  
19 research support and been on the Speakers Bureau of  
20 ANESTA, Janssen, Knoll, Purdue Pharma, Ortho-Biotech,  
21 and Centicor.

22 We are in the midst of two epidemics: the  
23 epidemic of unrelieved chronic pain and the epidemic  
24 of Oxycontin abuse. I speak today on behalf of the  
25 patients with chronic pain and the health care

1 providers that treat them.

2 The cure for the current Oxycontin abuse  
3 epidemic must not increase the suffering of legitimate  
4 patients with chronic pain. Ready access to Oxycontin  
5 is essential to our ability to provide safe and  
6 effective comfort and function to thousands of  
7 patients throughout this country.

8 Despite heroic efforts over the past 20  
9 years by individuals and organizations to teach  
10 clinicians how to properly assess and treat chronic  
11 pain, surveys still show that half of the chronic pain  
12 patients in this country are under medicated. Last  
13 year the Joint Commission on Accreditation of Health  
14 Care Organizations enacted new standards for pain  
15 control to try to correct these system-wide  
16 inadequacies. Just when physicians are advocating or  
17 being pressured to provide better pain management, one  
18 of their best tools is being threatened.

19 Over the past six years Oxycontin has set  
20 a new standard for the relief of chronic cancer and  
21 non-cancer pain. Oxycontin has been shown to be a  
22 safe and effective analgesic in the control of pain  
23 caused by cancer, osteoarthritis, post hepatic  
24 neuralgia, major surgery, and degenerative spine  
25 disease.

1           Oxycontin has the characteristics of an  
2 ideal opioid analgesic, short half-life, long duration  
3 of action, predictable pharmacokinetics, absence of  
4 clinically active metabolites, rapid onset of action,  
5 easy titration, no preset ceiling dose, and minimal  
6 adverse effects.

7           The escalating abuse of Oxycontin is a  
8 double tragedy. The first tragedy is the fact that  
9 individuals with a disease of addiction have found a  
10 new substance to abuse. Oxycontin abuse has led to  
11 violent crimes by abusers, pushers, and prescription  
12 diversion by deviant physicians and pharmacists.

13           The popularity of Oxycontin abuse has also  
14 resulted in the inadvertent deaths of inexperienced  
15 drug abusers.

16           The second tragedy of Oxycontin abuse is  
17 the fact that legitimate pain patients are having  
18 increasing difficulty utilizing their appropriate  
19 prescribed Oxycontin. Patients are afraid of taking  
20 their Oxycontin, afraid of becoming victims of violent  
21 crime, afraid of being ridiculed by their friends,  
22 family, and uninformed health care professionals, and  
23 afraid of not being able to obtain adequate  
24 prescriptions.

25           In conclusion, the interventions aimed at

1 reducing the public problem of Oxycontin must not  
2 interfere with the safe and effective use of the  
3 patient problem of unrelieved chronic pain. Substance  
4 abusers need to be kept from obtaining their  
5 Oxycontin and need comprehensive mental health care  
6 services to deal with their addiction.

7 Legitimate pain patients need ready access  
8 to Oxycontin. Legislators, regulators, and law  
9 enforcement agents and health care professionals must  
10 work together to heal our society and reduce the  
11 suffering of our citizens.

12 Thank you.

13 ACTING CHAIRMAN KATZ: Thank you, Dr.  
14 Levy.

15 Next, please.

16 DR. WILSON: Good morning. I'm Peter  
17 Wilson, professor of anesthesiology and pain medicine  
18 at Mayo Clinic, Rochester, Minnesota. I represent the  
19 American Society of Anesthesiologists, some 35,000  
20 physician anesthesiologists.

21 I've been working in the anesthesia  
22 subspecialty field of pain management for more than 20  
23 years, and although I've published animal and clinical  
24 studies in opiates, I haven't received pharmaceutical  
25 industry support for this. I have not received



1 pharmaceutical industry support.

2           It's quite clear that opioids are  
3 essential for the control of pain during surgery,  
4 other acute pain states, cancer, AIDS, other terminal  
5 illnesses and for some chronic pain states.

6           Long acting opioids provide a more stable  
7 blood level orally than short acting opioids and are,  
8 therefore, more effective for pain management.  
9 Methadone is the only clinically available oral opioid  
10 with an intrinsically long half-life, but it's  
11 extremely variable and quite tricky to use.

12           Other opioids have to be formulated at a  
13 sustained release preparations.

14           Misuse or aberrant behavior and diversion  
15 of appropriately prescribed opioids by legitimate  
16 chronic pain patients is rare. The use of patient  
17 contracts and/or random blood or urine screening for  
18 substances has not been shown to improve compliance  
19 or reduce diversion.

20           Inappropriate patient selection,  
21 inappropriate prescribing usually reflects a lack of  
22 training and experience of the prescribers rather than  
23 malfeasance. Aberrant patient behaviors with respect  
24 to opioids, including doctor shopping, really should  
25 be monitored by the DEA and state medical and pharmacy

1 boards, not by the FDA.

2 The DEA and state medical board should  
3 also monitor and enforce legislation and regulations  
4 against aberrant prescriber behavior, including  
5 unethical, inappropriate, and illegal activities, pill  
6 mills, Internet, and absentee prescribers.

7 Aberrant prescriber behavior leading to  
8 diversion is a function of the prescriber, not the  
9 medication, and again, the DEA and state medical and  
10 pharmacy board should address this, not the FDA, and  
11 we do not believe that any non-physician  
12 representative should be in the position of making  
13 clinical judgments.

14 Restriction of a legitimate supply of  
15 opioids will lead to rationing, which will adversely  
16 affect provision of pain relief to all pain patients,  
17 acute, chronic, terminal, the young, the old the  
18 disabled and the disadvantaged.

19 Thank you.

20 ACTING CHAIRMAN KATZ: Thank you, Dr.  
21 Wilson.

22 Next, please.

23 DR. RAMIREZ: My name is Jeff Ramirez.  
24 I'm representing the Veterans Health Administration.  
25 I have no personal disclosures, though my agency does

1 conduct medical research that is funded by the  
2 pharmaceutical industry, and we do receive educational  
3 grants.

4 Many veterans, like 20 to 30 percent of  
5 civilians, annually suffer from pain. Further, these  
6 veterans had devastating injuries related to the  
7 service to their country that may have resulted in  
8 chronic pain. In many cases their suffering has not  
9 lessened with time, but rather made worse by the  
10 accompanying degeneration occurring with age.

11 In some cases, surgical interventions may  
12 provide some relief. However, in most patients with  
13 chronic pain related to chronic disease or  
14 musculoskeletal injuries, there is no simple  
15 procedural cure. In these patients, the use of  
16 chronic opioids has provided a means of controlling  
17 their pain and increasing their ability to participate  
18 in society.

19 The VA has been in the forefront of  
20 recognizing the treatment of the significant health  
21 care problem of pain. We have implemented pain as the  
22 fifth vital sign throughout all of our medical  
23 facilities, in recognition of its importance and to  
24 emphasize assessment and treatment.

25 In addition, there are large scale efforts

1 to develop provider and patient educational programs,  
2 treatment guidelines, and promotion of research  
3 activities and training programs related to the  
4 understanding and treatment of pain that has been  
5 undertaken throughout the VA. Within these efforts  
6 are programs specifically to address opiate  
7 prescriptions and management.

8 Proactive, aggressive management of both  
9 acute and chronic pain is universally recognized as an  
10 essential component of health care. However,  
11 substantial evidence indicates that neither acute nor  
12 chronic pain is adequately treated within most United  
13 States health care systems.

14 This has been recognized as a new standard  
15 of care regarding the assessment and treatment of pain  
16 as we have implemented it throughout the VA. When  
17 patients report with pain, we teach our physicians and  
18 other health care providers to believe their statement  
19 of pain.

20 When encountered by patients in pain, we  
21 would all like to provide them relief if possible. In  
22 many cases the most important treatment is opiate  
23 therapy.

24 When patients are prescribed opiates for  
25 pain control, there's no question that there is a

1 potential for diversion or misuse of the medication.  
2 These problems, which are infrequent, can be minimized  
3 by the prescribing physician for following things like  
4 having careful discussions with a patient on the use  
5 of opioids before the first prescription is written,  
6 and entering into opiate contracts with patients and  
7 maintaining appropriate records.

8 The VA is responding to concerns about  
9 diversion by developing guidelines in this area and  
10 utilizing many of our electronic medical records and  
11 our electronic prescription records in order to check  
12 for patients who do try to get opiate medications from  
13 various medications.

14 But to summarize, the currently available,  
15 long acting opioid pain medications have improved pain  
16 control for patients needing these medications. The  
17 misuse of these medications by a small number of  
18 individuals does not negate the very positive impact  
19 that these sustained delivery systems have on patients  
20 with chronic pain from a variety of conditions. The  
21 removal of these medication or excessive regulation  
22 will have a negative impact on the willingness of  
23 health care practitioners to provide pain treatment  
24 throughout the VA and throughout the United States.

25 Thank you.

1                   ACTING CHAIRMAN KATZ: Thank you.

2                   Next, please.

3                   DR. MERRICK: Good morning. My name is  
4 Randy Merrick. I am a Board certified family  
5 physician from a rural county in Virginia. I'm here  
6 speaking on behalf of myself and my patients. I am  
7 self-funded with no disclosures.

8                   I appreciate being invited to comment  
9 today as a practicing family physician who has treated  
10 Hospice and non-cancer chronic pain patients for over  
11 ten years.

12                   The use of opioids to treat these patients  
13 has been a cornerstone with other complementary  
14 treatments if available.

15                   Once visited by an intimidating group of  
16 State Police and Board of Health profession officers,  
17 I took advantage of my situation and became a member  
18 of a task force for the Medical Society for the State  
19 of Virginia and helped co-author guidelines for the  
20 State of Virginia for the treatment of chronic non-  
21 cancer pain.

22                   These guidelines later became one of the  
23 templates for the National Federation of Medical  
24 Board's guidelines published. I have long held the  
25 belief that the family physician who deals with all of

1 the bio-psychosocial aspects of our patients, children  
2 and adults, are one of the best trained physicians to  
3 deal with our patients in chronic pain.

4 After the attempts of our colleagues in  
5 the specialties, such as neurosurgery and orthopedics,  
6 failed, eventually the buck stops here with me, the  
7 family physician. Testimony after testimony from  
8 those I treat who have been returned to quality of  
9 life faced with chronic pain proved to me that my  
10 treatment of their pain is as legitimate as my  
11 treatment for their diabetes, hypertension,  
12 depression, et cetera.

13 As the buck stops here, I also realized  
14 that I have an obligation and a responsibility to  
15 insure that my patients adhere to my patient-doctor  
16 contract that allows me to use opioids to treat the  
17 chronic pain.

18 When I hear of even the slightest  
19 insinuation by any source that one of my patients may  
20 be diverting their opioid medication or exhibiting  
21 addictive behavior, I take action by informing my  
22 local authorities of possible diversion or requiring  
23 my patients to be evaluated for substance abuse and  
24 treated for addiction.

25 We have an obligation as family physicians

1 to assume that what our patients tell us is true  
2 regarding their pain. There lies the essence of the  
3 doctor-patient relationship. When nothing else is  
4 left to be offered for treatment of their chronic  
5 pain, we as family physicians are obligated to use  
6 whatever we need, whatever message, whatever  
7 medications that we need to treat these patients, to  
8 allow them to return to a quality of life.

9 As a coroner for two counties, I have  
10 recently investigated over the last two years three  
11 suicides because patients were unable to gain  
12 treatment for the chronic pain. We certainly have a  
13 job to do.

14 The American Academy of Family Physicians  
15 and my state chapter are aggressively educating all of  
16 our physicians in the treatment of chronic pain.

17 Thank you.

18 ACTING CHAIRMAN KATZ: Thank you, sir.

19 What I'd like to do now since all of the  
20 speakers have come up is just make sure that some of  
21 the folks on the list for this morning haven't lost  
22 the opportunity to go, and what I'll do is read  
23 through the names very quickly of people who are on  
24 the list for this morning, and if you're here, please  
25 come up and take your turn. If I mispronounce your



1 name, I apologize.

2 Dr. Manchikanti, Skip Baker, Cynthia  
3 Simonson, Barbara Ann, Stephen Plotnick, Aaron Gilson,  
4 Ronald Kurstin, Myron Yaster, F. Michael Gloth,  
5 Michael Kaplan. Any of those folks here?

6 Since we do have a little bit of time,  
7 we'll proceed on to the list of folks who requested an  
8 opportunity to speak and were put on a waiting list.  
9 Let me read through your names quickly, too, so you  
10 can prepare yourselves if you're still interested in  
11 speaking to come up and sit in the speaker ready  
12 chairs.

13 Dr. Babul, you'll go first.

14 Dr. Van Zee, if you're here, you'll be  
15 next.

16 And the other folks in order are Mary  
17 Kelly Sohm, Laurie Torres, Cyn Hoard, Katt Morris, Jay  
18 Steffler, Lynda Langhorne, Mary Winfield, Robert Root,  
19 Lonna Gutierrez, and Dr. Dahlquist.

20 I'm not sure we'll have time for  
21 everybody, but if you're around, please prepare  
22 yourself to come to the speaker ready position.

23 Dr. Babul, please.

24 DR. BABUL: Good morning. My name is  
25 Najib Babul. I'm with TheraQuest Biosciences in East

1 Norriton, Pennsylvania. I've been involved with  
2 analgesic drug development for over a decade. I'm  
3 here on my own accord due to my scientific interest in  
4 opioid drug development and my interest in public  
5 policy issues surrounding patient access to opioids.

6 I do consult with a number of  
7 pharmaceutical companies in analgesic drug  
8 development, some of whom market or are developing  
9 opioid analgesics.

10 I would like to speak to the committee on  
11 the issue of a core development program for analgesic  
12 drug development, which is the subject, I believe, of  
13 your morning deliberations.

14 I think the committee and the division  
15 need to consider a number of key questions in the  
16 development of analgesic agents, and I'd like to  
17 identify at least some of the questions that may help  
18 the committee with its discussions.

19 The first issue really is whether if a  
20 drug is pharmacological effective in acute pain and in  
21 chronic pain and there are no formulation related  
22 barriers to its developments for both indications,  
23 whether the agency should consider approving the drug  
24 just for acute pain or just for chronic pain or  
25 whether it should be a requirement that both

1 indications be studied simultaneously.

2 The other issue is whether acute pain data  
3 in any way support the efficacy of a drug in chronic  
4 pain. How many chronic pain disorders or models, as  
5 we like to call them, need to be evaluated? What are  
6 some of the suitable models that we are to consider?  
7 Is it reasonable to study mixed models given the  
8 clinicians often see a very heterogeneous group of  
9 patients?

10 What is an appropriate duration for a  
11 clinical trial in chronic pain? And should cancer  
12 pain be in the mix of studies in chronic pain or  
13 should that be a separate indication?

14 And if it is a separate indication, is it  
15 likely to become orphaned, given that cancer pain  
16 studies, as a number of us know, are challenging?

17 Now, I would like to in the interest of  
18 time restrict my comments just to new chemical  
19 entities that are the subject of a 505(b)(1) approval  
20 and would like to suggest that drugs that are in  
21 process right now at the FDA perhaps require different  
22 consideration.

23 I would suggest that it's important for us  
24 to do a proof of concept study to very carefully  
25 identify a no effect dose or a minimum effective dose

1 for any new chemical entity that's approved as an  
2 opiate analgesic; that we need to carefully  
3 characterize the dose response characteristics of the  
4 drug, and that we need to establish very carefully  
5 prospectively the dosing frequency of such drugs.

6 In addition, I would suggest that at least  
7 one and possibly replicate evidence should be  
8 necessary for the approval of drugs involving at least  
9 a 12 week duration of efficacy so that we can clearly  
10 assess not just efficacy, but the durability of  
11 response which is a question that clinicians have.

12 And finally, that if cancer pain is part  
13 of the mix, then we ought to have at least one  
14 adequate and well controlled study in cancer pain  
15 involving a minimum two week duration.

16 One additional point is that for centrally  
17 acting drugs, as opioids are, clinicians need guidance  
18 on acute and chronic effects on psychomotor and  
19 cognitive skills, and this is something that perhaps  
20 the committee and the agency ought to look at for  
21 approval of such drugs.

22 Thank you.

23 ACTING CHAIRMAN KATZ: Thank you, Dr.  
24 Babul.

25 Next, please. Dr. Van Zee, are you here?

1 Please begin with any disclosures.

2 DR. VAN ZEE: Yeah, my name is Dr. Art Van  
3 Zee. I have no disclosures.

4 I've practiced general internal medicine  
5 in a small Appalachian coal mining town, St. Charles,  
6 Virginia, for the last 25 years. My region of the  
7 country, as you probably well know, was one of the  
8 earliest areas affected by Oxycontin abuse and  
9 addiction.

10 It would be very difficult to overstate  
11 the degree of devastation this has brought to central  
12 Appalachia and now widespread in many regions of the  
13 country. There have been at least three major factors  
14 which have played a major role in this epidemic of  
15 Oxycontin abuse.

16 First, there's been an obvious problem  
17 with misprescribing and over prescribing of this drug.

18 Second, this epidemic has been a vicious  
19 indicator of the extent of prescription drug abuse in  
20 our society.

21 Thirdly, and the one which might be  
22 closest to the FDA here is that of the promotion and  
23 marketing of Oxycontin by Purdue Pharma, which I think  
24 has played a major role in the problem.

25 Purdue Pharma in the most extensive opioid

1 promotion in the history of the industry has used  
2 sophisticated marketing data to determine which  
3 physicians in the country prescribe opioids most  
4 liberally or least discriminately, if you will, and  
5 couple this data with lucrative financial incentives  
6 to their sales representatives.

7 One sales representative in Florida made  
8 \$100,000 over and above their \$50,000 of salary in the  
9 year 2000 based on the high Oxycontin sales in her  
10 territory.

11 Purdue has used thousands of company  
12 sponsored talks and seminars that have been well  
13 documented in the medical literature to influence  
14 physician prescribing and practices. Purdue has  
15 lobbied the primary care physician to a great extent,  
16 and primary care physicians as a general rule have the  
17 least amount of skills in pain management and  
18 addiction issues, at least suboptimum.

19 Purdue continued free Oxycontin promotion  
20 pills up until July 2000 in a campaign to promote it.

21 The company has had an extensive and sophisticated  
22 non-branded promotion of opioids in general in which  
23 the benefits of opioids for chronic, nonmalignant pain  
24 have been much overstated and the risk trivialized.  
25 And all of this has contributed to the commercial

1 success for Purdue at the expense of the public  
2 health.

3 This now is the opportunity for the FDA  
4 simply that the current regulations governing the way  
5 the pharmaceutical industry can market and promote  
6 opioids or any controlled abusable drug has not served  
7 well the public health. Not to radically change those  
8 type of regulations at this point would give sanction  
9 and safe harbor to the drug companies for the  
10 continuation of such business practices, which do not  
11 serve any of us well.

12 Thank you.

13 ACTING CHAIRMAN KATZ: Thank you, Dr. Van  
14 Zee.

15 To my surprise we have time left in this  
16 open session, and so what I would like to do now is in  
17 the few minutes that we have if there is anybody in  
18 the audience among us who would like to take three  
19 minutes to share an thoughts, then people come forward  
20 and have a seat in the speaker ready chair, and we'll  
21 take you in turn as time allows.

22 Please begin by saying who you are and  
23 what you do and if you have any disclosures to make.  
24 Go ahead.

25 MR. STEFFLER: Hi. My name is Jay

1 Steffler. I've no disclosures to make.

2 I've suffered from RSD since 1992. I  
3 spent eight years with my doctor, doctors, trying  
4 every modality known to medicine to try to cure me of  
5 the RSD, and from all of the sympathetic lumbar blocks  
6 that they gave me, I developed myofacial syndrome and  
7 arthritis.

8 After finishing all and trying every  
9 modality, the doctors would give me small amounts of  
10 opioid medication when, in fact, it was not enough,  
11 and too little actually is worse than taking the  
12 proper amount.

13 And the only way that a chronic pain  
14 patient can abuse their medication is to give it to  
15 someone to whom it's not prescribed. The only other  
16 way is if the doctor that they are seeing is not  
17 giving them enough medication. then they are forced  
18 to go see several doctors which ends up in mixed  
19 medication which can kill the patient.

20 When the patient with RSD sees one  
21 physician who is regulating their medication, they're  
22 entire life returns to them. I feel like I have come  
23 out of a coma. I haven't had to use a cane for two  
24 years. I was bedridden for those eight years. I am  
25 now going back to work, working through OVR. Before



1 that I was, as I said, completely bedridden.

2 And now the only problems I have now is  
3 that I'm a slave to the insurance company. I am only  
4 allowed to -- because they will only dispense so many  
5 days of my medication at a time, I'm only allowed to  
6 leave my house for ten days at a time maximum.

7 So the opioid therapy -- when they took me  
8 off all of the experimental medications that they  
9 tried me on, I came out of a coma. I literally do not  
10 remember what went on during those eight years from  
11 the Soma (phonetic) and all of the different families  
12 of antidepressants, not for depression, but for the  
13 side effects. I couldn't remember what happened  
14 during those eight years, and I literally feel like  
15 I've got a second chance at life. I feel like I've  
16 just been born, and it's a whole new world to me.

17 In the past two years since I've started  
18 the opioid therapy, I've been getting my body back  
19 into shape. Atrophies muscles over eight years do not  
20 come back after a couple of months. It takes quite a  
21 while.

22 So after the two years -- it's been two  
23 years, and I am now working. I'm going back to  
24 college, get my second degree, and I'm also teaching,  
25 and it has given me a whole new life.

1           And in fact, even the pharmacists are  
2 shocked when they see the medication that I take.  
3 They say themselves, "How are you standing here?"  
4 when, in fact, before I couldn't do anything and I  
5 couldn't stand there when I was on the other  
6 medications that didn't work.

7           Suddenly my mind came back. I'm able to  
8 think again. Movies that I saw during that eight year  
9 period I don't remember, I have no recollection of.  
10 Now my mind is back. My desire for life and  
11 everything, my who life has come back to me.

12           ACTING CHAIRMAN KATZ: I'm sorry. I'm  
13 going to have to ask you to bring your comments to a  
14 close.

15           MR. STEFFLER: The problems with the  
16 Oxycontin, I think the DEA needs to focus more on the  
17 people who are healthy who abuse the medication  
18 instead of focusing on the chronic pain patients and  
19 doctors who are for people who need it.

20           ACTING CHAIRMAN KATZ: Thank you very  
21 much.

22           MR. STEFFLER: Thank you.

23           ACTING CHAIRMAN KATZ: Next speaker,  
24 please.

25           DR. DAHLQUIST: I'm Glenda Dahlquist. I'm

1 a chronic pain management physician from Dayton Ohio.

2 I'm a member of the American Academy of Pain  
3 Medicine, and I'm also the Chairperson for the local  
4 pain society in Dayton, Ohio, and we are currently in  
5 the process of gaining state chaptership from the  
6 national organization, the AAPM.

7 I am a speaker on the Board for Purdue  
8 Pharma and Janssen. I have no other disclosures, no  
9 research grants.

10 And I'd like to make one comment. I'm not  
11 on the Speaker Bureau for Purdue. I mean, I don't use  
12 Oxycontin because I'm a speaker. I'm on the Speakers  
13 Bureau because I believe that Oxycontin has benefitted  
14 so many of my patients, and they finally asked me to  
15 speak on their bureau after I had prescribed it for  
16 four years, seen the benefits that it's given to my  
17 patients when used appropriately.

18 One other comment I'd like to make is with  
19 our local pain society. With the recent media  
20 coverage and fears of license or sanctions, even  
21 chronic pain physicians in our area have decreased  
22 their prescribing of Oxycontin, and I think this is  
23 very sad because we as chronic pain physicians, we're  
24 the top of the ladder when it comes to dealing with  
25 chronic pain patients. The family doctors may not

1 feel comfortable prescribing high doses of opioids.  
2 The internal medicine specialists may not feel  
3 comfortable delivering high doses of opioids to  
4 patients who have high drug tolerances and high needs  
5 in order to function appropriately.

6 We as chronic pain physicians are the ones  
7 who deal with these most severe patients, and now  
8 we're seeing an epidemic of chronic pain physicians  
9 who are afraid they're going to lose their licenses,  
10 and nobody in the community will treat these patients.

11 I'd like to point out real quickly, too, I  
12 haven't heard anybody speak about not the detriments  
13 just relating to the humane part of treating pain  
14 management, but what about the medical problems? When  
15 a patient is in pain, their stress hormones increase.

16 This can lead to worsening other chronic diseases  
17 such as hypertension, heart disease, diabetes. They  
18 have to increase their insulin doses if the blood  
19 sugar goes up too high because they're under too much  
20 stress.

21 Suicide rates. I had a patient who  
22 finally did commit suicide because she had left my  
23 practice and gone to another pain physician who  
24 wouldn't treat her appropriately, and we heard just  
25 from another coroner that he has done an autopsy on

1 patients who have committed suicide because of that.

2 These patients, if they're not given the  
3 appropriate pain medicine, will turn to over-the-  
4 counter medications, nonsteroidal anti-inflammatory  
5 agents, handfuls of nonsteroidal anti-inflammatory  
6 agents causing GI bleeding and things like that.

7 We really need to be able to treat these  
8 patients appropriately before we cause worsening  
9 medical problems --

10 ACTING CHAIRMAN KATZ: I'm sorry. I'm  
11 going to have to --

12 DR. DAHLQUIST: -- people on the welfare  
13 system --

14 ACTING CHAIRMAN KATZ: -- ask you to bring  
15 it to a close.

16 DR. DAHLQUIST: -- and people not being  
17 able to be treated appropriately because of the  
18 inadequacies of the medical profession.

19 ACTING CHAIRMAN KATZ: Thank you very  
20 much.

21 Why don't we then call the open session to  
22 a close? Let me thank all the folks who took time out  
23 of their schedules and made the effort to make it here  
24 to share their thoughts with us, in particular, the  
25 folks with chronic pain themselves. Thanks very much

1 for coming.

2 It seems like there are one or two folks  
3 on the Advisory Committee or guests that have drifted  
4 in since we did our morning introduction. So perhaps  
5 they could take a moment to introduce themselves and  
6 let us know what your names are and who you are.

7 Dr. Connolly, would you like to begin?

8 DR. CONNOLLY: I'm Maria Connolly.

9 ACTING CHAIRMAN KATZ: You have to press  
10 the red button on your mic.

11 DR. CONNOLLY: I'm Maria Connolly, and I'm  
12 a consumer representative on this panel. And I flew  
13 in from Chicago with a big snow storm, but in San  
14 Diego yesterday afternoon it was pretty nice.

15 ACTING CHAIRMAN KATZ: Thanks.

16 Dr. Schechter.

17 DR. SCHECHTER: Hi. I'm Neil Schechter.  
18 I'm a pediatrician, and I run the pain relief program  
19 at the Connecticut Children's Hospital, and I'm  
20 interested in pediatric pain specifically.

21 ACTING CHAIRMAN KATZ: Thanks.

22 Was there anybody else that drifted in  
23 that I didn't notice?

24 (No response.)

25 ACTING CHAIRMAN KATZ: All right. Then

1 what we'll do now is I'll reintroduced Dr. Rappaport  
2 from the FDA, who will give some introductory comments  
3 for our morning session, which will be on opiate  
4 analgesic development and use.

5 DR. RAPPAPORT: This morning's session is  
6 on opiate analgesic development and use. The  
7 framework for the agency decisions includes the  
8 regulatory restrictions and requirements defined by  
9 the Food, Drug, and Cosmetic Act.

10 This allows not only for decisions to be  
11 based on scientific integrity. It also provides a  
12 level playing field for the commercial sponsors of the  
13 new drug applications, thereby preventing arbitrary  
14 and capricious decisions by the FDA.

15 One of the final products of our labor is  
16 the product labeling. The label may contain only  
17 information supported by data submitted in the new  
18 drug application. However, this data may lead to  
19 difficult choices on how the label is written.

20 For instance, for new, modified release  
21 opiate analgesics studied in only low back pain  
22 patients, we may result in an indication limiting the  
23 drug's use to the low back pain patient population.

24 In your discussions this morning, keep in  
25 mind the difficulties we at the agency face daily when

1 we try to mesh the available data with the regulatory  
2 framework in order to provide product labeling that  
3 clearly states the findings of the clinical studies in  
4 a manner which will be most beneficial to prescribers  
5 and patients.

6 We hope that the following presentations  
7 will provide you with a foundation upon which you can  
8 build your discussion of the points we have raised in  
9 the background package for this meeting.

10 Thank you.

11 ACTING CHAIRMAN KATZ: Thank you, Dr.  
12 Rappaport.

13 Dr. Levy will now get up and give us a  
14 discussion on pain treatment guidelines.

15 Dr. Levy.

16 DR. LEVY: Good morning, everybody. We've  
17 been sitting here for a while. Let's take two minutes  
18 to stand up and relax for a second before you start  
19 listening to lectures.

20 Don't go outside. Just relax.

21 (Pause in proceeding.s)

22 DR. LEVY: Okay. Now you can sit down.  
23 We don't want anybody getting chronic pain here just  
24 from sitting and having dependent limbs.

25 This morning I will try to speak to you on



1 three specific issues. One, just to describe my  
2 background from an historical perspective very briefly  
3 because I may be probably the person who has treated  
4 pain here the longest, or one of them, over the years.

5 Two, I'd then like to tell you about the  
6 Texas perspective and how that led to the first  
7 guidelines in the country, and then the federation  
8 guidelines, which were a result of those in some other  
9 states.

10 Twenty-six years ago I was attending in  
11 the pain clinic at the University of Washington, which  
12 was probably the first multi-disciplinary pain clinic  
13 in the United States. That was the days before any of  
14 these initial organizations ever existed.

15 We created the International Association  
16 for the Study of Pain then, and that was an innovative  
17 creation. None of this had occurred before.

18 I tell you this for one reason: because  
19 when I started treating pain, opioids were an  
20 anathema. None of us were to use opioids in any way,  
21 shape or form, except to put people on pain cocktails  
22 which were a combination of methadone and sedatives to  
23 get them off narcotics. And that was the whole  
24 purpose, and it was that way for many years until the  
25 writings of Dr. Portenoy and others that led us to

1 believe that these drugs had a basis for treatment in  
2 chronic pain, end of life care, et cetera.

3 So my mindset had to go full circle to get  
4 from where I started to where we came in '93, and now,  
5 like anything else, we may have gone a little too far,  
6 and we have to come back.

7 I tell you that because that is the  
8 history of what you do when you look at different  
9 aspects of things.

10 Now, in Texas, we had an intractable pain  
11 statute in 1989. It did nothing. It did not increase  
12 the use of drugs or help patients get treatment, and  
13 the reason being is that doctors were still afraid  
14 that if they prescribed, they would be disciplined by  
15 the Board.

16 Now, I was recruited by then the  
17 governor's office, et cetera, and I became the  
18 Executive Director of the Texas State Board of Medical  
19 Examiners, which regulates the practice of medicine in  
20 the State of Texas.

21 At that point there were really no states  
22 with guidelines or ways of prescribing or advice to  
23 physicians. In fact, the word was that if you  
24 prescribed, you were going to be disciplined.

25 Now, the reason was we were given a count

1 from the Department of Public Safety on every narcotic  
2 written, and I would get a readout every month of all  
3 the narcotics written or opioids and sedatives written  
4 by physicians in that state.

5 And prior to 1993, investigations would be  
6 open just on prescribing habits. When I became the  
7 Director, that stopped. What we did was bring all the  
8 pain directors together in that state. We brought the  
9 professors. We brought the public groups, et cetera,  
10 and we got together and decided how pain should be  
11 practiced.

12 And that's what led to our guidelines.  
13 And we had some definitions that other people then  
14 came to accept. Nontherapeutic prescribing was a  
15 medical use or purpose that is not legitimate. That  
16 goes back to the law of the 19-teens.

17 A prescribing pharmaceuticals are  
18 practicing consistent with public health and welfare,  
19 is prescribing pharmaceuticals and practicing medicine  
20 for legitimate medical purpose in the usual course of  
21 professional practice.

22 What is intractable pain? A pain state in  
23 which the cause of the pain cannot be removed or  
24 otherwise treated and which in the generally accepted  
25 course of medical practice no relief or cure of the

1 cause of the pain is possible or none has been found  
2 after reasonable efforts.

3 You're all familiar with this, but in 1994  
4 when we wrote these, no state had ever taken this  
5 position before. We basically that if you're going to  
6 prescribe narcotics, counting pills is not the issue.

7 The issue is: are you going to practice good  
8 medicine?

9 And how to determine whether you practice  
10 good medicine is whether you take a documented medical  
11 history; you do a proper physical examination; you do  
12 and have recognized medical indications for the use of  
13 those drugs; you have a written treatment plan; you  
14 discuss the risk and benefits of the medications with  
15 the patients; you do periodic review at reasonable  
16 interviews; you keep complete and accurate records;  
17 and you closely monitor the patients with any kind of  
18 history of substance abuse.

19 If you do this, you're not going to get in  
20 trouble. If you don't, you were, and it became very  
21 obvious which physicians were having a problem in the  
22 State of Texas because they didn't practice this way.

23 You would go and look at their medical records, and  
24 they would write, "Low back pain. Dispense 100" --  
25 whatever the drug was, and that was it.

1 Well, you don't have to be a rocket  
2 scientist to figure out this is not good medical  
3 practice, and those physicians we disciplined. But  
4 the ones who followed the guidelines were not.

5 What are the red flags? Issuing  
6 prescriptions for large amounts of controlled  
7 substances or in excess of prescribed dosage, but  
8 knowing certain physicians' practices and how they  
9 practice, this became less of an issue as time went  
10 on. But failing to keep accurate records, failing to  
11 evaluate or monitor their patients, prescribing to  
12 drug dependent persons without adequate consultation,  
13 evaluation, or monitoring, these were red flags that  
14 enabled us to discipline physicians that were not  
15 practicing good medicine.

16 When you look at these numbers, those are  
17 the number of disciplinary actions against physicians  
18 in the United States from 1993 till 2000 that we've  
19 tabulated. The numbers, they're a little rising, but  
20 they're pretty much the same in that proportion.

21 What you can see thought is that  
22 controlled substances violations have stayed down  
23 pretty low since the time that guidelines have come  
24 into play. Prior to this, there were a large number  
25 of disciplinary actions solely on the writing of

1       narcotics.

2                   The other thing is contrary to what you  
3 heard today, there are not a lot of suspensions or  
4 revocations of licenses because of controlled  
5 substances writing. They are not happening. They are  
6 only happening when there is improper prescribing and  
7 improper management of the patient.

8                   They are old wives' tales. They are fear  
9 tactics, but they are not occurring.

10                   Now, what's the challenge? The challenge  
11 is to protect the medical uses of controlled  
12 substances and simultaneously preventing drug  
13 diversion and abuse. That's the challenge we all have  
14 here.

15                   But in the same time we have to insure  
16 public access to effective pain control. We have to  
17 weigh both. If you overregulate, the public doesn't  
18 get adequate care. If you under regulate, you don't  
19 have the proper vehicle for proper medication and  
20 proper treatment. This is what the boards must do.

21                   The present status is that only eight  
22 states have no policy. In 1993, only two states had  
23 policy, Texas and California. So this has been a  
24 major jump in the last seven or eight years.

25                   Those that have guidelines and statements

1 amount to the majority of the states. You'll see that  
2 the numbers overlap. It's not that I can't count.  
3 It's that certain states have more than just a  
4 guideline. They may have a statute, et cetera, and  
5 they have chosen to either create regulations or  
6 create statements or guidelines or a combination.

7           The real critical factor here is that only  
8 eight states have not taken action on this. At that  
9 point, after the Texas guidelines came out, the  
10 Federation of State Medical Boards then felt that this  
11 was an issue and brought together a committee on which  
12 I served, as well as, I believe, another seven or  
13 eight members, and we created national guidelines that  
14 the federation would publish. We had public hearings,  
15 and then were recognized by all the states and used as  
16 model guidelines.

17           That was funded by the Robert Wood Johnson  
18 Foundation.

19           We developed those model guidelines for  
20 the use by state medical boards and other health care  
21 regulatory agencies to promote the appropriate  
22 prescribing of controlled substances in the management  
23 of chronic malignant and nonmalignant pain.

24           Our objectives were to establish  
25 consistent standards for managing chronic pain based

1 on current research data. And we wanted to promote a  
2 nonlegislative approach, a regulatory approach that  
3 the state boards could advocate to address the use of  
4 controlled substances in the management of chronic  
5 pain.

6 Why was that important? Because we wanted  
7 a mechanism in which those people that were regulating  
8 the practice of medicine -- and most boards are made  
9 up of usually about two thirds physicians and one  
10 third public members, who had been in this kind of  
11 practice or could get the information from that kind  
12 of practice without making it a statute, but still  
13 have the regulatory aspects.

14 Why is a regulation so much important  
15 versus a statute? Statutes are difficult to change.  
16 Regulations are not. If the research had changed or  
17 there was some other issue that had come up, a board  
18 could change their regulations in a few months. They  
19 could tweak them, but you can't do that with a  
20 statute.

21 So the recommendation was to keep this on  
22 a regulatory aspect, and that has worked well in most  
23 states.

24 So what do these model guidelines really  
25 advocate? I'm not going to read all of them to you.



1 I'm going to basically tell you this. When it's all  
2 said and done, they dome down to if you do a physical  
3 examination of the patient, treatment plan, informed  
4 consent of the patient, periodic review of drug  
5 treatment, consultation and referral if necessary,  
6 accurate, timely, and complete medical records, you  
7 will not get in trouble with the medical board.

8 You will if you're writing prescriptions  
9 and people are hanging out of your office around the  
10 block.

11 The grant was extended through last year.

12 We created workshops for board investigators. We  
13 developed position papers. We communicated with all  
14 of the member boards. We created the position, the  
15 model guidelines, and we targeted those eight states  
16 without policy to work on those.

17 The next phase will be to improve the  
18 quality of patient care through appropriate and  
19 effective pain control and build relationships to  
20 increase physician knowledge of current standards for  
21 appropriate pain treatment. And we must insist and  
22 inform the license population of state specific  
23 regulations regarding physician responsibilities and  
24 treating pain.

25 Thank you very much.

1                   ACTING CHAIRMAN KATZ:    Thank you, Dr.  
2                   Levy, for a very lucid presentation.

3                   Dr. Levy, why don't you stay there for one  
4                   minute?

5                   Does anybody sitting around this U-shaped  
6                   table have any questions for Dr. Levy about his  
7                   presentation?

8                   DR. LEVY:    Yes, sir.

9                   DR. HOLMBOE:  Hi.  Eric Holmboe from Yale  
10                  University.

11                  Just out of curiosity, as we know, there  
12                  are a proliferation of guidelines for a myriad of  
13                  conditions, and one of the biggest problems is to get  
14                  physicians to use them.  Simply putting out a  
15                  guidelines has not been shown to be effective in  
16                  changing the quality of care.

17                  I'd be curious if you could just spend a  
18                  moment or two describing how you disseminated these  
19                  guidelines to your physicians and whether or not that  
20                  was effective.

21                  DR. LEVY:    One, I will tell you that  
22                  guidelines that are practice guidelines must be  
23                  differentiated between regulatory guidelines.  For the  
24                  first time, the medical board took a position in  
25                  saying in this condition, we require this to be the

1 good practice of medicine.

2 We didn't do that for diabetes of  
3 hypertension or heart disease, et cetera. We did do  
4 it for chronic and malignant pain and acute pain in  
5 this management. So that was a unique difference.

6 If the physician's license is on the line  
7 for these kind of guidelines, they listen a lot more  
8 than if it's recommended by their society, et cetera.

9 The second issue is I went out and  
10 promoted them. I taught in my position as a director.

11 I went to all of the medical schools in the state,  
12 and I spoke to each of the senior classes, each one of  
13 the eight years, and I promoted these guidelines and  
14 spoke with all of the students, but at the same time I  
15 spoke with the residents as well.

16 The second issue was I went to the pain  
17 societies in our state and spoke to them.

18 The third issue was they were promulgated  
19 in our news report which came out boldly printed in  
20 the Texas letter.

21 The fourth issue was that the Texas  
22 Medical Association was very helpful in this regard,  
23 and they published them as well, as well as the Texas  
24 Osteopathic Medical Association in their bulletins.  
25 And so this became an issue.

1           We also had certain reporters around the  
2 state who wrote articles in our newspapers promoting  
3 this and speaking about this change on the Texas  
4 board.

5           I will tell you that after this time, it  
6 became much easier to discipline those physicians who  
7 were off the site. But the ones that practiced good  
8 medicine found that they were hassled less and were  
9 able to practice with less difficulty from  
10 intervention by the state medical board.

11           And my belief, after running a medical  
12 board, is that 98, 99 percent of the physicians are  
13 there to practice good medicine and do a good job, and  
14 your outliers are one or two percent. And when you  
15 can set up a regimen where you can really define who  
16 those outliers are, it's a lot easier to get at, and  
17 they don't make up a large percentage.

18           DR. MAX: I want to congratulate you on a  
19 very wise, beautiful document in our handout on your  
20 policies, but let me ask. Now a big issue is doctors  
21 who might be sloppy or naive or inexperienced getting  
22 deceived by patients who can say they have symptoms.  
23 Do you have a position on something like -- and  
24 doctors don't know the patients are going to multiple  
25 pharmacies.

1                   Does your federation of boards have a  
2 position on, say, electronic data collection from  
3 pharmacies to inform physicians when multiple doctors  
4 are prescribing?

5                   DR. LEVY: Well, you have asked a multi-  
6 phasic question. The first one is what do you do  
7 about those physicians who are naive.

8                   You give them one bite of the apple. If  
9 they have those problems, if they're sloppy in record  
10 keeping, you bring them in for a little talk in front  
11 of your board. And if they are deficient, then they  
12 shouldn't be because that may be a symptom of their  
13 entire practice, and it might just not be with pain,  
14 but with every other disease they treat. And if  
15 that's their practice, they need some remedial help.

16                   If they get it, fine. If that physician  
17 would come before us again for the same reason, that  
18 physician would be disciplined. So that's the first  
19 issue.

20                   The second issue, the federation has not  
21 taken a position on the issue that you're describing  
22 as of yet.

23                   DR. MAX: Do you have an opinion on that?

24                   DR. LEVY: Ask your question again. I  
25 want to be specific in what you want me to have an

1 opinion on. Ask me my opinion.

2 DR. MAX: Specifically, I think more  
3 interestingly we heard the doctor from Virginia, from  
4 the Epicenter of the Oxycontin.

5 DR. LEVY: Right.

6 DR. MAX: You're sounding like there  
7 really isn't much of a problem if you leave it to the  
8 state boards. So what do you have to say to that  
9 physician from Virginia?

10 DR. LEVY: I say that the regulations are  
11 written already for the states. It is up to the state  
12 boards to do their jobs and evaluate these physicians,  
13 and if those physicians are allowing diversion,  
14 allowing doctor shopping; if they're practicing  
15 irresponsibly, then those physicians must be  
16 disciplined by the Board.

17 And then you get into other issues of  
18 whether there should be criminal prosecution of those  
19 physicians if they knowingly or intentionally did  
20 something that was absolutely harmful to a patient.

21 Your second issue is whether you should  
22 collect information on the Internet if you're doctor  
23 shopping. Well, you have a responsibility. We have  
24 not taken a position on the collection of information  
25 at this point.

1           But if you're going to manage these  
2 patients, you have a responsibility to manage them in  
3 the best care, and one of the aspects of informed  
4 consent is to tell them you are going to take care of  
5 them and not to doctor shop.

6           DR. MAX: But how do you know if patients  
7 are doctor shopping? Can you expect a doctor to call  
8 all of the pharmacies?

9           DR. LEVY: No, you cannot.

10          ACTING CHAIRMAN KATZ: Dr. Foley.

11          DR. FOLEY: Thank you very much for your  
12 presentation.

13                 What has been the role from the  
14 federation's perspective of really educating doctors  
15 about pain management? Are there any guidelines  
16 related to that and any responsibilities?

17                 It is the responsibility of the boards --  
18 I've recently been talking with the board in  
19 Florida -- for them to try to make these kinds of  
20 guidelines available, but they've stated that they  
21 don't have funds to send them out every member in the  
22 state, and many states don't, in fact, provide these  
23 guidelines to every physician at the time that they're  
24 licensed.

25                 So what, in fact, is the role of the

1 boards in setting these guidelines to also play a role  
2 in educating physicians about proper pain management?

3 DR. LEVY: Well, that was part of our  
4 second phase. We believe that it is the  
5 responsibility of the Boards to educate their  
6 physicians, and when I was the Director in Texas,  
7 every physician to get a license had to pass a  
8 jurisprudence exam and have a visit with me. And part  
9 of that visit was to understand pain guidelines, et  
10 cetera.

11 So we presented them to all physicians as  
12 well as publishing them in our newsletter  
13 periodically, and it doesn't cost any money to publish  
14 them as part of your articles in your newsletters,  
15 which --

16 DR. FOLEY: Yeah, I think I'm confusing  
17 it. It's teaching about pain as opposed to teaching  
18 them the guidelines.

19 DR. LEVY: That's a unique issue that we  
20 all have seen. There has not been any increased  
21 teaching of pain in the 25, 26 years that I've been  
22 involved in pain work, and I think you have the same  
23 experience, Dr. Foley. We haven't seen this great  
24 increase in training physicians in the management of  
25 pain.



1                   ACTING CHAIRMAN KATZ: Dr. Smiley.

2                   DR. SMILEY: Yeah, I just want to maybe  
3 have you elaborate or respond to the following  
4 question. You state that the anecdotes that we've  
5 been hearing today from patients and from  
6 professionals about sort of a chilling effect of  
7 medical board actions or regulation in general on  
8 physician prescribing for patients in pain,  
9 prescribing of opioids, pharmacies not stocking drugs,  
10 those kind of problems that we hear that you kind of  
11 say are just anecdotes.

12                   And you know, we all know -- at least I do  
13 -- that there are certainly physicians I deal with who  
14 have problems, who hesitate to prescribe opioids when  
15 they're indicated. There are patients who can't get  
16 drugs at various pharmacies. Is it your position that  
17 this is doctors not knowing what they're supposed to  
18 do? Is it the fault of the medical board, or is it,  
19 in fact, sort of a nationwide anti-drug hysteria and  
20 it's just easier to ignore pain and not deal with it?

21                   And doesn't the medical board, I guess,  
22 have a responsibility to be promoting good medical  
23 care and not just being many DEAs?

24                   DR. LEVY: Well, one, I believe that  
25 medical boards do promote good medical care by

1 creating these guidelines.

2 Two, if you look at most of the medical  
3 practice acts though, they don't specifically tell you  
4 that you should create guidelines for every treatment  
5 of every type of disease.

6 Third, I would never question anecdotes.  
7 These are experiences people had. My opinion is that  
8 they are anecdotes though; that if you look at the  
9 regulation, that physicians can practice this way.  
10 They can practice good medical care in chronic pain  
11 management, and if they are not practicing good  
12 medical care, one could be an excuse by that physician  
13 that they don't want to or, two, they could be  
14 uneducated.

15 Now, it is the responsibility of the  
16 medical boards to educate those physicians on  
17 guidelines. It's not the responsibility of medical  
18 boards to educate them on practice.

19 Yes, sir.

20 ACTING CHAIRMAN KATZ: Dr. Ashburn.

21 DR. ASHBURN: Thank you very much.

22 I have a couple quick questions. On two  
23 of your slides you talked about the number of  
24 violations that have occurred. I wanted to refer back  
25 to those --

1 DR. LEVY: Okay.

2 DR. ASHBURN: -- for a minute because if I  
3 understood you correctly, you felt that these were  
4 evidence that the perception that physicians were at  
5 risk for regulatory scrutiny that might cause them to  
6 lose their license or undergo other issues was  
7 actually not valid.

8 So on the first slide entitled "Controlled  
9 Substances Violations by Prescribing Physicians" --

10 DR. LEVY: Yeah, I'm trying to get back  
11 there.

12 DR. ASHBURN: One more.

13 DR. LEVY: That one?

14 DR. ASHBURN: That one.

15 DR. LEVY: Yeah.

16 DR. ASHBURN: Is this -- I wanted to make  
17 sure I understood. Now, this slide is based on  
18 national data.

19 DR. LEVY: This is the federation data of  
20 all the boards collected from the year 2000.

21 DR. ASHBURN: Okay. So this is not  
22 violation of the Controlled Substances Act.

23 DR. LEVY: This is all violation --

24 DR. ASHBURN: This is violation of state  
25 medical board -- these are lists of state medical

1 board actions.

2 DR. LEVY: These are disciplinary actions  
3 against --

4 DR. ASHBURN: Okay.

5 DR. LEVY: -- physicians in all the states  
6 of the Union for these years.

7 DR. ASHBURN: Okay. So one thing that  
8 should be pointed out is that physicians can get into  
9 trouble with regard to prescribing of opioids in two  
10 ways essentially, maybe more, but we worry about  
11 actions against our medical license, which this is  
12 represented by, as well as scrutiny for violation of  
13 the Controlled Substances Act, which one would be  
14 subject to investigation by Department of Justice and  
15 the DEA.

16 DR. LEVY: Well, let me try to explain  
17 this then. When you look at these total actions, the  
18 majority of those are for quality of care cases, and  
19 others may be sexual abuse of patients or --

20 DR. ASHBURN: Sure, I understand.

21 DR. LEVY: -- et cetera. What I'm trying  
22 to point out is of those 4,600 disciplinary actions  
23 only 319 were directly related to controlled  
24 substances.

25 DR. ASHBURN: No, and I appreciate that,

1 but as somebody who has to listen to other physicians  
2 who express a little bit of the paranoia, I just want  
3 to also point out that 319 disciplinary actions  
4 against physicians is one action a business day. I  
5 mean, that's not an insignificant number of nationwide  
6 areas with regard to physicians being concerned about  
7 actions.

8 On your second slide on actions'  
9 percentage by total, the numbers didn't add up, and I  
10 was wondering whether or not these were, again,  
11 national numbers on state medical board actions,  
12 revocations, suspensions, probations, and  
13 miscellaneous. These usually are about 100, give or  
14 take. The actions under controlled substances usually  
15 are about 300 a year, give or take.

16 These are percentages?

17 DR. LEVY: Yeah, these are percentages.

18 DR. ASHBURN: All right. I just don't  
19 know how to read well.

20 DR. LEVY: Can we go back to your last  
21 comment though?

22 DR. ASHBURN: Sure.

23 DR. LEVY: You said 319 were significant  
24 or 300 are significant. When you add that up, that's  
25 approximately of 700,000 physicians in this country.

1 You believe that is a significant number of physicians  
2 who are disciplined? Six maybe per state?

3 DR. ASHBURN: No, it doesn't surprise me.  
4 I'm just -- you know, I know anecdotally, again, of  
5 only one or two cases where physicians have been  
6 disciplined for under prescribing of opioids. So I'm  
7 just presenting this scenario.

8 Now, you know, frequently in policy making  
9 and frequently in physician practices, the decisions  
10 are based on their perception of reality as well as  
11 what reality is, and if I'm an odds maker and I'm  
12 looking at the risk of being sanctioned for doing  
13 nothing, which is extremely low, or the risk of  
14 scrutiny by doing something, then I'm going to tend to  
15 shy away particularly with all of the publicity about  
16 risk with opioids, tend to shy away from prescribing  
17 opioids for my patients based on concern of regulatory  
18 scrutiny whether it exists or not.

19 And I think I was just -- I wanted to make  
20 that observation.

21 DR. LEVY: Since I've seen most of these  
22 actions and have read the orders, I would say that  
23 these people are what I would describe as true  
24 outliers Okay? By and large, and for the physician  
25 who's practicing good medicine are not going to fall

1 in this 319 in any way, shape or form.

2 So to equate that this should concern  
3 physicians is incorrect. That it does you may be  
4 correct, that the perception is there.

5 What I'm trying to point out is that the  
6 reality is not there.

7 DR. ASHBURN: Okay. Thank you.

8 ACTING CHAIRMAN KATZ: Dr. Carlisle.

9 DR. CARLISLE: Do you have any idea of  
10 what percentage of that 319 that you actually found  
11 violations -- the question is: what is the n for  
12 that? How many investigations produced this 319?

13 DR. LEVY: That I can't tell you because  
14 this is an aggregate data of all the states, and we  
15 don't collect investigation numbers. Each state does,  
16 but the federation doesn't. It only collects final  
17 actions against physicians.

18 DR. CARLISLE: Do you have any sense of  
19 that number?

20 DR. LEVY: I can only speak from Texas,  
21 and I would open approximately 1,300 to 1,500  
22 investigations a year on physicians and would  
23 discipline anywhere from on the average of about 150  
24 to 170 physicians a year. Of that, I would say that  
25 no higher than fifth in propensity of disciplinary

1 actions were controlled substance violation. Over  
2 half were just quality of care cases.

3 So you're really looking at much smaller  
4 numbers here, and especially with the educational  
5 approach that we took in Texas to align all of the  
6 physicians of what was accepted practice. I think  
7 that helped a great deal.

8 ACTING CHAIRMAN KATZ: Let's take one more  
9 question. Dr. Parris.

10 DR. PARRIS: Yes, Bill. You said you  
11 spoke to the senior class that year. Did you speak to  
12 the directors of curricula of that particular medical  
13 school?

14 Because, after all, that's where the  
15 problem really starts.

16 DR. LEVY: Each year we would meet with  
17 the deans and some of the faculty of the medical  
18 school. I would do that every year. We also talked  
19 about curriculum.

20 Now, medical school curriculum is very  
21 difficult to get into somebody else's turf, and our  
22 issue was not just pain management, but ethical and  
23 moral behavior, and that was a greater issue for me  
24 and proper behavior physicians. That had been  
25 incorporated in some of the faculty.



1 Dr. McLeskey may still remember when he  
2 was still teaching at Scott & White, of my visits  
3 there and speaking with the residents and the  
4 students.

5 So pain management was only a small part.

6 It was more ethical and moral and judicial behavior  
7 that we expected of the students and physicians, and  
8 that was incorporated in the faculty of all eight  
9 medical schools in Texas.

10 ACTING CHAIRMAN KATZ: I'm going to take  
11 the last question, Dr. Levy, if I may. The slide that  
12 you have up there right now portrays the total number  
13 of sanctions by state medical boards, and just to  
14 follow up on Dr. Ashburn's point, any idea of what the  
15 total number would be of sanctions by DEA, law  
16 enforcement, other agencies on physician --

17 DR. LEVY: That I can't answer. We'd have  
18 to get someone from that field.

19 ACTING CHAIRMAN KATZ: Well, thank you  
20 very much for your presentation.

21 DR. LEVY: Thank you.

22 ACTING CHAIRMAN KATZ: I appreciate it.

23 DR. LEVY: Thank you for listening.

24 ACTING CHAIRMAN KATZ: What we'll do next  
25 is go to Dr. Russell Portenoy from Beth Israel

1 Hospital in New York to give a presentation on opioid  
2 therapy of chronic pain involving trends.

3 DR. PORTENOY: Good morning. It's a great  
4 pleasure to be here.

5 I've been privileged to be working in pain  
6 management and opioid pharmacology as an investigator  
7 and educator and a clinician for a long time, and when  
8 Dr. McCormick called me up and asked me to address the  
9 panel, I was very honored to do that, but I sort of  
10 struggled with what I could talk about.

11 After a conversation, I pointed out to her  
12 that I was old. She agreed --

13 (Laughter.)

14 DR. PORTENOY: -- and jumped at the chance  
15 for me to provide sort of a historical perspective, to  
16 try to contextualize the meetings for today and  
17 tomorrow., and I really plan to do that imminently.

18 (Pause in proceedings.)

19 DR. PORTENOY: Thanks.

20 It's useful first to take a step back and  
21 to just point out to you what the obvious is, and that  
22 is that all clinicians who have to address problems of  
23 chronic pain have to deal with very complex medical  
24 and psychosocial and functional disorders that relate  
25 to each other in very complex ways.

1           The process of pain assessment usually  
2 involves an attempt to understand the pain in terms of  
3 tissue damage, neuropathic mechanisms, and  
4 psychological processes.

5           Then there's a higher order construct that  
6 you can call suffering or disability. Now, those  
7 words tend to be applied to different populations in  
8 different ways, but it represents a construct for  
9 trying to understand the overall impact of the pain in  
10 relation to the function of the individual, function  
11 and quality of life, which can be influenced by so  
12 many other factors like other symptoms, physical  
13 impairments, social isolation, family distress, role  
14 disruption, other medical co-morbidities and  
15 independent psychological and psychiatric disorders.

16           So the process of treating pain begins  
17 with an assessment that incorporates this complexity,  
18 and then usually requires the clinician to go through  
19 a process of attempting to create a multi-modality  
20 strategy that may include primary treatment for the  
21 pain etiology, if possible, but then also the  
22 application of a menu of approaches from a variety of  
23 symptomatic therapies.

24           Every treatment that can be used to treat  
25 chronic and acute pain can be subsumed under these

1 eight categories: the pharmacologic, rehabilitative,  
2 psychologic, anesthesiologic, surgical,  
3 neurostimulatory, complementary, and alternative  
4 medicine approaches, and lifestyle changes.

5 And the process of treating chronic pain  
6 patients which begins with this comprehensive  
7 assessment usually ends up with a strategy that  
8 involves more than just pharmacotherapy at least in  
9 the context of multi-disciplinary pain management  
10 programs.

11 The goal is typically both to improve the  
12 patient's comfort and also to enhance quality of life  
13 and functional capacity. In some cases,  
14 pharmacotherapy is emphasized as the mainstay  
15 approach. In other cases it tends to be de-emphasized  
16 in lieu of other approaches, like the rehabilitative  
17 and psychological approaches.

18 If pharmacotherapy is considered to be  
19 appropriate after a comprehensive medical management,  
20 the clinician has to position opioid analgesics among  
21 a very large number of other analgesics, and there has  
22 been an explosion of new drug development during the  
23 past 20 years which has really totally changed the  
24 armamentarium now available to treat acute and chronic  
25 pain.

1           When I first got into this field, we  
2 really only used a very small number of medications,  
3 including nonopioid and opioid medications. Now the  
4 numbers are in the hundreds.

5           These pharmacotherapies, therefore, can  
6 involved nay of a large number of opioid drugs,  
7 nonopioid analgesics, a very large and complex group  
8 of drugs called the so-called adjuvant analgesics,  
9 which are drugs that are on the market for some other  
10 indication other than pain, but can be analgesic in  
11 selected circumstances.

12           And then there are a large number of  
13 syndrome specific drugs, such as the drugs that are  
14 used for headache.

15           So if one focuses on opioid therapy, it's  
16 important, I think, to place that into the context of  
17 a broader number of therapeutic approaches that can be  
18 used to treat acute and chronic pain, and the context  
19 of the broader number of analgesic drugs that can be  
20 used to treat chronic and acute pain.

21           If one does that, we can then talk about  
22 consensus perspectives in relation to the specific use  
23 of opioid drugs.

24           Now, for a very long time there has been a  
25 consensus view that opioid drugs are the first line

1 treatment for severe acute pain and moderate to severe  
2 chronic cancer related pain. But there has at the  
3 same time been a large number of studies also  
4 performed during the past two decades that have  
5 suggested that despite this consensus perspective, the  
6 rule out there in clinical medicine tends to favor  
7 under treatment.

8 Research findings that have been  
9 accumulating in populations with acute pain, cancer  
10 and AIDS pain, and pain at the end of life tend to  
11 suggest that opioid drug use is contrary to published  
12 guidelines which encourage the first line use of these  
13 drugs in selected subpopulations with these disorders;  
14 that the patient outcomes achieved during opioid  
15 therapy are worse in general medical settings than  
16 they are when the opioid drugs are used by  
17 specialists; and that clinicians, in general, have  
18 limited knowledge about opioids and negative attitudes  
19 about opioids that tend to combine to contribute to  
20 under treatment.

21 There has been efforts made during the  
22 past five to ten years to try to understand the  
23 complexity of the problem of under treatment, and  
24 there has been some research as well that has tried to  
25 elaborate the specific types of under treatment and to

1 try to discern methodologies to potentially address  
2 some of these subtypes.

3 At the present time, there is a consensus  
4 understanding that under treatment is itself a complex  
5 phenomenon that may involve patient related factors,  
6 such as stoicism, fear of addiction, fear of  
7 medication side effects, desire to be considered a  
8 good patient, one who doesn't complain.

9 There are system factors, including  
10 fragmented care, lack of reimbursement for drugs, and  
11 then there are clinician related factors, including  
12 poor knowledge of pain management, poor knowledge of  
13 opioid pharmacology, inadequate knowledge of chemical  
14 dependency issues, and fear of regulatory oversight.

15 And so the problem of under treatment  
16 seems to be one that is quite real, supported by a  
17 number of studies, and the problem of under treatment  
18 itself can be deconstructed into a variety of  
19 different component parts, any one of which can be  
20 investigated and redressed at a clinical level.

21 And there have been efforts to redress  
22 under treatment. Guidelines and consensus statements  
23 from professional societies have become very common in  
24 the last ten years. New standards, such as the one  
25 you heard before by the Joint Commission on the

1 Accreditation of Health Care Organizations, and  
2 educational initiatives supported by academic  
3 programs, professional societies, and organizations  
4 and industry.

5 I will point out to you that during the  
6 past ten or 15 years, the educational programming of  
7 the pain professional societies has tended to be pro  
8 opioid in the sense of trying to expand the vision of  
9 pain specialists to include opioid drugs, and in the  
10 educational programs of which I've participated in too  
11 many too count, the problems related to chemical  
12 dependency have typically gotten short shrift.

13 The pain specialist community in the  
14 professionally guided educational programs has really  
15 paralleled the type of educational programming that  
16 has come out of industry.

17 So in the subpopulations with acute and  
18 chronic pain where there is a great consensus about  
19 the role of opioid therapy, there seems to be under  
20 treatment, and there seems to be a compelling and  
21 complicated problem.

22 What about opioid use for chronic non-  
23 cancer pain? Well, clearly we are in a period of  
24 rapidly evolving perspectives. Pain specialists have  
25 come full circle in their thinking about this. Dr.



1 Levy gave you his own personal story. I think all of  
2 the pain specialists in this room will tell you their  
3 own stories about coming to new realizations about the  
4 role and the positioning of these drugs vis-a-vis  
5 other therapies for pain.

6 And there has now in the last few years  
7 been a gradual diffusion of changes in the way pain  
8 management is considered on the part of primary care  
9 providers.

10 Pain specialists by and large 20 to 25  
11 years ago had an early negative view of opioid drugs,  
12 and this, again, was endorsed by Dr. Levy, and that  
13 was typically because of the experience of multi-  
14 disciplinary pain management programs that appeared in  
15 numerous articles in the medical literature. These  
16 articles, all of which were written by good  
17 practitioners who were observing a selected  
18 subpopulation of patients who were referred to chronic  
19 pain programs usually at a university center; these  
20 articles suggested that opioids were associated with  
21 poor function, associated with substance use disorders  
22 and other psychiatric disorders, and associated with  
23 poor outcomes, particularly those related to function.

24 As a result, the guidelines the pain  
25 specialists followed two to three decades ago

1 generally excluded opioid drugs unless patients were  
2 in dire distress, all other approaches had failed, and  
3 the patients can be appropriately monitored.

4 But in the last couple of decades, there  
5 has been a seachange in the way pain specialists view  
6 opioid drugs, and this has been accompanied by an  
7 increase in use of this therapy among all the other  
8 approaches that have also been increasing in number  
9 during the same period of time.

10 Why have pain specialists come to feel  
11 more comfortable with this therapy, to use it much  
12 more? Well, there's been a slowly growing evidence  
13 base, including a small number of randomized control  
14 trials suggesting efficacy. This evidence base,  
15 however, still is largely confined to large surveys,  
16 anecdotal reports, and less, much less in the area of  
17 randomized controlled trials.

18 There's also a more sophisticated  
19 pharmacologic understanding, more reassurance from  
20 regulators in law enforcement that you just found out  
21 about. There's been an influence of the broad  
22 movement to improve acute pain management and cancer  
23 pain management. This is from the World Health  
24 Organization, from the Alliance of State Cancer Pain  
25 Initiatives, and many other organizations pushing to

1 try to improve cancer pain management and acute pain  
2 management.

3 There has been pressure from the media,  
4 the number of stories that highlight under treatment.

5 I would guess if you added them up against the number  
6 of stories that highlighted the Oxycontin problem, it  
7 would still be far, far greater. The media has done,  
8 by and large, a good service to patients in medicine  
9 during the last ten years in highlighting the problem  
10 of under treatment.

11 And there also has been a strong and for  
12 many of us in the pain management field, a sense of a  
13 positive influence on the part of the pharmaceutical  
14 industry who contributed to educational programming  
15 for professionals that would otherwise not have  
16 occurred.

17 As a result of this, the pain specialists  
18 have gradually moved to a consensus view that opioids  
19 do play an important role in treatment of chronic  
20 pain, and we now have consensus statements that have  
21 been published jointly by the American Pain Society  
22 and the American Academy of Pain Medicine, the  
23 American Society of Addiction Medicine, the Canadian  
24 Pain Society, and other organizations and societies,  
25 all of which say the same thing, that opioids should

1 be used in the context of good medical practice as  
2 outlined previously. They should be positioned  
3 appropriately against that very large number of other  
4 therapies, many of which are non-pharmacologic in an  
5 effort to improve patient comfort and enhance the  
6 ability of patients to function.

7 That is now the consensus view on the part  
8 of pain specialists. So what are the implications of  
9 this view?

10 And here I'll move to a set of impressions  
11 that I have that are born from my conversations with a  
12 very large number of pain specialists over a very long  
13 time, and I put them here on the table, I think, for  
14 discussion and consideration, again, in an effort to  
15 contextualize what we're talking about here at this  
16 meeting.

17 The first is that pain specialists believe  
18 that opioids are significantly under used for chronic  
19 nonmalignant pain. And why is that? Because pain  
20 specialists believe that many of the barriers that are  
21 impeding expanded opioid use are illegitimate, like  
22 poor education, poor knowledge, system issues like  
23 poor funding for drugs and that sort of thing.

24 Because pain specialists recognize that  
25 there are biases in the published reports from the

1 multi-disciplinary pain programs, and so the  
2 literature is still moving toward a better element of  
3 balance, and because there are positive reports in the  
4 literature and personal experience with patients that  
5 suggest that these drugs are under used.

6 Secondly, pain specialists support the use  
7 of opioid therapy by primary care physicians. This is  
8 a very important point. Pain specialists believe that  
9 opioid drugs, opioid pharmacotherapy is within the  
10 purview of primary care, and that's because the  
11 barriers that would prevent it are viewed as  
12 illegitimate.

13 We have the belief that the treatment  
14 principles to optimize opioid pharmacotherapy are, in  
15 fact, simple, no more complicated than the treatment  
16 of many other more challenging, equally challenging  
17 medical disorders that primary care physicians treat.

18 We know that the pain epidemiology is such  
19 that even if you wanted to limit opioid prescribing  
20 just to specialists, it would be very difficult to do  
21 that with a very, very high prevalence of chronic  
22 pain, the United States estimated to be as high as 15  
23 percent or more, and a relatively small number of pain  
24 specialists. It is just impossible for pain  
25 specialists to accept this task if you believe that

1       opioid therapy should be an option for some of these  
2       patients.

3                       Pain specialists feel overwhelmed when all  
4       they do is write prescriptions and monitor opioid  
5       prescribing, and there's the influence of advocates,  
6       media, and industry trying to expand this to a larger  
7       number of physicians for the reasons outlined here.

8                       But there's something else that's been  
9       happening, and this has only been happening during the  
10      past year or two in my estimation, and that is that  
11      pain specialists are beginning to perceive that there  
12      may be problems that have not received enough focused  
13      attention by the community of pain specialists, and  
14      these problems largely relate to the interface between  
15      pain and chemical dependency.

16                      And this is now becoming acknowledged by  
17      pain specialists, for example, at the annual meetings  
18      to a much larger extent during the past few years than  
19      it has ever before.     Many pain specialists have  
20      inadequate knowledge of addiction medicine principles,  
21      which are essential to the safe and effective  
22      treatment of patients.

23                      I like to tell my trainees, for example  
24      that I went through medical school, I went through an  
25      internship, I went through three years of neurology

1 training, and I went through a fellowship in pain  
2 medicine and palliative care, and I never had a  
3 lecture on addiction medicine.

4 Generalists are adopting the therapy  
5 without adequate knowledge of pain management  
6 principles. This we already knew, but also without  
7 adequate knowledge of opioid pharmacology and  
8 addiction medicine principles and thereby perhaps  
9 placing patients at risk for the adverse effects of  
10 opioid drugs in this broad phenomenon of chemical  
11 dependency that wouldn't be there if the clinicians  
12 had better skills and training in addiction medicine  
13 principles.

14 There's also been a tacit reluctance on  
15 the part of supporters, including pain specialists,  
16 those in the media who have been portraying the  
17 problem of under treatment, patient advocates and  
18 industry to discuss the legitimate risk associated  
19 with opioid toxicity and abuse addiction because of  
20 the concern that if we opened up Pandora's box and  
21 talked about addiction and abuse, all of the progress  
22 that has been made during the past ten years would be  
23 lost.

24 This seems to be one of the most troubling  
25 aspects of the Oxycontin problem, the concern among

1 those who have a very strong and legitimate concern  
2 for patient care; that all of the discussion, and  
3 particularly the intense media attention, may act to  
4 actually reverse progress that has been made in  
5 destigmatizing opioid therapy, improving the ability  
6 of physicians to use it in an appropriate way,  
7 increasing the chilling effect, if you would, so that  
8 physicians don't prescribe and patients are more  
9 reluctant to take.

10 And because of that concern, in my  
11 estimation, there has been a bit of a tacit  
12 understanding that we won't talk about this too much.

13 And now pain specialists, I think, are recognizing  
14 that this has been a problem. We do need to talk  
15 about it. We need to address it in a proactive way,  
16 and based on the science, and that's one of the  
17 reasons we're all here today.

18 So what's the evolving consensus of opioid  
19 therapy? Opioid drugs are still considered first line  
20 drugs for patients with severe or acute pain and  
21 moderate to severe pain related to cancer or AIDS or  
22 other life threatening illness. They are the mainstay  
23 approach for these patients, and the real issue out in  
24 the field is to train physicians to use it and reverse  
25 under treatment.



1           But in addition to that, pain specialists  
2 would now say that it would be appropriate to consider  
3 opioid therapy for all patients, for all patients,  
4 with moderate to severe non-cancer pain, but never to  
5 prescribe unless there has been a very recent judgment  
6 about the various influences on prescribing based on a  
7 comprehensive assessment.

8           What is conventional practice for this  
9 pain syndrome and this type of patient? Are opioids  
10 likely to work well for this condition the patient  
11 presents with? Are there reasonable alternatives to  
12 opioid therapy? Will the risk of side effects for  
13 opioid drugs be relatively high? And are drug related  
14 behaviors likely to be responsible?

15           All patients with moderate to severe pain  
16 could be considered for therapy, but therapy should  
17 never be offered to these patients until a  
18 comprehensive assessment is done and a recent judgment  
19 based on these sorts of questions is made on the part  
20 of the clinician.

21           So what does safe and effective therapy  
22 with opioid drugs require? It requires the knowledge  
23 and skill sufficient to assess pain and the relevant  
24 medical and psychiatric co-morbidities. It requires  
25 knowledge of conventional pain treatment sufficient to

1 appropriately position opioid therapy among other  
2 therapies. It requires knowledge of opioid  
3 pharmacotherapy, how to optimize the treatment once it  
4 is initiated. It requires knowledge and skills in  
5 addiction medicine sufficient to judge the risks,  
6 monitor treatment and handle problem cases when they  
7 occur. And it requires a commitment to documentation  
8 and appropriate infrastructure for following patients.

9 This is sort of the new view, in my  
10 estimation, of where pain specialists are in relation  
11 to trying to promote the concept of expanded opioid  
12 therapy. We want to promote it, but we want it  
13 promoted now with the understanding that it carries  
14 obligations and responsibilities on the part of  
15 clinicians who have to recognize the full panoply of  
16 risks associated with this therapy, including the risk  
17 of chemical dependency, and attest to having the  
18 knowledge and skills necessary to give the therapy  
19 safely and appropriately with knowledge of those  
20 risks.

21 Safe and effective therapy might also  
22 require a pain specialist to be available as  
23 consultants and pain specialists. Pain specialists  
24 have a particularly strong obligation now to be  
25 educated in principles of pain management and

1 addiction medicine.

2           So if that's where we are as a community  
3 of pain specialists, it may be worthwhile as a final  
4 effort to contextualize this discussion just to  
5 highlight what I would see as the critical issues for  
6 an ongoing review of opioid therapy for chronic pain.

7           And I would suggest to you that you can  
8 categorize the critical issues into three broad sets,  
9 what I have termed the perceived risk of sanctions,  
10 that is, the physician's concern that prescribing  
11 places him or her under risk of legal or regulatory  
12 scrutiny of perhaps sanction. How does one establish  
13 the effectiveness of this therapy? And how does one  
14 understand its safety implications?

15           First, the perceived risk of sanctions in  
16 my view is alive and well, notwithstanding the clear  
17 progress that has been made on the part of the  
18 regulatory community to try to address this fear.

19           About three years go I collaborated with  
20 the Medical Society in the State of New York to do a  
21 survey of 1,300 New York State physicians in order to  
22 evaluate their views of opioid prescribing, and among  
23 the very large number of data that we collected was  
24 the statistic that more than 50 percent of these  
25 physicians were moderately to very concerned about

1 regulatory scrutiny, and 25 to 50 percent admitted  
2 that they changed their prescribing practices solely  
3 because of concern about regulation.

4 At the same time, I became privy to the  
5 kinds of data that Dr. Levy pointed out to you, and I  
6 can tell you that New York State, in my view, is a  
7 very enlightened state.

8 Inappropriate investigations, I think  
9 would be extremely uncommon in New York, and yet this  
10 kind of fear is out there. So the perceived risk of  
11 sanctions is alive and well. It needs to be addressed  
12 as part of the issue of expanding appropriate opioid  
13 prescribing.

14 What about the issue of opioid  
15 effectiveness? It may be useful to think of opioid  
16 effectiveness in terms of three additional sets of  
17 issues. Are all pain syndromes responsive to  
18 opioids? Can opioids be used over the long term or  
19 does tolerance inevitably preclude long-term efficacy?

20 And what must be done in order to achieve optimal  
21 therapy?

22 The concept of opioid responsiveness is  
23 now well established in the pain literature, but I  
24 would guess has not really leached out yet into the  
25 general medical literature. There is an understanding

1 that pain in some populations is relatively highly  
2 responsive to opioid drugs, meaning to say that  
3 optimal therapy is capable of achieving a favorable  
4 balance between analgesia and side effects in a large  
5 proportion.

6 For example, many thousands of patients  
7 reported in surveys of cancer pain suggest that  
8 somewhere between 70 and 90 percent gain this  
9 favorable balance between analgesia and side effects.

10 There's also been numerous surveys of  
11 patients with non-cancer related pain, and these  
12 surveys suggest that this favorable balance between  
13 analgesia and side effects occurs with a lower  
14 prevalence, somewhere between 25 and 70 percent, not a  
15 very satisfying range, but that's what the literature  
16 would suggest.

17 There's a small number of relevant RCTs,  
18 suggesting that these drugs can be effective in  
19 neuropathic pain and those susceptible pain syndromes,  
20 but we really have very little data by which to  
21 understand the whole phenomenon of responsiveness, and  
22 most importantly, we have no data that allows us to  
23 predict which specific patient will not be responsive.

24 So we may say that certain populations of  
25 patients are relatively more responsive or less

1 responsive based on these data. We are incapable of  
2 saying that any characteristic of an individual  
3 patient or an individual's pain syndrome predicts  
4 opioid resistance. That at this point in time can't  
5 be said. It's a very important avenue for research.

6 So the conclusion for this is that opioid  
7 therapy probably can be effective for any kind of pain  
8 syndrome, but the data are very limited.  
9 Responsiveness varies across individuals and  
10 subpopulations, and responsiveness cannot be assessed  
11 unless therapy is optimized by individualization of  
12 the dose, which speaks to the problem of determining  
13 responsiveness even in the clinical setting.

14 And most importantly, we do not yet have  
15 predictors of responsiveness that are clinically  
16 useful.

17 What about the durability of the response?

18 It's clear now that tolerance, which can be  
19 demonstrated in a matter of days in animal models is  
20 actually in human beings a very complex phenomenon.  
21 Most patients stabilize at a dose for a prolonged  
22 period of time, and in clinical practice the fear of  
23 tolerance is a greater problem than its effect on  
24 therapy. This is an issue I think which is emblematic  
25 of the limitations of clinical trials.

1           Clinical trials will allow us to do drug  
2 development and hopefully will meet standards set by  
3 the FDA. Clinical trials will be very -- it will be  
4 very difficult for clinical trials to assess the  
5 problem of tolerance. Studying tolerance in the  
6 clinical setting is extremely complex because we don't  
7 control the pain. The pain varies, and if we can't  
8 control the pain, it's very difficult to know if  
9 changes in the requirement for opioid drug is actually  
10 related to receptor or post receptor changes induced  
11 by the drug, meaning to say the physiology of  
12 tolerance or it's due to some changes in the pain  
13 induced by other processes such that patients need  
14 more medication because they hurt more.

15           So we can't really study tolerance, and  
16 we're going to have to look at survey data in order to  
17 try to understand the impact of tolerance on clinical  
18 practice, and I can tell you that based on a very  
19 large experience in the cancer population, worry about  
20 tolerance is much more of a concern than is tolerance  
21 itself as an issue in clinical practice.

22           And what about achieving optimal therapy?

23           Obviously I don't have time to talk about the  
24 complexity involved in making a decision about which  
25 opioid to select for a specific patient. What's the

1 best method for individualizing the dose?

2 How aggressively should side effects be  
3 treated in an effort to open the therapeutic window  
4 and make sure that the balance between analgesia and  
5 side effects is favorable?

6 How does one manage the patient who is  
7 poorly responsive to a therapy?

8 Again, these clinical issues for which we  
9 now have nice consensus based guidelines in the  
10 literature are very difficult to investigate and end  
11 up in an evidence based labeling by the FDA. This is  
12 a great challenge.

13 If the FDA, for example, were to insist on  
14 an evidence base for making a selection of a specific  
15 drug for a specific kind of pain or a methodology for  
16 individualizing the dose, the numbers of studies that  
17 would have to be done and the size of the populations  
18 that would have to be studied would clearly stall  
19 progress in this area for many, many years.

20 This is not going to be solved without  
21 collecting the accumulated clinical experience and  
22 survey data to complement new RCTs.

23 It's also important to point out that in  
24 clinical practice the issues of import which I think  
25 should be in the label, although, again, difficult to



1 place in the label in any evidence based context, but  
2 the outcomes of import for opioid therapy are not only  
3 pain relief alone, but what kinds of side effects are  
4 occurring and what the impact of those side effects  
5 are, what the functional outcomes of the therapy in  
6 terms of both physical and psychosocial functioning,  
7 and whether or not the patient is engaging in  
8 responsible drug taking behaviors.

9           Clearly, anybody given an opioid drug  
10 could be maintained free if the goal is anesthesia,  
11 not analgesia, but our goal typically is analgesia  
12 with function, and so it is essential that these  
13 outcomes be a part of good clinical practice and how  
14 they end up in an evidence based label from the FDA  
15 is, again, a great challenge that we'll have fun  
16 talking about for the rest of today and tomorrow.

17           What about issues related to safety? I  
18 would suggest to you again that we could think of two  
19 broad categories, whether or not there's any major  
20 organ toxicity or other adverse effects and what the  
21 addiction liability is.

22           There's been a huge experience in both the  
23 addiction literature and the pain literature,  
24 suggesting that there is no major organ toxicity from  
25 opioid drugs, but clearly persistent side effects can

1 be a big problem.

2 The issue of adverse cognitive effects is  
3 now just beginning to get played out in studies. Most  
4 studies do suggest that cognitive functioning can  
5 normalize with chronic therapy in at least a large  
6 proportion of patients. Most pain specialists  
7 advocate that driving is okay when they're taking  
8 opioid drugs.

9 Again, very difficult clinical judgments  
10 have to be made, and how that relates to new drug  
11 development is a great challenge.

12 The important issue for the discussion  
13 today, I think, is the issue of addiction liability,  
14 and this is where our great responsibility is. In  
15 beginning to address the clinical needs of patients  
16 with pain in away that promotes appropriate opioid  
17 use, that optimizes the benefits of these drugs and  
18 minimizes their risk in terms of addiction liability.

19 It's important to recognize now that the  
20 definitions for addiction that have been in the  
21 psychiatric literature for a long time are widely  
22 considered by pain specialists to be problematic, and  
23 we now have a new consensus document recently  
24 published by the American Pain Society, the American  
25 Academy of Pain Medicine, and the American Society of

1 Addiction Medicine, all together which offers a new  
2 definition for addiction.

3 And it's also important to recognize that  
4 we have very, very few studies of addiction liability  
5 in pain patients. The studies seem to suggest that  
6 the occurrence of addiction in patients with no  
7 previous history of substance abuse during treatment  
8 of acute pain is very uncommon.

9 The development of addiction or abuse  
10 behaviors during the treatment of cancer pain in  
11 patients with no prior history of substance abuse is  
12 very uncommon, and the data would suggest that we  
13 really don't know what we're doing in chronic  
14 nonmalignant pain.

15 We all have to agree that disease is an  
16 addiction or that addiction is a disease. That's very  
17 important.

18 (Laughter.)

19 DR. PORTENOY: And that my speech therapy  
20 is not yet over.

21 We have to agree that addiction is a  
22 disease, a serious disease with genetic,  
23 pharmacologic, and psychosocial elements, and we all  
24 have to agree that we have to distinguish it from  
25 tolerance, physical dependence, and a concept common

1 in the pain community called pseudo addiction, which  
2 is a development of aberrant drug related behaviors  
3 driven by uncontrolled pain, which can be eliminated  
4 if pain were better relieved.

5 We all have to agree that addiction  
6 includes -- that the definition of addiction in the  
7 medical context is best if it includes constructs like  
8 loss of control, compulsive use, use nondescript harm  
9 and craving. That's the best way to consider  
10 addiction in a medical context. That's what the new  
11 definition from APX, AAPM and ASAM highlights.

12 And we all have to understand that because  
13 addiction is understood in terms of these behavioral  
14 phenomena, it is only diagnosed by the occurrence of  
15 aberrant drug related behavior.

16 The whole concept of aberrant drug related  
17 behavior about which I think you'll hear more in a  
18 lecture, I think, later is really, I think a very  
19 important trend, is a very important understanding for  
20 physicians, but one that has received almost no  
21 empirical investigation so far.

22 We know that some patients who are given  
23 opioid drugs develop behaviors that physicians view as  
24 problematic. Some of those behaviors are very minor  
25 ones, like taking an extra pill to help them sleep at

1 night. Some are more egregious, like grinding up a  
2 tablet and injecting it intravenously, doctor  
3 shopping, becoming inebriated and crashing a car.

4 And we know that this spectrum of  
5 behaviors can occur whenever we're using these drugs.

6 These are all aberrant drug related behaviors. But  
7 clinicians also recognize that aberrant drug related  
8 behaviors may or may not reflect addictive disease.  
9 some patients with aberrant drug related behaviors  
10 will have this concept called pseudo addiction. Some  
11 will have other psychiatric disorders associated with  
12 impulsive drug taking behavior

13 Some will have an encephalopathy, a  
14 confusional state that drives them to take medications  
15 in the wrong way. Some will have family disturbances  
16 that drive aberrant behavior, and some will use these  
17 drugs aberrantly for the purpose of criminal intent.

18 And so part of what we need to do as  
19 clinicians is to understand the spectrum of aberrant  
20 drug related behaviors and also help clinicians  
21 understand how to diagnose those behaviors  
22 appropriately so they can be managed.

23 That I would love to see in the label. So  
24 aberrant drug related behaviors have to be monitored,  
25 diagnosed, managed, and the underlying disorder

1 driving the aberrant drug related behaviors have to be  
2 treated.

3 In some situations opioids have to be  
4 stopped in that context because it's the right thing  
5 to do. In other cases, opioids should be continued if  
6 the controls that can be created in prescribing are  
7 sufficient to allow the patient to regain control over  
8 opioid use.

9 These are subtleties and challenges in the  
10 clinical practice of opioid pharmacotherapy that have  
11 not really been portrayed in the educational  
12 programming by the professional societies, clearly not  
13 in the educational programming of industry during the  
14 past 20 years, and not in the labels and the consensus  
15 statements tha have been driving opioid use or  
16 promoting opioid use among clinicians.

17 These are the kinds of issues now that  
18 have to be brought out if we are going to have more  
19 appropriate opioid use.

20 So how can one then contextualize opioid  
21 therapy? In my own view, again, as a clinician and as  
22 an educator in this area for a long time, I view  
23 opioid pharmacotherapy as an approach with an  
24 extraordinary promise to help patients with chronic  
25 pain of all different types achieve a degree of

1 comfort and a level of function and an improved  
2 quality of life that would otherwise be impossible  
3 even with the best that medical practice has to offer.

4           These drugs have that promise, but there  
5 are also substantial risks. Opioid pharmacotherapy  
6 should be promoted and expanded among the primary care  
7 community, but it has to be done with the proviso that  
8 it carries clear obligations and responsibilities on  
9 the part of prescribers. Prescribers have to be able  
10 to assess and reassess, to give the drugs in a  
11 skillful way, to have some knowledge of addiction  
12 medicine principles so that aberrant drug related  
13 behavior can be picked up, appropriately dealt with  
14 and monitored over time.

15           And the physician has to be willing to  
16 document and communicate, and that means with all  
17 parties concerned, all the constituencies, those in  
18 the regulatory and law enforcement communities,  
19 pharmacies, patients and families and colleagues.  
20 That kind of documentation and communication is now  
21 fundamental with the therapy of this type.

22           Thank you for your attention.

23           (Applause.)

24           ACTING CHAIRMAN KATZ: Thank you very  
25 much, Dr. Portenoy for a wonderful synthesis of a very

1 complex topic, as always.

2 We are still ahead of schedule, although  
3 everyone is probably aching for that break that is  
4 going to happen soon. Would you be willing to take a  
5 few questions after a break? Maybe that would be --

6 DR. PORTENOY: Whatever you like.

7 ACTING CHAIRMAN KATZ: Okay. Why don't we  
8 go ahead and take a break right now until five minutes  
9 after 11. We'll start promptly then with Dr. Portenoy  
10 addressing any questions.

11 (Whereupon, the foregoing matter went off  
12 the record at 10:50 a.m. and went back on  
13 the record at 11:13 a.m.)

14 ACTING CHAIRMAN KATZ: Could everybody  
15 start taking their seats, please? Could people start  
16 taking their seats? Could everybody please take a  
17 seat? I'd like to get the rest of the morning session  
18 started.

19 Thank you for turning up my mic, whoever  
20 just did that.

21 Why don't we go ahead then and give Dr.  
22 Portenoy a few minutes to answer questions. We'll  
23 take about five or six minutes for questions for him.

24 There are certainly many important issues that he  
25 touched on in his discussion, and I'm sure that there



1 will be many questions for people around the table for  
2 him.

3 So any questions from around this table  
4 for Dr. Portenoy? Dr. Holmboe, please.

5 DR. HOLMBOE: Hi, Eric Holmboe from Yale.

6 I wonder if you could speculate for a  
7 moment. You talked a lot about personal  
8 accountability for those who describe these things.  
9 One of the things though that often gets left out in  
10 this discussion is what is our accountability for the  
11 practice and quality of care of our peers,  
12 particularly when we see that they may not be  
13 practicing up to standards.

14 In my community that's a big issue, and  
15 it's often one that other physicians who knowingly see  
16 the deficiencies in the care being provided by one of  
17 their colleagues fails to act on that. I wonder if  
18 you might comment on how that would apply in this  
19 particular situation.

20 DR. PORTENOY: Well, I think it sort of  
21 goes without saying that it's a complex issue, and I  
22 would like to think that we would come to rely on  
23 systems rather than on individuals. I think to the  
24 extent that you place the onus on individual  
25 physicians to do those kinds of judgments, you're

1 going to see such scatter in terms of the quality of  
2 those judgments and what ends up happening that it's  
3 probably going to work to the worsening of the system  
4 overall.

5 If you're lucky enough to work in a  
6 hospital, especially a hospital in the New York area,  
7 you will probably be regaled with quality improve and  
8 quality assurance systems that essentially allow  
9 physicians to make reports to senior leadership and  
10 then for an investigation to follow that's quiet  
11 initially before any action that would be untoward  
12 occurs.

13 So I think the answer is, yeah, we  
14 certainly have obligations, if you see malfeasance or  
15 something that's particular dangerous for patients,  
16 but unless we get at that as a systems issue, I can't  
17 really see how it's going to really work out.

18 ACTING CHAIRMAN KATZ: Just a point of  
19 order for the folks around the table who are actually  
20 keeping a list of people who want to speak in order,  
21 and if you do want to ask a question, just raise your  
22 hand and you'll be put on the list here.

23 The next person is Jeff Bloom.

24 DR. BLOOM: Thank you.

25 I wanted to ask a question about it's

1 difficult enough for patients to get a prescription  
2 for an analgesic and for people with chronic pain,  
3 there's a pretty good document of literature that you  
4 need a baseline medicine to treat your chronic pain,  
5 but you also need a medicine for breakthrough pain as  
6 well to have adequate pain control, and that when  
7 people are inadequately treated, they tend to run into  
8 problems with their pain management.

9           What suggestions would you have to be able  
10 to better educate people about the need to have two  
11 medicines in order to properly control severe chronic  
12 pain in patients?

13           DR. PORTENOY: Right.

14           DR. BLOOM: And the fear that doctors have  
15 about writing, you know, with two prescriptions.

16           DR. PORTENOY: I think that's one of those  
17 questions that actually has multiple levels to it. At  
18 a clinical practice level, one of the goals is to try  
19 to train physicians to have the skills to know which  
20 patients do best, would do best potentially with a  
21 baseline drug and a breakthrough drug, which for any  
22 number of reasons would do fine with just one or the  
23 other, and if you expand the thinking about that a  
24 little bit, you're really talking more about  
25 polypharmacy with multiple controlled prescription

1 drugs.

2 And clearly among the community of pain  
3 specialists, there's an understanding that many  
4 patients will need multiple controlled prescription  
5 drugs. They'll need opioids or maybe two opioids.  
6 They may need a psychostimulant. They may need a  
7 benzodiazepine.

8 And so there's the issue of the increasing  
9 concern of regulatory oversight as one prescribes more  
10 and more -- one uses polypharmacy with multiple drugs,  
11 and then there's the issue of the labeling again. To  
12 what extent as one thinks in terms of what studies  
13 have to be done in order to establish the safety and  
14 efficacy of a drug does one think about needing to do  
15 interaction studies and combination studies?

16 If it is true, for example that it's now  
17 fairly common practice to combine an opioid with a  
18 psychostimulant, who's going to require those studies  
19 to be done? Who's going to pay for those studies to  
20 be done? Which psychostimulant, what dose?

21 Is that something we should put in the  
22 labeling of opioid drugs, that treatment of side  
23 effects is essential during therapy and these may  
24 include XYZ and, oh, by the way, psychostimulants, or  
25 is that something that shouldn't go in the label until

1 the studies, the interaction studies, are done?

2 So I think there's the issue of clinical  
3 medicine and there's the issue of regulation. The  
4 bottom line is the consensus among the community of  
5 pain specialists is that polypharmacy is clearly  
6 appropriate in the subgroup of patients with chronic  
7 pain and that that may involve more than one opioid  
8 and that may involve opioids plus non-opioid  
9 controlled drugs.

10 ACTING CHAIRMAN KATZ: Dr. Smiley.

11 DR. SMILEY: Just thanks for a great  
12 presentation, by the way, Dr. Portenoy.

13 DR. PORTENOY: Thank you.

14 DR. SMILEY: But I wanted to ask you. You  
15 had mentioned all of the knowledge that a pain  
16 specialist ought to have when dealing with chronic  
17 pain and prescribing these drugs, knowledge of your  
18 recognizing addictive behavior, knowing addiction  
19 medicine, pharmacokinetics, pharmacodynamics, and then  
20 you of necessity said that obviously these drugs need  
21 to be prescribed by general practitioners, family  
22 medicine, however we want to classify those  
23 physicians, and then implied that they needed to know  
24 the same things.

25 and while that's wonderful, and I agree

1 everyone should know everything, it's not that  
2 practical, and I'm not sure what the question is, but  
3 I wanted you to --

4 (Laughter.)

5 DR. SMILEY: -- I wanted you to expand.  
6 Yeah, I know. That's too bad, but I wanted you to  
7 expand on that a little bit.

8 DR. PORTENOY: Sure.

9 DR. SMILEY: What do you actually mean?  
10 What do you expect because, you know, there's talk of  
11 regulation of these sorts of drugs and who can  
12 prescribe them. What do you expect the general  
13 internist, the family practitioner to really know  
14 about these issues, you know, in opioid prescribing?

15 DR. PORTENOY: Right. That's a great non-  
16 question.

17 DR. SMILEY: Yeah, thanks.

18 (Laughter.)

19 DR. PORTENOY: That's a really good non-  
20 question.

21 You know, the older I get the more I am  
22 convinced that clinicians have to have some  
23 understanding about the parameters of generalist level  
24 knowledge and the parameters of specialist level  
25 knowledge, and that we have an obligation not to do

1 anything therapeutically unless we have some assurance  
2 that we have generalist level knowledge.

3           So, for example, I don't treat  
4 hypertension at all. I'm a neurologist and a pain  
5 specialist. I don't treat hypertension at all. I  
6 really feel that the changes in the field have been so  
7 dramatic since I did my internship that it would be  
8 doing a disservice to patients because I lack even  
9 basic generalist level knowledge of the treatment of  
10 hypertension.

11           And I think for some primary care  
12 physicians it would be totally appropriate to say, "I  
13 just have not gotten the time. I don't have the  
14 interest. I'm too worried about X, Y, and Z to  
15 acquire generalist level knowledge of opioid  
16 pharmacotherapy. So I don't do that."

17           I will refer you to another physician who  
18 will consider it, but there is a body of information  
19 and skills, I think, that could be viewed as  
20 generalist level knowledge for opioid pharmacotherapy.

21           It includes the techniques to optimize the treatment.

22           How does one select a drug, individualize  
23 the dose, and treat side effects?

24           It includes the monitoring of outcomes,  
25 which includes pain relief, side effects, physical and

1 psychosocial functioning, and the occurrence of  
2 aberrant drug related behavior, and it includes  
3 knowing what to do when the outcomes are not going in  
4 the direction that you want them to go in.

5           And that might mean when to refer  
6 patients. If a patient is engaging in aberrant drug  
7 related behavior, you may say, "Well, I don't know  
8 what to do now. So I'm going to just write you scrip  
9 for the next week and refer you to the local addiction  
10 medicine specialist who's going to help me understand  
11 this, what these behaviors represent," or it may be  
12 that that person has enough skills to manage it.

13           But I really think that what we have to  
14 try to do as educators is to begin to define that body  
15 of knowledge and skills that can be reasonably called  
16 generalist level and then mandate that for  
17 prescribers, and if you don't have it, don't do it.  
18 Don't prescribe.

19           ACTING CHAIRMAN KATZ: Dr. Schuster.

20           DR. SCHUSTER: First of all, let me say  
21 that I'm very pleased with your presentation about  
22 the area of addiction. I also want to assure you that  
23 your experience in terms of your training a long time  
24 ago tragically has not changed that much today. I've  
25 been at four major universities, and we're lucky if we



1 can get two to three hours of curriculum time in the  
2 medical education for addictions.

3 I think -- and this is a statement, but  
4 I'd like your reaction to it -- I think we have to  
5 distinguish between two types of problems here, the  
6 naive doctor who is conned into prescribing opiate  
7 analgesics by an addict versus the individual who may  
8 have a predisposition to addiction or iatrogenic  
9 dependence or addiction.

10 And I think that we can train individuals  
11 to be more sensitive to the cues that someone is an  
12 addict, and that's fairly easy. I think we know very  
13 little about how to predict who is going to become  
14 addicted through their legitimate treatment with an  
15 analgesic, and I think this is an area that badly  
16 needs to have more research done.

17 DR. PORTENOY: My comment is I agree  
18 totally. We have tried to do some survey work on  
19 establishing the prevalence rates for various aberrant  
20 drug related behaviors. Steven Passik, who will be  
21 speaking later, and I did a small survey at Memorial  
22 Sloan Kettering Cancer Center of 60 patients with  
23 cancer related pain asking about a variety of aberrant  
24 behaviors.

25 We found out that more than half of those

1 patients had borrowed benzodiazepines from their  
2 family members, and so we began to ask not only what's  
3 the prevalence of these behaviors, but what's  
4 normative and what's aberrant.

5 And so we don't really have any clear  
6 understanding of what constitutes an aberrant  
7 behavior, particularly the word "aberrant" itself has  
8 a sociology to it. It suggests certain norms that we  
9 may not agree on, different -- we may not agree for  
10 them in terms of certain populations, certain  
11 different groups of prescribers.

12 So it assumes that we have norms that are  
13 sort of squishy at this point. It assumes that we  
14 know which behaviors would be outside of those norms,  
15 and we don't know the prevalence rates or how to  
16 monitor it.

17 So I think you're absolutely right. It's  
18 a huge problem.

19 Now, having said that, the fact is we  
20 can't wait for those studies to be done in order to  
21 improve opioid prescribing or the prescribing of any  
22 controlled prescription drug, and so you have to bring  
23 down to the level of primary care provider some very  
24 simple guidelines that help that person understand.

25 Some would advocate the use of a written

1 agreement in every case. I don't advocate that, but I  
2 do advocate an assessment of these behaviors at every  
3 visit, and I also advocate creating a structure for  
4 prescribing that it would be consistent with a  
5 perceived level of risk.

6 If you have a young man who admits to  
7 heavy marijuana use in college and now has a work  
8 injury with chronic low back pain, you might insist on  
9 relatively frequent visits, bring the pill bottles  
10 back. I need to have you use only one pharmacy, and  
11 so forth.

12 If you have an 80 year old cancer patient  
13 who has been a teetotaler her whole life, it might be,  
14 "Here, six months of drugs. See you later," or  
15 thereabouts. I'm not serious.

16 (Laughter.)

17 DR. PORTENOY: Any of you who are  
18 regulators, I'm just --

19 (Laughter.)

20 DR. PORTENOY: It's just hyperbole. I  
21 don't actually do that.

22 But you get my drift. My drift is that we  
23 need to do that, and I think, again, the issue of  
24 labeling for me and this issue of labeling in relation  
25 to educational programming, it has to evolve to

1 reflect that clinical reality and take those steps, to  
2 state certain things that we know to be true or we  
3 know are likely to be true, even if we don't yet have  
4 the clinical studies to do it in an evidence based  
5 kind of way.

6 ACTING CHAIRMAN KATZ: Dr. Foley.

7 DR. FOLEY: Russ, thanks again for your  
8 presentation.

9 In presenting it in this way, however, you  
10 have sort of bought into the belief that cancer pain  
11 is one category which has no scientific basis in a  
12 sense that's any different than -- cancer chronic pain  
13 is any different than chronic pain. It's a different  
14 population that has a different social and cultural  
15 and perhaps prognostic significance, but it has no  
16 science difference to it.

17 And we've created sort of a liberal  
18 perspective toward the cancer population because they  
19 carry that label, and we label drugs and develop them  
20 and way for chronic cancer pain, but there's no  
21 science here.

22 So would you want to perpetuate that or  
23 would you want to move it to a different agenda?

24 DR. PORTENOY: Yeah, that's really a great  
25 level, and I think over coffee you and I can move it

1 to that agenda.

2 I couldn't agree with you more, and in  
3 fact, some of the data coming out now from randomized  
4 controlled trials which are comparing opioids to non-  
5 opioid conventional treatments might have us evolve  
6 our perspective and begin to say that opioids might be  
7 the first line drug for the treatment of post hepatic  
8 neuralgia or other kinds of neuropathic pain if you  
9 look at the empirical data from randomized controlled  
10 trials.

11 And I agree totally with what you're  
12 saying, but, however, in an effort to historically  
13 contextualize what we're talking about today --

14 DR. FOLEY: Yes, yes.

15 DR. PORTENOY: -- I chose to buy into that  
16 because I think one of the things we're concerned  
17 about as an outcome of this meeting and other things  
18 happening at the regulatory level is that a backlash  
19 is possible, and that the movement to bring more  
20 appropriate opioids prescribed into primary care could  
21 have a major setback, which could ultimately even  
22 affect negatively what we're trying to do with cancer  
23 pain.

24 So one of the slides I said is that you  
25 might consider opioids for every patient with moderate

1 to severe pain, but you have to consider certain  
2 issues, and one issue is what is conventional  
3 practice, and so supporting the idea that opioid  
4 therapy is mainstay for cancer pain and acute pain,  
5 that's the conventional practice. We should buttress  
6 that and then bring the rest of our prescribing along  
7 in that same model, I would think.

8 ACTING CHAIRMAN KATZ: I'll take one more  
9 question, and actually it's Mitchell Max.

10 Let me just remind people around the table  
11 that when you're done speaking, turn off your  
12 microphone. There's some sort of feedback problem  
13 that occurs if you don't shut it off.

14 DR. MAX: Russ, I wanted to mention a  
15 couple of large NIH supported randomized trials that  
16 actually might suggest that opioids for neuropathic  
17 pain might be the first choice from the view of  
18 efficacy, and I can get those for my FDA colleagues if  
19 you want.

20 I mean, one is a study that we helped  
21 Sirinivasa Raja do at Hopkins with 73 patients where  
22 in a complete crossover morphine was compared to  
23 nortriptyline, maximum doses in post hepatic  
24 neuralgia, and morphine on most measures beat  
25 nortriptyline. Thirty-four percent of people had an

1 adequate response to morphine compared to 19 percent  
2 on nortriptyline, and both beat placebo.

3 And if you do the calculations, that comes  
4 down to there's about one patient in six or seven that  
5 got relief, clinically meaningful relief, from  
6 morphine, but got nothing from the nearest competitor.

7 So on the efficacy side, that's the plus side.

8 And the other one that was presented only  
9 in abstract form at the American Pain Society, but  
10 will probably also be published in the next year or so  
11 is by Mike Rowbathan, UC-San Francisco, NIDA  
12 supported. He actually did look to the higher end of  
13 the dose range of opioids and neuropathic pain. It's  
14 one of the first dose response studies, and he  
15 compared low dose to high dose levorfanol (phonetic)  
16 over eight weeks, and the low dose was three  
17 milligrams a day, which is actually probably  
18 equivalent to about 90 milligrams of morphine, and he  
19 showed that the three times that or about 270  
20 milligrams of morphine equivalent a day handily beat  
21 it.

22 So it raised the issue not only we haven't  
23 shown a dose response for any other above the usual  
24 levels of gabapentin or tricyclics. So maybe the  
25 opioid is just like we know in cancer pain, has a dose

1 response curve that keeps going up and up. Maybe even  
2 a higher dose of opioids are better, which raises more  
3 issues about what's the cost of providing this.

4 So if opioids -- and both of these studies  
5 showed there was no cognitive effects at all with  
6 careful testing. So if opioids are the best in  
7 advocacy, we certainly don't want to say the primary  
8 care doctors can't prescribe that, and we need to pay  
9 better attention to the risks, too.

10 DR. PORTENOY: I agree.

11 ACTING CHAIRMAN KATZ: Well, with that  
12 nice ending, I know there are a few more people who  
13 had questions, and I apologize for that. We'll need  
14 to keep to the schedule, but we do have some  
15 unstructured time for question and answer after the  
16 next presentation, and so I would encourage people to  
17 hold their questions just for a short period of time.

18 Now we'll have Gerald DalPan from the FDA  
19 speak about opiate analgesic trials and drug  
20 development plans.

21 MR. DalPAN: Okay. Well, thank you, Dr.  
22 Katz.

23 Good morning to the committee members and  
24 the guests.

25 We're certainly heard a lot this morning



1 about different aspects of opiate drug treatment, a  
2 wide range of issues, and I'd like to focus in on some  
3 of these issues now as we pose some discussion points  
4 for the committee.

5 And specifically I want to talk about  
6 something that Dr. Portenoy brought up, and that's  
7 drug trials to establish the efficacy of opiate  
8 agents.

9 Okay. We want to talk about two things in  
10 this regard. There will be the choice of the patient  
11 populations in the clinical trials, as well as the  
12 duration of clinical trials to support efficacy for  
13 chronic opiate treatment.

14 So the choice of patient population in  
15 clinical trials of opioid analgesics is a crucial  
16 element in the clinical development of these agents,  
17 and it's going to be the focus of part of our  
18 discussion later this morning.

19 Features of the patient population in  
20 clinical trials that require important consideration  
21 include, among others, the intensity of the underlying  
22 pain, the underlying disease that's the cause of the  
23 pain, the pathophysiologic mechanisms of the pain, and  
24 the duration of the treatment needed.

25 Because the clinical trial data form the

1 basis of the product's approved indication and  
2 labeling, the clinical trial data are an important  
3 source of information to health care providers and to  
4 patients. Inclusion of patient populations in  
5 clinical trials that are representative of the actual  
6 use of the product is, thus, important.

7 So to gain insight on the actual use of  
8 opioid analgesic use in the United States and on the  
9 temporal trends in prescription opiate use, we've  
10 obtained drug utilization data from two surveys, the  
11 National Prescription Audit Plus, or NPA Plus, and the  
12 National Disease and Therapeutic Index, or NDTI, both  
13 by IMS Health.

14 These data were analyzed by the Office of  
15 Drug Safety at FDA, and the purpose of these analyses  
16 was to quantify the changes in the number of  
17 prescriptions dispensed and the indications for which  
18 they were dispensed over the period 1996 through 2000.

19 The focus of the analysis was on out-  
20 patient usage of oral and transdermal formulations of  
21 opiate analgesics, and for this analysis we used ten  
22 commonly used opioid analgesics. We excluded cough  
23 and cold preparations, injectable formulations and  
24 rectal formulations.

25 NPA Plus is a cross-sectional survey of

1 dispensed prescriptions from pharmacies in the  
2 continental United States, and these include chain,  
3 independent, mass merchandisers, food stores, long-  
4 term care, and mail order pharmacies. Total  
5 prescriptions, both new and refill are projected  
6 nationally from this sample.

7 Now, here I apologize to the committee for  
8 your handouts. The two per page printing does not  
9 print imbedded tables, and the Executive Secretary,  
10 Ms. Topper, has told me she will be able to get you  
11 the full slides after the meeting.

12 This slide presents the estimated number  
13 of dispensed opioid prescriptions for the years 1996  
14 and 2000, as well as the percent change in the number  
15 of dispensed prescriptions from 1996 to 2000. The  
16 numbers presented are in the thousands. Thus, in the  
17 year 2000 an estimated 163,023,000 prescriptions for  
18 opioids were dispensed, and during this period, there  
19 was a 27 percent increase in the number of dispensed  
20 opioid prescriptions.

21 NDTI is also a cross-sectional survey in  
22 the continental United States of visits to office  
23 space practitioners. Drug mentions or uses are  
24 captured, and these are linked to other information in  
25 the medical office visit record, including diagnosis,

1 and for the purpose of this analysis, only diagnosis  
2 was examined.

3 This slide here presents the number of  
4 opioid prescriptions in thousands for the top six  
5 diagnostic indication categories out of a total of 18  
6 total large level categories, which is all we  
7 analyzed.

8 As in the NPA Plus data, cough and cold  
9 preparations are excluded, as are injectable and  
10 rectal formulations.

11 The two indication categories that  
12 accounted for the greatest number of opioid  
13 prescriptions were the first one, which is special  
14 conditions without sickness, which includes conditions  
15 such as post surgical conditions, and the second,  
16 which is diseases of musculoskeletal and connective  
17 tissue, which includes conditions such as back ache,  
18 low back pain, osteoarthritis, arthritis, and other  
19 joint pain.

20 Injury and poisoning, which includes  
21 conditions such as sprains and fractures, and another  
22 category defined as symptoms, sign, and ill defined  
23 conditions, which include conditions such as headache  
24 and abdominal generalized or chest pain, also account  
25 for a substantial number of prescriptions.

1 Other categories of interest are  
2 neoplasms, such as neoplasms of the lung, breast,  
3 colon, and prostate, and diseases of the nervous  
4 system and sense organs, such as migraines, otitis  
5 media, carpal tunnel syndrome, and neuropathy.

6 And with the exception of nervous system  
7 disease, which is relatively flat at a minus one  
8 percent change over the five year period, there were  
9 five year increases ranging from ten percent to 34  
10 percent for the other five indication categories.

11 So this gave us an idea of how opiates are  
12 being used. I want to turn our attention now to what  
13 the label says about the indications for these drugs,  
14 and again, I think the committee members don't have  
15 this on their handouts, but what I have up here are a  
16 number of label indications for some currently  
17 marketed opioid analgesic products, and as the slide  
18 shows, most of these labeled indications are  
19 relatively broad, for example, something like for the  
20 relief of moderate to severe pain without any further  
21 specification.

22 And these indications generally then  
23 extend beyond the scope of the clinical trials that  
24 form the basis of the product's approval. In fact,  
25 for many of the older opiate analgesic agents,

1 clinical trial data are not included in the label, and  
2 with a few exceptions, most labels do not indicate  
3 whether the product is for long term management of  
4 chronic pain or for short term management of acute  
5 pain.

6 Some opioid analgesics brought to market  
7 more recently, however, do contain data from clinical  
8 trials, and these data can then potentially allow  
9 physicians and other health care providers to use that  
10 trial data to put the drug's indication into a  
11 clinical context and, thus, hopefully better informing  
12 physicians regarding the choice of agents for their  
13 patients.

14 And so in view of both this increasing  
15 number of prescriptions and the important role that  
16 these clinical trials have in the labeling of the  
17 product, we want to focus some of this morning's later  
18 discussion on the clinical trials that are used to  
19 establish effectiveness of opioid analgesics.

20 So on the next slide here, we've  
21 summarized some of the variety of patient populations  
22 that have been used in recent new drug applications  
23 for opioid analgesics, and patient populations here  
24 vary. So one way is to define entry criteria based on  
25 intensity of pain without regard to etiology.

1           For example, the development program for  
2 drug two includes a trial enrolling patients with  
3 chronic malignant or nonmalignant pain.

4           A second way is to put some restriction on  
5 the etiology. For example, the development of drug  
6 four includes a trial for cancer pain, but does not  
7 further specify the pain, such as bone pain.

8           And a third option is to include pain due  
9 to a specific condition. For example, the development  
10 of drug one has two trials, one for chronic low back  
11 pain, and one for osteoarthritis for the hip or knee.

12          So you can see that some development plans use very  
13 narrowly focused patient populations. Others use  
14 broadly focused patient populations.

15          Now, the narrowly defined patient  
16 populations, such as patients with osteoarthritis or  
17 low back pain, the trials using these populations may  
18 afford a better chance to demonstrate a clinically  
19 beneficial effect to the drug by reducing the patient  
20 heterogeneity. The results of the trials, however,  
21 may have limited utility when deciding to treat  
22 patients without one of the conditions under study.

23          Do successful trials with chronic low back  
24 pain and osteoarthritis provide a sufficient rationale  
25 to use the drug to treat another type of chronic pain,

1 such as chronic bone pain due to metastatic cancer?

2 On the other hand, trials that enroll  
3 patients with a broad spectrum of pain indications may  
4 better reflect actual practice. In these situations  
5 though, patient heterogeneity may limit the ability to  
6 detect a true treatment effect of the study drug.

7 However, careful design and sample size  
8 considerations may partly overcome this problem. If  
9 the study drug is shown to be effective, it's not  
10 clear, however that the result would apply to all pain  
11 conditions included in the entry criteria or if there  
12 are some pain conditions that do not respond to the  
13 study drug.

14 Now, subgroup analysis may shed some light  
15 on that issue, but the relatively small number of  
16 patients included in these analyses can make  
17 interpretation of the data often difficult. If these  
18 studies are successful and the drug is approved, is  
19 there sufficient rationale to treat patients with a  
20 chronic musculoskeletal condition, such as chronic low  
21 back pain, even if chronic low back pain patients were  
22 not represented in the study?

23 So defining the appropriate patient  
24 population for entry into clinical trials of opioid  
25 analgesics is of importance to us as we consider



1 clinical trial design.

2 We turn our attention now to the duration  
3 of treatment in clinical trials. Because opiate  
4 analgesics are used to treat both acute and chronic  
5 pain, it's important that opioid drug products  
6 intended for the treatment of chronic pain or that  
7 have the potential for treatment of chronic pain be  
8 studied in such a setting.

9 While many trials of opioid analgesics  
10 have been performed to demonstrate efficacy in short-  
11 term studies, the clinical setting of chronic pain is  
12 often different from the clinical setting of acute  
13 pain, and clinical trials for chronic pain must  
14 account for these differences in order to provide  
15 meaningful information to patients and physicians.

16 So in light of that, we're posing two  
17 discussion questions here for the committee. First,  
18 we'd like you to discuss the target population for  
19 various opioid formulations and what factors you  
20 consider in making this determination.

21 And, second, in the context of clinical  
22 trials to support an indication for chronic pain, we'd  
23 ask you to discuss the need to assess sustained  
24 efficacy over the duration of the trial.

25 Thank you.

1                   ACTING CHAIRMAN KATZ:     Thank you, Dr.  
2     DalPan.

3                   Now, there are a lot of issues to discuss  
4     here, and what I'm going to try to do with the help  
5     and support of the committee, which I'm sure that I'll  
6     have, is to focus the question in some clear way.

7                   What I'd like to do, first of all, Mr.  
8     DalPan, is to ask if there are any specific questions  
9     from anybody around the table about the content that  
10    Dr. DalPan presented just now before we actually get  
11    to answering the questions.

12                  (No response.)

13                  ACTING CHAIRMAN KATZ:     Well, that was  
14    easier than I thought.

15                  What I'd like to do now is to proceed with  
16    addressing the questions, and what I'll do is I'll  
17    repose the questions that Dr. DalPan has asked and  
18    which are reflected in the briefing materials that  
19    everybody received. I will repose each question in  
20    what I think will be a semi-focused way, and I'll hope  
21    that everybody will help me by focusing on the issue  
22    at hand as much as these issues are all really  
23    interrelated.

24                  And what I would ask the people on the  
25    committee to do in your response is to try to focus

1 primarily on the clinical issues that need to be  
2 reflected in the clinical trials rather than come up  
3 with a specific prescription, like, oh, you should do  
4 a cross-over trial for this or obviously the trial  
5 should be four months or something like that, because  
6 that's going to be less useful for the discussion.

7 So try to bring out the clinical issues  
8 that we need to understand better with our clinical  
9 trials will be of most use to us.

10 Let me begin as follows. I'd like the  
11 group to discuss the issue of what determines whether  
12 a patient with chronic non-cancer pain should receive  
13 opioids. It seems clear from the statements that  
14 we've heard from our speakers already that the use of  
15 opioids for long term in patients with cancer pain  
16 falls within the general consensus of therapy these  
17 days, as well as for severe acute pain.

18 But where many of the issues arise that  
19 need to be reflected in our clinical trials is in the  
20 use for chronic non-cancer pain.

21 So the first thing I'd like us to address  
22 is what determines in clinical practice whether a  
23 patient with chronic non-cancer pain is or is not  
24 appropriate for opioid therapy, and does that actually  
25 reflect who gets opioid therapy in clinical practice?

1 Dr. Portenoy, why don't you start since it  
2 leads directly from the slide that you showed us  
3 before?

4 The question: what determine which  
5 patient with chronic non-cancer pain is appropriate or  
6 not for long-term opioid therapy?

7 DR. PORTENOY: In clinical practice?

8 ACTING CHAIRMAN KATZ: In clinical  
9 practice.

10 DR. PORTENOY: Well, clearly part of the  
11 issue is the expressed severity of the pain. So  
12 patients who have moderate to severe pain might be  
13 considered candidates for trial of opioid therapy.

14 Other issues that play into the decision  
15 in the clinical arena is whether or not there's a  
16 reasonable expectation that an opioid drug is the best  
17 drug. A good example of that might be, for example,  
18 patients with trigeminal neuralgia. There are some  
19 patients with trigeminal neuralgia who say that  
20 opioids are helpful, but there's a large experience  
21 and lots of clinical trials to suggest that aborting  
22 that kind of pain syndrome might be better  
23 accomplished with an anti-convulsant drug with an  
24 opioid drug.

25 So the necessity of considering the type

1 of pain syndrome, the severity of the pain, and then  
2 these other factors that I talked about before, what  
3 is conventional practice with respect to that patient  
4 population and pain syndrome? What is the likelihood  
5 of adverse events given the patient's medical co-  
6 morbidities?

7 The decision to pursue opioid therapy, for  
8 example might be more difficult if the patient has  
9 severe chronic obstructive pulmonary disease than if  
10 the patient doesn't.

11 And then finally, what's the likelihood  
12 that the patient will be a responsible drug taker?

13 ACTING CHAIRMAN KATZ: Maybe you could  
14 just elaborate on that a little bit before we go on.  
15 Are there any specific types of patients or types of  
16 syndromes or populations that you feel a priori would  
17 generally not be appropriate for long-term opioid  
18 therapy in the nonmalignant pain arena?

19 DR. PORTENOY: Again, I think speaking --  
20 this is very impressionistic, but I'm not comfortable  
21 with the concept of not appropriate. In other words,  
22 to frame the discussion in terms of contraindications,  
23 I don't think we have enough data or clinical  
24 experience to do that.

25 But we can frame the discussion in terms

1 of the skills of the providers and the characteristics  
2 of the population. For example, a pain specialist  
3 might be much more willing to begin an opioid therapy  
4 in a patient who has some history of substance abuse  
5 than a primary care provider may be willing to do  
6 because the pain specialist either by experience or by  
7 the infrastructure that the clinic provides him or her  
8 would be able to monitor that patient more effectively  
9 and pick up aberrant drug related behaviors and deal  
10 with them much better than a primary care provider  
11 would.

12 So a previous history of substance abuse,  
13 in the literature some guidelines would say those  
14 patients shouldn't get opioid drugs. That's clearly  
15 not an appropriate stance. Some patients with even  
16 active abuse should be considered for opioid therapy,  
17 but it has to be done in the context of a prescribing  
18 that accounts for that co-morbidity.

19 So you have to reframe the question a  
20 little bit. You say in the new world of primary care  
21 providers giving patients with low back pain and  
22 osteoarthritis of the shoulder and need opioid therapy  
23 on a long-term basis, are there subpopulations that  
24 would raise such concerns that the primary care  
25 provider should consider referring.

1           And I think, again, I'm not a primary care  
2 provider, and some of the people around the table  
3 would be able to address that better than I could, but  
4 I think you can begin to say that there may be  
5 predictors of more problematic clinical outcomes that  
6 would suggest that a patient shouldn't be started on  
7 therapy by a less skilled primary care provider, but  
8 instead should be referred to a specialist, and that  
9 might include active abuse. That might include abuse  
10 of a known addiction to an opioid. It might include  
11 social disruption, lack of family support. It might  
12 include very severe psychiatric disorders of certain  
13 types, access to disorders that are very problematic  
14 where impulsive drug taking seems to be a major issue.  
15       It may include all of those kinds of factors.

16           ACTING CHAIRMAN KATZ: So if I can distill  
17 out from what you're saying some take-home points,  
18 correct me if I'm misunderstanding. It sounds like  
19 what you're saying is that appropriate pharmacotherapy  
20 with opioids depends not only upon the patient and the  
21 drug, but also it depends upon the treatment setting  
22 and maybe even the patient's home setting.

23           DR. PORTENOY: Oh, yeah, I think that's  
24 absolutely true. Again, if you're not talking about  
25 the kinds of trials that have to be done in order to

1 establish safety and efficacy, but you're talking  
2 about what's going to happen when that drug hits the  
3 market, there's no question in my mind that you have  
4 to talk about the knowledge and skills of the provider  
5 community, and you have to talk about characteristics  
6 of the patient population and the pain syndrome as  
7 factors that might determine whether it's less or more  
8 appropriate to consider prescribing.

9 ACTING CHAIRMAN KATZ: Thank you.

10 Jeff Bloom, you're next.

11 DR. BLOOM: Thank you.

12 Unfortunately, the Oncology Nursing  
13 Society wasn't here to testify during the open public  
14 hearing, but I would refer the committee to their  
15 documents which I thought were excellent, and one of  
16 the points that they made that I think is a very  
17 similar point is that pain treatment decisions should  
18 be based on the nature of the pain, the pain  
19 intensity, and a response to treatment whether the  
20 cause of the pain has a malignant or nonmalignant  
21 origin.

22 And in that case, you would be capturing  
23 almost everybody instead of parsing people out into  
24 different subgroups, but we're actually getting into  
25 the root of, you know, how to treat pain in a broader



1 context, and we can bring this up in a different  
2 discussion because it perhaps is not the appropriate  
3 time for this now.

4 But we do have federal guidelines that  
5 were developed from Johns Hopkins, Dr. Bartlett's  
6 good, hard work, for the treatment of HIV and AIDS  
7 that even though they are treatment guidelines have  
8 become de facto the standard of care for almost  
9 everybody, for all the states, for all the state  
10 programs, and also for third party payers.

11 And given the wealth of information that  
12 Dr. Portenoy pointed out in terms of what we have in  
13 terms of good information about appropriate pain  
14 management and pain care, perhaps the time has come  
15 for HHS to consider convening the similar kind of  
16 thing as we've done with HIV and AIDS and come out  
17 with federal treatment guidelines for pain management  
18 so that it gives the flexibility of people to make  
19 choices, but it provides much better guidance based on  
20 good, sound information.

21 Because if we wait for studies to occur,  
22 people will go untreated forever, and if we waited for  
23 studies to be finished to treat people with AIDS,  
24 people with AIDS would be dying waiting for the  
25 studies to be finished.

1                   And I think there's probably a lot of  
2 literature, and as Dr. Portenoy pointed out, there are  
3 fundamental, sound principles that are basic to pain  
4 management now.

5                   ACTING CHAIRMAN KATZ: Thank you.

6                   Dr. Foley, you were next.

7                   DR. FOLEY: I think I'm a little bit  
8 confused of what we're talking about here. Are we  
9 talking about target populations in clinical trials or  
10 are we talking about target populations for treatment?

11                  ACTING CHAIRMAN KATZ: We're talking about  
12 target populations for treatment which one would think  
13 ultimately will need to be reflected in the clinical  
14 trial process one way or another, but the first step  
15 is to help this division of the FDA understand how  
16 opioids are most appropriately used in clinical  
17 practice, and then from there try to figure out how  
18 the clinical trials ought to inform that ultimate  
19 practice.

20                  DR. FOLEY: Well, then I would argue that  
21 we have insufficient research to know what patient  
22 populations would be appropriate for these therapies  
23 and that we have an enormous amount of bias and lack  
24 of knowledge and lack of education that is creating  
25 the sort of mythology about all of this in which we

1 think that that might be the case and isn't the case.

2 And so I have a great concern that we  
3 don't have data about patients who have a previous  
4 history of drug abuse, who develop a pain problem or  
5 develop cancer and what the risk is. We have little  
6 data about those with a history of alcoholism and then  
7 what their risk is. We have little data and a lot of  
8 anecdotes about an AIDS population who does very well  
9 with a previous history of drug abuse when they have  
10 an AIDS pain problem that they do not develop abuse.

11 So I think we don't have that kind of  
12 framing, and I'm afraid that we're going to fall into  
13 the lack of knowledge, and we're going to sort of go  
14 with common practice, and we've all agreed that the  
15 current practice is persistently under treatment and  
16 fear of prescribing.

17 So I'm not trying to make your job harder,  
18 but I do think that if we buy into these  
19 misconceptions, we're going to have to live with them,  
20 and we need to do something better than that.

21 ACTING CHAIRMAN KATZ: Dr. Portenoy,  
22 response?

23 DR. PORTENOY: I basically agree, although  
24 I think that it's important to understand the  
25 challenge also. If we in clinical practice make

1 decisions about opioid prescribing based on  
2 perceptions related to risk of addictive behaviors,  
3 risk of aberrant behaviors and we know that the  
4 clinical trials typically have substance abuse  
5 behaviors as an exclusion criterion, then you know  
6 that the labeling that will ultimately come from that  
7 either has to very overtly have to say that these  
8 patients were excluded so that the clinical practice  
9 issues that may relate to that population can't be  
10 addressed by these data or we have to think of another  
11 way of doing studies that would allow us to address  
12 the questions more directly so that the labels can be  
13 done.

14 So I basically agree with Kathy, but I  
15 think you have to -- I see where you're going and with  
16 support in the sense that we have clinical trial  
17 designs that have been used to get many of these drugs  
18 on the market. We have indications and labels that  
19 have been developed in the design, and then we have a  
20 clinical practice that's been galloping along  
21 seemingly unrelated to what those clinical trials have  
22 been.

23 And to bring them together we have to talk  
24 about what the consensus is.

25 ACTING CHAIRMAN KATZ: Let me just remind

1 folks to turn their mics off when they're done  
2 speaking again, and, Dr. Ashburn, you were next.

3 DR. ASHBURN: Thank you very much.

4 I had a couple of comments regarding your  
5 initial question and comment and then wanted to talk a  
6 little bit more about what Dr. Foley just mentioned.

7 First of all, the practice of medicine, as  
8 everyone who practices medicine knows, is partially  
9 evidence based. Those of us who do it every day  
10 recognize that it's less evidence based than we would  
11 like to admit.

12 We unfortunately make decisions based on  
13 anecdote, and sometimes we forget that the plural of  
14 anecdote is not data, and that frequently --

15 (Laughter.)

16 DR. ASHBURN: -- making decisions based on  
17 our own personal observations leads us to make  
18 decisions that may not be evidence based or truly data  
19 driven.

20 The other one that's important to know  
21 when you're talking about designing trials in patients  
22 with chronic pain, we've almost kind of gone towards  
23 that a little bit in this discussion. This is a focus  
24 on the use of pharmacologic agents in that physicians  
25 tend to always think about a drug interacting with the

1 receptor to block a no susceptor pathway that treats  
2 pain, and in fact, pain is a much more complex  
3 disorder. It is almost always more than just a  
4 disturbance of biological function within the body.

5 And pain care has to be done in the  
6 context of a biopsychosocial model of pain care.  
7 Pharmacologic management, including the use of  
8 opioids, can play an important role in the care, but  
9 also aggressive activating physical therapy changes in  
10 life styles, cognitive behavior therapy, addressing  
11 the psychosocial environment that those individuals  
12 live in and the impact that we've heard from our open  
13 public session of pain experience in individuals'  
14 lives is important to address, and simply giving  
15 opioids is unlikely to lead to long-term benefit from  
16 that.

17 Now, why is that important to recognize?  
18 Because it's important to recognize that designing  
19 these clinical trials is extremely difficult, and we  
20 have to eventually extrapolate looking at individuals  
21 that seem to have common themes and then identify  
22 whether or not the drug is safe and efficacious in  
23 those environments, and then as best we can, try to  
24 extrapolate that knowledge over to other areas.

25 But even limited areas like OA of the knee

1 and the hip, which may be mainly no susceptible versus  
2 chronic low back pain, which clearly can have a  
3 biopsychosocial component make doing those studies  
4 difficult.

5 And last, I'm conflicted a little bit  
6 about some of the things that Dr. Portenoy said. I  
7 was going to spell your name out for the regulators  
8 based on your other remark, but I wanted to mention a  
9 little bit about the role between specialists and  
10 primary care physicians with regard to the use of  
11 these medications.

12 When you get right down to it, the use of  
13 these medications is very similar to the use of the  
14 medications of different classes. One needs to do a  
15 history and physical. One needs to make a diagnosis,  
16 and then develop a treatment plan, implement that  
17 treatment plan, follow how the patient responds to  
18 that treatment plan, and then make adjustments as  
19 necessary.

20 It's an ongoing, fluid, active process,  
21 not a one time intervention or acute process. It's no  
22 different than when one is treating hypertension. As  
23 Dr. Portenoy mentioned, if a physician, whether  
24 they're a specialist or not, does not have the skill  
25 set necessary to make the diagnosis of hypertension

1 and treat it appropriately, then it ought not be part  
2 of their clinical practice.

3 It does not matter whether or not one is a  
4 specialist or whether one is a primary care physician.

5 What matters is whether or not that individual has  
6 the skills necessary to treat that particular  
7 condition.

8 I have concerns about discussions or  
9 movements towards having a primary care or a pain  
10 center focus and that the recent events regarding  
11 concerns about diversion of Oxycontin caused a lot of  
12 primary care physicians to back away from prescribing  
13 potent opioids.

14 As a result, many specialists, including  
15 myself, were receiving ten to 15 referrals a day by  
16 patients who were desperate to get in to receive that  
17 care, and we simply cannot take care of all those  
18 individuals.

19 So we need to have some caution with  
20 regard to how we try to approach that issue.

21 ACTING CHAIRMAN KATZ: Dr. Connolly.

22 DR. CONNOLLY: Yes. I essentially want to  
23 -- who spoke about the oncology nursing society.  
24 We're talking very individually about individual  
25 physicians managing pain, but I think nursing and



1 nursing studies have shown that the management of pain  
2 is a team approach.

3 And Margot McCaffrey has been a nursing  
4 leader in pain management for several decades now, and  
5 she early on defined pain as pain is anything the  
6 patient says it is.

7 I agree very much with our last speaker in  
8 that there is the psychosocial piece. So it really is  
9 a team approach. So if we're going to set up a study  
10 and with a target population, we need to include those  
11 folks who have been very, very active in setting up  
12 guidelines and in studying pain management.

13 Pain resource nurses, advanced practice  
14 nurses, clinical pharm. D.s, psychologists and social  
15 workers.

16 ACTING CHAIRMAN KATZ: Mitchell?

17 DR. MAX: Regarding Dr. DalPan's two  
18 questions, he first asked which models should we  
19 study. Which are the patients for opioids?

20 And the academically correct answer is the  
21 ones with the right mechanism. The truth about that  
22 though is that even though a lot of us in the room  
23 have spent 20 years trying to find defined pain  
24 mechanisms in patients, we've really been groping and  
25 had very little success, and the RAD doctors are way

1 ahead of us.

2 And Clifford Woolf and I reviewed this in  
3 Anesthesiologist in July. We looked at all of the  
4 attempts to define pain mechanisms in people, and  
5 there are only two ways of getting at it. One is to  
6 take what you mentioned, people with objectively  
7 verifiable lesions and put them together and compare  
8 responses of different drugs or responses of different  
9 pain conditions, and occasionally there's been a hit  
10 there.

11 Like for instance, it looks like just from  
12 a few trials the gabapentin and son of gabapentin  
13 works in peripheral neuropathic pain, but doesn't work  
14 in OA and back pain. So there is some tissue  
15 difference.

16 So, you know, it seems to make sense to  
17 look at homogeneous groups with tissues overall, but  
18 there's a much stronger way to identify mechanism  
19 within any group. We all know that some patients  
20 respond to any drug and a lot don't, and there have  
21 been a number of groups who have gone back and done  
22 rechallenge enriched enrollment and found that small  
23 or medium size subgroups consistently respond within  
24 any group. So I think within any diagnostic group it  
25 may be a smaller number; it may be a larger number.

1 There are going to be some people who really respond  
2 to opioids.

3 So probably the best way to identify  
4 people that would be good for some types of further  
5 study would be to give them a short trial of opioids,  
6 identify opioid responders.

7 Then to your next question of should we do  
8 long studies, here, I mean, there are a lot of  
9 important questions in coming up with a risk balance  
10 ratio, and one issue is after six months or a year  
11 does the pain relief wear off and you're just hooked?

12 I mean, what are the side effects?

13 And here there's absolutely no  
14 academically supported data, and these studies are  
15 very hard to do, and maybe you could do them if you  
16 took the enriched patients who really responded and  
17 gave them a low dose or a high dose for this long,  
18 long time.

19 But I don't know if every drug company  
20 that wants to get a drug approved should have to do  
21 these precedent setting studies. This is just a weird  
22 anomaly that as Kathy Foley has shown in an IOM report  
23 that's just out, we've spent about half of a percent  
24 of the public budget on pain, and this is strange.  
25 Industry has been way out ahead, spending, you know,

1 probably ten or 20 percent of their budget on  
2 symptoms. So it's no surprise that marketing and  
3 industrial development is way ahead of the fundamental  
4 issue.

5 So I think perhaps there's some way of  
6 getting NIH -- they haven't before -- but getting  
7 monies for them to do in a few drugs, a few model  
8 drugs, what happens, what's tolerance at six months, a  
9 year? What are the side effects? And not have these  
10 repeated with every compound that comes along.

11 Certainly for every drug you need some  
12 sort of epidemiological survey of bad addiction and  
13 bad occurrences.

14 ACTING CHAIRMAN KATZ: Dr. Smiley? Dr.  
15 Horlocker? Dr. Roberts?

16 DR. ROBERTS: Thank you.

17 Let me begin just by asking the others  
18 around the U-shaped table: is there anyone else here  
19 who would consider him or herself a primary care  
20 clinician?

21 (Show of hands.)

22 DR. ROBERTS: So we have one. Okay. It's  
23 probably appropriate we're sitting across from each  
24 other.

25 (Laughter.)

1 DR. ROBERTS: Let me -- it's been  
2 interesting listening to this discussion. My sense is  
3 that most of us from around the table are from  
4 academic medical centers, and let us -- let me share  
5 with you kind of where we fit in the universe of  
6 health care in the United States.

7 There are about 820 million visits to  
8 doctors annually in the United States. A little more  
9 than half of those are to primary care physicians who  
10 comprise one out of four U.S. doctors. Now, many of  
11 you aren't even sure what a primary care doctor is.  
12 You're kind of struggling with what to call us, and  
13 indeed, we are multiple specialties that come to that  
14 kind of practice, family doctors, general internists,  
15 general pediatricians.

16 But the one out of four of us that are  
17 U.S. doctors doing this, taking care of more than one  
18 out of two visits wonder sometimes what the other  
19 three out of four docs do with their time.

20 (Laughter.)

21 DR. ROBERTS: Let me get a little more  
22 specific about pain. Dr. Portenoy was kind enough to  
23 share some estimates. He estimated that there are  
24 about 15 percent of Americans who suffer from some  
25 kind of chronic pain problem. So I would calculate

1 that to be about 42 million Americans.

2 The average American goes to their doctor  
3 about three times a year. That's all comers, all  
4 problems, all ages. You could probably speculate that  
5 these people are going to see their doctors more often  
6 than that understandably, but for rounding off  
7 purposes, let's say about 160 million visits a year to  
8 doctors for pain, chronic pain, and I'm not even  
9 talking about acute pain.

10 He was also kind enough to share there are  
11 about 4,000 pain specialists, and they probably  
12 average about 4,000 visits a year. That's 16 million  
13 visits out of 160 million for chronic pain. They're  
14 seeing about ten percent of the visits.

15 Who are the experts here?

16 (Laughter.)

17 DR. ROBERTS: Academic medical centers  
18 provide less than .1 percent of the health care in the  
19 United States if you look at numbers of visits. I  
20 know. It showed me, too, when I saw it. New England  
21 Journal, July, this year, past year.

22 So one of the things I would say to you is  
23 we're very quick to turn to our last bad case of  
24 referral and generalize from that to global statements  
25 about how good or bad a job people are doing out

1 there.

2           And what I would also share with you is  
3 the experience around guideline development often  
4 overlooks that problem. For instance, when HLBI came  
5 out with their first set of hypertension guidelines in  
6 the late 1960s, nobody followed them. Why? Because  
7 it was basically written by referral academic  
8 cardiologists/nephrologists for whom 25 percent of  
9 their patients had a secondary or curable cause of  
10 hypertension.

11           When they went out and did population  
12 based studies, it was less than three to five percent.  
13 So those of us that were not following those early  
14 guidelines to do angiograms on everybody were, in  
15 fact, doing the public a great service.

16           So one of the other things I'd ask you to  
17 reflect on is the challenge for me in the trenches is  
18 when I hear what the experts advise, whether it year's  
19 statement about opioid use versus 20 years ago when  
20 the experts thought they had it right by avoiding  
21 opioids, my challenge is to not only consider  
22 pharmacologic therapy, but all the other seven non-  
23 pharmacologic approaches to management of the problem,  
24 and to do it in the context of this person, his or her  
25 life, their family, their community.

1           And so while many of you will be very  
2 expert at the nuance of opioid prescribing, I am  
3 expert at this person, and we've been reminded this  
4 morning that this kind of therapy is very  
5 individualized.

6           So what to do with all of this? Well, one  
7 of my pieces of advice, answering the question before  
8 us about how to better understand this is do the  
9 research where the people are, and there are, indeed,  
10 a number of practice based research networks that are  
11 developing around the country that represent now about  
12 120 million Americans being cared for through the  
13 primary care doctors' offices, and begin to do some  
14 studies particularly in the primary care setting.  
15 There are essentially -- and I have an expert in my  
16 department, a family doctor who is an expert on  
17 addiction and pain; there are no studies in this area.

18           And my fear is not that the plural of  
19 anecdote is data. The plural of anecdote  
20 unfortunately is policy.

21           (Laughter.)

22           ACTING CHAIRMAN KATZ: Dr. Schechter.

23           DR. SCHECHTER: Yeah, thanks.

24           I want to bring this discussion in a  
25 slightly different direction in terms of question



1 number two, in terms of chronic pain, and really speak  
2 specifically for a population that I'm familiar with,  
3 which is the pediatric population, and because we have  
4 an additional complexity in that population of a  
5 developing brain with pruning going on,  
6 nusenathogenesis (phonetic), prefrontal lobes.

7 If anybody has watched the PBS series on  
8 the brain about the teenage brain which they said was  
9 pretty complicated and understandable, and I think  
10 that that really speaks to a lot of the sorts of  
11 issues that we're dealing with right now.

12 So there is no data, and we're starting to  
13 use opioids frequently, especially in newborns who are  
14 on sedation for prolonged periods of time in  
15 institutions. There's really no data on that sort of  
16 long-term.

17 What happens to that population  
18 subsequently, there's certainly a number of people who  
19 have tried to address it, and there's a lot of  
20 theoretical models, but it brings us some concern  
21 because not only are we talking about chronic pain,  
22 and we do use opioids for chronic pain in children,  
23 but even on prolonged acute pain, if you will,  
24 whatever that terminology would be. We have real  
25 concerns about that.

1           Having said that, we feel the need to  
2 proceed and clinically treat who we see and provide  
3 human and compassionate care as we define it now, but  
4 that's an area of significant need.

5           The other thing I wanted to just address  
6 for just a second is the sort of primary care aspects  
7 of this. I've had a lot of concerns about the  
8 comparatmentalization of pain care over the past few  
9 years, and I think that that was necessary certainly  
10 for the development of the field for research, multi-  
11 disciplinary pain centers to evolve and provide new  
12 models and new research in this whole area.

13           But unfortunately it does centralize in a  
14 certain way pain to a subset -- management to a subset  
15 of patients who can see a pain specialist, and we've  
16 put a lot of our energies, for example, into  
17 broadening that so that there's a systemic approach to  
18 pain within institutions so that everyone -- it's  
19 considered that it's not merely if you happen to get a  
20 referral to the pain specialist, but for broader sorts  
21 of issues so that everybody who walks through the  
22 door, if you will, this is a consideration. It's not  
23 necessarily opioid driven, but certainly the whole  
24 issue of thinking about pain in all of its contacts.

25           And the final thing I wanted to mention in

1 terms of, again, what you had suggested is that seeing  
2 or our feeling about -- my feeling from the clinical  
3 side, again -- this is the consensus of the small  
4 number of pediatric pain specialists which I think  
5 parallels the adult chronic pain literature, which is  
6 that opioids need to be in the context of an overall  
7 treatment plan. It shouldn't be just a smorgasbord  
8 that you pick and choose which elements that you want,  
9 and if you only want the opioids, then that's fine.

10 We do think that there sort of needs to be  
11 a comprehensive matrix for which this is understood  
12 and appreciated and otherwise we're very anxious  
13 about treating.

14 ACTING CHAIRMAN KATZ: Thanks.

15 Dr. Rappaport.

16 DR. RAPPAPORT: I'd like to try to focus  
17 back on the first question a little bit. Everything  
18 that we've heard is very useful to us in evaluating  
19 clinical trial designs, but as Dr. Portenoy was  
20 saying, we have to look at the translation of the  
21 clinical practice into things like an inclusion and  
22 exclusion criteria in the trials and whether they're  
23 appropriate.

24 And we get concerned sometimes that if  
25 those aren't accurate, perhaps the clinical trials are

1 driving medical use rather than vice versa. So I  
2 would appreciate hearing from all of you ways that we  
3 can accurately translate this lack of information  
4 that, as Dr. Foley said, and the lack of data, as Dr.  
5 Max said, that's out there.

6 But there's sort of a clinical sense about  
7 who the right patient is. How do we translate that  
8 into inclusion and exclusion criteria and the right  
9 population for a clinical trial both in adult and  
10 pediatric patients?

11 ACTING CHAIRMAN KATZ: Yes, Dr.  
12 McNicholas, why don't we start with you?

13 DR. McNICHOLAS: Okay. I think that part  
14 of the problem here is you're asking for a definition  
15 of who the right patient is, and when it comes right  
16 down to it, the right patient to be considered for  
17 opioid treatment is the patient who hurts.

18 You may decide that the patient is not  
19 appropriate for opiates, but that's the person that  
20 you start thinking about this with. And then you  
21 start looking at why do they hurt. What else goes  
22 into it? How are they going to handle it? How are  
23 they going to handle the pain? How are they going to  
24 handle the medications?

25 And we don't have a lot of good

1 definitions for this. So I think that actually coming  
2 back to -- I'm sorry. Your name? Pardon me?

3 DR. McNICHOLAS: I can't even go by tie.  
4 They're dressed alike.

5 (Laughter.)

6 DR. McNICHOLAS: Not Dr. Portenoy.

7 PARTICIPANT: Glasses or no glasses?

8 DR. McNICHOLAS: No glasses.

9 DR. ROBERTS: Dr. Roberts.

10 DR. McNICHOLAS: Dr. Roberts.

11 There are millions of patients out there  
12 who come in with a pain complaint. Does every patient  
13 get opiates? No. Is every patient appropriate for  
14 opiates? No.

15 Does it go through the physician's mind?  
16 Yes, as to whether or not you're going to use it.

17 In some ways I'm not sure what the  
18 question is that the FDA wants us to answer here.

19 ACTING CHAIRMAN KATZ: Who do you include  
20 in your trial.

21 DR. McNICHOLAS: Patients who have pain;  
22 patients who hurt.

23 ACTING CHAIRMAN KATZ: Okay. So let's  
24 take that to the next step because that leads to  
25 further problems because would you then advocate in

1 most or all clinical trials for chronic pain  
2 incorporating a heterogeneous hodgepodge of different  
3 patients who have essentially the single entry  
4 criterion of pain, or would anybody advocate honing  
5 down that population further?

6 Let's hear a response from Dr. McNicholas  
7 and then we'll go on.

8 DR. McNICHOLAS: Okay. I think you do  
9 have to hone it down, but I think that the honing down  
10 comes once you have defined what the question is that  
11 you want answered.

12 Do you want a drug available for people  
13 who hurt or do you want a drug that you are looking  
14 for a specific indication?

15 For instance, osteoarthritis or low back  
16 pain or whatever the situation is, and then you may or  
17 may not start looking at the facets that go into  
18 treating that patient. For instance, the patient with  
19 low back pain, is there a physiologic reason for low  
20 back pain? What other treatments have they failed, et  
21 cetera? How have they managed their pain?

22 Because I see -- I get pain referrals.  
23 Frankly, I get a lot of the pain referrals when  
24 primary care docs go, "I don't know what I'm doing  
25 with this guy," and it's not just primary care docs.

1 I don't want to pick on Dr. Roberts or anybody else on  
2 that, but it's like I keep using more medication, and  
3 I'm not getting anywhere. And they still say that  
4 their back hurts.

5 Well, yeah, their back hurts, and the fact  
6 of the matter is their back is always going to hurt.  
7 Now, how are they managing the pain?

8 And they may or may not have had  
9 appropriate intervention, and that's the other thing,  
10 not only who do you pick for a trial, but what is the  
11 form of the trial? Does the trial mandate other  
12 interventions, physical rehabilitation, cognitive  
13 behavioral therapy, other coping mechanisms, et  
14 cetera? Those that people who treat pain  
15 appropriately look at all the time.

16 And so I think that you have to much more  
17 focus the question on what the trial wants to  
18 accomplish.

19 ACTING CHAIRMAN KATZ: The list got all  
20 messed up because we changed topics. So let me  
21 apologize for that. We're scratching out the whole  
22 list, and let's start fresh. Dr. Holmboe.

23 DR. HOLMBOE: I just want to raise a  
24 couple of points. The first would be when you're  
25 talking about the target population, we've been

1 spending a lot of time focusing on the skills of the  
2 physician.

3 I would also caution the FDA to also think  
4 about the skills of the patient and how do you prepare  
5 the patient to be skillful in taking the medication.

6 There are a number of issues that often  
7 get left out in these trials that aren't addressed,  
8 particularly the issues of health literacy, and also  
9 the issue of numeracy. So we're talking about, you  
10 know, a drug that has a risk-benefit ratio that may be  
11 difficult.

12 Part of the things we need to look at in  
13 these trials that really haven't been done very well  
14 before is where are the patients with regard to  
15 literacy and numeracy and how does that impact the use  
16 of these medications.

17 The second thing that really gets to  
18 Laura's point is that in a sense what you're really  
19 considering is a complex health intervention here, and  
20 that becomes very difficult because we like to be very  
21 reductionistic and like to say, "I just want to focus  
22 on this because I want to take everything out," and so  
23 most of our randomized controlled trials really focus  
24 on efficacy.

25 What we're really trying to get at here,



1 and I think what people are really struggling with is  
2 is it efficacy or is it effectiveness. They're  
3 different from an epidemiologic point of view.

4 I think what we're talking about was  
5 effectiveness out on the real world as Dr. Roberts got  
6 at. When you look at those conflicts and  
7 interventions, it's going to be very important in  
8 trials to define exactly what the intervention is.

9 And so I think that's the other challenge  
10 to think about when you're designing these trials.

11 My last point would be, just getting back  
12 to Dr. Roberts, is that there's also models that we  
13 can use with regard to taking research into the  
14 community, and it really comes from the substance  
15 abuse literature, bupamorphine being an example where  
16 a lot of work has been done in the out-patient setting  
17 in the community, and that may be a model to look at  
18 with regard to studying the use of opiates for chronic  
19 pain.

20 ACTING CHAIRMAN KATZ: Dr. Reidenburg is  
21 next.

22 DR. REIDENBURG: Yeah. I think that you  
23 raised a good point of efficacy versus effectiveness,  
24 and at least when I look at data in other areas of  
25 medicine, the first thing I want to see is efficacy.

1 Effectiveness includes many factors or influences  
2 totally independent of the drug's pharmacology.

3 I would say to address the question that  
4 the primary thing we need to know is efficacy. I want  
5 to know dose response in terms of adverse effects at  
6 doses that produce efficacy. Effectiveness is more a  
7 general medical problem that we have to deal with in  
8 context.

9 And I think that where clinical trials can  
10 give me clear data on efficacy and on the adverse  
11 effects that I have to pay for that efficacy, I'm  
12 happy to have this evidence.

13 ACTING CHAIRMAN KATZ: Dr. Max.

14 DR. MAX: To address Dr. Rappaport's  
15 question of inclusion or exclusion criteria for  
16 patients, I just read yesterday Paul Delamine is a  
17 Dutch researcher who's done a lot of opioid and non-  
18 malignant pain work, and he suggested -- he said,  
19 "Well, we had a lot of patients in our trials with  
20 neuropathic pain responding, but the ones that aren't  
21 good for opioids are the ones with idiopathic pain.

22 Now, I don't quite like that because it's  
23 kind of vague, and also about 70 or 80 percent of  
24 people with chronic back pain really have idiopathic  
25 pain. There's no clue till we look at Deyno's New

1 England Journal review, Deyno and Weinstein, a few  
2 months ago.

3           But you can actually get to something a  
4 little more refined. There's a marvelous issue  
5 supplement of the Annals of Internal Medicine in May  
6 2001, I think, by Kurt Kroenke, K-r-o-e-n-k-e, on  
7 symptoms in primary care, and he and Spitzer have  
8 taken the prime -- it's a general medical diagnosis  
9 study; taken 1,000 patients and devised a new  
10 diagnosis for primary care called multi-somatiform  
11 disorder that's much easier to get into than the  
12 classic somatiform disorder.

13           Nine percent of people who walk into a  
14 general primary care office have it, and there are  
15 people with three or more unexplained symptoms, and  
16 they respond in study after study differently from  
17 many other patients, and they have a very high rate of  
18 affective disorders lifetime.

19           At this conference some of the -- many of  
20 the patients with fibromyalgia and interstitial  
21 cystitis and so on respond. So this may be an  
22 interesting distinction that has been very well  
23 validated to study because there are many different  
24 loadings.

25           I think we've already heard from some

1 multi -- from people with multiple unexplained  
2 symptoms that get response to opioids, but that would  
3 be a good literature to look at.

4 ACTING CHAIRMAN KATZ: I'd like to pursue  
5 Dr. Reidenburg's efficacy versus effectiveness  
6 distinction. Many people around the table have  
7 already stated that proper pain management often  
8 requires a multi-disciplinary approach, consideration  
9 of family factors, treatment settings, et cetera,  
10 which would, I think, fall more into what you're  
11 calling effectiveness.

12 Whereas efficacy is when we look for more  
13 of a pure pharmacological response and a more  
14 homogeneous population in trying to control as much as  
15 possible for these factors that are extrinsic to the  
16 pharmacological properties of the drug.

17 Do people feel that efficacy trials are  
18 enough in a clinical development program or do we also  
19 need effectiveness trials in a clinical development  
20 program with an opioid?

21 Dr. Foley?

22 DR. FOLEY: I would argue for efficacy  
23 studies first, and I would argue for efficacy studies  
24 in various disease models where the questions were  
25 unresolved, and attempting to make the study as clean

1 as possible by focusing on specific populations.

2 So the kinds of models and studies that,  
3 in fact, Mitchell has done, among others, is using a  
4 model such as post herpetic neuralgia, which could be  
5 a mixed somatic and neuropathic model, but is a rather  
6 profoundly neuropathic model.

7 We're looking at peripheral neuropathy or  
8 looking at osteoarthritis. The minute you move to the  
9 more sort of general, diffuse chronic pain syndromes  
10 or you move to fibromyalgia or more complicated  
11 studies like that, one could argue that what you would  
12 like to build into that efficacy study is a much more  
13 sophisticated understanding of the quality of life and  
14 the psychological make-ups of that population.

15 But by looking at each of those, it would  
16 at least advance the field forward for what were the  
17 role of opioids in large populations of patients with  
18 fibromyalgia that the primary care physicians are  
19 seeing of osteoarthritis, and one could do it joint by  
20 joint and disease by disease of certain types of  
21 neuropathic pain.

22 And I would argue that putting those  
23 trials together in that kind of way would help move us  
24 forward using the extraordinary data that currently  
25 exists on studying opioids and the methodologies that

1 have been put together over a long, long history that  
2 one chooses; that the opioid is based on the intensity  
3 of pain, and this comes out of wide clinical trials  
4 that compared low doses and high doses of various  
5 opioids for mild, moderate and severe pain and  
6 developed a methodology around that construct.

7 So there is an FDA sort of analgesic trial  
8 design looking at issues of intensity and looking at  
9 various potencies of drugs that is one piece and then  
10 looking at selected populations.

11 And I would then argue that if you wanted  
12 to ask very difficult patient questions is to look at  
13 the role of opioids in an HIV population with  
14 peripheral neuropathy who had a history of drug abuse.

15 And again, we have an IOM report that argued very  
16 strongly for supporting the kind of research in the  
17 drug addiction population to be able to better  
18 understand what their ability to and to compare their  
19 perspective on efficacy in that selected population  
20 with other general populations.

21 ACTING CHAIRMAN KATZ: Dr. Kweder.

22 DR. KWEDER: I want to step in here  
23 because I think you've laid out, Dr. Foley, exactly  
24 where our conundrum is, and one of the things that Dr.  
25 DalPan said was that historically when we have

1 approved opioids for marketing, the labeled indication  
2 is very broad, and there are many different kinds of  
3 studies that are often very focused efficacy trials  
4 that underlie those labeled indications.

5 And so part of our struggle is is that  
6 okay and how much do we need to be requiring prior to  
7 marketing in order to establish an evidence base for  
8 such a broad indication?

9 ACTING CHAIRMAN KATZ: Comments on that  
10 specific question? Dr. Smiley.

11 DR. SMILEY: Well, speaking not as a pain  
12 specialist, but also unfortunately not as a primary  
13 care physician -- somewhere in between, closer to the  
14 pain specialist, I guess -- it seems to me that one of  
15 the things that the FDA is asking us for is some kind  
16 of consensus among the physicians on the committee or  
17 the people on the committee.

18 And it does seem that there's a pretty  
19 broad consensus that opioids work for a broad variety  
20 of patients, broad variety of types of pain, and it  
21 does seem reasonable that in general the indications  
22 ought to be broad or the approval, the labeling ought  
23 to be broad.

24 I'm saying what a lot of people have said,  
25 and this microphone is behaving funny, but I'm doing

1 it because I think part of what you want is to see if  
2 there is a consensus. So I'd be happy to be  
3 contradicted by Dr. Foley or Dr. Portenoy or someone  
4 who knows a little bit more about pain than I do.

5 But it does seem that in general most pain  
6 syndromes are responsive to opioids that work, to  
7 doses that work in other studies, with some exceptions  
8 that, you know, we've heard some examples of and we  
9 all kind of know about.

10 But I would think that the indications  
11 ought to be relatively broad and that there's evidence  
12 that that's a reasonable way to go.

13 Now, what one then does to try to improve  
14 medical practice or even improve labeling is a little  
15 unclear, and some of that may be some comparison of  
16 relative efficacies of different drugs and different  
17 syndromes and seeing whether there are more  
18 similarities than differences in that. I would defer  
19 to people who study that as opposed to the things I  
20 look at.

21 ACTING CHAIRMAN KATZ: Holding aside the  
22 issue for the moment of what clinical trials should be  
23 done, is there consensus that people feel that  
24 labeling itself should be broad, in general that that  
25 should be the ultimate target, is to have a broad



1 label for something broad, chronic pain in general,  
2 chronic pain of certain severity?

3 Answers to that question? Dr. Max.

4 DR. MAX: Yeah.

5 ACTING CHAIRMAN KATZ: Dr. Portenoy?

6 DR. PORTENOY: Yeah, I think one of the  
7 very critical elements here is whether we're talking  
8 about pure mu agonist drugs usually in a new delivery  
9 kind of system or whether we're talking about novel  
10 drug agents, either some sort of a mixed opioid, non-  
11 opioid mechanism, or a non-opioid mechanism.

12 And I think if you have a drug that is a  
13 pure mu agonist kind of drug in a new kind of delivery  
14 system, then it would be very important for the  
15 clinical development scheme to answer the questions  
16 that are going to be appropriate, going to be  
17 important to clinicians, you know, the dose response,  
18 the relative potency with other known agonist drugs,  
19 the titratability of the drug.

20 And I think that long-term trials to look  
21 at tolerance are not appropriate. I think forcing a  
22 drug company to expand their study populations into  
23 those that include active abusers because the field is  
24 moving into that, the clinical field is moving in that  
25 direction, but other drugs of the same class have

1 never required those studies before. It doesn't seem  
2 appropriate.

3           And I think a broad label is very  
4 appropriate. At the same time, I would think that FDA  
5 should begin to encourage in all of these clinical  
6 trials industry to do more astute measurement of  
7 covariates because I think we're in the process of  
8 trying to understand the importance of covariates,  
9 including medical co-morbidity, psychiatric co-  
10 morbidities, including substance use disorders, as  
11 potential predictors of response.

12           And in some of the Phase IV survey data,  
13 the post marketing surveillance data that are so  
14 important to clinical practice, if we have good,  
15 astute, ongoing measurements of covariates, that's  
16 what clinical practice is based on largely.

17           As Mike Ashburn said, we like to think  
18 we're evidence based. I don't know how much of his  
19 practice is evidence based, but mine isn't much  
20 evidence based. And so if you show me a survey of  
21 1,000 patients and I can see that the covariates were  
22 measured with validated instruments and a  
23 sophisticated and systematic way, that's influential,  
24 and I think that's appropriate for a pure mu agonist  
25 drug.

1                   At the same time, I think for a pure mu  
2 agonist drug it's totally appropriate to have a mixed  
3 population because these are opioids, after all. You  
4 know, I mean, they've been around for a while. We  
5 basically know they're pain killers, and we know that  
6 they can work with any kind of pain.

7                   So forcing a mechanism based study when  
8 the clinical identification of mechanisms is  
9 nonvalidated doesn't make any sense to me.

10                  On the other hand, if you have a new  
11 chemical entity coming down the pipeline and there's a  
12 desire for drug development, not only to have this  
13 pragmatic focus, but also to be explanatory, I think  
14 it's very appropriate to say, "Do a study in  
15 neuropathic pain, a well defined neuropathic pain  
16 condition. Do a study in OA, which is a widely  
17 accepted nociceptive pain."

18                  But you know, as my colleagues will tell  
19 you, the basic science models suggest that much of  
20 what's happening at the dorsal horn looks the same if  
21 it's joint pathology or if it's nerve pathology.

22                  So recognizing that the clinical entities  
23 are constructs and they're nonvalidated, it still can  
24 be informative to do those studies with a new chemical  
25 entity, but with an opioid, a pure mu agonist opioid,

1 I don't see the sense. I think we have a big history,  
2 and the history basically tells us now we want better  
3 long-term surveillance data with systematic  
4 measurements of covariates, and we want broad  
5 labeling, broad indications based on efficacy trials  
6 that help us understand the weighted dose of those  
7 agents, you know, the relative potency and other  
8 critical issues like that.

9 ACTING CHAIRMAN KATZ: To make sure that I  
10 understand what you're saying going forward, it sounds  
11 like you're suggesting that a fairly traditional  
12 efficacy program should be sufficient to achieve broad  
13 labeling, and that should be the goal of the  
14 development program, but that there should be,  
15 following approval, post marketing studies of various  
16 types to identify covariate subpopulations and to  
17 further inform the clinical utility of the drug.

18 Are you suggesting that those be required  
19 as part of the approval process? And if so, how does  
20 one go about the process of determining which sorts of  
21 studies should be required and then, in turn, how  
22 those will back influence the labeling of the drug  
23 once they're done?

24 DR. PORTENOY: You know, without knowing  
25 all of the regulatory details, I would be in favor of

1 having FDA take the stand that those sorts of  
2 systematic, prospective surveys of the pure mu agonist  
3 drugs in relatively large populations carefully  
4 followed for a prolonged period of time should be  
5 required.

6 Now, they may be required in Phase IV.  
7 The drug may get on the market, and then these could  
8 be studies that are subsequently required, but I think  
9 that we're at a point now where there's enough concern  
10 about what should be in those labels and enough  
11 concern that well designed, controlled randomized  
12 trials are not going to provide the critical  
13 effectiveness data that would allow the labels to be  
14 written; that the FDA could now say going forward this  
15 new drug with this new delivery system, we want to see  
16 2,000 patients followed for X number of months using  
17 validated measures of substance use, of psychiatric  
18 co-morbidities, of medical co-morbidities, and maybe  
19 get some population pharmacokinetic data so that we  
20 can begin to do some modeling of various effects  
21 versus pharmacokinetics, and hopefully that  
22 information over time can begin to inform the core  
23 guideline piece of the label so that a primary care  
24 provider opening up the next oxycodone delivery system  
25 will see some instructions there that make clinical

1 sense.

2 ACTING CHAIRMAN KATZ: Let's have specific  
3 comments on Dr. Portenoy's proposal that we allow  
4 opioid drugs to be approved by a relatively  
5 straightforward efficacy program and then require post  
6 marketing trials to further identify covariates,  
7 populations, clinical utility, and these various  
8 effectiveness issues.

9 Dr. Horlocker.

10 DR. HORLOCKER: I'd agree with the broad  
11 based labeling for opioids because I think that that's  
12 the only way you're going to really be able to study  
13 the populations.

14 Subsequent post marketing surveys though  
15 are going to have to focus mostly on safety issues  
16 unless you want to proceed as Dr. Foley recommended,  
17 that we truly define a very clear-cut population to  
18 study, and then you're going to need thousands of  
19 patients in each of these population groups, which is  
20 going to be just an outstanding number of patients and  
21 money.

22 So I'm not sure exactly how the drug  
23 companies could fund something like this if we're  
24 talking about thousands of thousands of patients over  
25 time in each different population, and that will have

1 to be reconciled in some way.

2 But if they focus mostly on safety issues  
3 with long-term use, I think that that could be easily  
4 done with a homogeneous or heterogeneous group of  
5 patients.

6 ACTING CHAIRMAN KATZ: Other comments on  
7 this specific issue? Yes, please.

8 DR. PORTENOY: Just a very quick reply. I  
9 think that I agree with that, and that's the  
10 conventional thinking. But there are so many things  
11 that we don't know about long-term therapy in the  
12 primary care community, like, for example, of 1,000  
13 patients that my friend to the left puts on opioid  
14 medications, how many will still be taking them in  
15 three, four years. I don't even know that.

16 You know, how many times will the patient  
17 require dose escalation over a period of three to four  
18 years? I don't know that in this kind of community of  
19 patients, you know?

20 So I think that there are questions that  
21 relate to efficacy that can be informed by a survey,  
22 although the statements about efficacy will be very  
23 limited.

24 ACTING CHAIRMAN KATZ: Dr. Ashburn.

25 DR. ASHBURN: I just have one quick

1 observation. I agree absolutely with the concept that  
2 Dr. Portenoy has laid out with regard to indications  
3 and with regard to the safety and efficacy studies  
4 that should be necessary to get a fairly broad  
5 indication for opioids.

6 I have some concerns with regard to a  
7 suggestion of requiring pharmaceutical companies to  
8 bear society's weight in doing large population based,  
9 long-term studies to answer the key questions that we  
10 need.

11 And I just wanted to put out that I can  
12 see somebody making a credible argument. This is a  
13 societal issue, and these are studies that  
14 appropriately should be investigator initiated studies  
15 sponsored by NIH with an increased emphasis through  
16 NIH funding for these sort of long-term studies to  
17 look at outcomes rather than something that is  
18 dovetailed on top of requiring a pharmaceutical  
19 company to sponsor these projects.

20 As you know, short-term efficacy studies  
21 go for what, \$1,000 a patient? If you're looking at,  
22 you know, these sorts of studies, you're looking at  
23 much more cost. You're proposing studies that will  
24 cost two to \$4 million easy, and whether or not that's  
25 a barrier to entry for other drug delivery systems



1 that may actually add to our armamentarium and improve  
2 the quality of care is something that was probably  
3 worth debating.

4 ACTING CHAIRMAN KATZ: Well, I know better  
5 than to mess with the lunch break. So even though  
6 this is obviously a very important discussion, we will  
7 have more time to pick up on these themes.

8 Just to recapitulate, it sounds like  
9 there's a general feeling that a fairly traditional  
10 efficacy program is appropriate for a broad approval,  
11 but that there should be some sort of post marketing,  
12 more affected in the style program required, although  
13 exactly how that would be funded and how extensive it  
14 needs to be is still under a great deal of discussion.

15 We'll regroup here at exactly 1:30; is  
16 that right? At exactly 1:30.

17 For the people at the head table, there is  
18 a room reserved in the restaurant. Please head right  
19 there, and we'll see everybody else at 1:30.

20 (Whereupon, at 12:38 p.m., the meeting was  
21 recessed for lunch, to reconvene at 1:30 p.m., the  
22 same day.)

23  
24  
25

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

(1:37 p.m.)

ACTING CHAIRMAN KATZ: Could everybody take their seats, please?

Let's go ahead and start the afternoon session then. If everybody could take their seats and bring their conversations to a close, we'll move forward.

What I'd like to do now, we've got an afternoon session on pediatric issues planned. What I would like to do, however, since I think we were on the verge of hitting on some very critical issues from the morning, I'd like to take just ten minutes out of the afternoon session, the first ten minutes, and try to focus hard on two specific questions that are left over from the morning, and then we'll launch into the afternoon session on pediatrics.

So apologies to the pediatric folks. The first question that I'd like to get into is that it seemed like there was a feeling that there are a broad range of -- that while we can relatively straightforwardly determine in a somewhat traditional program how to determine that an opioid is really an opioid. There still are some important questions about effectiveness in a real life situation, about

1 long-term safety that we don't understand very well  
2 with regard to the whole class of opioid analgesics.

3 And so I'd like to focus a question on  
4 what people think are their major issues from an  
5 effectiveness point of view or from a safety point of  
6 view about opioids that would need to be addressed in  
7 such a program that addressed either a specific drug  
8 or the whole class of drugs.

9 And, Dr. McLeskey, you were last left over  
10 from the morning. So why don't we start with you?

11 DR. McLESKEY: Well, thank you very much.

12 I was going to just make some comments  
13 because I was very pleased to hear the commentary  
14 especially at the end of the last discussion. I  
15 believe it would be industry's perception that we  
16 concur with most of what was said right there at the  
17 end.

18 For example, I think we would endorse the  
19 concept of a broader label claim rather than a  
20 narrower label claim. It would provide more incentive  
21 for development and the like.

22 And then I'd also like to highlight what  
23 Mitchell Max said earlier in the session where some of  
24 these large, precedent setting studies, long-term  
25 studies and the like he felt like potentially would be

1 better directed by the NIH rather than by industry,  
2 and I believe industry probably would endorse that  
3 concept as well.

4 (Laughter.)

5 DR. McLESKEY: And interestingly, that was  
6 also echoed by Mike Ashburn when he suggested that  
7 efficacy trials might be relatively limited in scope  
8 and cost compared to some of the longer term follow-up  
9 trials that might become complicated and rather  
10 expensive.

11 So I know I speak for industry when I say  
12 that we all would like to cooperate with the FDA, and  
13 we want to contribute to medical advances, and we want  
14 to contribute to advances in medical understanding of  
15 patient management and the like, but I would just ask  
16 that when you reach your conclusions that potentially  
17 some restraint is used when the requirements or the  
18 suggestion for Phase IV trials, post marketing Phase  
19 IV trials are discussed in order that those trials not  
20 become such a hurdle that they then actually turn into  
21 something that stifles innovation.

22 DR. MAX: Could I respond to that?

23 Thanks, but I'd like to clarify what I  
24 said. I agree. I agree that I think it would be  
25 unfortunate if every company that wanted to market a

1 mu opioid was saddled with doing a \$20 million two  
2 year effectiveness study. It would really be a bar to  
3 quick moving little companies on the market.

4 On the other hand, you can't just say,  
5 "NIH, do this."

6 And here I speak -- while I work at NIH, I  
7 have no authority or expertise of the governing areas.

8 I'm just one clinician investigator. So it's just a  
9 personal view.

10 We've been calling for NIH to do more in  
11 this for many years. I was a co-author of an  
12 institute of medicine report commissioned by NIDA  
13 about five years ago, what research they should do,  
14 and we had a chapter saying they should do these  
15 studies, and I'm not aware that there are any current  
16 studies going on.

17 The NIH mantra seems to be we only fund.  
18 Don't earmark us. We only do the best investigator  
19 initiated research. Some of the people at this table  
20 have submitted proposals to do just these studies and  
21 gotten rejected, and then they say, "Well, they aren't  
22 trained investigators."

23 So my proposal actually is I would ask my  
24 friends from industry to try to think of some  
25 alternative, some way that industry can provide the

1 money, say, to let the peer review system get the  
2 smartest young people trained and do a few studies  
3 rather than a lot because I can't believe NIH is going  
4 to come up with it, though I'm not authorized to speak  
5 for them.

6 ACTING CHAIRMAN KATZ: Industry  
7 perspective on that suggestion?

8 DR. McLESKEY: No.

9 (Laughter.)

10 ACTING CHAIRMAN KATZ: Again, to focus,  
11 what are the major issues that need to be addressed in  
12 effectiveness and safety trials in the real world?  
13 Dr. Reidenburg?

14 DR. REIDENBURG: Yeah. I continue to have  
15 a problem with effectiveness, and the reason is we  
16 know that --

17 ACTING CHAIRMAN KATZ: Your suggestion.

18 DR. REIDENBURG: -- our present clinical  
19 diagnostic structure isn't predictive of response, and  
20 that some people respond and some not for most of the  
21 various diagnostic categories.

22 At this point the science hasn't advanced  
23 enough to know how to stratify people a priori into  
24 responders and nonresponders, but then this is true of  
25 every other illness I treat.

1                   With hypertension, I know a lot of drugs  
2                   lower blood pressure, but I can't predict which  
3                   patients will respond to it. So I think the problem  
4                   of effectiveness in clinical trials is really  
5                   something that we need more development of a  
6                   technology before we can mandate rational studies.

7                   ACTING CHAIRMAN KATZ: So predictors of  
8                   response.

9                   Dr. McNicholas and then Dr. Horlocker.

10                  DR. McNICHOLAS: Yeah, I just want to -- I  
11                  absolutely agree with Dr. Reidenburg on this, that  
12                  effectiveness versus efficacy is a very difficult  
13                  issue, and what you can expect of the drug versus what  
14                  you can expect of a system, and the system varies for  
15                  individual patients and individual areas, et cetera,  
16                  is a very different question.

17                  So I think that you can ask drug companies  
18                  to do safety. You can ask them to do longer term  
19                  studies on monitoring patients over the long term,  
20                  whether they've had to do a long-term study or not in  
21                  order to get approval. But I think you have to look  
22                  at what you can reasonably expect from the medication  
23                  versus what you can expect from a system when the  
24                  system is very variable.

25                  ACTING CHAIRMAN KATZ: So it sounds like

1 what you're saying is that the outcome of long-term  
2 opiate therapy, depending upon aspects of the  
3 treatment setting is an important clinical issue.

4 DR. McNICHOLAS: Absolutely.

5 ACTING CHAIRMAN KATZ: Okay. Dr.  
6 Horlocker.

7 DR. HORLOCKER: I'd like to reiterate some  
8 of those same ideas. As I said before the break, I  
9 think once we get a broad based labeling, it's going  
10 to be up to the academicians and the clinicians to  
11 perform the studies that determine the actual  
12 effectiveness within the model. How many other multi-  
13 modal approaches do you add with the opioid to  
14 determine what's the best, what's the optimal way of  
15 making a patient comfortable?

16 On the other hand, I think that industry  
17 could be responsible for performing the safety  
18 studies, and the safety variables that I would  
19 recommend studying are those that are the serious or  
20 life threatening.

21 I don't think you have to look at how many  
22 people are constipated or have pruritus, but things  
23 such as respiratory depression, the aberrant drug  
24 behavior, those sorts of things that really would  
25 require an intervention on either the regulatory



1 societies or physician would be the ones that I think  
2 would be most appropriate to evaluate from a safety  
3 standpoint.

4 ACTING CHAIRMAN KATZ: So it sounds like  
5 what you're saying is that addiction or whatever word  
6 you'd like to use for whichever construct you're  
7 interested in is one of the long-term safety issues of  
8 opioid that needs to be looked at.

9 Other critical clinical issues with regard  
10 to long-term opioid outcomes? Yes.

11 DR. SCHREINER: Partly as a lead-in, I  
12 just wanted to focus attention that for pediatrics,  
13 that we need trials in adults of acute pain. Most of  
14 the kids who get opiates have acute pain and not  
15 chronic pain, and I haven't heard anything mentioned  
16 this morning about studying these drugs in acute pain  
17 states.

18 We often in kids are extrapolating data  
19 from adults to children at least in terms of planning,  
20 and so if we're going to have a rational use of these  
21 drugs in children for acute pain, we should know how  
22 they're used for acute pain for adults.

23 At least 60 percent of the children at my  
24 hospital who come for day surgery and go home, I mean,  
25 come in for surgery and go home the same day, and

1 usually those that are admitted, the primary reason  
2 they're in the hospital is their pain can't be managed  
3 with an oral opiate.

4 So as soon as they can be managed on oral  
5 medications, they go home, and typically they only  
6 need a drug for three to five days, in some cases up  
7 to two weeks, but I think that we should not forget  
8 that.

9 And I believe that one of the  
10 presentations Dr. DalPan's slide showed, the number  
11 one use for these drugs was surgical pain. So  
12 everybody is focused on the chronic patients, but  
13 let's not forget a really big use, especially in the  
14 population that I see.

15 ACTING CHAIRMAN KATZ: Does anybody feel  
16 that there are specific patient subpopulations that  
17 are critical to study long term outcomes in, for  
18 example, patients with histories of substance abuse or  
19 patients with histories of co-morbid psychopathology?

20 Yes.

21 DR. FRIEDMAN: I think an important  
22 populations to study long-term effects is the  
23 populations of children who use opiates and other  
24 analgesics long term for sickle cell anemia. I think  
25 this is a population that, again, it's mostly used in

1 the acute setting for acute vaso-occlusive crises.  
2 The use of analgesics starts in childhood, but extends  
3 all the way through adulthood. So this isn't an adult  
4 or a pediatric issue. It's an issue for all age  
5 groups.

6 The other thing is we know that from the  
7 pediatric studies that children with sickle cell  
8 disease have long-term cognitive effects of their  
9 illness. How long-term use of opiates impact on that  
10 is really not clear.

11 We also know that they are at risk for  
12 cerebral vascular abnormalities, including stroke, and  
13 again, how multiple medications used over time affects  
14 those risks and how adjuvant medications may affect  
15 the risk of vascular injury is really poorly  
16 understood.

17 So if there's one group that we can think  
18 of as a paradigm for acute pain, chronic pain, and  
19 pain over a lifetime, it's a group of patients with  
20 sickle cell anemia, which is not an insignificant  
21 population in the United States.

22 ACTING CHAIRMAN KATZ: Sure. Dr.  
23 Rappaport.

24 DR. RAPPAPORT: You're all aware that when  
25 we approve a drug it's based on a risk to benefit

1 analysis, and one of the risks is the risk of problems  
2 with the wrong patient population being treated with  
3 the drug. So I'm trying to move it back in that  
4 direction again.

5 My question is, and one of the things that  
6 we're trying to focus on, is: do the more general  
7 indications in a more general patient population in a  
8 trial end up driving the way the drugs are used in the  
9 community rather than vice versa?

10 I've asked that before, but it's important  
11 to think about because what's written, what comes out  
12 of a trial, what's in that protocol and then what  
13 comes out in the study results are what end up  
14 informing the label, and the label is what's used to  
15 inform the advertising and marketing and the way the  
16 drugs are used.

17 I wonder if we could focus on that for  
18 just a minute before we move on to the next section.

19 ACTING CHAIRMAN KATZ: Dr. Schechter.

20 DR. SCHECHTER: Yeah, I think that's a  
21 very interesting and important point. On one hand I  
22 totally support the notion of very broad labeling and  
23 broad indications because I think that will --  
24 individuals are so unique and special, and it's hard  
25 to sort of configure all of the possible situations.

1           But I would like to offer an analogy,  
2 again, as a pediatrician, thinking about something  
3 that's similar, and I'd suggest the marketing of  
4 stimulants as a possible analogy because those have  
5 sort of -- even though the indications are limited  
6 theoretically, they're very open to enormous  
7 interpretation.

8           And there's enormous variability in the  
9 way that even if one goes by the DSM criteria or  
10 whatever, people with varying different degrees of the  
11 same sort of problem get put on stimulants or not, and  
12 merely allowing those into the community, I think, has  
13 been at least in part responsible for some of the  
14 increase in use of stimulants, and I would suggest at  
15 least some percentage of that is probably  
16 inappropriate.

17           So on one level I support it, but on  
18 another level I'm cognizant that there may really be  
19 problems, and of course, it becomes an individual  
20 clinical issue, and then it's probably contingent on  
21 the academic and practicing community to use those  
22 drugs appropriately.

23           So I don't want to constrain their use,  
24 but on another level I'm aware that just putting a  
25 drug out there without very specific indications might

1 be problematic.

2 ACTING CHAIRMAN KATZ: Okay. So, again,  
3 on focusing the issue of whether there's any specific  
4 population that would be better or inappropriate to  
5 study, Dr. Portenoy, you had a comment?

6 DR. PORTENOY: Yeah, just to respond to  
7 Dr. Rappaport.

8 I think the way that I model it in my head  
9 is that you're in a situation now of sort of an  
10 oscillation between what's happening in drug  
11 development and what's happening in conventional  
12 medical practice.

13 I don't think it's true that having a  
14 broad indication drives clinical medicine, that drives  
15 conventional medical practice. We've had labels that  
16 have had broad indications for a long time, but the  
17 reason we're having this meeting now in 2002 is  
18 because we had a phenomenon occur with Oxycontin which  
19 went into the primary care community in a major way  
20 during a short period of time and then became  
21 associated with an epidemic or pockets of epidemic  
22 abuse which has driven the sudden concern.

23 If it was that the broad labels drove  
24 conventional medical practice, it wouldn't have been  
25 that drug at this time. It probably would have been

1 another drug many years ago.

2 But now that we're in a situation where a  
3 spotlight is being shown on the role of opioid therapy  
4 in the primary care management of chronic nonmalignant  
5 pain, it's appropriate for the agency to say, "Well,  
6 what happens now if we release a drug into this  
7 marketplace?" Because this marketplace, the U.S. in  
8 2002 was a different place than the U.S. in 1965, and  
9 so if we're going to release a drug at this time, what  
10 do we need to have in terms of labeling and in terms  
11 of data that would help stem the problems that we've  
12 identified as occurring with Oxycontin and with other  
13 drugs?

14 And I think when you look at it in that  
15 perspective, I don't know. It seems a little bit less  
16 concerning for me about the specific indication. If  
17 your indication was chronic low back pain because  
18 that's what was studied, and the drug is a pure mu  
19 agonist drug and the company marketed it and it was a  
20 good drug, it would be out there just like Oxycontin  
21 even though the label says just back pain. It would  
22 be used for all sorts of things.

23 What drives conventional medical practice  
24 is not just the FDA labels. So I think that's -- you  
25 know, in other words, I'd ask you to sort of reframe

1 your question a little bit. What data are necessary  
2 now to put new things into the current environment in  
3 a way that would allow some confirmation of safety and  
4 efficacy and also a label that reflects the new  
5 realities of what we have learned with expanding use  
6 during the past few years?

7 ACTING CHAIRMAN KATZ: I think what we  
8 ought to do is move into the pediatric session. We've  
9 already stolen 20 minutes from the pediatricians, and  
10 that's not very nice.

11 So why don't we go ahead then and begin  
12 with Dr. Rappaport who will introduce this afternoon's  
13 session on opiate analgesic use in pediatric patients?

14 DR. RAPPAPORT: In November of 1997,  
15 components of Section 505(a) of the FDA Modernization  
16 Act provided the agency with the ability to request  
17 that pediatric studies be submitted for an approved  
18 drug product or for drug product under development.

19 In return, a few studies were performed  
20 according to the points outlined in the written  
21 request. An additional six months of marketing  
22 exclusivity will be granted to the holder of the  
23 drug's application.

24 Effective in April of 1999, the pediatric  
25 rule provide the agency with the ability to require an



1 application, an applicant for a drug product approval  
2 to conduct an assessment of the product for use in  
3 pediatric patients, including, if appropriate,  
4 developing a new formulation deemed to be needed for  
5 use in a targeted pediatric population.

6 While the impact of the aforementioned  
7 regulations on the evaluation of a drug development  
8 plan has proven to be time consuming and complex,  
9 we're beginning to see the fruits of our labor as  
10 drugs previously devoid of data for pediatric  
11 populations are being scrutinized in trials of  
12 pharmacokinetic activity, clinical safety and dosing  
13 and effectiveness.

14 Each time we at the agency are asked to  
15 evaluate a pediatric development plan, we must take  
16 into consideration the value of the data that this  
17 plan will provide, the risks associated with the  
18 experimental use of the product in children, the  
19 appropriateness of the treatment for the target  
20 population, and the fact that a fair and equal burden  
21 must be placed on all sponsors.

22 A clear set of guidelines from the  
23 physicians who treat pediatric patients with pain  
24 would be very useful to us.

25 In considering the discussion points we

1 presented to you this afternoon, continue to keep in  
2 mind the regulatory framework that provides for the  
3 availability of pediatric exclusivity, as well as the  
4 requirements of the pediatric rule, as Dr. Rodriguez  
5 will describe them to you later.

6 Remember that the product labeling can  
7 only provide prescribers with information on the  
8 appropriate use of the drug if clinically sound data  
9 is obtained from appropriately designed trials in the  
10 target population.

11 Consider the conundrum of a drug for which  
12 the agency granted six months of marketing exclusivity  
13 based on the completion of clinical trials as outlined  
14 in a pediatric written request only to find upon  
15 review of the data a serious new safety concern  
16 resulting in nonapproval of a pediatric indication.  
17 That company still maintains six months of exclusivity  
18 for all of its indications.

19 ACTING CHAIRMAN KATZ: Dr. Debra Friedman  
20 now will give us a talk on pediatric use of  
21 analgesics.

22 DR. FRIEDMAN: Good afternoon. I would  
23 like to thank the committee and the FDA for inviting  
24 me to come speak with you this afternoon.

25 When I was asked to talk about issues

1 regarding analgesic use in pediatrics in a 20 minute  
2 presentation, the task was rather daunting. So what I  
3 decided to do was present some overall issues without  
4 a lot of details and then use some of the examples of  
5 analgesic use in pediatrics as a mechanism to perhaps  
6 stimulate more discussion later.

7           So the first thing we think about when we  
8 think about analgesics in pediatrics or, of course, in  
9 adults is utilization. Several things go into  
10 utilization. The first is thoughts and beliefs.  
11 Thoughts and beliefs of who? Thoughts and beliefs of  
12 society. Do children really have pain? If so, should  
13 children be treated with opioids for their pain or  
14 should we try to avoid that because these are kids?

15           Thoughts and beliefs of physicians are  
16 very similar to those thoughts and beliefs of the  
17 general population. Again, there's some thought in  
18 the general medical community that neonates don't have  
19 pain because because they can't tell us they're having  
20 pain in ways that we're used to in adults or even in  
21 older children.

22           There are also beliefs that children  
23 shouldn't be treated with opioids because of concerns  
24 of long-term effects, addiction and other concerns.

25           Thoughts and beliefs of parents. A lot of

1 parents are very resistant to giving their children  
2 opioids. They're afraid their children are going to  
3 become drug addicts when they become teenagers.

4 And thoughts and beliefs of the children.

5 The children want you to believe that they are having  
6 pain, and they want to believe that the medicine  
7 you're giving them is going to make that pain go away.

8 The next issue affecting utilization is  
9 the availability of agents, not only which agents are  
10 available, but how they're available, and I'll go into  
11 that a little bit more later.

12 The third issue is supportive care. This  
13 is especially important in pediatrics because you're  
14 treating a growing child. So you need to think about  
15 all the other issues that are going on, and when we  
16 talked this morning about efficacy versus  
17 effectiveness, I can't think of a better setting than  
18 pediatrics to think about that. What else is going on  
19 in the child's life, and what other kind of support  
20 systems did they have in place as they tried to fight  
21 this pain?

22 And the last thing to think about is  
23 clinical setting. Of course, pain is very different  
24 in a child who's going to receive an analgesic for a  
25 few days post operatively versus a child who's going

1 to receive analgesics for months on end during acute  
2 cancer treatment versus children who are going to  
3 receive analgesics at end of life versus a child, for  
4 example, with sickle cell anemia who will use  
5 analgesics on and off perhaps their whole lifetime.

6 In terms of administration, there are  
7 several things to consider. What preparations are  
8 available in children? And what preparations are  
9 appropriate for what age children? The route that  
10 the medication is given; the dose; are there  
11 established doses for these medicines in children?

12 What are the other conflicting health  
13 issues that children may have that may affect the  
14 choice of which medication to administer? And other  
15 external issues in their environments.

16 When I think about evaluating a child's  
17 pain, I think about it in who, what, where, and when.

18 Who evaluates the pain management?

19 This morning several panelists discussed  
20 the importance of a pain management team. We also  
21 discussed the importance of the involvement of primary  
22 care physicians in pain management. But with  
23 children, you also have to think about the children  
24 themselves and their parents.

25 So when you think about who manages their

1 pain, well, the pain management team, whoever that is  
2 in terms of physicians and nurses are important. I  
3 would argue that other people are important, such as  
4 people in their atmosphere, teachers, other support  
5 personnel, social workers, clergy, et cetera. Those  
6 people are all very important.

7 But also we need to ask the kids in some  
8 way how are we managing their pain, and we need to ask  
9 their parents how are we managing their pain. And we  
10 may get different answers when we look at the kids and  
11 ask them versus asking the parents versus what we  
12 think as health care providers, and that's a real  
13 challenge in pediatrics, and I don't have a simple  
14 answer.

15 What is evaluated? Well, you would think,  
16 "Now, that's a stupid question. It's the pain, of  
17 course." But let's say you're looking at a child who  
18 has oral mucositis from high dose methotrexate. He's  
19 on cancer therapy. So you think, "Okay. What hurts?"

20 Well, their mouth hurts or their throat  
21 hurts because they've got mucositis. Well, I would  
22 argue that when you're looking at children and  
23 especially young children, you're treating the whole  
24 child. So you need to ask not only, "How is the pain  
25 in your mouths?" but, "how are you feeling?" and

1 that's something that's probably also very important  
2 in adult medicine.

3           Where is the pain evaluated? Again, it's  
4 very important to think about whether the child is in  
5 an in-patient setting, an out-patient setting or home  
6 because everything else that's going on in those  
7 settings may affect pain management, again, the  
8 concept of efficacy of the drug versus effectiveness  
9 because of the environments.

10           And then when is the pain management  
11 evaluated? Going back to several themes we heard this  
12 morning, we don't want to give kids a prescription for  
13 pain medication and see them in a few weeks.

14           Similarly, we don't want to make follow-  
15 up visits arduous for parents and for children and  
16 over evaluate them because we're frightened because  
17 we're giving these medications to children. So we  
18 need to think about logical time frames in which to  
19 evaluate our care.

20           We also need to think -- when you think  
21 about pediatrics, we need to think out of the box of  
22 just what are we doing with drugs and we need to think  
23 about overall patient and family concerns.

24           We talked a little bit about physicians'  
25 thoughts and beliefs. We need to believe that

1 children hurt. We need to remember that especially  
2 for the younger children pain is scary and  
3 unsettling, and I would argue that even for teenagers  
4 pain is very scary and, in fact, for some teenagers  
5 it's more unsettling because they're trying to be  
6 grown-ups. They're trying to be big guys and big  
7 girls. They don't want to cry. They don't want to  
8 let on that they're in pain because they think pain is  
9 for babies, and they'd be less likely to tell you that  
10 they're hurting.

11 You need to listen to the verbal and  
12 nonverbal cues that parents and children are giving  
13 us. You need to consult with other experts who help  
14 manage the children, and we have to remember foremost  
15 that children are not just little adults.

16 We need to provide communication and  
17 education. We need to initiate the use of analgesics  
18 early in the pain process. It makes no sense to  
19 assume children have pain and let them tough it out  
20 for a while for fear of giving them medication that  
21 may have adverse effects.

22 We need not fear addiction. We talked a  
23 lot this morning about pain medications being used  
24 inappropriately. We talked a lot about the concept of  
25 tolerance and addiction. Certainly children, like



1 anyone else, can misuse drugs. Certainly other  
2 members of the household can misuse their children's  
3 drugs. And there is certainly a risk of addiction.

4 But this needs to be studied in the same  
5 way it's studied in the adult population, and it  
6 shouldn't be a reason not to use analgesics in  
7 children.

8 We need to give parents and children  
9 respect, appreciate their areas of expertise,  
10 capability, and strength, and we need to involve both  
11 children and family in these decisions.

12 There are numerous agencies that have set  
13 standards and policies, and I'm not going to go  
14 through any of these. This is just a sample of some  
15 of the many agencies that are involved in standards  
16 and policies regarding analgesic use. And we need to  
17 think about are there appropriate standards in both  
18 adults and children.

19 So we're talking a lot about analgesics.  
20 So I thought we should step back and say what is pain.

21 There are lots and lots of definitions out in the  
22 literature for pain. I especially like this one when  
23 I think about pediatrics. Pain is an unpleasant  
24 sensory and emotional experience associated with  
25 actual or potential tissue damage or described in

1 terms of such damage.

2 And important terms in this definition are  
3 sensory and emotional experience, actual or potential  
4 tissue damage.

5 Someone brought up the point this morning  
6 that pain is what anyone says it is. If someone says  
7 they hurt, they hurt, and I think this definition  
8 really encompasses that thought.

9 In terms of pain assessment in children,  
10 we need to evaluate the various components of pain,  
11 and we need to think about matching the intervention  
12 to the individual situation.

13 We discussed a lot again this morning  
14 about whether we need to design trials for specific  
15 situations. Since pediatrics is a subsection of the  
16 population and a small subsection of the population,  
17 if you then divide children into little  
18 subcompartments for studies, you would never ever have  
19 enough kids for any one study. But you need to think  
20 about what's the situation of the child and try to  
21 match the intervention.

22 We also need to think about the domains of  
23 pain in children: affective. How do the children  
24 feel? Behavioral. How are the kids acting?  
25 Cognitive. What are they thinking? Sensory. Again,

1 what do they feel in a truly sensory sort of way? And  
2 physiologic. What kind of signs can we see on an  
3 exam?

4 Routes of analgesic in children are  
5 important to consider. In terms of oral medications,  
6 taste is very important. If you have children where  
7 they're not going to be able to swallow a pill and  
8 you're going to give them liquid medication, kids are  
9 not going to take something that they think tastes  
10 "yucky." It's plain and simple.

11 So what we need to do is think about  
12 medications that are palatable. We also need to think  
13 about the preparation, and we need to be really  
14 ingenious in thinking about preparations that are  
15 going to be appropriate for children.

16 Young children certainly can't swallow big  
17 pills. They will take liquid, but if you had dosing  
18 where they're going to need to take large quantities  
19 of liquid, even if it tastes good, they're not going  
20 to want to take all of that, and especially if they've  
21 got other medical conditions going on. A lot of sweet  
22 tasting, sugary kind of liquid that's thick and  
23 flavored may make them quite nauseated.

24 We need to think about onset of action. A  
25 lot of talk was this morning about Oxycontin. We do

1 use Oxycontin in pediatrics. We obviously don't use  
2 it in very young children because the dose is  
3 inappropriate, but we do need long acting medications  
4 in children. It's an important, important area that's  
5 lacking.

6 But we also need to think about if kids  
7 can't swallow capsules and that's the way we have  
8 these long acting medications. What other kinds of  
9 oral preparations can we come up with that will have  
10 long onset of actions?

11 Similarly we may need some medication that  
12 is very short onset of action. Some things like  
13 transmucosal films and sublingual tablets, although  
14 it's very hard to explain to a child to put something  
15 under their tongue.

16 Bioavailability needs to be thought of as  
17 well as other physiologic conditions. You notice that  
18 I have intramuscular right next to painful  
19 administration, and I did that very deliberately.  
20 Intramuscular medication should not be thought of as  
21 pain medications in children. It makes no sense to a  
22 child for them to come to you and say, "I hurt," and  
23 you're going to go and give them a needle to make it  
24 stop hurting. No child is going to buy that, and  
25 they're not going to tell you they hurt anymore, as

1 well as, of course, the issue of wide fluctuations in  
2 absorption from muscle.

3 Intravenous medications are very important  
4 in children. We need more studies in terms of the use  
5 of continuous or intermittent medications. They are  
6 safe if done appropriately. They provide comfort, but  
7 we need to think about dosing, and if we need special  
8 dilutions.

9 Transmucosal medications, what I think  
10 about is the Fentanyl lollipop. There are real issues  
11 of safety. What happens? Can the kid choke like they  
12 can choke on any other lollipop? Can they fall asleep  
13 with it in their mouths?

14 I think there's a big risk of confusing  
15 medication with candy. When we think about the issue  
16 of opiates in kids, we worry about will other kids in  
17 the house look at this, think it's candy, and take it.

18 Well, I would argue that that's not a reason not to  
19 pursue opiates and other analgesics in pediatrics  
20 because kids can take their parents' analgesics as  
21 well as they can take their siblings' analgesics.

22 However, if you make it look like a  
23 lollipop, you are asking for trouble. So you need to  
24 think about do we really want to make things for  
25 children in preparations that look like candy. And we

1 need to think about appropriate monitoring and safety  
2 around that.

3 Subcutaneous continuous infusions are  
4 rarely used because the need for local anesthetic.  
5 Transdermal medications are important, and we need  
6 more research in that system because often the patches  
7 are too big in terms of a starting dose for young  
8 children, and regional anesthesia is used in certain  
9 settings as well.

10 Dosing issues. this is one of the most  
11 important areas where we need research in kids because  
12 kids are not little adults. So what we often do is if  
13 there's not pediatric dosing that's been tested and  
14 available, we extrapolate down from the adult dose.  
15 So we say, okay, an average male is 70 kilos, and we  
16 give him this much. And this is kid is 20 kilos. So  
17 we're going to give them this much.

18 We know that's not the appropriate way to  
19 do it, but we don't have a lot of data for a lot of  
20 drugs in terms of dosing.

21 The other thing is we need to give kids  
22 enough medication so that they stop hurting, just like  
23 we do with adults. So we shouldn't be guided by fears  
24 that if we give them higher doses they're going to  
25 become addicted.

1           We need established guidelines as a  
2 starting point, and we need to escalate doses with the  
3 goal of comfort with tolerable side effects, and we  
4 need to think about the pharmacokinetics of drugs.

5           In terms of pediatrics, we don't have a  
6 huge repertoire of medications. The most common  
7 medications we use to treat very mild pain are  
8 acetaminophen and ibuprofen. There are other  
9 nonsteroidals that are also used.

10           For moderate pain we have, you know,  
11 things like codeine and hydrocodone, oxycodone,  
12 ketorolac, and for severe pain we have morphine,  
13 hydromorphone fentanyl, methadone. There are many,  
14 many other medications that we use for pain, but these  
15 are the most common ones.

16           And these are the same ones that we use in  
17 adults. So we need studies to really look at these  
18 medications for children appropriately.

19           We also use a lot of adjunctive  
20 medications, and I think these medications are  
21 important, and for some kinds of pain they're going to  
22 help the pain, but we also have to be careful not to  
23 use adjunctive medications to treat pain when we're  
24 not using analgesics.

25           So if children have pain and fever, they

1 should receive anti-pruretics. If they have pain and  
2 they're anxious, they should receive analgesics and  
3 anxiolytics, but it makes no sense to give a child an  
4 anti-anxiety medicine and not treat their pain.

5 Similarly, if you give children enough  
6 sedatives, they'll sleep through their pain, but that  
7 shouldn't be the goal. The goal should be to treat  
8 the pain, and then if they need sedation for some  
9 reason, then provide sedation.

10 We need to, of course, use anti-pyretics  
11 and anti-anetics if kids have itching or nausea and  
12 vomiting related to their narcotics.

13 Similarly, laxatives if they're  
14 constipated. Antidepressants, we're using  
15 antidepressants in pediatrics like it's being used in  
16 adults for certain types of chronic, nonmalignant  
17 pain, and we need more research in that area.

18 We're starting to use anti-convulsants for  
19 neuropathic pain, such as gabapentin from vincristine  
20 related neurotoxicity, and anti-spasmodics as well,  
21 but again, we need to think about are we using these  
22 as adjuncts or are we using them as substitutes.

23 In terms of deciding what medication, the  
24 World Health Organization has its pain letter that  
25 everybody is very familiar with, and I think that



1 people start with a non-opioid and then up to an  
2 opioid from mild to moderate, and again, this broad  
3 labeling that we talked about this morning.

4 And then if the pain is persisting, an  
5 opioid for moderate or severe pain, and I think we  
6 need to rethink this paradigm with all respect to the  
7 very brilliant people who developed it because perhaps  
8 what happens is often in pediatrics we start at this  
9 bottom level, and we don't go up fast enough because  
10 we don't pick up on all of the cues that the kids are  
11 giving us that they're having pain.

12 I'm going to skip these for time. Common  
13 uses of opioids in children. We use it in  
14 mechanically ventilated neonates, infants and  
15 children. We use it for procedural pain. We use it  
16 in the setting of acute trauma or illness, including  
17 surgery. We use it for sickle cell vaso-occlusive  
18 crises, for burns, for cancer pain.

19 Several studies have looked at the use of  
20 pain medications in specific, in specific areas of  
21 pediatrics, and I think looking at some of these  
22 studies brings up some big issues in pediatrics.

23 So looking in the intensive care unit,  
24 well, fentanyl may increase intracranial pressure and  
25 increase chest wall rigidity and, therefore, some

1 intensivists are less likely to use it, although it's  
2 a very good analgesic.

3 Morphine may cause some venodilatation,  
4 again, may preclude some of its use. There are  
5 concerns over respiratory depression which may limit  
6 dosing. If a child is admitted to the intensive care  
7 unit and has a borderline respiratory status, there  
8 are some intensivists who will be less likely to use  
9 an opioid analgesic which may cause respiratory  
10 depression, or they may feel uncomfortable with  
11 pushing the dose to achieve good analgesia because  
12 we're going to tip the kid over the edge and the kid  
13 is going to end up requiring intubation.

14 Kids who are in intensive care units are  
15 very ill, like are adults, and they have altered  
16 hepatic or renal function which impairs the ability to  
17 give certain analgesics, and pain may be more  
18 difficult to assess especially if children are  
19 sedated, and time may not be taken to assess pain  
20 management.

21 In the emergency department several  
22 studies have looked at the comparison of pediatric and  
23 adult centers, and several things have come out of  
24 this that I think are very important to remember.  
25 Doctors are less likely to order analgesics for

1 children. Children are less likely to receive  
2 analgesics even when ordered.

3 Children are more likely to receive non-  
4 narcotic agents. Administration of analgesics are  
5 delayed and often under dosed. Home medications and  
6 instructions are inadequate, and people don't ask what  
7 the home situation is like to make sure that they're  
8 sending kids, especially with opiates, home to safe  
9 situations.

10 And importantly, on the positive side,  
11 adverse effects of procedural analgesia with  
12 appropriate monitoring are rare.

13 In terms of sickle cell crises, we usually  
14 use combinations of opioid and nonsteroidal agents,  
15 and this can be very effective. Infusional,  
16 continuous and bolus infusions are used. We need to  
17 remember the avoidance of meperidine in this  
18 situation. As a metabolite, it's epileptogenic, and  
19 if you had a sickle cell patient who then starts  
20 having seizures, then you're saying, "Okay. Is this  
21 kid having seizures because we just gave him  
22 meperidine or is this kid having seizures because  
23 they're having a CDA related to their sickle cell  
24 disease?"

25 But, again, this is outside of big

1 pediatric hematology-oncology centers, and outside of  
2 academic centers where you have pain specialists who  
3 treat children. This may not be well known, and this  
4 can cause more complications for children. So we need  
5 more education.

6 We need a good way to transition from  
7 transfusional to oral or transdermal approaches. We  
8 need not to delay in starting analgesics for children  
9 with sickle cell disease who are in pain.

10 There's need for observational units in  
11 hospitals so kids don't get admitted when they don't  
12 need to be, and we need to think about and to try to  
13 overcome the confusion between tolerance, physical  
14 dependence and addiction. Again, some of these  
15 children have received narcotics for many, many years,  
16 having credible narcotic tolerances, but are not  
17 addicted and are not drug seeking kids.

18 In terms of cancer pain, pain may be  
19 chronic and require combinations of agent types and  
20 administration, and we need to learn to be creative.  
21 Many sets of guidelines exist, but uniformity within  
22 and among centers is lacking.

23 Under medication is still a common issue,  
24 especially, especially towards the end of life, and  
25 this is a particularly bad period for children.

1 Nobody likes to think about a child dying. People  
2 don't recognize pain at the end of life. Parents  
3 often are barriers to providing good pain relief to  
4 their children at the end of life, which people would  
5 think makes no sense, but lots of parents equate  
6 giving children opiates with giving up on them and,  
7 therefore, say, "No, they don't really need that  
8 morphine."

9 Physiologic conditions, of course, dictate  
10 choice of agent, mode of administration, and dosing,  
11 and we need a transition from hospital to home  
12 setting.

13 Congressional provision declares that this  
14 decade is the decade of pain control and research.  
15 There are several things that have been said out at  
16 the National Pain Care Policy Act of 2001. So we now  
17 even have some government support behind us.

18 Of course, we need to take the lead as  
19 scientists and work together with government agencies  
20 to try to design appropriate research for pediatrics.

21 We need to think about the epidemiology of pain and  
22 utilization practices in children.

23 Of course, we need studies that focus on  
24 pharmacokinetics and pharmacodynamics, but not at the  
25 exclusion of other issues. We know very little about

1 mechanisms of pain and mechanisms of actions. All new  
2 agents should include pediatric patients. Older  
3 agents still need pediatric trials.

4 We know that morphine works in kids, but  
5 we don't really have great ideas about dosing, and we  
6 still don't have big studies that talk about  
7 clearance, et cetera. We need broader dosage forms  
8 and routes of administration. We need an adequate  
9 supply of drugs.

10 There's nothing more frustrating than to  
11 be treating a child with chronic cancer pain. You've  
12 got them stabilized on a hydromorphone drip, and then  
13 you find out, oh, there's a national shortage of this,  
14 and our pharmacy only has one dose left, and you've  
15 got to switch them over to morphine, and that happens  
16 a lot.

17 We need combinations of different drug  
18 classes. We need combinations of pharmacologic and  
19 nonpharmacologic management, and we need to  
20 destigmatize patients, families, and doctors with  
21 respect to opioids for pain relief.

22 I think this is a job for all of us in  
23 this room today, the health care providers, the  
24 children, and the adolescents, the parents, the  
25 greater community, the pharmaceutical industry, the

1 Federal Drug Administration, the NIH, as well as other  
2 granting agencies.

3 Thank you very much for the opportunity to  
4 speak with you this afternoon.

5 ACTING CHAIRMAN KATZ: Well, thanks, Dr,  
6 Friedman, for a very nice overview. Why don't you  
7 stay there for one second?

8 First of all, I've seen a lot of people  
9 fanning themselves and looking like they're about to  
10 keel over. So we are turning down the temperature in  
11 the room to try to cool it off a little bit and  
12 hopefully revive some of you who didn't tolerate the  
13 heat very well.

14 Why don't we take one or two questions  
15 from Dr. Friedman? And then we'll move on to the next  
16 talk.

17 Are there any questions about the  
18 information that Dr. Friedman just presented?

19 (No response.)

20 ACTING CHAIRMAN KATZ: All right. Thank  
21 you very much then. That's great. I'm sure more  
22 questions will come up.

23 I'd like to introduce now Dr. Bill  
24 Rodriguez from the pediatric team at the FDA, who will  
25 now be speaking to us in more detail about pediatric

1 exclusivity and the pediatric rule.

2 And I hope, Dr. Rodriguez, you can give a  
3 more complete introduction since we didn't get to hear  
4 about you during the introductions this morning.

5 DR. RODRIGUEZ: Dr. Katz, Dr. Rappaport,  
6 Dr. Kweder, members of the Advisory Committee,  
7 colleagues, pediatricians, it is for me a pleasure to  
8 be here to share with you very exciting information  
9 that has to do with essentially how we're going to  
10 probably accomplish some of the things we're talking  
11 from the pediatric point of view.

12 I'm going to share with you some of the  
13 exclusivity initiative, some of the rule, and then an  
14 area that we just moved in on the 4th of January, the  
15 Best Pharmaceuticals for Children Act.

16 So essentially those three things are  
17 pretty much collaborative in terms of our working and  
18 in our studies of the pediatric population.

19 No pain involved, a relaxing atmosphere.

20 (Laughter.)

21 DR. RODRIGUEZ: This paper, Clinical  
22 Pharmacology, 1992, by Gilman and co-workers -- thank  
23 you. that took care of the first obstacle -- show  
24 that there was inadequate information regarding  
25 pediatric use in about three fourths of prescription



1 medications.

2           It's a little bit interesting that we all  
3 have been using medicines in pediatrics and doing back  
4 and forth what is called extrapolation at best, and if  
5 we could go back to the 1900s, early, but decided that  
6 would be boring at this moment so I decided to take  
7 something after the '50s, and it's actually in 1979 we  
8 have directives, level of requirements in the federal  
9 regulations asking that for indication approving  
10 adults, there must be some special evidence derived  
11 from adequate and well controlled studies, and then  
12 that there should be some information about the  
13 pediatric use.

14           Safety and efficacy in the pediatric  
15 population, not established. That's what we've got.  
16 Very interesting.

17           In '94, we have an attempt at taking care  
18 of, well, maybe we don't have to do all of those  
19 studies in pediatrics. We can use those situations  
20 where the course of the disease and the effects of the  
21 drug, both beneficial and adverse, are sufficiently  
22 similar in the pediatric population we're going to be  
23 able to extrapolate and, therefore, limit the number  
24 of studies that need to be done in the pediatric  
25 population and essentially do PK or safety data and

1 say we have gained this information and we'll have it  
2 on board.

3 It sounds very good on paper, but if you  
4 take a look at the number of new molecular entities  
5 and the number of pediatric studies that were done for  
6 these new molecular entities by '97, you say, "My  
7 gosh, you know, we had approximately between 15 and  
8 25 percent, depending on which numbers you take." Not  
9 very good.

10 So we have the first attempt at solving  
11 what is called the inadequacies of the studies for the  
12 pediatric population, and it is the Food and Drug  
13 Administration Modernization Act, which was signed  
14 11/21/97, and is sunset this year.

15 We have the pediatric rule that we'll hear  
16 more about it, and then we'll hear some new attempt to  
17 not only extend FADAMA, but to close the holes that  
18 FADAMA had in terms of some of the stuff that Dr.  
19 Rappaport mentioned earlier. If we come upon  
20 something that is not very -- I mean that is scary or  
21 whatever, what do we have in hands to make sure that  
22 everybody knows about it and our kids don't continue  
23 to be exposed to a medication that may have some  
24 problems or at least that the physician and the family  
25 knows what those problems are.

1                   We have in FADAMA the market exclusivity.

2           I call it the carrot, and essentially the Secretary  
3 would make a written request through the Food and Drug  
4 Administration to the holder of an approved  
5 application, and if there was a pattern of exclusivity  
6 of a level, then six months of exclusivity could be  
7 added.

8                   But that assumed that the person to whom  
9 the written request or the owner actually fulfilled  
10 the requirements of the written requirement. It  
11 didn't have to leave to a label, but you had to  
12 fulfill what we thought was needed. That was probably  
13 a little hole that has been taken care of.

14                   What did that result on? That result in  
15 sponsors actually proposing 293 trials and talking  
16 about different medications. That's far in excess of  
17 what we had before.

18                   FDA issued 237 and as of 1/1/02, 56 of  
19 these have been submitted with pediatric studies.  
20 That, again, is in excess of what we have submitted  
21 from '92 to '97, and of those, 49 were granted  
22 exclusivity.

23                   In other words, not everybody got  
24 exclusivity, and in fact, let me tell you that there  
25 are some that didn't get the exclusivity, but we got

1 stuff for the label. So it's actually a very  
2 important point to keep in mind.

3 And 28 of these have new label. So  
4 essentially we have done more since this initiative  
5 started than we have done, say, from '92 through '97,  
6 and what type of studies have been done?

7 Well, approximately one third have  
8 efficacy and safety or have a PK on safety or PK on  
9 pharmacodynamics, safety. So essentially we use  
10 whatever was available that looked reasonable, was  
11 used, and a total of 561 studies were done for 237  
12 products.

13 Now, a very important point. Of those 28,  
14 what have we learned? And we have in there that  
15 approximately not only do we need to extend the agency  
16 safety profile for a team, not only did we come up  
17 into one where the kinetics showed that there was even  
18 in excess of the levels that are expected in the adult  
19 and that they would expect also from the  
20 extrapolation, but there was no effect whatsoever in  
21 the pediatric population. A very important point to  
22 keep in mind.

23 And the label now says not effective in  
24 spite of the pharmacokinetics and everything. So  
25 that's something that people should be aware of.

1                   Nine have had significant dosing for  
2 changes for risk: midazolam, propofol. Somebody  
3 mentioned fentanyl over here earlier. If you give  
4 that little lollipop with propofol, you can have  
5 massive drops in the pulse of the patient. So that's  
6 one thing.

7                   Propofol, there is some question of in a  
8 non -- where causality had not been determined yet,  
9 where there was nine percent mortality noted in the  
10 pediatric ICU compared to the control, not in the  
11 anesthesia. That has to be proven.

12                   And we have seen sevoflurane, fluvoxamine,  
13 gabapentin, and provolac. Fluvoxamine, some of the  
14 kids, eight to 11, for example, girls, were getting  
15 overdosed. Some of the adolescents were getting under  
16 dosed.

17                   What do you see in the PDR? We don't know  
18 why it isn't working well in the adolescents. Well,  
19 actually they probably needed more where the children  
20 needed less.

21                   Gabapentin, children under five years of  
22 age may need a higher amount of it because their  
23 metabolism is two to three times faster than the  
24 pediatric population.

25                   And we can go down the line all the way

1 over. So these are medications where we have found  
2 out we were using them, and we were using them  
3 inappropriately, many of them in pediatrics.

4 Now, let's move to the rule. It was  
5 published in 12/2/98, but we could not require things  
6 until December of 2001, and it required that for  
7 certain new marketed products -- I mean packaged drugs  
8 and biological -- that the company or the owner or the  
9 person submitting the application had to put down the  
10 intentions of doing studies in the pediatric  
11 population.

12 When would this turn on? This was  
13 actually discussed with the agency if it was a matter  
14 of something that would be used for life or death  
15 during the first phase discussions. Otherwise during  
16 the second phase discussion.

17 At that time the plans for completion of  
18 studies or whether there will be a deferral or whether  
19 there will be a waiver. So it's not that we were  
20 trying to hold the adult population hostage. It was a  
21 matter that we wanted this to be known in the kids.

22 And it was actually for conditions for  
23 which the company was looking for application adults.

24 For example, if you're trying to study pneumonia in  
25 adults, then do pneumonia in kids, and that's what the

1 agency was requesting.

2 Now, there could be a referral if the  
3 companies were ready to submit the information for the  
4 adult and the pediatric studies were not ready, for  
5 example, or we needed more studies in the adults of  
6 effectiveness and safety before we accepted the  
7 pediatric condition.

8 Now, the studies were waived if the use  
9 did not meet the criteria for a minimum therapeutic  
10 benefit and substantial use, both. This is an area  
11 that is confused many times by industry, by the way.  
12 It has to be "and," in other words, both.

13 The applicant may have all the best will  
14 in the world, and the studies may be impossible. For  
15 example, there are patients disseminated all over  
16 creation, and in other words, not enough in a place to  
17 do it. So, in other words, the agency is not trying  
18 to be obtuse. It's trying to be very practical with  
19 what's been done.

20 And other produces are safe or effective  
21 in pediatrics or it could be a condition, for example  
22 that does not affect the pediatric: BPH, for example,  
23 cancer of the breast, in other words, and there is a  
24 list in the literature going into that, or you heard  
25 that we could require a formulation.

1                   Now, the company may have gotten the best  
2 pharmacologists in the world and been unable to  
3 develop the formulation, and the pharmacology. They  
4 say, well, we have to work with whatever we have  
5 available. We're not going to hold you hostage  
6 because you try your best in all honesty.

7                   But more importantly, the adult was not  
8 delayed, and it actually promoted the early  
9 consideration of pediatric use and drug development  
10 plans. What's happened with these other, with what is  
11 called the stick?

12                   Well, we're doing analysis once a year,  
13 and in 6/01 -- you remember 499. The products were  
14 approved from there, but we do not require anything  
15 until December. Products approved in 499, 41 with  
16 pediatric studies; 170 are deferred; 241 waived.  
17 Remember that we could not require anything before  
18 December, and 12 of these were granted exclusivity;  
19 288 as of 6/01 have submitted thus far.

20                   So we're making progress from the biased  
21 point of a pediatrician. How does it differ? Why  
22 does the whole thing differ between final rule and  
23 FADAMA?

24                   In the final rule the stick studies are  
25 required. However, the evaluation for the pediatric



1 information, only the drug product and indication  
2 currently being produced are to be submitted. While  
3 in FADAMA, we could send an urgent request, but the  
4 company will say, "We aren't going to do it," and that  
5 was it.

6 And evaluations are needed for pediatric  
7 information on the active moiety. So essentially it  
8 could be a number of things that we thought would  
9 fulfill public health benefit, and the incentive only  
10 exists when there is exclusivity or patent protection.

11 Now, here we are at this stage in HANSCOM,  
12 the Best Pharmaceuticals for Children Act signed into  
13 law, 104-92. What did it do?

14 First of all, extend pediatric  
15 exclusivity. Congress recognized that we were making  
16 some progress there.

17 And another thing that was done was that  
18 pediatric stuff may have to be handled like six  
19 months, six months prior to review. In other words,  
20 they have to be given priority and move.

21 And the sponsors are required to submit  
22 with the IND a statement about intent to study  
23 pediatric populations. So essentially it sort of  
24 supports the rule and promotes the FADAMA experience.

25 But it did more than that. The NIH in

1 closed session with the FDA and other official experts  
2 is going to develop and prioritize the publish of off  
3 patent drugs. Remember in the previous experience the  
4 drugs were on patents. Now it's off patent drugs.  
5 There are a lot of those around, as we all know. Some  
6 of them are used for the pain. That's right.

7 And so that needs to be studied in the  
8 pediatric population. So FDA -- NIH promotes it. FDA  
9 does it, and FDA issues a written request to innovator  
10 and generics. In other words, this written request to  
11 innovators and generic, if it is declined by the  
12 innovator or the holder of the generic, then we turn  
13 that written request to NIH for development of a  
14 request for proposal.

15 So essentially now it's in the hands of  
16 NIH, and even if the innovator or the holder of  
17 generic, they will be given appropriate time, et  
18 cetera. There will be a guidance. It will be  
19 promoted, et cetera. This is just a general thing,  
20 looking at something that was approved this month. So  
21 things may change a little bit.

22 Then the NIH now provides it to like a  
23 grant, like a -- yeah, like a grant. And when that  
24 information is finished, the study is reported to the  
25 NIH and the FDA, and it becomes public domain. So, in

1 other words, it doesn't matter what we find. You all  
2 will find it. Okay?

3 And within 180 days it will also be  
4 published in the Federal Register. So essentially  
5 it's going to be open windows for everything that we  
6 find. Okay?

7 As far as labeling is concerned, for both  
8 approvable and approved application at the time of  
9 action, if the labeling remains the only issue, it is  
10 referred then to the Pediatric Advisory Subcommittee,  
11 and the Pediatric Advisory Subcommittee then takes a  
12 look, and if they approve on that, then -- and, by the  
13 way, some is published on the Web at that time, and we  
14 have a dispute resolution process that effectuates the  
15 level in change, and if there is not agreement with  
16 the approved drug holder, then what happens is that  
17 FDA could really misbrand the drug.

18 What else has happened too? There's also  
19 going to be an Office of Pediatric Therapeutics set up  
20 within the Commissioner's Office. The Pediatric  
21 Oncology Subcommittee has been restructured. There is  
22 going to be a Pediatric Advisory Pharmacology Advisory  
23 Committee to advise the FDA Commissioner so that we  
24 will have the most scientific and the most approach,  
25 so that there will be no criticisms that you people at

1 the FDA are doing this and you're not aware of what's  
2 going on.

3 On the outside, yes, there will be people  
4 who will be from the outside to helping on that, and  
5 more importantly, there's been a requirement  
6 concerning tracking ethnicity and race for written  
7 agreement. Okay?

8 There is also a request from the Institute  
9 of Medicine to develop a review of federal regulations  
10 and report of research relating to children addressing  
11 issues such as assent, minimal risk, and compensation,  
12 the most ethical approach to anything that we do.

13 And importantly, a foundation for the  
14 National Institute of Health to receive written  
15 requests for products which has patent life. So, in  
16 other words, if we have products that you all think  
17 are important, that we have information for public  
18 health benefit and they have patent life and the  
19 sponsors decline to honor the written request, we can  
20 actually -- the Commissioner can actually return it to  
21 the foundation at the National Institutes of Health  
22 and say, "Okay. This group, academic group in the  
23 community is going to do the work, and this will  
24 result in the formation that we need to be able to  
25 study that."

1           So essentially we're going to have the off  
2 patent with the NIH RFPs, and by the way, there are  
3 approximately \$200 million a year assigned to the NIH  
4 for that, and this foundation which already exists at  
5 the NIH which will take care of the written request  
6 for products that still have patent life.

7           Also, for safety, all adverse events, not  
8 just the rapid (phonetic) indications, will be  
9 reported for one year after exclusivity is granted to  
10 the new Office of Pediatric Therapeutics, and the  
11 report will be reviewed by the Pediatric Advisory  
12 Subcommittee and any recommendations for action  
13 obtained.

14           In other words, we're going to make sure  
15 that any questions of adverse event become -- see the  
16 light of day, become part of the level it may be,  
17 become part of the docket, become part of the Federal  
18 Register.

19           If you want to find more about it, which I  
20 just barely skimmed the whole thing,  
21 [www.fda.gov/cder/pediatrics](http://www.fda.gov/cder/pediatrics) or you can call, for the  
22 people who may not feel like spending the time in  
23 front of the computer, (301) 594-PEDS. There, you  
24 see.

25           And essentially I have enjoyed the time

1 with you all, and one of the reasons why I'm doing  
2 this, because these are my grandchildren, and I just  
3 want to make sure that they get the safest, most  
4 efficient medication if they need it.

5 Thank you.

6 ACTING CHAIRMAN KATZ: Thank you very  
7 much, Dr. Rodriguez. Why don't you, if you could,  
8 stay up there for one minute?

9 We have time for a couple of questions for  
10 Dr. Rodriguez and his presentation if anybody has any.

11 (No response.)

12 ACTING CHAIRMAN KATZ: Thank you very  
13 much. I appreciate it.

14 DR. SCHUSTER: Bill.

15 ACTING CHAIRMAN KATZ: Oh.

16 DR. SCHUSTER: I keep seeing the number of  
17 studies in newspapers and in your presentation, you  
18 know, 400 and some odd, and 560. Those are the number  
19 of studies requested. They're not the number of  
20 studies that have been performed.

21 DR. RODRIGUEZ: No, no, no. I have in  
22 there how many have been turned in.

23 DR. SCHUSTER: I understand that.

24 DR. RODRIGUEZ: Yeah.

25 DR. SCHUSTER: So there are 59 drugs that

1 have been turned in, and it's a little over two  
2 studies per application, but we don't know how many of  
3 those other requests are actually being translated  
4 into action.

5 DR. RODRIGUEZ: Okay. We do have  
6 internally that information, and I can tell you that  
7 approximately four fifths of those are in the process  
8 of working. In fact, we're just trying to -- we're  
9 bracing ourselves for the onslaught that is going to  
10 be coming in because each time these things come in,  
11 there has to be a -- the division has to work on it.

12 We have an exclusivity board. They have  
13 to work on it, and essentially it's a major, time  
14 consuming process. But we're looking forward, and you  
15 know, the people in the divisions are very helpful.

16 Thank you.

17 ACTING CHAIRMAN KATZ: Thank you, Dr.  
18 Rodriguez.

19 Why don't we then move on to Dr. Rappaport  
20 again who will be speaking with us about pediatric  
21 opiate analgesic trials and development plans and will  
22 be giving us some case vignettes.

23 And right after that we'll be taking a  
24 break.

25 DR. RAPPAPORT: Thank you.

1                   After the break there's going to be a quiz  
2 for the committee members on the difference between  
3 the pediatric rule and pediatric exclusivity.

4                   (Laughter.)

5                   DR. RAPPAPORT: It took those of us who  
6 work with this every single day the full five years  
7 before the bill came up for reauthorization before we  
8 understood it.

9                   This afternoon, as Dr. Katz said, I'm  
10 going to present three brief vignettes of drug product  
11 development plans that raise specific issues in  
12 relation to pediatric patients. While these are only  
13 three out of hundreds of development plans that now  
14 must find ways to be responsive to the pediatric rule,  
15 these three do cover a broad range of issues that we  
16 frequently encounter.

17                   Of course, due to the proprietary nature  
18 of drug products that we review, these drug  
19 development plans are hypothetical. However, these  
20 hypothetical products consist of a compilation of  
21 features drawn from very real drug products that are  
22 under development.

23                   Drug number one is a novel, long acting,  
24 modified release, oral preparation opiate. The  
25 sponsors propose studying this new formulation in a



1 single, multiple dose pharmacokinetic study in  
2 pediatric patients over the age of seven years. While  
3 the protocol for this study indicates that efficacy  
4 will be assessed along with safety as secondary  
5 objectives, the study would clearly not be considered  
6 adequate to establish efficacy by design.

7 And the sponsor's rationale for not  
8 performing an adequate and well controlled study  
9 consists of the following points.

10 First of all, efficacy for opiate  
11 analgesics can be extrapolated from adults to  
12 pediatric patients.

13 And, secondly, the endpoints normally used  
14 to assess effectiveness in adults are unreliable in  
15 children.

16 The sponsors also requested a waiver for  
17 pediatric patients under seven years of age. Their  
18 rationale for this request consists of the following  
19 points.

20 Substantial use of this product has not  
21 been demonstrated in the younger pediatric population.

22 The second one is recruitment would be  
23 difficult.

24 And the third is that the currently  
25 available doses would be too high for the younger

1       pediatric patients.

2                       We already have some answers to these  
3       questions from the previous talks. In your discussion  
4       this afternoon, please consider what evidence is  
5       available to support or refute the sponsor's  
6       contention that efficacy of opiate analgesics can be  
7       extrapolated from adult to pediatric patients.

8                       We're aware of the difficulties inherent  
9       in the assessment of pain in pre-verbal pediatric  
10      patients. However, how reliable are the currently  
11      available tools for measuring pain or pain relief in  
12      the very young child?

13                      Also, please include in your discussion  
14      the issues of recruitment of pediatric patients for  
15      analgesic trials. What factors are inhibiting the  
16      ability to recruit these patients?

17                      While we have not seen this as a major  
18      impediment to the drug development programs that we're  
19      currently evaluating, it is important to us to know  
20      if there is a problem and why that problem exists and  
21      if there's something that we can do about it.

22                      Finally, include in your discussion the  
23      development of new formulations. What formulation and  
24      routes of administration that are currently not  
25      available might be useful in the pediatric population?

1 Dr. Friedman talked a lot about that, and we'd  
2 certainly like to hear from everybody else on that  
3 issue.

4 Some sponsors have actually argued that it  
5 would be inappropriate for the agency to require a  
6 sponsor to develop a new formulation for pediatric  
7 patients under the pediatric rule due to the lack of  
8 data to support that the formulation would be of any  
9 value in the marketplace.

10 While we believe that it's often difficult  
11 to know the value of a new drug product until it's  
12 been used and studied in a particular patient  
13 population, the rationale that a sponsor would not be  
14 marketing this new formulation is not one that we can  
15 consider in the setting of public health risk-benefit  
16 assessments.

17 However, we do recognize that the  
18 realities of the marketplace play a role in drug  
19 development.

20 The second drug that I want to tell you  
21 about is a new delivery system for chronic malignant  
22 pain patients. This is a drug delivery system that  
23 provides pain relief for pain lasting greater than 24  
24 hours.

25 A previously improved injectable opiate

1 project is held in a reservoir that adheres to the  
2 skin, and a continuous subcutaneous infusion is  
3 administered from the reservoir via a 25 gauge needle.

4 Bolus doses may also be administered by the patient  
5 by pressing a small button on the device. Appropriate  
6 lock-out mechanisms are built in.

7 The sponsor has requested a waiver for  
8 pediatric patients under 12 years of age, and they've  
9 done so because they believe that it would be an  
10 unsafe product in younger children.

11 In addition, they argued that patient  
12 controlled analgesia in the younger pediatric patients  
13 is inappropriate and that the boluses would be too  
14 large.

15 This, of course, brings up the possibility  
16 of requiring the sponsor to reformulate this device so  
17 that the product would be available for younger  
18 patients.

19 What are the appropriate age groups for  
20 continuous infusion devices for patient controlled  
21 analgesia, for needle delivery devices, and for  
22 devices that are applied to the skin for prolonged  
23 periods of time and for other innovative devices?

24 In discussing these delivery systems,  
25 please address the larger issue that we at the agency

1 are grappling with on a regular basis, and that is:  
2 what are the needs of the pediatric patient population  
3 for high tech delivery devices? Would it be more  
4 appropriate to require those resources to be spent on  
5 new formulations of old opiate drugs that can be  
6 delivered by more traditional routes of  
7 administration?

8 In particular, for the infant and neonatal  
9 patient populations, what are the specific needs that  
10 are not currently being met? And what are the  
11 existing impediments to meeting those needs?

12 The third and last item I'm going to tell  
13 you about is the new fixed dose opiate-acetaminophen  
14 combination drug product. Sponsor has requested a  
15 waiver for all pediatric patients, arguing the  
16 combination drug products are inappropriate for this  
17 patient population.

18 They also report that their IRBs don't  
19 feel that analgesic trials are ethical in children,  
20 especially placebo controlled trials.

21 As physicians in training, we were all  
22 taught that combination drug products are, in general,  
23 not the best idea. Not being able to adjust the  
24 individual components might lead to significant and  
25 unnecessary toxicities.

1                   However, these products do appear to  
2 improve compliance, and they're widely used in  
3 reality. Pediatric patients are likely to be more  
4 vulnerable to the toxicities, however.

5                   We'd appreciate your considering the value  
6 of these combination analgesic drug products and the  
7 pediatric armamentarium. While we always require that  
8 an appropriate rescue medication paradigm be written  
9 into any pediatric pain trial protocol, are there some  
10 settings in which this is not an appropriate strategy?

11                   We'd like you to discuss the ethical  
12 considerations that exist when performing pain studies  
13 in children.

14                   These are the currently available drug  
15 delivery systems for analgesics. I can't tell you  
16 about the new formulations in the pipeline today, but  
17 I can tell you that there are some very novel and  
18 innovative products out there, and that some of them  
19 have potential to advance the science of drug  
20 delivery.

21                   Some of them also have the potential to  
22 endanger patients and family members in very novel and  
23 innovative ways. As you address the following  
24 discussion points this afternoon, please remember to  
25 keep in mind the important legal and regulatory

1 framework described to you today, and please feel free  
2 to ask questions of those of us from the agency.

3 I'm going to read the question to you, and  
4 then Dr. Katz will introduce each one individually.

5 The first discussion point, as we prefer  
6 to call it, is the following. However, I'd just like  
7 to say that these were written to provide the basis  
8 for a sort of broad discussion of the issues relating  
9 to pediatric analgesic use and development.

10 That being said, there are a number of  
11 very specific questions we're trying to get at here,  
12 and so we may interrupt and try to focus your  
13 conversation in certain directions, and many of those  
14 questions are things that I included in this talk and  
15 that Dr. Friedman discussed in her talk as well.

16 This first question: the FDA is aware  
17 that there are still significant unmet needs in  
18 pediatric pain management. In the context of the  
19 agency's new mandate to require studies of drugs in  
20 children, discuss these unmet pharmacotherapeutic  
21 needs in current pediatric pain management and how  
22 they might be met with regard to opioid drug products.

23 Include discussion of the significance of  
24 barriers to opiate analgesic trials in children and  
25 what strategies might be used to overcome those

1 barriers.

2           The second discussion point for today this  
3 afternoon, many different opioid formulations,  
4 delivery methods and drug device combinations are  
5 currently on the market or may be available in the  
6 future. Discuss the age appropriateness and  
7 limitations of these various methods of  
8 administration, as well as any other that may be  
9 particularly useful or particularly hazardous in the  
10 treatment of pediatric pain patients.

11           And the third discussion point for this  
12 afternoon, it's been historically accepted that  
13 mechanisms of action of opioid analgesics are  
14 sufficiently similar between adults and children so  
15 that large controlled studies to demonstrate efficacy  
16 have not been required for a pediatric indication.  
17 Instead pediatric trials have been largely focused on  
18 investigating safety, pharmacokinetics and appropriate  
19 dosing regimens.

20           Discuss the shortfalls, if any, to this  
21 approach, and also include discussion of approaches to  
22 dose finding and the evaluation of pain in the very  
23 young patients.

24           And the last discussion point for this  
25 afternoon's session is as new opiate analgesic



1 products become available for home use in younger  
2 patients, there may be a risk of accidental ingestion  
3 by family members or deliberate abuse and diversion of  
4 these medications.

5 Discuss the strategies for risk  
6 communication and risk management that should be  
7 considered at the time of pediatric opioid drug  
8 approval.

9 ACTING CHAIRMAN KATZ: Thank you, Dr.  
10 Rappaport.

11 What we'll do now is we'll take a break,  
12 and reconvene back here at ten minutes after three,  
13 when we'll start to address these questions.

14 (Whereupon, the foregoing matter went off  
15 the record at 2:55 p.m. and went back on  
16 the record at 3:16 p.m.)

17 ACTING CHAIRMAN KATZ: Could we get  
18 started again? Could we take our seats, please?

19 What we'll do now is begin the discussion  
20 phase for the pediatric component of our program. Let  
21 me begin by just asking if anybody around the table  
22 has any questions for Dr. Rappaport about the last  
23 presentation or for any of the other speakers.

24 Dr. Horlocker.

25 DR. HORLOCKER: I would just like a

1 clarification of a pediatric waiver. If a company  
2 requests a waiver and it's granted, what are the  
3 medical legal implications for the use of this drug or  
4 device in pediatric patients? Specifically, are  
5 clinicians really going to be held medically  
6 responsible and basically not use these drugs or  
7 devices in children, or alternatively, will it be  
8 considered more of an off-label use and things will go  
9 on with business as usual?

10 DR. RODRIGUEZ: To the best of my  
11 knowledge, that's more into our council group, but I  
12 would, off the record, consider it like an off label  
13 use if you just do open. But I think by knowing that  
14 it was waived, I think the main one you should know is  
15 why that it was waived before you use it.

16 ACTING CHAIRMAN KATZ: Yes, Dr.  
17 McNicholas.

18 DR. McNICHOLAS: A follow-up on that,  
19 please.

20 So if they request a waiver it does not  
21 have anything in the label like this drug is not  
22 recommended for children under the age of?

23 DR. RAPPAPORT: There's usually that type  
24 of language. In recently approved products there's  
25 going to be that language in there if there's no

1 studies to base an approval on.

2 ACTING CHAIRMAN KATZ: Does that answer  
3 the question?

4 DR. McNICHOLAS: It does, but essentially  
5 in industry then there would be no real reason to try  
6 to get these labels on the drugs because as long as it  
7 doesn't specifically state in a black box that you  
8 cannot use this for pediatric patients, things will  
9 proceed as an off label indication.

10 ACTING CHAIRMAN KATZ: Dr. Smiley --

11 DR. RODRIGUEZ: When you give a -- when we  
12 go for a waiver, you actually put a -- in other words,  
13 you have the reason why. It's either because the  
14 disease does not exist in the pediatric population or  
15 it's unlikely to be in the pediatric population.

16 I was in a place where we said that, and  
17 there was actually one instance of something in the  
18 pediatric population. I can't recall which one it  
19 was, but anyway, that information should be available  
20 and could be available, I assume, from the FDA if you  
21 really want to find out why something cannot be -- you  
22 know, was not done.

23 ACTING CHAIRMAN KATZ: Dr. --

24 DR. KWEDER: I would just like to add to  
25 that that this is why, you know, the granting of

1       waivers for pediatric studies -- this is why the  
2       questions that Dr. Rappaport has laid out for the  
3       committee are extremely important to use. You know,  
4       the decision is in our hands whether or not to grant a  
5       waiver, and oftentimes the arguments that companies  
6       come to us with can be very persuasive about, gee, why  
7       there really isn't going to be any public health  
8       benefit to studying this drug in children. That's why  
9       we're taking some of these issues to you, because  
10      you're the experts.

11                   What is meaningful? What are the needs  
12      out there?

13                   And sometimes the needs are great in a  
14      small population, but that's important, and we need to  
15      hear that.

16                   DR. SMILEY: I guess in a minute we're  
17      going to get to the whole analgesic issue  
18      specifically. We're right now on the general  
19      pediatric questions.

20                   I guess my question was: is there any  
21      thought to actually putting in the label the reason  
22      the waiver was given?

23                   I mean, that would seem to kind of make  
24      people much more straightforward about why they're  
25      asking the FDA for a waiver. They're asking for a

1 waiver because this isn't a serious problem in  
2 pediatrics or because we already know the drug works.

3 Then the last line or wherever it would go in the  
4 label would say studies have not been done because of  
5 these reasons that have been accepted by the FDA or  
6 questioned.

7           Again, this is a more regulatory question,  
8 but it seems to me that would be a more effective way  
9 of keeping the reasons appropriate than just saying,  
10 "Well, if you really want to know why studies weren't  
11 done, Doctor, you could have called the FDA and  
12 asked."

13           DR. KWEDER: Actually information on who  
14 was granted waivers, deferrals, and requests is not  
15 necessarily that easy to get. As to whether or not to  
16 put it in a label, that's a very different discussion,  
17 but point well taken.

18           ACTING CHAIRMAN KATZ: Dr. Schechter.

19           DR. SCHECHTER: Yeah, I guess I have a  
20 misunderstanding about what the exclusivity or these  
21 sort of rules are about because it was my  
22 understanding that the reason the whole movement was  
23 towards promotion of pediatric drugs is that, in fact,  
24 this was a small population that were therapeutic  
25 orphans, in effect because no one wanted to do

1 research on them because it wasn't financially as  
2 viable.

3 So the issue that there's not substantial  
4 use as indication for a waiver seems contradictory to  
5 me, or at least it doesn't make sense in terms of what  
6 the pediatric community requires. There are often  
7 small cadres of kids who very much need these sorts of  
8 medications, but you wouldn't call that substantial  
9 use.

10 ACTING CHAIRMAN KATZ: Dr. Rodriguez,  
11 maybe you could address that.

12 DR. RODRIGUEZ: I think we're using the  
13 term "therapeutic orphans" very broadly here.  
14 Essentially the use of that name was namely because  
15 they were not being studied, period. That people took  
16 and took the way you're going at this moment, saying  
17 because of size, et cetera. And, in fact, we say that  
18 it has been used on more than 50,000 people, for  
19 example, and it has substantial public health benefit.

20 So that also takes care of even a smaller  
21 population where it might be the thing that's keeping  
22 them alive, for example. Then those things have to be  
23 addressed before a waiver is granted.

24 So essentially, you know, we've come a  
25 long way from the 1960s, therapeutic orphan first --

1 the discussion to the more present, which takes into  
2 consideration your concerns.

3 ACTING CHAIRMAN KATZ: With that, why  
4 don't we move into question number one, which I think  
5 all of you probably have, but I'll reiterate.

6 What are the unmet pharmacotherapeutic  
7 needs in pediatric pain management, and how might they  
8 be met by opioid products?

9 We already heard some suggestions which we  
10 could certainly amplify or have more comments on.  
11 Those were preparations that are more palatable for  
12 children; things that don't taste "yucky," if I am  
13 quoting you correctly; long acting opioid  
14 preparations, studies of continuous IV opioid  
15 infusions in children; transdermal preparations;  
16 studies of old drugs that might still be useful.  
17 Those are some of the ideas what were mentioned for  
18 potential unmet needs.

19 We certainly don't need to rehash every  
20 one, but are there any other comments about unmet  
21 clinical needs or unmet ways that opioids could help  
22 address that?

23 DR. SCHREINER: I think that when I've  
24 seen issues about formulation, people are often  
25 talking about taking pills and making liquids, and I

1 would just say in the extended release formulations,  
2 that we should be requiring companies to make lower  
3 dose pills, that often the obstacle is the smallest  
4 dose available for adults, is inappropriate for  
5 children below the age of about eight, nine, or ten,  
6 and some of those drugs would be of benefit to kids at  
7 younger ages.

8 So we shouldn't just be thinking about --  
9 it may not be possible to make an extended released  
10 liquid formulation for whatever reason, but it  
11 certainly would be possible to make a lower dose pill  
12 or lower doses.

13 ACTING CHAIRMAN KATZ: Other clinical  
14 areas of pediatric pain management where there are  
15 unmet needs? Dr. Foley.

16 DR. FOLEY: In a recent report from the  
17 National Cancer Policy Board, a particular chapter of  
18 that report which is called "Improving Palliative Care  
19 for Cancer," there's a section devoted to the needs of  
20 pediatric patients and the needs for the development  
21 of symptom control agents.

22 And in the research chapter written by  
23 Charlie Cleeland accompanying that same report there  
24 is a discussion that relates, again, to sort of the  
25 research barriers, and there appears to be a pretty



1 significant barrier within the cancer structure for  
2 symptom research in pediatrics because of a lack of an  
3 infrastructure, a lack of a work force, and that in  
4 the current cooperative groups for clinical trials,  
5 clinical trials for an active agent for cancer get  
6 paid about \$2,000 and for a symptom relief trial get  
7 \$400, and there's sort of no easy access to the  
8 available agents out there that are currently off  
9 patent. There's no way for the NCI to buy those  
10 drugs.

11 So they were identified as a series of  
12 very significant barriers that were limiting symptom  
13 research, pain particularly, among other things, in  
14 this population, and they, I think, would be important  
15 for the committee to look at that report and use those  
16 because they're evidence based barriers for which the  
17 National Cancer Policy Board thought that there was  
18 need to look at this.

19 ACTING CHAIRMAN KATZ: So the need for an  
20 infrastructure to conduct pediatric clinical trials  
21 and --

22 DR. FOLEY: Right, and to pay the  
23 researchers to do this, et cetera. So that that is  
24 one of the major barriers that limits this kind of  
25 work, and since many of the drugs are currently off

1 patent even, there's no source of funding for the NCI  
2 to buy those drugs and then to put them into a  
3 clinical trial.

4 And since cancer pain in the pediatric  
5 population has been a group that has been a driving  
6 force in trying to look at what agents would be  
7 available, the lack of that whole infrastructure to  
8 address this by the experts that could address this is  
9 significant.

10 ACTING CHAIRMAN KATZ: Thank you.

11 So pediatric cancer pain being the  
12 clinical niche and the lack of infrastructure being  
13 the barrier.

14 Other clinical areas? Dr. Friedman.

15 DR. FRIEDMAN: To follow up on Dr. Foley's  
16 point, the Children's Oncology Group is the large  
17 cooperative children's cancer group. It's formed by  
18 the merger of the four previous cooperative groups:  
19 the Pediatric Oncology Group, the Children's Cancer  
20 Group, the Revdomyer (phonetic) Sarcoma Study Group,  
21 and the Wilms (phonetic) Tumor Study group.

22 So now there is a single cooperative group  
23 that manages all trials for cancer in children in the  
24 United States and North America, with about 250  
25 participating hospitals.

1           It's important to note that children  
2 participate in cooperative group trials for cancer at  
3 a much, much higher rate than do adults. When  
4 cooperative group trials are open, approximately 90  
5 percent of children are treated on cooperative group  
6 trials as opposed to about ten to 20 percent of adults  
7 with cancer.

8           Therefore, if this infrastructure could be  
9 used for children with cancer, one could argue that  
10 similar pediatric groups, pediatric nephrology,  
11 pediatric pulmonary groups could be brought together  
12 and consortia of pediatrics subspecialists could be  
13 brought together so that multi-institution trials  
14 could be undertaken in a very efficient manner, as  
15 opposed to individual institutions.

16           In addition, cooperative group trials  
17 would give much better results than any single  
18 institution might give because you're not limited by  
19 sample size, selection bias, and other similar  
20 manners.

21           ACTING CHAIRMAN KATZ: So there's a  
22 consortium, but we still have a reimbursement issue  
23 for the symptom oriented trials. Does anyone have any  
24 thoughts about how that could be addressed?

25           (No response.)

1                   ACTING CHAIRMAN KATZ: Well, that question  
2 was a loser, wasn't it?

3                   (Laughter.)

4                   ACTING CHAIRMAN KATZ: Dr. Foley?

5                   DR. FOLEY: Yeah, I'm glad to. There's a  
6 recommendation that has been put before NCI that  
7 basically says that these should be supported, which  
8 would fit very nicely with trying to support the FDA  
9 to -- that has worked hard to sort of push forward  
10 these studies in the current legal setting in which  
11 these should occur so that there's a need for funding  
12 that needs to be put forth and prioritized both in  
13 developing the work force, in creating the  
14 infrastructure, and producing the incentives to do  
15 this.

16                   And I think that the work that you just  
17 have outlined as sort of the receptivity to do this  
18 and the support for doing this and moving this forward  
19 is the way of, I think, an FDA/NCI approach.

20                   And there is currently another IOM  
21 committee looking at how can we increase rapid  
22 development and translation of these drugs into the  
23 patient population with cancer, and I think that this  
24 is an opportunity that there's clearly an emphasis  
25 being placed on Phase I and Phase II trials in

1       pediatrics, and I think that it would be important if  
2       this group would recommend that they want to encourage  
3       the NIH to support these kinds of studies.

4                   ACTING CHAIRMAN KATZ:   Dr. Portenoy?

5                   DR.    PORTENOY:            I    would   ask   the  
6       pediatricians to comment on what's the consensus view  
7       about the proportion of children with chronic  
8       nonmalignant pain syndromes or not cancer related pain  
9       syndromes that might be candidates for opioid therapy.

10                   When a program like my own, which is  
11       focused on adults, gets a pediatric referral, it's  
12       usually a child who has been through a lot and has a  
13       very severe chronic pain syndrome, and we tend to use  
14       opioid drugs in that population like we do in adults.

15                   These are children with reflex sympathetic  
16       dystrophy, with chronic pain related to sickle cell  
17       anemia, chronic pain related to an inflammatory  
18       arthropathy.  So they usually have some relatively  
19       serious systemic illness, and the question is:  to  
20       what extent is that common practice now among  
21       pediatricians, or might there be some speculation  
22       about what proportion of those populations?

23                   And then, of course, there's the  
24       population of children with chronic headaches and  
25       chronic abdominal pain of unknown cause, and

1 fibromyalgia syndromes, and all of these chronic pain  
2 syndromes that aren't associated with potentially  
3 progressive systemic illnesses.

4 And so what's the consensus view in the  
5 pediatric world for those populations?

6 DR. SCHECHTER: Well, I can't really speak  
7 for the whole community, but in general, we share the  
8 same sort of approaches that you do. I think there's  
9 very little debate about children with documented  
10 organic illness, inflammatory bowel syndrome, a  
11 variety of other sorts of things where there's no  
12 cancer certainly; sickle cell disease where there's no  
13 question that those children receive opioids, and the  
14 same sorts of drugs as sort of our adult colleagues  
15 would prescribe.

16 I think with RSD or complex regional pain  
17 syndrome, I think there has been a slightly different  
18 approach in pediatrics which tends to be more  
19 conservative, not necessarily withholding opioids, but  
20 much less aggressive regarding regional anesthesia, in  
21 general. And it's not the first thing that we do and  
22 it's significantly down the road with those kinds of  
23 problems.

24 I think there is within that community, as  
25 well as in this sort of fibromyalgia community, there

1 is a reluctance I would suggest to use opioids in some  
2 aspects, but I think it probably parallels the similar  
3 debates within the adult community about whether to  
4 start with -- at what level we use analgesics.

5 So I'd say it probably is reasonably  
6 similar in terms of approach and philosophy to what  
7 the adult community is doing. I wonder if my  
8 pediatric colleagues would support that.

9 DR. SCHREINER: I think that in a study  
10 that we helped run, which was about 120 patients with  
11 chronic pain, and chronic was defined as a need for  
12 potent analgesic anticipated to be somewhere between  
13 seven and 30 days, 80 percent of the patients had  
14 either postop. or traumatic injuries. Less than ten  
15 percent were oncology, and then there were about a  
16 similar percentage, five or six percent that were  
17 rheumatologic or hematologic problems.

18 So most of them are going to -- even when  
19 you're looking at dosing for a week to a month, the  
20 majority of the kids are going to be traumatic or  
21 surgical, and of those 120 patients, only 80 actually  
22 needed therapy for seven days. So a third of the  
23 group dropped out because they were off potent  
24 medications sooner.

25 ACTING CHAIRMAN KATZ: Dr. Tobin.

1 DR. TOBIN: Yeah, I think our experience  
2 is the same, and the thing I have concern about is  
3 that should a child have recurrent pain, that we don't  
4 have data on PK and PD after long-term recurrent  
5 exposure, and that's certainly my experience with  
6 sickle cell children who come in for recurrent  
7 treatment.

8 But with the more recent advance of  
9 dealing more effectively with procedural related pain,  
10 particularly lumbar puncture, bone marrow aspiration,  
11 and multiple recurrent procedures in children, we have  
12 no PK or PD data about the fact that we are  
13 recurrently anesthetizing these children once a week,  
14 once every two weeks over a six to 12 week period of  
15 time as our oncologists are advancing their therapy,  
16 they require us to put the child in a receptive mode  
17 for that therapy, and I'm very impressed at their  
18 tolerance in the increasing doses that are well out of  
19 the labeling range just in order to get the child  
20 unconscious, not necessarily immobile.

21 So I think we need that PK/PD data for  
22 recurrent, persistent, procedural or pathologic pain  
23 due to their disease, such as sickle cell pain.

24 ACTING CHAIRMAN KATZ: Anything else on  
25 the wish list for opioid development? Dr. Schechter?



1 DR. SCHECHTER: The other, along those  
2 same lines, again, the neonatal population has been  
3 one in which there's been a dramatic increase. In Dr.  
4 Anon's (phonetic) work, the no pain trial, which  
5 results will be out shortly, would suggest that kids,  
6 newborns or preterms who are ventilated in the nursery  
7 for prolonged periods of time, if they are ventilated  
8 without adequate sedation or analgesia have a much  
9 higher incidence of a variety of sort of noxious  
10 events and intraventricular bleeds.

11 So the tendency with that data having come  
12 out at least preliminarily, there has been a dramatic  
13 shift towards aggressive sedation in the neonatal  
14 period. There is very little data on the long-term  
15 effects of that for babies, and it would be very, very  
16 helpful to have that even though that has become a  
17 state of the art in most settings.

18 DR. TOBIN: I'd like to follow up on that.  
19 We have seen such incredible tolerance in these tiny  
20 infants that it was well beyond anyone's expectations,  
21 and I can't believe that there would be any sponsor in  
22 industry who'd be willing to do a trial on a novel  
23 agent in an infant population under two kilograms;  
24 that this really ought to be one of those small groups  
25 of patients who demand some of that money out of the

1 NIH or at least be considered competitive for some of  
2 those funds because we need this data in order to take  
3 care of those children more appropriately.

4 ACTING CHAIRMAN KATZ: So there are  
5 clearly specific subpopulations of pediatric patients  
6 in which more data is needed, and that's one of the  
7 wishes that it seems like everybody is expressing.

8 Anything else by way of specific  
9 formulations, specific delivery systems that are  
10 needed in a subgroup or general group of pediatric  
11 patients?

12 (No response.)

13 ACTING CHAIRMAN KATZ: All right. We'll  
14 go on to question number two then.

15 Question number two is discuss the  
16 significance of barriers to opioid analgesic trials in  
17 children, ethical, safety, scientific, practical, et  
18 cetera, and what strategies might be used to overcome  
19 the barriers.

20 So perhaps somebody with experience in  
21 this area could lay out a list of what the major  
22 barriers are. Any takers?

23 I don't know anything about pediatrics.  
24 I'm relying on you guys to pinch hit for me here.

25 DR. TOBIN: I'll start, and I hope this

1 just opens up a few questions.

2 We are currently involved in a number of  
3 clinical trials involving analgesic and other new  
4 agents in children under age 12. The first thing I'd  
5 like to echo is what Dr. Friedman said. It's actually  
6 quite surprising the number of families that are  
7 willing to enroll their child in an experimental  
8 study, and that has been greatly to our favor.

9 So instead of the large number of patients  
10 who decline, we actually have a higher than 25  
11 percent, usually closer to 60 percent who will say  
12 yes.

13 The second is that I still in my own mind  
14 question whether a child really has a lot of  
15 capability of giving assent, and although we require  
16 it down to age six or seven, I'm still not sure that  
17 children six to nine really understand anything about  
18 risk if there is greater than minimal risk

19 Probably the third issue is that the IRBs  
20 are getting more savvy about requiring why you are not  
21 going to study children, if you are not going to study  
22 children. So that has been an advantage for children  
23 to be included in studies, and those are not  
24 necessarily sponsor initiated studies, but just any  
25 study that we wish to do.

1           A couple of other questions are listed  
2 here about fixed dose combinations, inappropriate in  
3 this setting. They may or may not be. I think that  
4 some fixed dose combinations are appropriate, but not  
5 necessarily.

6           And just as importantly, I think we've  
7 matured as a group of clinical investigators, that  
8 what used to be the placebo controlled randomized  
9 trial is no longer the gold standard. It is one of  
10 many standards.

11           More the randomized controlled trial,  
12 which means that no one will be necessarily diverted  
13 only to a placebo group and have insufficient rescue  
14 medication. That is considered an inappropriate  
15 design in some studies right now.

16           So children will either have a high versus  
17 low dose with rescue or a current standard of care  
18 versus a new formulation, but the placebo controlled  
19 trial has not outlived its usefulness, but it clearly  
20 has now become equal with other appropriate ways of  
21 randomizing the control.

22           ACTING CHAIRMAN KATZ: Still as someone  
23 who does not do pediatric trials, all my friends who  
24 do still tell me that it's very difficult to get them  
25 done, and I'm still not sure that I've heard really.

1                   There have been some actually positive  
2 things why some of the rumors that I might have  
3 thought make it difficult are actually not true, the  
4 high rate of consent, et cetera. Am I missing what  
5 the barriers still are to getting these pediatric  
6 trials finished?

7                   Yes.

8                   DR. SCHREINER: I personally believe we  
9 should be doing placebo controlled trials, but with  
10 rescue as the primary outcome variable, not pain  
11 scores. Children given access to rescue, like if you  
12 did a six to 16 year old population and they had a PCA  
13 for rescue, they will titrate themselves to the same  
14 pain score, and it's not zero. They don't titrate  
15 themselves down to zero. They make that tradeoff  
16 between the benefits of more pain relief versus the  
17 side effects.

18                   I believe that kids six and up can do  
19 that, and there are also in some centers, like  
20 Hopkins, which do nurse controlled and parent  
21 controlled analgesia where they are operating the  
22 button.

23                   So I think one of the things we get with  
24 placebo controlled trials is we get, you know, the  
25 equivalency of those oral drugs to intravenous

1 morphine, which is really what people have the most  
2 experience with, and I think that's what we should be  
3 doing, as long as there's access to rescue.

4 I think there are some barriers for the  
5 chronic dosing studies, particularly the long release  
6 studies, because children when they're on oral  
7 medications go home. Nobody wants to bring a child in  
8 pain back to the hospital, and the biggest reason why  
9 people do not consent to chronic dosing studies is  
10 they don't want to come back until the child is no  
11 longer in pain.

12 So we have to think about do we really  
13 need blood work if there is no evidence in a large  
14 number of adults of any toxicity to deliver a kidney.

15 Do we really need blood work from these kids? Can we  
16 not wait until three weeks or four weeks when the kids  
17 come back to assess for adverse events?

18 And I think the requirement for steady  
19 state PK for drugs that have shown no evidence in  
20 adults of either accumulation or inducement of enzymes  
21 so that they might have other drugs is a big  
22 impediment because bringing a kid who's had scoliosis  
23 surgery back seven days after surgery so you can do  
24 steady state PK is a nonwinner from the family's  
25 perspective, and these children just simply do not

1 stay in the hospital on these medications.

2 So that is a very common reason why people  
3 come in.

4 ACTING CHAIRMAN KATZ: So that sounds like  
5 a legitimate barrier. On the one hand we have folks  
6 demanding PK/PD studies, but on the other hand, that  
7 is difficult for patients to comply with.

8 DR. SCHREINER: I think that for patients  
9 that are in the hospital, for hospitalized  
10 populations, for intravenous drugs, which is what  
11 you're talking about, Joe, for that chronic use,  
12 that's a different story, and I'm all for that we  
13 should be doing single dose PK studies.

14 But if you can predict the steady state  
15 levels in adults, then certainly if we exclude the  
16 neonates, the six month olds, perhaps, and look at the  
17 older kids, we can predict from single dose PK,  
18 standard PK, the steady state levels. Then I think  
19 that that is -- it has two problems. one is if we're  
20 going to use rescue medication, you'd like to use the  
21 same moiety. so if you're using MS-contin, you'd like  
22 to use immediate release morphine as the rescue.

23 Well, if you're going to do steady state  
24 PK, now you have to give them some other drug for  
25 rescue, and so then you don't know how much of that

1 drug they need in that 12 or 24 hour period. So it  
2 lessons -- for me it detracts rather than adds from  
3 the information we get, and it makes it harder to  
4 enroll and more expensive to do, and I don't think it  
5 adds anything.

6 ACTING CHAIRMAN KATZ: Other barriers?  
7 Dr. Reidenburg?

8 DR. REIDENBURG: Yeah. I'd like to pick  
9 up on that and add that really what we need to focus  
10 on are the areas of ignorance that give us trouble,  
11 that if we had the information, we'd change our  
12 practice, and that for the kind of studies like you're  
13 talking about, dosing to effect, I doubt very much  
14 that in these patients steady state PK is going to  
15 give you information that will change what you're  
16 doing with the patients because you're setting your  
17 dose in accordance to response.

18 And I can say this for a number of things  
19 that we've mentioned, that studies won't change the  
20 pharmacology of anything. They'll just describe it a  
21 little more precisely, and that if we focus on the  
22 specific areas of ignorance where the information --  
23 where we're troubled when we treat the patients and  
24 this information will help us, then we can focus a  
25 whole lot better on what we need for the limited



1 resources in terms of patient availability as well as  
2 money.

3 ACTING CHAIRMAN KATZ: So it sounds like  
4 several people are saying that the requirement for  
5 steady state PK levels in these studies is not  
6 necessary from a clinical or from a scientific point  
7 of view.

8 So where is this barrier coming from? Is  
9 this industry perceiving a regulatory requirement for  
10 this? Is this an actual regulatory requirement for  
11 this information?

12 DR. SCHREINER: I'm seeing it in the  
13 written requests. So I assume that within the FDA  
14 that someone perceives this as a requirement.

15 ACTING CHAIRMAN KATZ: Dr. Rappaport, Dr.  
16 Rodriguez, any thoughts about that?

17 DR. RAPPAPORT: Would you repeat what it  
18 is that we would see as a requirement?

19 DR. SCHREINER: Steady state PK for --

20 DR. RAPPAPORT: That's not a standard  
21 requirement. It may be sometimes something that we  
22 have asked for. It depends on the situation though,  
23 on the particular drug and the particular written  
24 request.

25 ACTING CHAIRMAN KATZ: Dr. Tobin?

1 DR. TOBIN: I just want to get into this  
2 conversation. I think this has to do between  
3 regulatory and the sponsor, and what do they want to  
4 define as the primary endpoint.

5 If the sponsor really isn't as interested  
6 in efficacy and they think PK is the faster, quicker  
7 way to get the study done, that's what they're going  
8 to offer, and that's what's going to be given back by  
9 the FDA.

10 And as we've talked among the group of  
11 pediatric individuals, efficacy is certainly a harder,  
12 a less quantitative endpoint, although our conclusions  
13 are just what Mark said. Children titrate themselves  
14 to some level that they're comfortable with even  
15 though it's not zero, but demonstrating safety,  
16 efficacy, or enhanced or an improved new product over  
17 an old product, you're not going to see very easily in  
18 these studies.

19 So I think that's where the written  
20 request for PK data frequently comes from.

21 DR. RAPPAPORT: That's probably the  
22 situation, yes.

23 ACTING CHAIRMAN KATZ: So it sounds like  
24 the recommendation is that perhaps a more creative  
25 dialogue between the sponsor and the FDA could

1 potentially obviate the need for steady state PK in  
2 some of these studies that might decrease a barrier to  
3 getting the study done.

4 DR. RAPPAPORT: Well, the purpose of  
5 getting the steady state PK would be to look at dosing  
6 over time obviously and needs for any changes. So if  
7 we don't have clinical information from efficacy  
8 studies, generally we feel that we need one or the  
9 other.

10 ACTING CHAIRMAN KATZ: Yes, Dr. Smiley.

11 DR. SMILEY: Yeah, but in the case of  
12 opioids, we were talking about this before. It's one  
13 of those drugs where the pharmacokinetics are much  
14 less important than the effect because the difference  
15 between -- I mean, we're talking about differences  
16 between kids and adults -- the difference between any  
17 two adults at the end of this table on average is  
18 probably not that much different than the difference  
19 between the average kid and the average adult.

20 So actually the average kid and average  
21 adult are probably very similar. So that the actual  
22 pharmacokinetics, the actual drug levels are much less  
23 predictive than just the clinical response, and the  
24 difference is orders of magnitude have been described  
25 probably based more on genetics than the age of the

1 individual.

2           So I think it's a drug class where the  
3 pharmacokinetic data even if you get it and you say,  
4 well, it's the same or different between kids and  
5 adults, tells you almost nothing about clinical  
6 response.

7           DR. RAPPAPORT: We hear the comments.  
8 Thank you.

9           DR. SCHREINER: And I think we should be  
10 looking at dose response in terms of efficacy. I  
11 think it's possible to do and we should do it.

12           ACTING CHAIRMAN KATZ: Dr. Holmboe.

13           DR. HOLMBOE: The other thing I would  
14 point out is that this really is a trial design issue.  
15 What I'm hearing is that you're expecting the kids to  
16 come to you. What I would argue is that for a lot of  
17 this data, you can go to them and get it, and this  
18 really becomes a patient centered issue.

19           You may be putting up certain hurdles for  
20 the patient that you can remove very easily by going  
21 to where they are. If they're at home, then drawing  
22 things like blood can be easily done. I do that all  
23 the time with my geriatric patients. I don't expect  
24 them to come to the hospital every time I need to have  
25 blood drawn because that would be cruel and unusual

1 punishment for somebody who's in a walker.

2 The same principles, I think, would hold  
3 for a child.

4 ACTING CHAIRMAN KATZ: Other barriers to  
5 getting pediatric analgesic trials done? Dr.  
6 Schechter.

7 DR. SCHECHTER: Just a few things. I  
8 think what Dr. Friedman suggested before is a seminal  
9 issue in all of this, which is the sort of lack of a  
10 patient pool at any given location, and we had talked  
11 as a pediatric pain community frequently about  
12 developing collaborative groups modeled on this sort  
13 of COG group, but not necessarily linked with cancer  
14 per se because there are a lot of broader pediatric  
15 pain issues, and five, eight, ten centers together  
16 could instantly present to industry the capability of  
17 having a population that the accrual rate that would  
18 be much better.

19 In most of the studies that I've been  
20 involved with, it's been hard to recruit patients  
21 because there's been a couple of sites and studies go  
22 on for long periods of time. There's recruitment  
23 issues, but if one had an automatic base that one  
24 could feed into or withdraw from a group of centers  
25 that were comfortable with us, I think that would

1 help.

2           The second issue that I just wanted to  
3 raise has to do with the issue of effectiveness, if  
4 you will, or assessment more critically, and I think  
5 that that has been the perceived barrier for a while  
6 because of people's feeling that children were harder  
7 to assess in certain ways, and they certainly are, and  
8 unfortunately the data continues to suggest that there  
9 are new assessments. Every other place has a new tool  
10 with a new acronym coming out all the time, which has  
11 been in a certain way a problem in this literature  
12 because I don't think there will be a gold standard,  
13 but there are certainly many instruments at this  
14 point, and most people in the pediatric pain  
15 measurement area suggest we don't need more tools  
16 necessarily at this point.

17           But I wonder whether there's a sense of  
18 inaccuracy that's out there or vagueness, and then  
19 people are sort of reluctant to get involved in this  
20 because of some of the measurement issues, which I  
21 think are probably not really relevant specifically.  
22 There are certainly enough tools there that are widely  
23 agreed upon and that at least can give you pain/no  
24 pain or some gradations within that.

25           And the final other issue had to do with

1 the fact that so much of the pediatric pain is  
2 postoperative pain, and there's a huge percent of kids  
3 that are going to have day case surgeries, and kids  
4 are coming home. And there's some Finnish data and a  
5 number of other studies that have suggested a large  
6 number of children have continued to have pain at  
7 home. Yet they're inadequately treated because of a  
8 variety of reasons, their parents' reluctance, a whole  
9 host of other sorts of reasons, inadequate  
10 prescribing.

11 And I think that that's another problem  
12 that we have, is that the kids aren't in the hospital  
13 in the way that they used to be. So it's harder to  
14 get that particular pool, which is a very vast and  
15 very, I would suggest, under treated pool.

16 ACTING CHAIRMAN KATZ: Yes, Dr. Roberts.

17 DR. ROBERTS: And to deal with this issue  
18 of sort of reaching out to the kids as Eric and Mark  
19 have talked about, there are networks out there. The  
20 American Academy of Pediatrics has pros, the pediatric  
21 research in the office setting network, practicing  
22 pediatricians who are going to be taking care of the  
23 vast majority of kids who are postop. It's not going  
24 to be at the cancer center or with the pediatric  
25 nephrologist.

1           Family docs and pediatricians take care of  
2 about the same proportion of kids. So using both  
3 kinds of networks I think would be very helpful at  
4 getting past some of these barriers about where to get  
5 at them.

6           ACTING CHAIRMAN KATZ: Is there a reason  
7 that you would point to why those network that are  
8 already in place have not been used more aggressively  
9 for conducting clinical trials of analgesics?

10          DR. ROBERTS: There's several reasons.  
11 The first is that it's a relatively recent phenomenon.  
12 They've only been recently developed in the last  
13 eight to ten years. so there's kind of a critical  
14 mass and momentum issue, and the second is because  
15 they're attempting to look at the entire scope of  
16 things that affect children's health if we're talking  
17 about kids from, you know, growth and development  
18 through common infectious disease, through whatever.  
19 Pain is just one of a myriad number of issues they're  
20 looking at.

21          But I'm suggesting that for sponsors and  
22 the FDA as they look around at places to sort of get  
23 at kids in real world settings, this is a good  
24 potential pathway.

25          ACTING CHAIRMAN KATZ: Dr. Rodriguez?



1 DR. RODRIGUEZ: The pediatric pharmacology  
2 research units that you're all aware of, 13 centers  
3 across the United States have actually done quite a  
4 bit of work in evaluating not only new modalities of  
5 therapy, but even more interestingly the mechanisms,  
6 in fact, are evolving into various things.

7 In fact, some of the things that I flashed  
8 there like propofol, et cetera, they have participated  
9 in those studies. The infrastructure is supported by  
10 the NIH, is a competitive process. These people are,  
11 you know, top of the notch, and essentially you know,  
12 they're up to 13. I don't know how many more they're  
13 going to do, but I'm sure that they will refund it  
14 because this is a competitive process, but something  
15 like that is very similar to what we talk about with  
16 the oncology.

17 We have a representative to the oncology  
18 that participates, Steve Hirschfield, very closely,  
19 and in fact, I go to their meetings, and some of this  
20 stuff that we're talking about, streamlining and  
21 efficiency, comes very rarely.

22 And I agree. They've done more than the  
23 adults do in terms of the studies and in terms of  
24 participation.

25 ACTING CHAIRMAN KATZ: Yes, Dr. Roberts.

1 DR. ROBERTS: Just one other comment that  
2 Dr. Rodriguez reminded me of. You had asked the  
3 question about why these kind of networks, practice  
4 based networks haven't been used more, and besides  
5 their newness, you have two other issues, I think.  
6 One is the methodology issues are a little more  
7 complex in the out patient setting because the ability  
8 to control the environment is so much less.

9 You know, in a sense you go from a lab  
10 bench with rats in a cage to an academic medical  
11 center, which is sort of humans in a cage, to the  
12 office setting which is, you know, the rats are all  
13 loose running around.

14 So that's a challenge, and we're still  
15 figuring that one out, how to control for those  
16 multiple confounders.

17 But the second, which Dr. Rodriguez  
18 mentioned, is the issue of infrastructure. If you  
19 have a center, say, a university that maybe has 30  
20 kids with a condition of interest, it takes one level  
21 of sort of infrastructure support to study them.

22 Now imagine you've got 30 practices, each  
23 with one kid with the condition of interest. That's a  
24 very different order of magnitude in terms of  
25 maintaining the support, and the support for those

1 infrastructures have really not been there.

2 And so one of the things that the FDA  
3 could help with the sponsors, with NIH is to begin to  
4 help provide that kind of ongoing support so that you  
5 can develop, you know -- in the marketing world it  
6 would be distribution systems sort of get the word  
7 out. You use a very different model than in a  
8 centralized approach.

9 ACTING CHAIRMAN KATZ: Dr. McLeskey.

10 DR. McLESKEY: Well, in follow-up to that  
11 specific comment, I'm not a statistician, but our  
12 statisticians tell me that when we move from a single  
13 site to multiple sites, as you've mentioned, probably  
14 because of the variability to which you've alluded,  
15 the n goes up quite a bit in order to maintain the  
16 same power.

17 So that is one of the hurdles that we come  
18 upon in this multi-center type of an approach.

19 ACTING CHAIRMAN KATZ: Any other industry  
20 perspectives and barriers to conducting trials in the  
21 pediatric population?

22 DR. TOBIN: Can I make a suggestion?

23 ACTING CHAIRMAN KATZ: Yes, please, Dr.  
24 Tobin.

25 DR. McLESKEY: Other than those that have

1       been mentioned so far?

2                       Sorry, Joe.

3                       DR. TOBIN:     Charlie, I want to address  
4       this to you and Dr. Rappaport.

5                       In almost all of the studies that a  
6       sponsor comes to us with, one of the exclusions are  
7       the child may not be involved in another study within  
8       30 days prior or 30 days after.

9                       If I'm in an academic center with a bunch  
10      of children in an oncology trial, they're excluded  
11      then from the opioid trial.

12                      Now, my question becomes then:  is this  
13      exclusion something that sponsors are requesting  
14      because they want to have more clarity in their data  
15      and not have adverse events suggested due to their  
16      product?  Is it because there is sufficient product  
17      interaction, or is it a regulatory decision?  And how  
18      do you both perceive that?

19                      ACTING CHAIRMAN KATZ:     It's not a  
20      regulatory decision.

21                      DR. McLESKEY:     Well, Joe, that's a  
22      complicated issue.  For example, you've already  
23      mentioned that in some of the opioid studies, you  
24      would eliminate from the group patients who had a  
25      history of substance abuse for potentially obvious

1 reasons.

2 You might want to eliminate children in  
3 this case who have been involved with other studies  
4 because you don't want your product to be accused of  
5 causing some kind of organ toxicity that might be as a  
6 result of a drug interaction or some kind of a  
7 hangover effect from a previous study.

8 So I think all of us strive to achieve a  
9 direct product focus and try to limit as many  
10 variables as possible, and I suspect that's the reason  
11 behind it.

12 ACTING CHAIRMAN KATZ: Dr. Friedman.

13 DR. FRIEDMAN: To follow up on that point,  
14 I think that's a valuable point, but I think it is  
15 clearly a barrier. The other thing is that if you --  
16 and I'm using the oncology setting because obviously  
17 that's the one I'm most familiar with. We have many  
18 children who are at the end of life who have relapsed  
19 from their cancer, have been treated on multiple  
20 protocols. Sometimes the parents or the children  
21 elect to participate in a Phase I study of an  
22 experimental agent. Often they're not eligible for  
23 the same reason, because they've already been on the  
24 previous study or they've had so many studies.

25 So in that case, we often use

1       chemotherapeutic agents in a palliative setting to try  
2       to at least get some -- in some ways to use it as a  
3       symptom control to try to make the end of life easier  
4       for those children and their parents.

5                 So you may have children who in the same  
6       physiologic situation with respect to organ toxicity,  
7       you may have children who have the same risks for  
8       toxicity, but haven't officially enrolled on another  
9       trial and, therefore, may have the same risks with  
10      respect to the opioids in terms of the opioid being  
11      associated with an adverse effect as children who have  
12      been on trials in that period of time.

13                So that just has to be remembered, and  
14      perhaps there needs just to be some sort of  
15      controlling for other medications as opposed to  
16      precluding those children from study.

17                ACTING CHAIRMAN KATZ: Thank you.

18                That was a useful discussion on the  
19      barriers. I'm going to move on to the next question,  
20      which is -- I'll read it quickly and then focus on  
21      what seems to be the salient issue.

22                Many different opioid formulations,  
23      delivery methods, and drug device combinations are  
24      currently available on the market or may be available  
25      in the future. Discuss the age appropriateness and

1 limitations of these various methods of  
2 administration, as well as any others that may be  
3 useful or particularly hazardous in pediatrics.

4 Are there particular delivery systems that  
5 have found a useful niche in pediatric pain management  
6 that should be encouraged?

7 And so perhaps our pediatric colleagues  
8 could address whether their particular delivery  
9 systems that are either especially useful or  
10 potentially useful or potentially inappropriate in any  
11 particular pediatric populations.

12 DR. FRIEDMAN: I addressed some of this in  
13 my comments obviously earlier this afternoon. I think  
14 when we think about delivery systems in pediatrics we  
15 obviously want to think about delivery systems that  
16 are noninvasive because of the issue of trying to deal  
17 with children.

18 One of the little vignettes that Dr.  
19 Rappaport gave us was that of a subcutaneous delivery  
20 system. That's an issue in pediatrics because even  
21 the tiniest needle may be considered invasive for  
22 kids, but the other issues that he brought up are very  
23 important, such as should the needle get dislodged and  
24 the child is no longer receiving the medication that  
25 they want to receive if it's a 24 hour.

1           An older child can clearly do that, and  
2 with small subcutaneous systems, I think that that's  
3 not -- it shouldn't be excluded. However, kids still  
4 have a big barrier when they see a needle, even the  
5 smallest, thinnest possible needle.

6           But I think for teenagers who may not have  
7 indwelling catheters and want to use that kind of  
8 system, smaller, tinier needles, such as one that I  
9 was shown during the break, are really very valuable.

10          I think they will be less valuable for the other  
11 children.

12           We do use subcutaneous systems in children  
13 for some medicines. For example, children who have  
14 iron overload are treated with desferol (phonetic),  
15 which is a subcutaneous infusion that goes over  
16 several hours. The compliance rate is terrible  
17 because kids have to stick themselves each day with a  
18 subcutaneous needle to get their desferol, and we have  
19 children, older teenagers, who actually prefer to be  
20 iron overloaded than to give themselves the desferol  
21 which will chelate them.

22           So I think that's subcutaneous. We need  
23 better longer acting agents, and I agree with what was  
24 said earlier. They don't necessarily need to be  
25 liquids. I mean if they can be in a tiny capsule,



1 that you could have a young child swallow. Certainly  
2 long acting liquids would be ideal.

3 It would be nice to have more options that  
4 don't require either the need for an intravenous or a  
5 subcutaneous device. Intravenous devices we use a lot  
6 in oncology. Most of our patients have indwelling  
7 catheters, but I would argue for the rest of the  
8 pediatric world that's probably not the case. So  
9 we're probably a spoiled subsection.

10 So we really need to think about it.  
11 Patches are a wonderful idea, but the problem is most  
12 patches don't have a small enough dose for kids, and  
13 what people are doing out in the community is they're  
14 taking, you know, the bigger size patch, putting  
15 something underneath the patch on half the patch and  
16 thinking that they're getting half the dose.

17 People are doing all kinds of things to  
18 try to get around this, and the answer needs to  
19 obviously be more formulations.

20 So I think even young kids, even kids who  
21 are four and five years old can swallow a small pill.

22 We do that. In leukemia therapy, we have pills that  
23 kids need to swallow that they don't come in liquid  
24 medications, and the kids don't like them crushed  
25 because then they taste the pill. So what we do is we

1 take, you know, little, tiny corticosteroid pills and  
2 we put them in tiny little gel caps, and I can get a  
3 three year old to swallow a tiny little gel cap to get  
4 that medication in.

5 So I think if we have smaller doses for  
6 the long acting medications and tinier capsules or  
7 even pills, that will help in addition to liquid  
8 medications.

9 And the other thing is to think about  
10 novel ways of giving medications, such as these films  
11 that somebody just puts in their mouth. I mean,  
12 they're doing them now with after coffee mints. They  
13 have little films that they were giving out at the  
14 recent meetings. So that's another way, and you know,  
15 that's an easy thing to give to kids.

16 I do worry about things like lollipops, as  
17 I talked about, and we need to think about issues of  
18 choking in children and think about whether, you know,  
19 whatever it is, that it's not a choking risk in a  
20 child.

21 ACTING CHAIRMAN KATZ: Dr. Schuster.

22 DR. SCHUSTER: Actually you began to  
23 answer the question I was going to ask. We're  
24 reluctant about the fentanyl lollipop, and in addition  
25 to choking you seem to have some other objections.

1 And I wondered have there actually been significant  
2 numbers or cases of them being diverted to other  
3 children who have suffered adverse events because of  
4 it? What has been the experience?

5 ACTING CHAIRMAN KATZ: Dr. Ashburn, do you  
6 have an answer for that?

7 DR. ASHBURN: No, but I'll make one up.

8 (Laughter.)

9 ACTING CHAIRMAN KATZ: Works for me.

10 DR. ASHBURN: For those of you who don't  
11 know, I participated in many of the initial trials on  
12 oral transmucosal fentanyl citrate. We don't use the  
13 "L" word. The pediatric product actually has been  
14 withdrawn from the market which actually I'm  
15 disappointed with, even though I did not agree that  
16 the product was a very good drug to be used for  
17 preoperative sedation.

18 The lower dosage forms, removing the lower  
19 dosage forms from the market for their ability to be  
20 used for breakthrough cancer pain and for procedure  
21 related pain is probably a step backward based on the  
22 discussion that we're having here today.

23 To my knowledge, I know of no -- although  
24 I don't track the data, I know of no reports that the  
25 drug is necessarily ramp with diversion with regard to

1 diverting it to other areas. The FDA worked with the  
2 company, did a lot of work with the company, to  
3 develop a risk management plan and packaging in order  
4 to work very hard to avoid diversion of either the  
5 pediatric dose indication or the adult dosing form,  
6 and the product does seem to have a niche for  
7 breakthrough pain, particularly for individuals who  
8 are having cancer.

9 One thing though I wanted to talk about  
10 was that there's -- and this kind of goes to what  
11 we're going to talk tomorrow on, and I just want to  
12 bring the subject up -- is the concern of potential  
13 benefit with potential risk, and if you get right down  
14 to it, that's some of the things -- we haven't really  
15 talked about that in the sense that when we talk about  
16 a waiver or a film with a fairly rapid transdermal  
17 delivery or transmucosal delivery system, that's going  
18 to lend itself quite nicely to diversion.

19 I mean if you have a film and  
20 theoretically you can load the film up. If you have a  
21 wafer, then you're going to be able to crush the wafer  
22 and deliver it transmucosally through the nasal  
23 mucosa. And it will be interesting in hearing from  
24 the FDA, from other individuals. How do you balance  
25 that risk?

1           The unmet need of pediatric pain and adult  
2 pain versus the potential for diversion for illegal  
3 illicit use of the product.

4           ACTING CHAIRMAN KATZ: Dr. Schechter.

5           Is your mic on?

6           DR. SCHECHTER: We actually did the  
7 clinical studies of transmucosal fentanyl for  
8 procedure pain in kids with cancer for bone marrow  
9 aspirations, and I really respectfully totally  
10 disagree with the notion that it has a significant  
11 potential for diversion for a bunch of reasons.  
12 Number one, it's a hospital administered medication,  
13 at least the way it was formulated initially.

14           So to give kids that prior procedure who  
15 are coming in for a laceration repair when one doesn't  
16 have to start a line, it's not going to be sitting at  
17 home in your medicine cabinet.

18           Number two, the way it was formulated and  
19 sort of sucking on the lollipop, there are fast  
20 suckers and slow suckers. If you bite the medication,  
21 if you bite the lollipop, basically it's no longer --  
22 it's not metabolized in the stomach. So it sort of  
23 loses efficacy.

24           The other thing is the onset is not a rush  
25 in any sort of way. So a lot of the things that would

1 make it attractive for diversion and for other  
2 situations have been dealt with. But I think it comes  
3 to the fundamental issue of do we make medication  
4 palatable and attractive to children.

5 Is it a message, "This is an opiate. It  
6 tastes horrible," automatically suggesting, well, we  
7 don't want -- number one, it gives you one sort of  
8 message and number two, related to that, maybe a  
9 sibling who might want a candy or something and  
10 mistake it for a candy, but in general, I think that  
11 that's a mistake and a misdirected notion, and I  
12 really think our goal is, you know, the spoonful of  
13 sugar makes the medicine go down, and I do think  
14 almost every medical formulation is palatable, and I  
15 think to suggest that an opioid shouldn't be in some  
16 way, assuming there are obviously adequate safeguards  
17 and precautions and it's used appropriately, I think  
18 it's as a disservice and goes in the wrong direction.

19 ACTING CHAIRMAN KATZ: Dr. Rappaport, did  
20 you have a comment? No?

21 Well, it does sound like everyone is  
22 saying that one does need to pay attention to  
23 formulating medications that can be used in the  
24 pediatric population while at the same time paying  
25 careful attention to the potential for inappropriate,

1 dangerous use or at least liability, and that just  
2 needs to be fleshed out with each individual  
3 application.

4 Dr. Friedman, did you have a comment?

5 DR. FRIEDMAN: I think that my comment  
6 about the transmucosal fentanyl were taken a little  
7 out of context. I was not proposing that I think that  
8 it has a significantly higher diversion potential than  
9 other drugs. And as I said before, I think any kid  
10 can go to the medicine cabinet and take their parents'  
11 drugs, as well as their siblings' drugs, and those  
12 were not meant to be sent home.

13 I just meant that I didn't want people to  
14 think that, oh, we have this formulation now and we  
15 have to stop thinking about new and different  
16 formulations available, and I think we just need to be  
17 careful and take some thought about I know we need to  
18 make opioids palatable, and I said that myself, but I  
19 think we need to be careful about confusing medication  
20 with candy because that really does -- I mean, kids  
21 get overdosed with iron on a regular basis in this  
22 country because iron tablets look like M&Ms to them.  
23 So they get confused with candy. So it happens with  
24 other medications as well.

25 So I think we just need to be careful if

1 we're going to propose something and make it so much  
2 like candy that it may be confusing to children  
3 themselves and may lead to other problems.

4 So I just didn't want people to think, oh,  
5 we have this great formulation that's the be all and  
6 end all of everything. But to my knowledge, I agree  
7 that there have not been increased incidences of  
8 diversion or other problems with that approach.

9 ACTING CHAIRMAN KATZ: Just before we take  
10 leave of the formulation issue, I want to make sure  
11 that we haven't ignored the neonates. Is there a  
12 formulation, a wish list with regard to neonatal pain  
13 management? Anybody who deals with neonates want to  
14 make sure we haven't forgotten them?

15 Yes, Dr. Tobin.

16 DR. TOBIN: That's an important point  
17 because this is probably the group at risk for the  
18 greatest number of procedural painful things I can  
19 imagine happen to them in a short hospitalization of  
20 90 or 120 days, and that's the 24 week old gestation  
21 infant to the time when they're finally discharged.

22 Unfortunately my comment isn't directly at  
23 opioids. We need some other appropriate anesthetic  
24 analgesic topical agent before we're going to lance  
25 this infant's heel anywhere from 100 to 500 times



1 during that four month window in the hospital. So  
2 it's not just opioids, but we have to think about that  
3 as a very, very different physiologic organism.

4 We already know that morphine is very  
5 differently metabolized in those infants. We know  
6 that their threshold for apnea is significantly  
7 different, and that's unrelated to opioids; that their  
8 blood-brain barrier may be different. There's some  
9 discussion about that right now, whether or not  
10 that's, indeed, true, and we know the pharmacokinetics  
11 of drugs in that infant age range are hugely different  
12 because their volume and distribution is different,  
13 and there's immaturity in their organ systems.

14 So not specifically for any kind of out  
15 patient drug development, but for in patient drug  
16 development, yes, there's still a great need in that  
17 age group.

18 ACTING CHAIRMAN KATZ: Thank you.

19 Let's move on to question four, which  
20 again I'll quickly read through and try to focus on  
21 the salient issues.

22 It has been historically accepted that the  
23 mechanisms of action of opioid analgesics are similar  
24 between adults and children; that large controlled  
25 studies demonstrating efficacy of the nature conducted

1 in adults have not been required for a pediatric  
2 indication. Instead pediatric trials have been  
3 largely focused on investigating safety  
4 pharmacokinetics and appropriate dosing in children.

5 Discuss the shortfalls, if any, to this  
6 approach in the ways it has been used to guide and  
7 inform the clinical use of opiate analgesics in  
8 pediatric patients.

9 So let me just focus that with the first  
10 part of that question. Is it true that if an opioid  
11 analgesic is demonstrated to be efficacious in an  
12 adult that we can assume it's also efficacious in a  
13 pediatric population?

14 I guess that's not a yes or no question.  
15 Dr. Tobin?

16 DR. TOBIN: I'll start. As far as the  
17 mechanism, I think that most of us who have done any  
18 type of developmental pharmacology at the bench would  
19 agree that the mu opioid receptor is expressed even in  
20 that preterm animal, and in mu opioid receptors that  
21 are seen in humans at autopsy as well.

22 Is that the only mechanism by which mu  
23 opioid agents are going to work? And with the other  
24 isoform receptor expressions that change with  
25 development, I'm not sure that we can assume that that

1 is the only mechanism by which these drugs work  
2 because they're not as specific as we once thought  
3 they all were.

4 Secondly, there is a significant  
5 development of kappa opioid drugs now for peripheral  
6 analgesic action, peripheral meaning outside the  
7 blood-brain barrier. We have no idea whether or not  
8 those drugs will be efficacious in this group because  
9 we don't know if this group expresses kappa opioid  
10 receptors.

11 So there is an insufficient amount of data  
12 to conclude to my opinion that the only mechanism by  
13 which these drugs work in these small infants is via  
14 the mu opioid receptor.

15 ACTING CHAIRMAN KATZ: Are you  
16 specifically referring just to small infants, or are  
17 you generalizing your comments to the entire pediatric  
18 population?

19 DR. TOBIN: Well, I've got to go further  
20 than just the infant range. Dr. Woolf's work and many  
21 other basic scientists are now beginning to show us  
22 that there are developmental changes in sodium channel  
23 expression and many other important neurotransmitter  
24 systems that occur with neurodevelopment through to  
25 early childhood and then change again possibly with

1 the advance of new chronic pain syndromes.

2 So I don't think I'm saying just infants.

3 I'm saying probably at least through early childhood.

4 ACTING CHAIRMAN KATZ: Are you saying then  
5 that in older pediatric age groups you are comfortable  
6 that demonstration of efficacy in adults can be used  
7 as a proxy for efficacy in these older kids?

8 DR. TOBIN: I'd have to say that  
9 clinically those are trials I am doing. So at least  
10 down to about age five or six I'm pretty comfortable  
11 that the great majority of action is via the  
12 traditional mechanisms.

13 I just don't know how low I can go, age  
14 two, age one, six months or whatever.

15 ACTING CHAIRMAN KATZ: So that's the  
16 comment on the table. Any agreements or  
17 disagreements? Dr. Friedman.

18 DR. FRIEDMAN: I certainly concur with  
19 that. So I think that we know that these drugs are  
20 efficacious, but two things. One, we know that the  
21 older drugs that are on the market are efficacious,  
22 but I think that we still don't have a good handle on  
23 how to best dose these medications either on a short-  
24 term basis, but especially on a long-term basis for  
25 kids, either neonates, who are going to be getting

1 these drugs for months and months on end, children  
2 with cancer, children with sickle cell who are going  
3 to be getting them on and off.

4 And I think that those are issues that we  
5 can't just extrapolate from the adult literature.

6 We had a long conversation earlier about  
7 our pharmacokinetics and pharmacodynamics, the only  
8 end points, and I think the answer is, no, that we  
9 need to look at efficacy, and certainly as new agents  
10 come down the road, if the mechanism of action is not  
11 clearly the same as the mechanism of action as our  
12 older agents, I think we need to do efficacy trials in  
13 children the same way we do efficacy trials in adults.

14 ACTING CHAIRMAN KATZ: Dr. Schechter, did  
15 you want to weigh in on that?

16 DR. SCHECHTER: No, I completely support  
17 that, but an example of that, for example, would be  
18 tramadol (phonetic) or something like that, where we  
19 really don't know anything about how it works in  
20 children. A lot of us are using it in chronic pain  
21 situations, but you know, I think, again, we can't  
22 just extrapolate from the adult literature on that.

23 ACTING CHAIRMAN KATZ: So what do both of  
24 you think about Dr. Tobin's assertion that down to  
25 about the age of five, six, somewhere thereabouts, we

1 can assume that if efficacy is demonstrated in an  
2 adult population, then there will also be efficacy in  
3 a pediatric population, granted that we need to do  
4 more dose finding and that sort of work? Do you agree  
5 or disagree?

6 DR. SCHECHTER: I'm reasonably comfortable  
7 with that, but I think when you're talking about dose  
8 finding, then you're talking about efficacy. You're  
9 talking about measuring a dose response, and to me  
10 that that's what we need.

11 I would just like to state that I have a  
12 particular problem with requests and as a member of an  
13 IRB with protocols that are 100 patient safety  
14 studies. Part of what an IRB is required to do is  
15 look at the scientific merit of the study, and it is  
16 considered unethical to approve a study that cannot  
17 answer a question.

18 Safety is not a question. Safety is a  
19 byproduct of all the information about the drug from  
20 other trials, and so I think that a lot of IRBs have  
21 problems with this notion of safety, and if the FDA is  
22 going to require safety studies, then they ought to  
23 come along with the question instead of like  
24 "Jeopardy," you know.

25 (Laughter.)

1 DR. SCHECHTER: Your trial should be in  
2 the form of a question.

3 ACTING CHAIRMAN KATZ: That does lead us  
4 to the second part of this question number four, which  
5 is are there specific ways that safety data ought to  
6 be sought in pediatric analgesic trials, especially if  
7 it's not being done the way you like right now.

8 Comments about safety in pediatric trials?  
9 Do you want to continue on the vein that you were on?

10 DR. SCHREINER: Well, I mean, safety is  
11 always assessed compared to something else. So if we  
12 have an open label trial and everybody is on the same  
13 dose, what does it mean? I mean, the drug could be  
14 better than all other alternatives and we wouldn't  
15 know it. So I think that we have to think about what  
16 we're asking for when we're asking for safety.

17 I think that the agency may know what they  
18 want, but it is not crystal clear to the  
19 pharmaceutical companies, and I say that as a member  
20 of an IRB who sees a lot of these protocols.

21 DR. RAPPAPORT: Well, actually I hadn't  
22 heard that from any of the pharmaceutical companies  
23 before, but, I mean, the discussion of safety, the  
24 discussion of how we evaluate safety and how we come  
25 up with the instances that we're using in the label

1 is, I think, a little bit of out of the realm of this  
2 particular meeting, but I mean, as Dr. Rodriguez and I  
3 were just discussing, we look at the entire profile of  
4 safety from a large patient population for multiple  
5 trials when we look at a new application. We're not  
6 just looking at a single trial to see whether there  
7 was a particular event that won.

8 DR. SCHREINER: No, but a lot of the  
9 written requests -- and it's not just this division --  
10 are for a PK study and a 100 patient safety study. So  
11 the company has put together something that is a 100  
12 patient safety study, but what does that mean? They  
13 collect adverse events.

14 And so the members of IRBs who are looking  
15 at these have a lot of trouble. What are you looking  
16 for? If the drug isn't safe, what are you looking  
17 for?

18 And I think that it's almost from my  
19 perspective as a clinician not very useful  
20 information. I think we can ask better questions and  
21 that we should be looking for dose response. We  
22 should look at the range of doses that are necessary.

23 There are other things that we could be  
24 looking at other than just saying, oh, a 100 patient  
25 safety study.



1                   ACTING CHAIRMAN KATZ:     Why don't you  
2 continue with that thought?  What do you think ought  
3 to be looked for from a safety perspective in  
4 pediatric analgesic trials?

5                   DR. SCHREINER:  Well, opioids are titrated  
6 to effect, and so what we really need to know is where  
7 do we start.  What's the minimum dose that provides  
8 anybody any analgesic benefit?

9                   And then is there some plateau above which  
10 there's no further effect, you know, a mixed  
11 agonist/antagonist, or can the doses keep going up and  
12 up and up?

13                   Eighty percent of the children have acute  
14 pain, and actually their pain because they're post  
15 surgical pain, the kids in the trial, their pain is  
16 going down with time.  So you know, they're using less  
17 narcotic.  It's another problem with doing steady  
18 state PK.

19                   Are we going to demand that they take the  
20 drug every four hours even if they don't have pain  
21 just so we can do the steady state PK?

22                   ACTING CHAIRMAN KATZ:  So those are all  
23 efficacy and PK issues.  What about safety?  Are there  
24 specific safety issues in pediatric trials that ought  
25 to be considered?  I haven't heard any yet.

1 DR. SCHREINER: I think we are all  
2 concerned about respiratory depression and we're  
3 concerned about the typical side effects of opioids,  
4 and aside from the very youngest patients, I don't  
5 think -- we're not -- I don't think there are  
6 additional concerns.

7 I think kids tolerate a lot of these drugs  
8 a lot better than the elderly do.

9 DR. TOBIN: I think being in the  
10 anesthetic community, we have to understand that when  
11 sponsors do provide drugs that they don't always know  
12 what the safety issues are going to be either. One,  
13 in particular, that wasn't discussed before this  
14 committee was the development and clinical  
15 introduction of the drug rapicuronium, and it actually  
16 did not have a problematic safety profile in the adult  
17 patients or in the trials.

18 And once again, as a practitioner who  
19 takes the drug, not immediately, but relatively  
20 quickly will take the drug to use in children, we  
21 found a very dangerous problem that resulted in pretty  
22 significant clinical detriment to those patients, and  
23 the drug has since been withdrawn.

24 So I just use that as a bit of a preamble  
25 to the statement I don't always know what I'm looking

1 for with safety. I know the usual profile of opioids,  
2 but how do I know that the next opioid that is an  
3 ester related drug is not going to have bronchospasm  
4 associated with it or worsening chest wall rigidity or  
5 a metabolite that's going to cause the seizure profile  
6 worse than meperidine nor meperidine right now?

7 I don't know what I'm always looking for.

8 I think we do have to do what Mark suggests: find  
9 out the actual minimal efficacious doses and go  
10 forward from there, but not be hiding our results. As  
11 a community we need to have post marketing  
12 surveillance through the FDA so that if we do find a  
13 safety profile problem, we acknowledge that and get it  
14 out as quickly as possible.

15 DR. HOLMBOE: I think that there are two  
16 different types of safety issues here. One is in the  
17 acute use of the opioids, and the other is the long-  
18 term, chronic, intermittent.

19 And in the short term, you have the cancer  
20 patients that are either undergoing treatment and  
21 recovery from their cancer or recover from their  
22 surgery and no longer need opioids. So in those  
23 patients you're more likely to see the things that we  
24 always worry about as an anesthesiologist, the  
25 respiratory depression, the bad side effects.

1                   On the other hand, as Dr. Friedman brought  
2 up, the patients that have sickle cell anemia or  
3 sickle cell disease that are going to have chronic  
4 intermittent use of these, there may be changes in  
5 cognitive function, and so we really need to look at  
6 what the patients that are on these medications long  
7 term may have different safety issues than those that  
8 are on them in the short term, and so we probably need  
9 to do two different types of surveillance.

10                   ACTING CHAIRMAN KATZ:       So long-term  
11 neuropsychological changes in children on chronic or  
12 recurrent opioid therapy is a specific safety issue  
13 that you would like to see addressed in children.

14                   Any other specific safety issues that we  
15 would like to see addressed in children or should we  
16 move on to the next question?

17                   (No response.)

18                   ACTING CHAIRMAN KATZ:   Let's move on then.

19                   Question five, discuss approaches to dose  
20 finding and the evaluation of pain in the very young.

21                   I think Dr. Schechter already very clearly  
22 stated that there are adequate assessment scales  
23 available for young children, if I didn't  
24 misunderstand you. So we're left with the first half  
25 of that question, which is approaches to dose

1 findings.

2 Does anybody have any thoughts about good  
3 or bad ways to accomplish dose finding in the very  
4 young patient? Has anyone seen examples of how not to  
5 do it? Maybe that would be the place to start. It's  
6 always easier to criticize.

7 Dr. Portenoy.

8 DR. PORTENOY: I just woke up. Can I go  
9 back to the safety issue again?

10 ACTING CHAIRMAN KATZ: That was  
11 yesterday's session.

12 (Laughter.)

13 DR. PORTENOY: I was just ruminating about  
14 some of the issues that are coming up in the adult use  
15 of opioid drugs and areas in which we are sure that we  
16 need more data, areas, for example, like sexual  
17 dysfunction, the abuse liability of drugs, and the  
18 issue of cognitive impairment.

19 And some of those issues I haven't heard  
20 discussed, but it may be worthwhile at least to put  
21 them on the table. For example, the issue of  
22 hypoprolactinemic, hypogonadism or non-  
23 hypoprolactinemic, hypogonadism, which is probably a  
24 fairly common. These two abnormalities are fairly  
25 common in adult use of opioid drugs, and here we have

1 a population of children that may be intermittently  
2 bolused or on more chronic therapy approaching  
3 puberty. Is that an issue or not an issue?

4 And I wondered if any of the pediatricians  
5 would address that.

6 There are data from some interesting  
7 animal models suggesting that bolus administration of  
8 opioid drugs, particularly in young animals may alter  
9 the ability to or may alter the outcomes in relation  
10 to self-administration of opioids secondarily.

11 In other words, there is some data that  
12 would suggest that intermittent, high intensity  
13 administration of opioids may predispose to a craving  
14 syndrome as opposed to continuous administration in  
15 young animals.

16 And this concept of giving neonates in an  
17 ICU repeated bolus injections of opioids for procedure  
18 pain, is anybody in the pediatric community looking,  
19 thinking about that in terms of the possibility that  
20 we may actually be creating the substrate for a  
21 subsequent craving syndrome that could be disposed to  
22 addictive disease?

23 And then the issue of a cognitive  
24 impairment that was mentioned. I mean, obviously a  
25 constant concern in adults, particularly with the

1 recognition that some cognitive impairment is not  
2 apparent to the person who is experiencing it and can  
3 only be picked up with very good neuropsych testing,  
4 it's the same sort of issue we see in all centrally  
5 acting drugs, like anti-compulsives and anti-  
6 depressants as well.

7 But the issue in children, I would think,  
8 would be looking at school performance and other kinds  
9 of outcomes that are not -- that we don't look at in  
10 adults. You know, in adults we're all worried about  
11 driving, but in children I would wonder about learning  
12 and state dependent learning, and has anybody been  
13 looking at those issues?

14 ACTING CHAIRMAN KATZ: Endocrine  
15 complications, long-term cognitive function.

16 Dr. Schechter.

17 DR. SCHECHTER: Well, of course, one of  
18 the problems is that most children who are on chronic  
19 opioids have a concomitant illness that's significant.

20 So, for example, the sickle cell population is  
21 predisposed to growth failure, but that's sort of  
22 independent presumably of aggressive opioid treatment  
23 because we've only started aggressive opioid in young  
24 kids recently, and that's been a longstanding problem  
25 with secondary -- in almost everyone you can consider,

1 and again the sickle cell population also is prone to  
2 -- and now with the transcutaneous Doppler we're  
3 finding small strokes in those kids that we didn't  
4 realize were there before.

5 So clearly that is an issue, but that's in  
6 so many of the conditions that it's almost hard to  
7 factor that out. As regards to the sort of craving,  
8 we all worry about that a fair amount or we're  
9 starting to worry about that.

10 I mean, first we were starting to get  
11 people to use these medications, but now that we're  
12 using them, there is some significant concerns about  
13 that. There is data on the inadequate use of those  
14 medications, and the NICU in particular and the sort  
15 of changes in the central nervous system that are at  
16 least pretty chronic, at least as long as they've been  
17 followed out for years.

18 So on one hand, we risk that. On the  
19 other hand, we sort of know what's going to happen if  
20 we continuously perform procedures on kids without  
21 adequate treatment. But I do think that that's very  
22 much worthy and a very important area to study and  
23 look at as we start to do this.

24 DR. PORTENOY: Just to clarify, you're  
25 talking about the data that suggested inadequate



1 management in the NICU may predispose to more pain  
2 with --

3 DR. SCHECHTER: Yes, right.

4 DR. PORTENOY: -- injury later on.

5 DR. RODRIGUEZ: Right.

6 DR. PORTENOY: Right, yeah.

7 ACTING CHAIRMAN KATZ: Dr. Rappaport, did  
8 you have any other -- you or your group have any other  
9 specific issues with regard to the dose finding  
10 question in the very young that you wanted to have  
11 covered before we move on?

12 DR. RAPPAPORT: I guess if there are no  
13 other thoughts on the issue of metrics here, I mean,  
14 that's really a problem. If we have to do dose  
15 finding for the very young children, for the neonates  
16 and the infants, we're going to need to do essentially  
17 efficacy studies. It's the only way to do it, and the  
18 metrics aren't really very good.

19 Is there any other comment in that area?

20 ACTING CHAIRMAN KATZ: Dr. Schechter, did  
21 you want to readdress that point about whether the --  
22 I don't mind putting you on the spot -- with the  
23 metrics in evaluation of neonatal analgesic responses  
24 are psychometrically sounds or not?

25 DR. SCHECHTER: Well, there are a number

1 of them, as everyone is aware, and each day, you know,  
2 in the Journal of Pain and Symptom Management or a  
3 Clinical Journal of Pain there's another one or two  
4 that pops out. I'd say that some of them have better  
5 properties than others. None of them seem to be  
6 perfect at this time.

7           There have been some significant  
8 psychometric investigations of at least some of them,  
9 and I would certainly say that it's not at the level  
10 of what one would identify in an adult reporting their  
11 discomfort and looking at the other sorts of measures.  
12 It certainly is not at that level.

13           But the ability using facial recognition  
14 and a variety of other things and comparing that to  
15 pain is reasonably good. It's just hard to know what  
16 the gold standard is when you're comparing it. It's  
17 sort of construct validity, but having said that, I  
18 think most people in this field who have looked at  
19 this for a long time -- it's probably been ten or 15  
20 years of investigation -- are reasonably comfortable,  
21 people like Bonnie Stevens and Patrick McGrath, and  
22 that sort of scale developers are reasonably  
23 comfortable that they have instruments that can at  
24 least tell a little bit of pain/no pain, maybe not in  
25 significant gradations, but certainly at some course

1 level they certainly can identify discomfort.

2 ACTING CHAIRMAN KATZ: Dr. Roberts?

3 DR. ROBERTS: Well, I wouldn't hold my  
4 breath waiting for them to point to the smiley face or  
5 the "frownie" face, but you know, a lot of the pain  
6 studies in newborns actually occur in the context of  
7 circumcision with dorsal penile blocks. People were  
8 measuring catechol levels and cortisol levels, and I  
9 guess you could insist on that. That seems a bit  
10 overdone.

11 You know, maybe with a kid in the NICU  
12 that's got indwelling lines in where it wouldn't be  
13 perhaps that hard to get another cc or two to check  
14 some of that, it's a helpful way to go, but I don't  
15 know that I'd require it.

16 I think some of the other psychometric  
17 tests that Dr. Schechter spoke to seem to me  
18 reasonably convincing, and that's probably as good as  
19 it's going to get.

20 ACTING CHAIRMAN KATZ: Any further details  
21 about the issues of psychometric testing?

22 We have one more question to address  
23 today.

24 DR. RAPPAPORT: Excuse me. Before you go  
25 on, I'd like to go back to the first question just

1 briefly.

2 ACTING CHAIRMAN KATZ: You want to start  
3 all over again?

4 (Laughter.)

5 DR. RAPPAPORT: That was the question on  
6 formulation, and I know at one point Dr. Tobin said in  
7 passing that there may be a place for combination drug  
8 products in pediatric patients, and we didn't really  
9 follow up on that, and it's a big question not only  
10 for us, but for the other division at the agency that  
11 deals with analgesic drug products, and there are  
12 obviously a lot of them out there, and there are a lot  
13 of regulatory issues that come to us because of that.

14 So if we could spend just a couple of  
15 minutes on that.

16 ACTING CHAIRMAN KATZ: yes.

17 DR. SCHREINER: I think for the postop  
18 surgical patients there are an awful lot of day  
19 surgical patients for whom Tylenol is not enough, and  
20 right now at least in the Philadelphia area, I would  
21 say the most common drug that's prescribed is Tylenol  
22 with codeine not because it's the best drug, but  
23 simply because it's carried by the most pharmacies.

24 Our surgeons would like to use oxycodone  
25 because they prefer it, but there's only one

1 manufacturer of liquid oxycodone, and it is not  
2 uniformly available at most pharmacies.

3 So I think there is a need for combination  
4 products for those short-term treatments where kids  
5 need something more than just acetaminophen, and the  
6 surgeons would want to prescribe those. IT's easier  
7 for patients to give one drug than two.

8 And I realize, you know, for my use they  
9 don't have much place as an anesthesiologist, but they  
10 certainly, I think would be a benefit to children.

11 ACTING CHAIRMAN KATZ: Dr. Roberts.

12 DR. ROBERTS: I would echo that. The  
13 other thing I'd ad, and it's more of a delivery system  
14 issue, but it relates, and I've long wondered why --  
15 and it probably has to do with very low absorption,  
16 but why people haven't looked more at inhalers.

17 I mean, for instance, with kids with  
18 asthma it's pretty easy as young as even four years  
19 old to get them to use an inhaler dependably, and if  
20 you're concerned that you don't want it to look like  
21 candy and things like that, it gets around that.

22 You know, the intranasal stadol is about  
23 as close as we've had, but I think that's an area of  
24 pursuit that might be worth investigating.

25 ACTING CHAIRMAN KATZ: Dr. Schechter.

1 DR. SCHECHTER: Yeah, as regards to the  
2 previous point about combination drugs, I do think  
3 that for the most part pediatricians are comfortable  
4 with them. Families are reasonably comfortable with  
5 them, Tylenol with codeine, percocet, whatever,  
6 following surgery or for otitis or pharyngitis for a  
7 short period of time.

8 I think in the situations where somebody  
9 is going to be on, you know, two percocet every four  
10 hours for a long period of time, they're more likely  
11 going to be in the hands of a pain specialist or  
12 someone else who would more than likely recognize the  
13 potential hepatotoxicity and whatever is associated  
14 with that.

15 So I think for the short run where they're  
16 typically used, they're a comfortable drug for most  
17 people and reasonably efficacious. So I think they do  
18 have value in the pediatric population.

19 ACTING CHAIRMAN KATZ: So it sounds like  
20 there is a sense that for short term use, particularly  
21 in the postoperative setting, there is a role for  
22 combination products.

23 Dr. Ashburn.

24 DR. ASHBURN: One voice in opposition. At  
25 Primary Children's Medical Center where I run both

1 the chronic and the acute pain services, one of our  
2 leading indicators of adverse drug event monitoring  
3 that we've identifies as a potential cause for harm is  
4 analgesics that contain acetaminophen in combination  
5 products in that the routine dose that's commonly  
6 written by surgeons for postoperative pain management  
7 write a dose and then if it's given every three hours  
8 as ordered, within 24 hours they frequently are  
9 subject to receiving potentially harmful doses of  
10 acetaminophen.

11 I'm not sure of any studies that show that  
12 the combination products are better than individual  
13 opioid products by themselves titrated to effect.  
14 Now, you all may know otherwise, and I suspect that  
15 it's a matter of convenience that these products are  
16 translated from the adult population down to the  
17 pediatric population, and it's a matter of  
18 convenience, availability of the product in those  
19 issues that the product still remain available and  
20 have a role for the care of patients, but given the  
21 ideal world, it seems to me like safety would be  
22 improved with oral solutions containing codeine and  
23 hydrocodone and oxycodone being available as an  
24 alternative to combination products with regard to the  
25 overall safety of using these medications in an acute

1 pain setting, as well as especially in the chronic  
2 pain setting.

3 ACTING CHAIRMAN KATZ: Dr. Portenoy.

4 DR. PORTENOY: I just wanted to make the  
5 point that at least in New York I think it's also an  
6 issue of concern about regulatory scrutiny. You know,  
7 we have to use a special prescription to prescribe  
8 codeine without acetaminophen and no special  
9 prescription to prescribe acetaminophen with codeine.

10 And you know, there are some data to  
11 suggest that as soon as a special prescription is  
12 needed, the prescribing drops like a stone and other  
13 drugs are prescribed instead.

14 And I would agree with you. I don't know  
15 of any data that would suggest that the combination  
16 products would work better than the appropriately  
17 titrated single entity, and I think that it's other  
18 than convenience and those sort of regulatory issues  
19 that there's really no value to it that I can see.

20 DR. ASHBURN: So the irony is that the  
21 regulatory situation is such that we're more likely to  
22 prescribe a drug that can cause harm than one that  
23 might be safer.

24 ACTING CHAIRMAN KATZ: Let's go to Dr.  
25 Foley and then Dr. Tobin.



1 DR. FOLEY: I mean, the emphasis on this  
2 conversation here has been on codeine, but ten percent  
3 of the population can't metabolize codeine. So it  
4 raises the question of how many pediatric patients  
5 that might represent, and we don't have any data  
6 related to that.

7 What was not brought up is the whole role  
8 of hydrocodones and that whole class of drugs and the  
9 use of combinations, and I think that's sort of  
10 untested. It would seem to me a reasonable  
11 consideration to have that looked at to see.

12 The value of using them, I think, is more  
13 than convenience. It's thought to be opioid sparing,  
14 and that can have advantages. There is data to show  
15 that when you have an opioid and you add a non-opioid,  
16 you have additive analgesic effects, and the rationale  
17 of using combinations is this construct of opioid  
18 sparing because of the side effects of opioids,  
19 specifically, let's say, constipation or it might be  
20 nausea or some other ground.

21 So I don't think -- I think that we  
22 shouldn't focus on codeine, but focus on the spectrum  
23 of agents out there for which combinations might be  
24 appropriate, and what those combinations might be.

25 But broadly I would argue that there's so

1 much difficulty even moving this forward that it would  
2 be helpful if we had some good studies on the single  
3 agents and then deal with the formulation piece as a  
4 second aspect.

5 ACTING CHAIRMAN KATZ: So I'm hearing that  
6 there is clearly a role for -- a potential role -- for  
7 combination products in pediatrics. However, there is  
8 a lack of data to determine whether those combination  
9 products are advantageous over appropriately titrated  
10 pure opioids, and that those data are needed, as well  
11 as the fact that there's a quirk as far as scheduling  
12 goes where, in fact, these safer drugs may be more  
13 tightly regulated than the U.S. safe drugs.

14 Any other comments about the combination  
15 issues? Dr. Rappaport, did you have any particular  
16 methodological or other issues? We certainly have a  
17 potential safety concern that was mentioned.

18 I'm sorry. Your turn this time. Dr.  
19 Foley went first last time.

20 DR. TOBIN: I just want to ask if the  
21 panel here would have an opinion or I expect many,  
22 about the ethics of a sponsor or an investigator  
23 initiated trial about pediatric pain evaluation using  
24 normal volunteers, and that it's currently a standard  
25 that when new analgesic agents are being used in our

1 research, that we have standard heat probe placement  
2 to the foot of the human volunteer, and we look for  
3 efficacy. Then we have the same with other mechanisms  
4 of looking at hyperalgesia and alledinium (phonetic).

5 The reason I bring up the question of  
6 public forum is because there are certain IRBs which  
7 have turned down applications by moderate or  
8 intermediate and very senior investigators calling  
9 this unethical to in any circumstance cause temporary,  
10 but we would consider it absolutely reversible energy  
11 applies to the skin with no long-term injury solely  
12 for the effect of looking at a new analgesic  
13 measurement, and it's either pharmacokinetics,  
14 dynamics, or efficacy in a healthy patient population  
15 of, say, ages six to ten.

16 ACTING CHAIRMAN KATZ: Thoughts about the  
17 efficacy of human pain studies in pediatrics? Dr.  
18 Rodriguez?

19 DR. RODRIGUEZ: There is in the pediatric  
20 page a publication in the Web of the Advisory  
21 Committee, the subcommittee on pediatrics on ethics,  
22 and they address the issue of who to enroll in these  
23 studies, and essentially, first of all, the premier on  
24 the people I call patients. They're not called  
25 subjects. So, therefore, they must have the

1 condition.

2 Now, I suppose that you could say, well,  
3 if they can have pain one time in his life or  
4 something like that, but essentially it spells out  
5 situations in which the studies can be done, and you  
6 must have a condition in order for you to be enrolled  
7 in the study.

8 So in other words, healthy individuals  
9 usually are not involved. It's interesting because in  
10 the back of my mind I think of patients with vaccines,  
11 and I think of patients and -- well, they're likely  
12 to get the disease, and I think of patients with  
13 otitis media, and in prophylaxis where you don't have  
14 the disease, but they're likely to have the disease,  
15 or have the disease.

16 But overall, generally speaking, the  
17 participants must have a condition to be treated  
18 according to this recommendations of the Ethics Panel  
19 on Placebo Control -- not placebo -- on Trials in  
20 Pediatrics. You may want to take a look at it and  
21 derive your -- but I just wanted to bring it up.

22 DR. SCHREINER: I attended that meeting,  
23 and actually they presented a variety of scenarios,  
24 and the issue of using normal children in trials for  
25 otitis media, the majority of the committee felt that

1 that was acceptable because all children get otitis  
2 media, although you could find a better population,  
3 namely, children with frequent otitis media.

4 So the question is: is a condition so  
5 prevalent in childhood that the condition itself is  
6 childhood? Do all children have pain?

7 I mean most people would say if you have a  
8 new drug for fever, all children get fever and,  
9 therefore, it would be okay to do a PK study in normal  
10 children, but those are about the limits.

11 Then the other issue is once you get  
12 beyond having a condition, there are other ways that  
13 you can improve a trial in children, and you can  
14 improve it if it's of minimal risk. So you have to  
15 decide whether applying pain to a child for a brief  
16 period of time is minimal risk, and when you consider  
17 psychological and other issues, you may or may not --  
18 your committee may or may not accept that.

19 And if they don't have a condition and  
20 it's more than minimal risk and it's more than a minor  
21 increase above minimal risk, you know, if it's not of  
22 direct benefit to them, you're not going to be able to  
23 do the study, unless you follow the route of, you  
24 know, appealing to the Secretary of Health and Human  
25 Services.

1                   ACTING CHAIRMAN KATZ:    Dr. Portenoy and  
2 then Dr. Smiley.

3                   DR. PORTENYOY:  I just had two comments in  
4 response to that.  The first is given the concerns  
5 about whether or not kids at the age of six and seven  
6 can assent, I think that would raise a concern in me,  
7 and then secondly, why would parents agree if there is  
8 no incentive?  And if there is an incentive, then it  
9 raises the ethics of incentivized parents putting  
10 their kids under that situation.

11                   So I think there are concerns about it.

12                   DR. SCHREINER:  Could I just say something  
13 about assent as well?  Assent is not exactly the  
14 analogy to consent for adults.  Consent for adults  
15 springs from the principle of, you know, respect for  
16 principle for autonomous people.

17                   But the national commission, when they  
18 construed the need for assent for children, construed  
19 it as a benefit that we should appeal to the altruism  
20 of children.  It was not a parallel exactly to  
21 consent.  We should keep that in mind.

22                   DR. SMILEY:  Obviously you need a higher  
23 standard to do these kinds of studies on any  
24 vulnerable population, and obviously kids are, but I  
25 think it's difficult to justify because almost all of

1 us around the table have pretty much said that we  
2 believe that these drugs that we're talking about,  
3 opioids work pretty much the same in kids and adults.

4 So I think it would be hard in most  
5 studies I can think of to reach the standard necessary  
6 to justify studying normal, quote, unquote, volunteer  
7 children because we don't actually believe there's a  
8 crying need for it if the pharmacology is sufficiently  
9 similar.

10 ACTING CHAIRMAN KATZ: Last question. As  
11 new products become available for home use in younger  
12 patients, there may be a risk to family members of  
13 accidental ingestion, overdose, or deliberate abuse  
14 and diversion of these medications. Discuss the  
15 strategies for risk communication and risk management  
16 that should be considered at the time of pediatric  
17 opioid drug approval.

18 Of course, we discussed this to some  
19 extent earlier. Does anybody have any specific  
20 suggestions or comments about how one can communicate  
21 risk or manage it more appropriately when the opioids  
22 are developed?

23 Dr. Bitetti.

24 DR. BITETTI: I'm not sure that it's  
25 really any different from parents having digoxin or

1 amioterone (phonetic) in the home, but I think what  
2 we're sort of getting back to here is the diversion  
3 issue, which seems to be the reason that this question  
4 is there.

5           And we've spent most of the afternoon  
6 talking about the difficulties of developing pain  
7 medicines for children's new formulations, the  
8 incredible need for that, and I think personally that  
9 worrying about diversion, that that should not be an  
10 emphasis in developing new formulations and worrying  
11 about whether or not they have enormous diversion  
12 potential when it seems like there's such an  
13 incredible need for patients to have pain medicines.

14           And in general, I don't know what the  
15 problems of the FDA is versus the DEA in terms of  
16 whether or not our major concern is safety of the  
17 patients who are taking the medications and the abuse  
18 potential perhaps for those patients or whether or not  
19 our major concern should be abuse potential by other  
20 members of society.

21           DR. RAPPAPORT: Do you want me to just  
22 briefly?

23           ACTING CHAIRMAN KATZ: Yes, please.

24           DR. RAPPAPORT: Our regulations allow us  
25 to look at the safety for the patient who's taking the



1 medication, but we're a public health organization,  
2 and when we see that there's a potential problem to  
3 the population at large, we're responsible for at  
4 least bringing that to light and doing whatever we can  
5 to protect the public.

6 ACTING CHAIRMAN KATZ: Dr. Bitetti, does  
7 that answer your question about whether the FDA has  
8 jurisdiction in the central diversion issue?

9 Dr. Roberts.

10 DR. ROBERTS: I don't quarrel with the FDA  
11 having jurisdiction. I guess it's just a problem that  
12 I don't see as a large problem. I think the problem  
13 of pain control is a far greater one.

14 When you look at diversion for other  
15 pharmacologic products, whether it's acetaminophen or  
16 aspirin or alcohol, for that matter, and kids getting  
17 into that other, you know, family members developing  
18 health problems, that's a far larger issue than with  
19 prescription drugs of this sort.

20 So I just don't, frankly, experience it or  
21 see it much. I think it makes for great news print,  
22 but not necessarily great public policy.

23 ACTING CHAIRMAN KATZ: I'm going to take  
24 the liberty of tabling the diversion question until  
25 tomorrow. And just to make sure that we didn't

1 neglect to answer a piece of the question that's still  
2 there, did anybody have any comments about risk  
3 communication or risk management in terms of  
4 accidental overdose or other potential issues when  
5 these medications go home with kids?

6 Dr. Holmboe?

7 DR. HOLMBOE: Yeah, I can think of a  
8 couple of things worth considering. The first is we  
9 know from at least literature in adults, and I'd be  
10 interested to hear from the pediatricians, that the  
11 quality of counseling that occurs between patients and  
12 physicians is actually quite poor.

13 In a study published by Clarence Braddock  
14 in JAMA in December of 1999, he found that using  
15 fairly minimal criteria, only nine percent of visits  
16 met those criteria for effective, informed decision  
17 making.

18 So I think given the risk-benefit ratio of  
19 this drug, this is probably something that needs to be  
20 looked at in which to see if there's data in the  
21 pediatric literature, but how good the counseling  
22 actually is.

23 So one of those will be what sort of  
24 adjunct should drug companies or doctors who use  
25 opiates need in the office in order to discuss this

1 with their patients.

2 The second is what sort of information do  
3 parents need at home to use these particular drugs,  
4 and I think some discussion of, you know, the concerns  
5 about overdose, what to do in those situations  
6 probably needs to be part of that.

7 One approach might be to use something  
8 like a MediGuide that's more pediatric specific that's  
9 been used for some of the other drugs FDA has recently  
10 approved with more difficult risk-benefit ratios. So  
11 those are some of the potential things that I think  
12 need to be considered.

13 ACTING CHAIRMAN KATZ: Is there data in  
14 pediatrics about the adequacy of counseling when kids  
15 take home medications? Does anybody know?

16 DR. SCHECHTER: Well, there is data about  
17 in general the amount of counseling that goes on in a  
18 typical pediatric encounter which in a typical 12 or  
19 15 well child supervision visit about 90 seconds. So,  
20 in general, you know, anticipatory guidance in those  
21 sorts of things obviously the short shrift just in  
22 general.

23 I think though when we're dealing with  
24 these sorts of medications very often there is a fair  
25 amount more care given, even more instruction than,

1 for whatever reason, than traditionally even with  
2 antibiotics or whatever. So I do think at least in my  
3 experience people are so anxious about these  
4 medications in the primary care setting that they do  
5 spend some time discussing them.

6 That's totally anecdotal, and you know  
7 what we've all said about anecdotes.

8 ACTING CHAIRMAN KATZ: Anyone from the  
9 primary care world want to comment about that  
10 compliment that you just received?

11 DR. HOLMBOE: I still have concerns that,  
12 you know, you're carrying a certain bias based on your  
13 own experience because of your experience in having to  
14 use these drugs, and I think any time somebody steps  
15 out of their comfort zone a little bit I'm not so sure  
16 that the amount of the discussion going on in the  
17 office, particularly somebody who studies this from a  
18 research point of view, is actually occurring.

19 And so I have real concerns about it, and  
20 again, I can't speak to the pediatric population  
21 because I don't work in that particular arena, but I  
22 know that anywhere from adolescence to older age  
23 adults it's still a problem.

24 ACTING CHAIRMAN KATZ: Dr. Roberts.

25 DR. ROBERTS: Well, a couple of things. I

1 mean, we know that in an average encounter the  
2 patient, if you're lucky can take away three things,  
3 and so one of the problems is you may have 22 things  
4 about a particular drug alone, much less all the other  
5 advice you gave, that you may be asking people to  
6 remember.

7           And so I think MediGuides or almost any  
8 mechanism that you could make available to people  
9 would be good because various people learn and  
10 remember and retain things differently, and you know,  
11 whether it's a telephone call-in line that they can  
12 call with questions, you know, about a particular  
13 medicine they're on or a piece of paper they go home  
14 with or a conversation with the doctor, the nurse or  
15 whomever, that's all good.

16           My experience has been that parents tend  
17 to be actually much more discerning and questioning  
18 about the medicines you're about to give their  
19 children than they would be on their own behalf. In  
20 fact, sometimes they're a little embarrassed to ask  
21 tough questions on their own behalf. They have no  
22 problems really pushing to the wall when it comes to  
23 their children.

24           So, in general, I would view it as perhaps  
25 less of a problem in the pediatric setting than in the

1 adult setting, but I say that just with my own  
2 anecdotal experience.

3 ACTING CHAIRMAN KATZ: Dr. Foley.

4 DR. FOLEY: I think in this whole area,  
5 both for adults as well as children we probably  
6 haven't done enough of creating safe environments  
7 related to these drugs and the information that people  
8 need.

9 And remember that these kids are not  
10 always with their parents, but they're with their  
11 friends, and they're going to school and they're  
12 sleeping over and they're doing a variety of other  
13 things.

14 And I think that if we look at how  
15 juvenile diabetes has sort of addressed this issue  
16 with a lot of information, I think that we could  
17 benefit with much more information and also with what  
18 would -- if someone took your drug and took an  
19 overdose of it, what should be done with that someone  
20 because increasingly you're seeing, at least in the  
21 Oxycontin, seeing these teenagers take these drugs in  
22 which all of their friends have identified them as  
23 sleepy and no one ever thought to get them to an  
24 emergency room and give them naloxone, and they were  
25 all clearly salvageable.

1           So I think that depending upon the age  
2 group, particularly if we talk about a teenage  
3 population that might be taking these, I think that we  
4 should escalate up the safety issues.

5           And we've had experience with elderly  
6 cancer patients taking their medications at home and  
7 having young children in the home who inadvertently  
8 because it's sitting on a table take the drug. And so  
9 I think instructions of where it has to be placed, the  
10 idea of safe havens for it, the kind of information  
11 and what happens if someone takes this.

12           And I think that kind of is positive, not  
13 negative information.

14           ACTING CHAIRMAN KATZ: Do you think it's  
15 appropriate for the FDA to require those sorts of  
16 instructional programs on approval of opioid  
17 analgesics that will be used in children?

18           DR. FOLEY: yes, I do.

19           ACTING CHAIRMAN KATZ: Anybody else have  
20 any thoughts about that? Yes, Dr. Reidenburg.

21           DR. REIDENBURG: Yeah. I think the  
22 problem is the same for opioids used in adults and  
23 taken home. I don't see that the issue is the  
24 pediatric formulation, but the opioid in a home.

25           ACTING CHAIRMAN KATZ: Dr. Carlisle.

1 DR. CARLISLE: A parallel situation that  
2 we deal with all the time as anesthesiologists, we  
3 give patients medications that alter their ability to  
4 remember. Then we tell them something. Then we give  
5 them a written instruction, and then we send them  
6 home, and then we call them, and they still don't  
7 remember.

8 So I think that we don't do a very good  
9 job in many circumstances, and we need a better way to  
10 do this.

11 ACTING CHAIRMAN KATZ: Dr. Holmboe, did  
12 you have comments?

13 DR. HOLMBOE: I just wanted to add my yes  
14 to Dr. Foley's with regard to the requirement.

15 ACTING CHAIRMAN KATZ: Anybody else? Dr.  
16 Schechter.

17 DR. SCHECHTER: We have started requiring  
18 -- Russell alluded to this before -- a contract when  
19 we're using these chronically in children and starting  
20 in the teenage years, and basically it says a couple  
21 of things. I won't loan this to anybody else. I'll  
22 only use one particular pharmacy. I know what some of  
23 the side effects are, and there's a little bit of  
24 education.

25 And we've just gotten to the point where



1 we feel we're more comfortable. That will at least  
2 definitively state that these things have been  
3 discussed anyway, and we read it together and the  
4 child has to sign it. Again, we started that.

5 Whether there should be differences in the  
6 way we use that as opposed to other medications, I  
7 don't know, but we have felt more comfortable doing  
8 that.

9 ACTING CHAIRMAN KATZ: Dr. Schuster.

10 DR. SCHUSTER: Well, I can't speak to the  
11 issue in a clinical setting, but when we do informed  
12 consent, you know, our laboratory in experimental  
13 settings, we have taken to having a very short three  
14 or four item quiz that at least we know that the  
15 person that we have just supposedly explained what  
16 they're getting into has understood sufficiently that  
17 they can answer these very simple questions.

18 I don't use them to prevent people from  
19 entering studies, but rather to insure that I can go  
20 over those particular items which they obviously have  
21 not misunderstood. So I'm saying at the bottom of the  
22 informed consent, you could have three questions.

23 ACTING CHAIRMAN KATZ: Dr. Roberts?

24 DR. ROBERTS: Well, that reminds me of  
25 one other thing. In genetics counseling, one of the

1 things that's being increasingly used are interactive  
2 programs where to be able to progress all the way  
3 through to signing the consent form, you have to be  
4 able to get a series of questions answered correctly.

5 And it seems to me those more innovative  
6 strategies around testing knowledge and communicating  
7 information might also be helpful directions as people  
8 think about new ways of assuring proper use and  
9 safety.

10 ACTING CHAIRMAN KATZ: Dr. Rappaport, did  
11 you have any other questions for our pediatric agenda  
12 for this afternoon?

13 DR. RAPPAPORT: I have a couple other  
14 little things, but I think rather than keep everybody  
15 here much later today, I'll try to slip them in  
16 tomorrow.

17 ACTING CHAIRMAN KATZ: Well, then we have  
18 actually completed our job a half an hour early today.

19 Congratulations, people around the table, for helping  
20 with that and for a helpful discussion, and I'll see  
21 you all tomorrow morning.

22 Kimberly, did you have any housekeeping  
23 announcements to make?

24 MS. TOPPER: Yes.

25 ACTING CHAIRMAN KATZ: Will everyone just

1 hold still for a minute?

2 MS. TOPPER: Will the committee members  
3 who are attending the dinner this evening, since we  
4 have finished early, we're going to meet in the lobby  
5 at six o'clock. That will give you an hour to relax  
6 and chill out. It is very casual. Please be prepared  
7 to be casual. No ties allowed.

8 Thank you.

9 (Whereupon, at 4:58 p.m., the Advisory  
10 Committee meeting was adjourned, to reconvene at 8:00  
11 a.m., Thursday, January 31, 2002.)

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