

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

DRUG SAFETY AND RISK MANAGEMENT

ADVISORY COMMITTEE
IN JOINT SESSION WITH THE

DERMATOLOGIC AND OPHTHALMIC DRUGS

ADVISORY COMMITTEE

Friday, February 27, 2004

8:00 a.m.

Hilton Gaithersburg
620 Perry Parkway
Gaithersburg, Maryland

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

2 Call to Order

3 DR. GROSS: We would like to begin by
4 reading the Conflict of Interest Statement

5 Conflict of Interest Statement

6 MS. TOPPER: The following announcement
7 addresses the issue of conflict of interest with
8 respect to this meeting and is made a part of the
9 record to preclude even the appearance of such at
10 this meeting.

11 The topics to be discussed at today's
12 meeting are matters of broad applicability. Unlike
13 issues before a committee in which a particular
14 sponsor's product is discussed, issues of broad
15 applicability involve many sponsors and their
16 products.

17 All FDA participants have been screened
18 for their financial interests as they may apply to
19 the products and companies that could be affected
20 by the committee's decisions. Based on this
21 review, it has been determined that there is no
22 potential for an actual or apparent conflict of

1 interest at this meeting with the following
2 exception:

3 In accordance with 18 U.S.C. 208(b)(3),
4 Dr. Ruth Day has been granted a waiver that permits
5 her to participate fully.

6 A copy of the waiver statement may be
7 obtained by submitting a written request to the
8 Food and Drug Administration's Office of Management
9 Programs, Division of Freedom of Information HFI-35
10 at 5600 Fishers Lane in Rockville, Maryland 20857.

11 Because issues of broad applicability
12 involve many sponsors and their products, it is not
13 prudent to recite all potential conflicts of
14 interest as they apply to each member, consultant,
15 and guest speaker.

16 There will be no industry representative
17 at today's meeting. As you are aware, the Food and
18 Drug Administration has appointed industry
19 representatives who currently serve on each of
20 these committees, but Annette Stenhagen, the
21 industry rep from the Drug Safety and Risk
22 Management Committee, and Peter Kresel, the

1 industry rep from Dermatologic and Ophthalmic Drugs
2 Advisory Committee, work with sponsors that are
3 directly impacted by the matter before the
4 committee.

5 FDA has contacted three other industry
6 representatives from other Center for Drug
7 Evaluation and Research Committees that have
8 experience in risk management and with the FDA
9 Advisory Committee process, however, none were
10 available to participate in this meeting.

11 Dr. Stenhagen and Mr. Kresel are present
12 in the audience and attending as interested
13 observers. Further, we would like to note that Dr.
14 Lou Morris, a member of the Drug Safety and Risk
15 Management Advisory Committee, has been recused
16 from participating in today's meeting. Dr. Morris
17 is also present in the audience and attending as an
18 interested observer.

19 We would like to remind the FDA
20 participants not to discuss issues at hand outside
21 the advisory committee meeting.

22 In the event that the discussions involve

1 any other products or firms not currently on the
2 agenda for which FDA participants have a financial
3 interest, the participants involvement and
4 exclusion will be noted for the record.

5 With respect to all other meeting
6 participants, we ask in the interest of fairness
7 that they address any current or previous financial
8 involvement with any firm whose product they may
9 wish to comment upon.

10 Thank you.

11 Open Public Hearing

12 DR. GROSS: We will begin with the open
13 public hearing.

14 Both the Food and Drug Administration and
15 the public believe in a transparent process for
16 information gathering and decisionmaking. To
17 ensure such transparency at the open public hearing
18 session of the Advisory Committee meeting, FDA
19 believes that it is important to understand the
20 context of an individual's presentation.

21 For this reason, FDA encourages you, the
22 open public hearing speaker, at the beginning of

1 your written or oral statement to advise the
2 committee of any financial relationship that you
3 may have with the sponsors of any products in the
4 pharmaceutical category under discussion at today's
5 meeting. For example, this financial information
6 may include the sponsor's payment of your travel,
7 lodging, or other expenses in connection with your
8 attendance at the meeting.

9 Likewise, FDA encourages you at the
10 beginning of your statement to advise the committee
11 if you do not have any such financial
12 relationships. If you choose not to address this
13 issue of financial relationships at the beginning
14 of your statement, it will not preclude you from
15 speaking.

16 The first speaker in the hearing will be
17 Representative Bart Stupak.

18 MR. STUPAK: Good morning. I do not have
19 any financial interests with anyone,
20 pharmaceuticals or any of the sponsors here today.

21 Thank you for the opportunity to allow me
22 to address this Accutane Advisory Committee. I

1 have submitted a written statement, so let me
2 highlight some parts of it.

3 The FDA has documented 366 pregnancy
4 exposures since the inception of the S.M.A.R.T.
5 program. Because the reporting of the pregnancy
6 exposures to isotretinoin is voluntary, there is no
7 way of knowing how many pregnancies have actually
8 occurred. In fact, Dr. Graham of the FDA has
9 actually estimated the yearly exposure rate may be
10 as high as 2,000, and that has recently been
11 revised, may be as high as 3,500 per year. This,
12 of course, does not include abortions.

13 It seems clear that the only way to
14 dramatically reduce the rate of pregnancy exposures
15 in Accutane patients is to regulate like the FDA
16 regulates Thalidomide.

17 A toothless, voluntary registry does not
18 work, and we all know it. The registry should be
19 mandatory for all female and male patients, for all
20 prescribers and dispensers of Accutane. There
21 should be real consequences for refusal to
22 participate in a program. I plan to introduce that

1 legislation in the coming weeks.

2 For 22 years, we have seen the harm
3 Accutane can do to pregnant women and to our
4 children. How many more babies have to be born
5 with serious birth defects, how many more women
6 need to have miscarriages, and how many more
7 children have to die before the FDA implements
8 meaningful protections and restrictions on the use
9 of Accutane?

10 The risk of severe birth defects caused by
11 Accutane is undisputed. Let's take a look at the
12 history of this drug a little bit, because I don't
13 think anyone has ever focused on the full history
14 of this drug.

15 Go back to the Advisory Committee hearings
16 of 1988, 1989, and 1990. Roche had assured
17 Advisory Committees that Accutane would be
18 prescribed only to women with severe recalcitrant
19 cystic acne and pregnancy exposure rates would
20 dramatically decrease because the average
21 dermatologist would only see less than one female
22 per year that would require Accutane therapy.

1 Therefore, they concluded it would be
2 limited to 5,000 new patients per year, and Roche's
3 advertising would focus, not on Accutane usage, but
4 future ads would, quote, "dramatically" focus on
5 "contraindication and proper use of pregnancy
6 prevention."

7 With those assurances, even the 1988
8 Advisory Committee, by consensus, considered
9 limiting the use, prescription and distribution in
10 four ways, but this consensus was never acted upon
11 and the committee concerns were largely forgotten
12 as Roche went on to make Accutane their second
13 highest selling drug.

14 Ten years later, the FDA and Roche
15 implemented the Pregnancy Prevention Program after
16 continued pregnancy exposures. In this program,
17 pharmacists, patients, and physicians were to work
18 together to decrease the pregnancy exposures to
19 Accutane.

20 Despite the PPP, the red stickers, the
21 voluntary consent form, and the NO pregnancy symbol
22 with the red line through it, Accutane pregnancy

1 exposures continued at unacceptable levels. In
2 fact, many patients, when they saw that pregnancy
3 with the line through it, the women actually
4 thought that Accutane was a form of birth control.

5 Not only did the number of female patients
6 receiving Accutane dramatically increase, so did
7 the off-label use of Accutane. It is estimated
8 that 90 percent of Accutane use is for off label,
9 and the FDA is of the opinion that many of the
10 prescribing physicians do not understand the
11 teratogenic effects of Accutane.

12 At the end of the September 2000 Advisory
13 Committee hearing, the Advisory Committee
14 recommended five conditions, and I am sure you are
15 all familiar with them.

16 The FDA agreed with the Advisory Committee
17 recommendations. FDA and Roche then began their
18 discussions on how to implement these
19 recommendations.

20 While the focus of these negotiations
21 centered on a pregnancy risk management program,
22 the U.S. House of Representatives became involved

1 after the death of my son. In October of 2000, my
2 family and I went public with our concerns that
3 Accutane was associated with suicides in some
4 patients. Back then, Roche and the FDA claimed
5 there were 37 suicides. I believe there were at
6 least 54 associated with Accutane use.

7 Congressional hearings were held in
8 December of 2000 and again on December 11, 2002.
9 The December 2002 congressional Oversight and
10 Investigation Subcommittee hearing was attended by
11 12 members of the Energy and Commerce Committee.

12 The answers we sought were to the numerous
13 issues relating to Accutane, but included the
14 continued pregnancy exposure and the psychiatric
15 effects of Accutane. Committee members were
16 appalled when they learned that the FDA had
17 reversed its position and decided it was not
18 necessary to implement the September 2000 Advisory
19 Committee recommendations.

20 The FDA excuses of privacy and HIPAA
21 concerns for not implementing these recommendations
22 rang hollow with congressional committee members.

1 In the meantime, Roche continued to
2 aggressively market Accutane, growing to 1.51
3 million prescriptions in 2001.

4 The FDA negotiations with Roche produced
5 an agreement called the S.M.A.R.T. program.
6 S.M.A.R.T. did not fulfill the recommendations made
7 by the Advisory Committee. The S.M.A.R.T. program
8 began five months before the December 11, 2002
9 hearing.

10 Witnesses from the March of Dimes and the
11 Organization of Teratology Information Services,
12 OTIS, as we call them, testified that the
13 S.M.A.R.T. program would not achieve its
14 objectives, and the S.M.A.R.T. program did not go
15 far enough.

16 The OTIS representative further testified
17 that a partial review of their organization had
18 already revealed 17 cases of pregnancy exposure to
19 Accutane and that there was a lot of slippage in
20 the system.

21 At the hearing, the Chairman of our
22 committee asked the FDA, "What is your fallback

1 position if the S.M.A.R.T. program doesn't improve
2 things with the pregnancy exposures?"

3 Dr. Woodcock answered that for a variety
4 of reasons, FDA would evoke its authority under the
5 Food, Drug, and Cosmetic Act only as a last resort.

6 Members of the committee also learned
7 firsthand the FDA was dragging its feet. The FDA
8 failed to provide relevant documentation until the
9 day of the hearing, when they dropped off a number
10 of boxes filled with information requested by the
11 committee.

12 The FDA had evidence of the failings of
13 the S.M.A.R.T. program from its inception. Doctors
14 were pre-dating yellow stickers that signify the
15 female patient had received a negative pregnancy
16 test. Medical clinics were pre-dating
17 prescriptions so the patient could fill more than
18 one prescription within the seven-day limit of the
19 negative pregnancy test.

20 At least one patient was purchasing
21 Accutane with no pregnancy test, no prescriptions,
22 no consent forms. Some health care plans, who

1 electronically dispense their prescriptions, were
2 not using the yellow negative pregnancy sticker.

3 Pharmacies were not giving out the Med
4 Guides for Accutane, and that compliance with these
5 toothless regulations were not working. In fact,
6 approximately 50 percent of the doctors were not
7 using the informed consent forms because it's
8 voluntary.

9 The FDA withheld this information from our
10 committee at the December 11th hearing.

11 Now, Roche said they will support a
12 mandatory registry and submit a proposal. Please
13 understand my and a number of committee members
14 skepticism after going through the numerous
15 Advisory Committee hearings. I still do not
16 believe the FDA and Roche will ever institute a
17 registry and certification program similar to that
18 of S.T.E.P.S. for Thalidomide.

19 Equivalent effects call for equivalent
20 restrictions. There must be a mandatory
21 isotretinoin registry for patients, doctors, and
22 pharmacists. Pregnancies will continue to occur if

1 any element is left out of the registry. There
2 must be consequences for failure to comply with any
3 part of the program.

4 FDA complains that if we do this, we will
5 send this drug to a black market. Since 1999,
6 myself and other members of Congress have tried to
7 address this issue on the Internet. We have asked
8 for the FDA to comment on our legislation, where
9 can we improve upon it. To date, FDA has not
10 answered.

11 The manufacturer of Accutane, Hoffmann-La
12 Roche, is just as culpable as the FDA in allowing
13 Internet and mail order of Accutane in the country.
14 Roche hides behind the FDA's inaction to complain
15 of Internet sales. Yet, their product coding
16 allows them to determine the exact location of
17 where products are shipped, to whom, and when.

18 We can cut down on these illegal sales, it
19 can be done. In fact, our committee has convinced
20 Purdue Pharma to stop shipping oxycotin to Mexico
21 as it is being brought back across the U.S. border.
22 Yet, when we pointed this out, what we have been

1 able to do in Mexico, and that Mexico does not have
2 the same regulatory scheme for Accutane as we have
3 in this country, Roche has refused to stop the
4 shipment of Accutane to Mexico.

5 Answers as to why Roche isn't really
6 serious about entering into a mandatory registry
7 for Accutane for patients is very clear. Roche did
8 all it could to defeat the registry for Accutane as
9 recommended by the September 2000 Advisory Panel.

10 In fact, the recommendations or the defeat
11 of those recommendations was a cause to celebrate
12 because, as Roche says, there is no psychiatric
13 registry.

14 Not only did Roche view the defeat of the
15 registry as a cause to celebrate, and they
16 protected their \$450 million sales in Accutane,
17 Roche does not want any form of registry that would
18 provide insight into the psychiatric effects on
19 patients.

20 Roche is so fearful that a registry may
21 provide evidence of Accutane causing psychiatric
22 injury to young, developing brains that it will

1 stop at nothing to prevent the registry.

2 If you go back and take a look at the
3 history of this drug, Roche, in its initial
4 application to the FDA, they forgot to submit a
5 study, a study which was uncovered, which shows
6 that Accutane does adversely affect the central
7 nervous system in mice.

8 The committee has uncovered three more
9 studies, subsequent studies, that also suggest
10 Accutane does have some effect on the central
11 nervous system. Even the FDA, which has been
12 working with the National Institute of Mental
13 Health and the National Institute of Health has
14 kept from the Advisory Committee and the American
15 people their preliminary studies which do suggest a
16 causation between Accutane and psychiatric
17 injuries. Both the FDA and Roche have misled and
18 failed to protect the American people, unborn
19 children, and young adults from the devastating
20 effect of this drug.

21 I hope this time the FDA does not allow
22 the manufacturers of Accutane and its generics to

1 come in and water down the recommendations that may
2 be made by this Advisory Committee.

3 I am not sure Congress is willing to let
4 them do that anymore. As I said earlier, I will be
5 introducing legislation to establish a mandatory
6 registry of patients, doctors, and pharmacists,
7 similar to that of the Thalidomide registry.

8 Within the documents provided by the FDA,
9 there is a statement provided by an exasperated FDA
10 investigator who cries out, how could the FDA grant
11 a patent extension on Accutane for use in young
12 patients with the devastation this drug has caused?
13 One begins to ask, what special powers or charm
14 does Roche have over the FDA?

15 It is time to put restrictions on the
16 users, prescribers, dispensers and marketers of
17 Accutane and its generics.

18 Thank you and if there is any questions, I
19 will be pleased to answer them.

20 DR. GROSS: Thank you very much,
21 Representative Stupak.

22 The second speaker is Gordon Day, who is

1 President-Elect of the Society of Dermatology
2 Physician Assistants.

3 MR. DAY: Good morning, Advisory Members.

4 My name is Gordon Day, and I am a
5 certified physician assistant, and I practice
6 dermatology in Sandy, Utah, a suburb of Salt Lake
7 City.

8 I am the President-Elect of the Society of
9 Dermatology Physician Assistants. The SDPA is a
10 national medical association of 900 members whose
11 mission is to improve patient care by providing
12 additional education and training for our members.

13 Physician assistants are but one group of
14 physician providers that prescribe isotretinoin.
15 We are an integral component of the medical team.
16 The collegial and dependent relationship we have
17 with dermatologists contributes directly to the
18 quality of diagnostic and therapeutic care
19 furnished to our patients.

20 The uniqueness of our position allows us
21 to spend more time with patients, providing
22 education on the therapeutic options for acne

1 treatment including the risks and benefits of
2 isotretinoin therapy. This also includes
3 contraceptive counseling.

4 Our Society firmly believes it is
5 necessary to assure the public that our members who
6 prescribe medications such as isotretinoin are
7 qualified to do so. Continuing medical education
8 and other life-long learning opportunities offered
9 by our Society include compliance with the
10 manufacturer-developed and FDA-approved risk
11 management program for fetal exposure.

12 It is also essential that medical
13 providers using isotretinoin be proactive in ways
14 that guarantee the continued availability of this
15 drug for qualified patients, and that is why I am
16 here today.

17 There are few other therapeutic options
18 available to us to effectively treat nodulocystic
19 acne. Additionally, it is important to the
20 dermatology health care team that patients be
21 compliant in all aspects of isotretinoin therapy,
22 including adherence to contraceptive practices

1 which are in place to minimize the likelihood of
2 adverse outcomes.

3 The importance of isotretinoin cannot be
4 emphasized strongly enough for our patients with
5 severe acne, who can avoid scarring and
6 disfigurement by use of this medication.

7 As a physician assistant in dermatology, I
8 see older patients on a daily basis who would have
9 benefited from isotretinoin, but whose bouts of
10 this severe acne occurred before this wonder drug
11 was approved for sale in the United States. They
12 will be scarred forever.

13 I have observed firsthand how patients
14 with severe cystic acne may be so concerned with
15 their appearance that it affects their daily
16 living, self-concept and quality of life. There
17 are patients I care for who will not go swimming
18 because of the severe cystic acne lesions and
19 scarring on their backs and shoulders.

20 I have female patients that have limited
21 outings socially because of their severe cystic
22 acne, and I have those patients who suffer from low

1 self-esteem and required psychiatric treatment
2 because of their severe acne. Isotretinoin is an
3 important tool for helping these patients when all
4 other options fail to improve their condition.

5 In the dermatology practice where I
6 provide care, in an attempt to avoid adverse
7 outcomes, I not only employ the S.M.A.R.T. program,
8 but also have developed a protocol that I and my
9 supervising physician, and other members of our
10 health care team use to make sure that all the
11 necessary risk management program components are
12 documented when using isotretinoin.

13 This enhanced protocol encompasses review
14 of side effect profiles, pregnancy testing,
15 contraceptive counseling, the completion of
16 time-specific laboratory testing, a thorough review
17 of the patient's own responsibilities,
18 participation in the survey, and completion of the
19 informed consent process.

20 It is an unfortunate fact that a small
21 number of fetal exposures still occur in female
22 isotretinoin patients, relative to the overall

1 number of female patients taking this drug.

2 Therefore, the Society of Dermatology
3 Physician Assistants would like to collaborate with
4 the American Academy of Dermatology Association and
5 the FDA on improving the effectiveness of the
6 current risk management program in ways that lead
7 to fewer adverse outcomes and safeguard patient
8 confidentiality and rights in the health care
9 system.

10 This process, once completed, should serve
11 as an educational tool for the patients, the
12 prescribers, and the pharmacists.

13 Thank you.

14 DR. GROSS: Thank you, Mr. Day.

15 The third speaker is LaDonna Williams,
16 Executive Director, Inflammatory Skin Disease
17 Institute.

18 MS. WILLIAMS: Good morning. I am LaDonna
19 Williams, and I am the Executive Director of the
20 Inflammatory Skin Disease Institute, a patient
21 advocacy group that provides education, public
22 awareness, and support to those patients with

1 inflammatory skin disease and their families.

2 Inflammatory skin disease is a broad
3 category of conditions ranging in severity. As you
4 can imagine, these diseases are very distressing to
5 those who have them, causing great discomfort and
6 real emotional distress.

7 You can learn more about inflammatory skin
8 disease by visiting our web site
9 www.isdi.online.org.

10 I feel it is important to be here today on
11 behalf of the patients who suffer from the
12 inflammatory skin disease acne. Severe acne is
13 characterized by papules, pustules and inflamed
14 nodules. Acne is a common skin disease and can be
15 a very serious medical condition.

16 For many Americans it is more than a
17 temporary cosmetic problem that can be treated by
18 over-the-counter lotions and creams.

19 For many Americans it is more than a
20 condition that can be treated by antibiotics, oral
21 contraceptives, or steroids. Indeed, for thousands
22 of unfortunate Americans, acne can be a

1 life-altering and a socially terminal medical
2 condition for which isotretinoin is the only
3 effective method of treatment.

4 I am representing hundreds of acne
5 patients who cannot be here today. These patients
6 are both male and female, teenagers and adults who
7 have contacted me to express their strong support
8 for continued access to isotretinoin. This drug
9 literally worked wonders for them and they want to
10 make certain that it remains available for other
11 severe acne sufferers.

12 You have already reviewed reams of
13 briefing material and listened to hours of
14 testimony about the current risk management effort
15 to reduce fetal exposure to isotretinoin.

16 The Inflammatory Skin Disease Institute
17 agrees it is necessary to provide and improve a
18 program and reduce the number of pregnancies
19 associated with this drug keeping in mind I have
20 received numerous letters from teenagers and adults
21 stating how isotretinoin saved their skin and their
22 self-esteem.

1 Many parents have written to me on behalf
2 of their children. One grateful mother told me how
3 isotretinoin improved her daughter's skin, and not
4 only made positive changes in her teenager's life,
5 but made positive changes in the whole family
6 because they could go out in public and do social
7 things together again.

8 I have received calls in my office from
9 patients and their parents explaining how academics
10 in high school has improved dramatically because
11 attendance became 100 percent after isotretinoin
12 cleared up their student's acne.

13 One patient had to consider to leave her
14 job that she loved very much because her acne was
15 so severe that her face was in a constant state of
16 being red, swollen, and painful, with disfiguring
17 pustules. Children were afraid of her, which in
18 turn made her withdrawn and depressed. She took
19 isotretinoin and she feels it saved her job, her
20 relationships, and her life.

21 I could go on and on with personal
22 accounts from patients for whom isotretinoin made a

1 positive difference in their lives. It is on their
2 behalf that I speak with you today.

3 I thank you for your time and your
4 attention in listening to these stories, and I hope
5 you will keep these testimonies in mind as you
6 debate the future direction of the isotretinoin
7 risk management program.

8 If I may close with somewhat of a cliché -
9 the effectiveness of isotretinoin goes beyond skin
10 deep. I hope that I have impressed upon this
11 committee how absolutely essential it is for this
12 drug treatment for acne to remain on the market,
13 and I hope I have impressed upon you how essential
14 it is for the qualified patients

15 Thank you.

16 DR. GROSS: Thank you.

17 The next speaker is Dr. Boni Elewski,
18 President of the American Academy of Dermatology,
19 the fourth speaker.

20 DR. ELEWSKI: Good morning, everyone.

21 My name is Dr. Boni Elewski. I am a
22 practicing dermatologist and Professor of

1 Dermatology in the Department of Dermatology at the
2 University of Alabama in Birmingham.

3 In addition to my medical duties, I am
4 also President of the American Academy of
5 Dermatology Association. On behalf of the 14,000
6 members of the Association, and our hundreds of
7 thousands of acne patients, I thank you for the
8 chance to speak with you about the current
9 pregnancy risk management program for isotretinoin.

10 The health, safety, and welfare of our
11 patients is of paramount importance to
12 dermatologists, as is the integrity of the
13 doctor-patient relationship. Indeed, because of
14 these concerns, our organization is committed to
15 optimizing the safety of our patients taking this
16 drug, as well as ensuring continued access to
17 isotretinoin for all qualified prescribers.

18 Education and communication with our
19 members and their patients about isotretinoin
20 compliance is essential to the safe use of this
21 drug.

22 The current risk management program has

1 been promoted in numerous education and
2 communication efforts, such as CME activities,
3 Member Alerts, articles on our web site, in our
4 official publication Dermatology World, and will be
5 augmented by new initiatives.

6 In addition, the Association hosted a
7 scientific consensus conference on the safe and
8 optimal use of isotretinoin to which key
9 decisionmakers in the FDA and the scientific
10 community were invited. The proceedings will be
11 published next month.

12 Recently, the Association sent a letter to
13 the FDA Commissioner with a list of web sites that
14 sell isotretinoin on line. We hope this
15 information will assist the agency with addressing
16 the problem of illicit sales of this powerful drug.

17 You have just heard a number of compelling
18 stories about the benefits of isotretinoin therapy.
19 I myself have treated hundreds of patients whose
20 quality of life has improved tremendously because
21 of this drug.

22 This is because acne is not simply a

1 cosmetic problem. In 1948, renowned dermatologist
2 Dr. Marion Sulzberger said, and I quote, "There is
3 no single disease which causes more psychic trauma,
4 more maladjustment between parents and children,
5 and general insecurity and feelings of inferiority
6 and greater sums of psychic suffering than does
7 acne." More than a half century later, his
8 observation still rings true.

9 When all other treatment options fail,
10 isotretinoin is the miracle drug that clears away
11 the redness, painful swelling, and lesions of
12 severe, nodulocystic acne, which may lead to
13 painful and disfiguring scars.

14 Unfortunately, a small number of women are
15 pregnant or become pregnant while taking this drug.
16 As always, our goal is to ensure both patient
17 safety and continued access to isotretinoin for all
18 qualified patients. For this reason, we would like
19 to offer the following recommendations for
20 improving the current risk management program.

21 First, the survey of female patients
22 should be mandatory, not voluntary. We propose

1 that isotretinoin therapy be prescribed for
2 qualified female patients only if they participate
3 in the survey. Data generated by this mandatory
4 survey would be more complete. Of course, it is
5 the ultimate responsibility of the female patient
6 to comply with the birth control requirements of
7 the program and to avoid pregnancy.

8 Second, a single questionnaire and vendor
9 for the female patient survey should be designated.
10 The present situation with the generic
11 manufacturers using one questionnaire and vendor,
12 and Hoffmann-La Roche using another questionnaire
13 and vendor, is confusing to prescribers and
14 patients alike.

15 Furthermore, differences in the surveys
16 make it difficult to compare data. A single
17 questionnaire and vendor would minimize this
18 confusion, improve data gathering, and promote
19 patient safety and education, and ultimately
20 improve the health, safety, and welfare of our
21 patients taking this drug.

22 Third, the survey questionnaire should be

1 re-evaluated and simplified to obtain the pertinent
2 information to assess the risk management program.
3 Ultimately, this will improve the health, safety,
4 and welfare of our patients taking isotretinoin.

5 Fourth, the current risk management
6 program must be clarified and simplified to address
7 ongoing issues of concern for doctors and patients
8 alike.

9 And finally, it is crucial that program
10 materials warn patients to avoid Internet sales,
11 avoid re-use, or sharing of isotretinoin.

12 Let me close by saying, the preservation
13 of the doctor-patient relationship is crucial, and
14 may I add, an integral component to the risk
15 management system. As we strive to improve the
16 current risk management program for isotretinoin,
17 the American Academy of Dermatology Association's
18 guiding principle has always been, and will
19 continue to be, the health, safety and welfare of
20 our patients.

21 Thank you.

22 DR. GROSS: Thank you, Dr. Elewski.

1 The next speaker, the fifth speaker, is
2 attorney Paul Smith.

3 MR. SMITH: Good morning. My name is Paul
4 Smith and I am an attorney practicing law in
5 Austin, Texas.

6 My practice relates exclusively to
7 pharmaceutical litigation and for the past two
8 years I have worked nearly full time on behalf of
9 families and individuals who have experienced
10 devastating and catastrophic side effects from
11 Accutane.

12 In connection with this privilege, I have
13 personally seen and known dozens of individuals and
14 families whose lives have been horribly altered as
15 a result of this powerful and dangerous drug.

16 The tragedy of a parent who has lost their
17 child to suicide and the tragedy of these parents
18 and babies who have to live with serious and
19 permanent birth defects is beyond description.

20 I understand that as my role, I am charged
21 with the responsibility to seek redress for these
22 people in the court system. However, today, I am

1 stepping out of my role as a legal advocate, today,
2 I come before you as a member of the public who has
3 talked to and seen many who have been harmed by
4 Accutane.

5 Today, I am asking you to take a serious
6 and deliberate look at risk presented by this drug,
7 which has not, in my opinion, been fairly and
8 accurately examined.

9 You are fortunate to have the ability to
10 suggest and ensure that the tragedies that I have
11 seen in connection with this drug are substantially
12 reduced.

13 For over 20 years now, the FDA has made an
14 effort to regulate this product by adding warnings
15 and warnings in connection with this drug. This is
16 a laudable goal to try to ensure some safe use of
17 this product, however, as has been well established
18 and is beyond dispute today, the various programs
19 that have been instituted have failed miserably.

20 The admission and concession by Roche that
21 a registry is needed is too late for many. If
22 there is a registry, however, there are two

1 components which must be incorporated.

2 The first involves paternal exposure, that
3 is, where the father takes Accutane when the mother
4 conceives the fetus. This is limited to treatment
5 of the father with Accutane.

6 The second is the incredible failure of
7 Roche to consider the known psychiatric component
8 of the drug to impair complete compliance with any
9 rational program aimed at preventing fetal
10 exposures.

11 The dangers and risk of paternal exposure
12 is something that must be better studied and
13 understood. I point you to the Thalidomide
14 warnings which strongly advised male patients
15 taking Thalidomide to use contraceptive measures.
16 This is in dramatic contrast to the Accutane,
17 which suggests that there is no risk to the fetus
18 as the result of paternal exposure.

19 I have with me recently released documents
20 that indicates that Roche's own internal experts
21 has, in reviewing 13 potential paternal exposures,
22 found that in 5 of those cases, a possible

1 relationship could not be excluded.

2 This is a document that Roche fought hard
3 to keep from the public. I have it here with me.
4 It is sitting here for your review. I would
5 welcome and request that you get a copy of this and
6 review it thoroughly.

7 Carter Crosland, who is here with his
8 mother and father, is, in fact, one of the five
9 whose medical records were examined by the Roche's
10 internal geneticist. The Roche consultant
11 concluded that Carter's difficulties could very
12 well be related to Accutane embryopathy.

13 Roche's response to this phenomena and the
14 risk associated with paternal exposure is
15 inadequate. The public should be aware the
16 potential exposure does exist, and there should be
17 warnings specifically advising that there is
18 problem with paternal exposure.

19 We would strongly urge a registry that
20 includes males using Accutane that specifically
21 tracks their sexual activities.

22 The second issue for your consideration is

1 the inability of certain patients to comply with
2 warning and instructions as a direct result of
3 known psychiatric side effects presented by this
4 drug.

5 Only Roche disputes that Accutane may
6 cause depression and behavioral changes. It seems
7 to be well accepted within the rest of the
8 scientific community that there is a strong
9 relationship between Accutane and psychiatric
10 adverse events and depression.

11 I have seen nothing publicly which
12 suggests that Roche has even considered this
13 foreseeable and predictable phenomenon of pregnancy
14 secondary to impaired capacity as a result of
15 depression.

16 Debbie Banner is here to explain to you
17 how she got depressed and was unable to comply with
18 the program in effect at the time to prevent her
19 pregnancy.

20 I thank you for your attention and your
21 kind consideration and again the paternal exposure
22 study itself that was submitted to the FDA is here

1 for your review.

2 Thank you very much.

3 DR. GROSS: Thank you, Mr. Smith.

4 The sixth speaker is Debbie Banner.

5 MS. BANNER: Good morning. My name is

6 Debbie Banner. I am here with my husband Kevin. I

7 have known my husband since I was 17, and we have

8 been married for seven years. I appreciate this

9 opportunity to share with the members of this

10 honorable committee my horrifying experience with

11 the drug Accutane.

12 Starting today, we will offer one of the

13 answers to this question, why are girls continuing

14 to become pregnant while on Accutane despite the

15 warnings that Accutane causes birth defects?

16 I am afraid that one of the answers I will

17 propose today is one that neither the FDA, this

18 committee, or Hoffmann-La Roche has adequately

19 studied or considered.

20 I am also here to describe the nightmare

21 of having a child who has been born with Accutane

22 birth defects.

1 I became pregnant while on Accutane. I
2 survived this nightmare by the grace of God, strong
3 faith, a loving husband, and an overwhelming
4 commitment to my son.

5 I was devastated that I played a role in
6 causing my own child to be deformed. So, I vowed
7 to sacrifice everything to give him the best life I
8 could possibly give. Because I accepted my fate
9 humbly, I believe that is why God finally revealed
10 the other side of the story to me, the missing
11 piece of the puzzle.

12 On October 4th, 1996, my son Deven was
13 born. There is no medical doubt that his birth
14 defects are due to the effect of Accutane on him as
15 a developing fetus. He has been seen by the best
16 physicians and was diagnosed with Accutane
17 embryopathy.

18 Deven was diagnosed with an underdeveloped
19 cerebellum resulting in cerebral palsy and
20 hypotonia. At the age of 7, he is fed through a
21 feeding tube that is surgically inserted into his
22 stomach, he suffers from seizures.

1 After four eye surgeries, he has visual
2 perceptual problems. He has sensory integration
3 problems which manifest as autistic-like behaviors.
4 He has verbal expressive disorder, speech problems,
5 and requires physical therapy, occupational
6 therapy, and speech therapy.

7 He has a chronic history of pneumonia. He
8 requires special education services in school and
9 special accommodations. Along with these and other
10 medical problems, as well as fine motor and gross
11 motor impairments, it is likely that he will be
12 unable to take care of himself as an adult.

13 I was on Accutane in 1995 when I was 24
14 years old. I was an aerobics instructor and
15 attending school. I was working two jobs. I was
16 of healthy mind, body, and spirit, so when I first
17 visited the dermatologist, I was a happy person
18 although I had an acne problem.

19 Days after ingesting Accutane, I began to
20 react as if I were poisoned. I developed severe
21 headaches and sharp, piercing head pains. I was
22 nauseous day and night. I was weak, dizzy,

1 confused, forgetful, suffering from hypersomnia and
2 severe crying spells.

3 Eventually, I developed suicidal thoughts.
4 I just wanted to sleep and never wake up again. I
5 was too sick when I was awake.

6 At the initiation of treatment, I had
7 chosen abstinence as my method of birth control. I
8 chose this for religious reasons and did not plan
9 to be sexually active again until I was married.

10 However, once in a state of severe
11 depression, I became mentally incapable of making
12 appropriate decisions. My thoughts were filled with
13 thoughts of suicide and death, which eventually
14 required psychiatric intervention.

15 At the time of conception, I was no longer
16 a patient that was reliable and capable of
17 complying with mandatory pregnancy prevention
18 procedures and reliable in carrying out
19 instructions.

20 The missing piece of the puzzle was given
21 to me when I learned that the psychiatric problems
22 that led to my pregnancy were a side effect of

1 Accutane.

2 Through my research, I have now met other
3 mothers who became pregnant on Accutane. I have
4 learned that depression was a factor in their
5 inability to comply with the warnings that, like
6 me, led to a nightmare of birth defects.

7 I have spoken to one mother who actually
8 attempted suicide while on Accutane and became
9 pregnant weeks later. To this day, there is no
10 instruction, education, or warning on how
11 psychiatric side effects of this drug may prevent
12 you, despite the best intentions, from complying
13 with the pregnancy prevention program.

14 It seems fundamental to me now, but how
15 can you educate someone that may not be able to
16 protect themselves. How can anyone including the
17 doctors who prescribe it believe that the drug
18 could do this when Roche refuses to admit that
19 there is a psychiatric component to the drug?

20 I am here to tell you from my own
21 experience, and experience told to me by other
22 mothers admitted in a cloud of shame and stigma

1 that depression can and does interfere with
2 pregnancy prevention even when patients have chosen
3 other forms of birth control.

4 Because women and girls are continuing to
5 become pregnant, I plead with this committee to
6 require that females of childbearing potential
7 receive an initial psychiatric evaluation and are
8 then monitored by a psychiatrist throughout
9 treatment.

10 To leave this decision to patients who may
11 be in denial and cannot protect themselves is to
12 guarantee more birth defects and abortions.

13 Because Accutane is such a powerful drug, it is
14 worth the extra effort and expense to save children
15 from a lifetime of deformity and pain and to
16 finally bring an end to the outrageous number of
17 Accutane abortions.

18 Warning is simply not enough when
19 psychiatric side effects are involved.

20 In conclusion, I want to express my
21 sympathy for people suffering from acne, but even
22 in the very worst cases of acne, their suffering

1 cannot compare to the suffering endured daily by
2 children born with Accutane birth defects.

3 Thank you.

4 DR. GROSS: Thank you, Debbie, and Kevin
5 Banner.

6 The seventh speaker is Carter Crosland.

7 MR. CROSLAND: Good morning. My name is
8 Carter Crosland.

9 Today, you will hear my story. Not only
10 do I speak for myself, but also for the hundreds,
11 perhaps thousands of children whose voices will
12 never be heard. Those dreams and hopes will never
13 be realized. Today, I am their voice.

14 I was born January 22, 1985, in a small
15 rural town in central Utah, the first child of my
16 parents. As a young boy, I was told that I was a
17 miracle and that I had something important to share
18 with the world. I have been blessed with the
19 health, strength, and mental faculties to speak
20 before you today. Perhaps that is my purpose.

21 As a young boy, I dreamed of being a
22 wrestler. I loved sports and had an unusual talent

1 for learning statistics. I played T ball with my
2 friends and they ran the bases for me while I
3 stopped the ball with my wheelchair tires.

4 And then the boys moved on to minors and
5 majors and I stayed behind. I became the batboy
6 and then the base ump. Then the coach, manager, or
7 anything else just to stay involved. The same was
8 true with football and wrestling. As I matured, I
9 realized I would be left behind again. Not only in
10 sports, but in every single aspect of my life.

11 My parents sacrificed to get me where I
12 am, and because they worked hard, we didn't qualify
13 for disability funding from the government. I was
14 too smart. I passed all the cognitive tests,
15 despite missing a third of my brain to a cyst.

16 I passed all the skills and vocabulary
17 tests. I could even pick up the blocks with my
18 mouth and put them in the holes quickly.
19 Therefore, by their standards, I wasn't disabled,
20 and I was at the end of the waiting list without
21 assistance.

22 I had generous people who helped me get

1 arms as a young boy, but we couldn't keep up with
2 the constant re-fitting and trips to the city. My
3 mom worked full time to keep insurance for me, but
4 she couldn't keep leaving work for sick kids and
5 trips to the prosthetic specialist, so I gave up on
6 the arms. They were too costly.

7 When I entered first grade, my mom quit
8 work, so that I could go on field trips, birthday
9 parties, and to the library with my friends. Where
10 I went, my chair went, and also my parents and my
11 van went. That made our financial situation even
12 worse, but I appreciated having my mom around.

13 I took drivers ed at 15 and passed with
14 flying colors, well, all except for the driving
15 test. You see, I can't afford the car for me to
16 drive and the school district can't provide it. I
17 completed high school and graduated with my class.
18 I was voted most preferred senior probably because
19 I had the gift of gab and I like to visit with
20 everyone.

21 My school built a ramp so that I could
22 participate in pomp and circumstance with my peers.

1 I now attend college and I am studying
2 communications. I hope to be a sports broadcaster
3 or work for some firm as a public relations guy.

4 My voice is the only asset I have that
5 puts me on the same playing field as those around
6 me. It is literally the only thing I can do on my
7 own. This is what I have accomplished so far in my
8 life against all odds. Now I would like to tell
9 you what I cannot do.

10 I room with a friend at college. I pay
11 him to help me bathe, get dressed, cook my meals,
12 charge my wheelchair, get my books, help me on
13 dates, drive my car, and anything else I want to
14 do. My friends lift me up the stairs to their
15 place or to any other place that is not accessible.

16 I have to plan for bathroom breaks because
17 I need help. My friend will get married soon, and
18 I will find another person and then another, and
19 another. My parents travel to bring me home and
20 back on weekends because I cannot afford a car that
21 I can drive on my own. My buddies take me shopping
22 and help prepare and eat my meals. They clean up

1 for me and do my wash.

2 Because I have all my mental faculties, my
3 dreams are the same as every other young man my age
4 - a car, a job, a girlfriend, and someday a wife
5 and family. I hope for these things, but I take it
6 one day at a time, and I don't know what the future
7 holds for me.

8 I keep being determined to make the best
9 of it and to find happiness in every small thing
10 around me. Some of these dreams I can realize now
11 if I could afford it. Money is a tremendous
12 limitation, nearly as limiting as my disability.
13 Please do not make money a factor in your decision
14 to research and regulate this drug.

15 They say that I don't fit into any
16 category or syndrome because of my intelligence. I
17 feel that my mental abilities are a gift from God
18 and are for a purpose. Today, I hope that purpose
19 is to bring this matter before you to your
20 attention.

21 I hope that you will look deep into your
22 heart and do everything you can to study, research,

1 and take every step possible to prevent this from
2 happening to one more child. Most are not as
3 fortunate as I am. Their voices will never be
4 heard. Please hear mine.

5 I thank you for your time.

6 DR. GROSS: Thank you, Mr. Crosland.

7 The eighth speaker will be Lisa Crosland.

8 MRS. CROSLAND: Ladies and gentlemen, good
9 morning. I am Lisa Crosland, and I am here with my
10 husband Russell and my son.

11 A first pregnancy is supposed to be a
12 happy time filled with anticipation and excitement,
13 but mine was neither. For me, I was a 19-year-old
14 in college, in love. We had big plans, big plans
15 and dreams that included marriage and children, but
16 things changed when Russell began using Accutane.

17 Our relationship became a disaster filled
18 with unkept promises and unpredictable behavior.
19 An engagement was broken and so was my heart, and
20 then I found out I was pregnant and alone.

21 Things went from bad to worse. I had
22 recurring nightmares that the baby inside me was

1 not right. I didn't grow enough, the baby banged
2 back and forth. An ultrasound at almost six months
3 confirmed my worst nightmare.

4 We were told that our baby had no arms and
5 legs, no sex organs. The child had a third of its
6 brain covered with fluid that was increasing. They
7 felt his eyes were too big and his head too large.
8 A large growing hernia and funny-shaped mouth was
9 also evident.

10 Most doctors felt the child would abort
11 itself. Others said that if it lived, it would be
12 on life support, unable to suck, and
13 institutionalized. I was devastated and so was
14 Russell. We prayed for a miracle that our child
15 would not suffer.

16 Our miracle was not what we expected, our
17 child lived, and today we are telling his story.
18 As parents, our first concern was why did this
19 happen, what did I do. Parents need to know why
20 this has happened to them.

21 I had lived what I thought was a clean and
22 healthy life. I did not smoke, I did not drink or

1 use drugs. Every effort was made to determine what
2 I could have done to prevent this as a mother.
3 Yet, we turned up empty-handed.

4 The first time I heard the word Accutane
5 embryopathy was from a genetics counselor at the
6 University Hospital in Salt Lake City. Carter was
7 almost three months old and had just had his second
8 surgery. The doctor felt Carter's symptoms were
9 too similar to maternal Accutane exposure to
10 ignore.

11 I told her that I had never used the drug,
12 but his father had before, during, and after I
13 became pregnant. Carter has been worked up by the
14 best doctors and the best facilities. Everyone
15 wanted to know whether Russell or I carried some
16 odd genetic code that would cause this in the
17 future.

18 We looked everywhere, but there was
19 nothing else but Accutane. We reported an adverse
20 reaction to Hoffmann-La Roche, who responded that
21 this could not be the cause of our child's
22 deformities. A few years later I spoke directly to

1 a doctor at Hoffmann-La Roche who told me that
2 there were a few other reports of paternal
3 exposure, but all could be attributed to another
4 cause.

5 I even asked for and received films and
6 study materials from Roche. You see, as we have
7 now learned from Roche's internal documents made
8 public only after Roche fought and lost the battle
9 to keep it private. Carter has all the clinical
10 signs of Accutane embryopathy.

11 Roche initially agreed that paternal
12 exposure to Accutane could not be ruled out. Why
13 then hasn't this been researched? Are kids like
14 Carter not worth it?

15 Since this time, I have seen warning
16 labels and adverse reports increase, more children
17 aborted and affected. I have studied and found
18 more and more similarities to things Carter was
19 experiencing in his life that other children whose
20 mothers were exposed were experiencing.

21 His mouth, his dental problems, his
22 problems with temperature regulation are just a few

1 of the less visible problems. Some children whose
2 only link is a mental I.Q. of under 85 have been
3 attributed to Accutane. I find it impossible not
4 to include Carter in this category simply because
5 his father was the user and he is normal in
6 intelligence.

7 Of course, it may very well be that women
8 who become pregnant from a father who has taken
9 Accutane may never put the issue together. The
10 possibilities of hundreds and thousands of
11 abortions simply attributed to poor development or
12 unwanted pregnancy may have occurred, with the
13 public being kept in the dark of these risks.

14 The fact that there has not been more
15 reporting of this issue does not mean that there is
16 not a serious risk and danger. It only means that
17 Roche has been successful in keeping this from the
18 public.

19 This drug Accutane has devastated my
20 family emotionally, physically, and financially.
21 It has been carelessly over-prescribed and
22 under-regulated. It has destroyed our dreams and

1 shattered our lives, yet we stand before you today
2 united in our efforts to demand a change.

3 We want adequate research and funding into
4 the possibility of paternal exposure of retinoids.
5 We want the prescription of this drug for
6 dermatological reasons restricted to dermatologists
7 who are forced to prescribe it only as a last
8 resort for both men and women.

9 We want those greedy individuals who
10 facilitate unprescribed Internet sales of this drug
11 stopped and prosecuted.

12 Most of all, we want answers, not only for
13 ourselves, but for the hundreds of babies aborted
14 who may very well be exactly like Carter, but
15 discarded.

16 I cannot stand before you today and tell
17 you exactly how Accutane is responsible for my
18 son's disabilities, only that we know that it is.
19 Our family and many others have suffered long
20 enough at the hands of Hoffmann-La Roche. We urge
21 you to take a stand and ensure the safety of this
22 drug.

1 Thank you for your time.

2 DR. GROSS: Thank you, Mrs. Crosland.

3 Is there anyone from the public who wants
4 to speak at this point?

5 [No response.]

6 DR. GROSS: Hearing none, we will declare
7 a recess at this point, and we will reconvene at
8 9:15.

9 [Break.]

10 DR. GROSS: While we had closed our public
11 hearing, we are going to reopen it briefly. The
12 tenth speaker from earlier today, Jeffrey Federman
13 will speak.

14 MR. FEDERMAN: Good morning. My name is
15 Jeff Federman, and I am President of Paragon Rex, a
16 company that provides services to the
17 pharmaceutical industry.

18 For purposes of disclosure, we are not
19 engaged with the manufacturers involved in today's
20 meeting. In addition, my colleagues and I authored
21 a book about pharmaceutical risk management.

22 Let me begin my proposing that today's

1 proceedings provide two insights about what can
2 reasonably be expected about the design and
3 improvement of risk management programs.

4 The first focus is on the expectations of
5 rigor and precision. We are all associated with a
6 pharmaceutical industry that is famous for the
7 rigor and precision of its well-controlled clinical
8 trials. We expect to be able to determine drug
9 efficacy using scientific and statistical methods,
10 and would hope to bring a similar level of rigor to
11 pharmaceutical risk management.

12 Our colleagues in other risk-intensive
13 industries, such as nuclear energy and aerospace,
14 have much to teach us about applying a similar
15 degree of rigor to risk assessment and program
16 design. Validated well-established methodologies
17 exist to guide the design of risk management
18 programs in these industries.

19 Research of these practices, as well as
20 the disease management and adult learning
21 disciplines, suggest that effective drug risk
22 management may have several key elements.

1 1. Evidence-based assessment and design
2 process, perhaps such as failure mode and effects
3 analysis, or FMEA, that targets interventions to
4 address specific process-related causes of failure.

5 2. Redundancies that back up the
6 inevitable human failures.

7 3. Collaborative design with practicing
8 physicians to help program elements fit seamlessly
9 into their day-to-day practice of medicine.

10 4. Predictive modeling or pre-testing to
11 determine the likely effectiveness of any proposed
12 program and anticipate where program weaknesses may
13 exist.

14 5. Innovative implementation approaches,
15 perhaps such as scenario-based learning, that build
16 on the way clinicians and patients learn.

17 Finally, ongoing monitoring and
18 measurement with the anticipation that initial
19 programs change over time.

20 Certainly, rigorous design is achievable,
21 yet, in the world of every-day clinical practice,
22 where care is delivered based on the judgments and

1 knowledge and motivations of well-meaning men and
2 women, high precision in terms of predicting
3 program compliance and use may be an unrealistic
4 expectation at the time of program introduction.

5 This key difference between the controlled
6 clinical trial environment to which we are
7 accustomed and the realities of clinical practice
8 lead to a second expectation.

9 I suggest that expecting a definitive
10 precise or final design at the time of risk
11 management program introduction may not be
12 reasonable. Quality improvement standards in other
13 industries are built on the foundation of
14 continuous quality improvement, or CQI.

15 The concept of intervening with an initial
16 program, then, monitoring and measuring for early
17 opportunities to improve the program may be a more
18 achievable expectation.

19 The approach of showing continuous
20 movement towards a goal may require a frequency of
21 analysis and potential redesign occurring in
22 intervals of months, not years.

1 Today's discussions are another step in
2 the ongoing improvement of Roche's pioneering PPP
3 and enhanced S.M.A.R.T. programs. We support these
4 FDA initiatives and believe these hearings today
5 will help lead to the next generation of effective
6 pharmaceutical risk management programs that
7 incorporate both rigorous evidence-based program
8 design, as well as continuous quality improvement
9 to provide the degree of product we are all seeking
10 to achieve.

11 Thank you.

12 DR. GROSS: Thank you, Mr. Federman.

13 At this point, we will close the open
14 public hearing again, and we will move on to some
15 other orders of business.

16 Allen Mitchell, Director, Slone
17 Epidemiology Center, Boston University, will have a
18 few minutes to comment on some questions that were
19 raised yesterday.

20 DR. MITCHELL: Thank you very much, Dr.
21 Gross, and committee, I really appreciate your
22 offer of a few minutes to respond to some of the

1 concerns raised in the FDA review.

2 Yesterday, I mentioned that I was not here
3 on behalf or speaking for the FDA, and then this
4 morning's remarks, I just want to point out that
5 not only is that the case for these remarks, but I
6 am not speaking on behalf of the generic sponsors
7 or Hoffmann-La Roche. I guess that leaves me
8 speaking on behalf of the Slone Epidemiology
9 Center, which I think they will allow me to do.

10 This presentation has not been shared with
11 anyone other than our own group.

12 [Pause.]

13 DR. GROSS: We have a few questions from
14 yesterday. I would like to start with Dr. Day.

15 DR. DAY: Thank you. I did have questions
16 yesterday, however, I would like to defer that
17 comment and use it for an additional comment on the
18 questions today.

19 Would that be all right, Dr. Gross?

20 DR. GROSS: That's fine.

21 Dr. Bigby.

22 DR. BIGBY: I have a couple of questions.

1 The first is to Hoffmann-La Roche.

2 The question was asked I think yesterday
3 about annual sales, and you found the number, but
4 didn't say what it was, the number of 450 million
5 came out today.

6 What are the annual sales of Accutane?

7 MS. REILLY: What year, sir?

8 DR. BIGBY: Last year.

9 MS. REILLY: In 2003, our U.S. net sales
10 were \$144 million.

11 DR. BIGBY: Do you have any idea sort of
12 what you have spent in terms of legal fees and
13 lawsuits around the issue of teratogenicity?

14 MS. REILLY: No, sir, I do not.

15 DR. BIGBY: Is that an obtainable figure?

16 MS. REILLY: I would defer to our counsel.

17 DR. GROSS: Dr. Cohen, Michael, did you
18 have a question from yesterday?

19 DR. COHEN: No, I will hold it until a
20 discussion later.

21 DR. GROSS: Dr. Katz.

22 DR. KATZ: I wanted to ask Dr. Huber, on

1 the people who enroll, what percentage of those,
2 how soon do they get a notice that they have
3 enrolled do they get a questionnaire, and what
4 percentage of the people that enroll fill out those
5 questionnaires, the two or three questionnaires
6 they get?

7 On the enrollment form, it says you will
8 get two or three questionnaires through the
9 treatment. So, what percentage of the people that
10 enroll get the questionnaires and answer them, and
11 how quickly do they get them?

12 DR. HUBER: I will refer to Dr. Blesch who
13 will answer your question.

14 DR. BLESCH: The Accutane survey is
15 divided into two sections. Eighty percent of the
16 patients who enroll, 80 percent get questionnaires
17 immediately upon enrollment. The other 20 percent
18 get a questionnaire approximately six months after
19 they enroll, and then a final questionnaire six
20 months after they finish treatment.

21 All Accutane-surveyed patients are
22 followed, continue to receive questionnaires until

1 six months after their treatment has stopped.

2 DR. KATZ: What percentage of patients who
3 you send that questionnaire to fill out the
4 questionnaire?

5 DR. BLESCH: I don't have that exact
6 number, but I believe it is about 80 percent.

7 DR. KATZ: Thank you.

8 DR. GROSS: Then, the last question from
9 yesterday was from Mr. Levin.

10 MR. LEVIN: I will defer questions until
11 later, but I do have one.

12 I am just curious what the sales for
13 Accutane for Roche were in 2002, prior to generic
14 entry into the market.

15 MS. REILLY: In 2002, that year to date
16 figure was 380 million.

17 DR. GROSS: Thank you.

18 Before proceeding, I would like to read a
19 comment that Dr. Jackie Gardner suggested I read,
20 and I concur.

21 We would like to publicly thank the people
22 who came forward during the open public hearing

1 with their personal stories and acknowledge how
2 difficult that was.

3 Thank you.

4 Allen Mitchell.

5 Responses from Slone Epidemiology Center

6 DR. MITCHELL: Thank you. I think we have
7 things working.

8 [Slide.]

9 If I can follow up on Dr. Katz's question
10 from our survey, which is a similar design, the
11 response rate to the during and after treatment
12 questionnaires, the questionnaires that are sent to
13 women at the onset of therapy and the midst of
14 therapy is about 97 percent in our survey. It is
15 extremely high. That is both with mail and
16 telephone responses included.

17 I wanted to speak about the limitations of
18 the voluntary isotretinoin survey and perhaps some
19 of the non-limitations because it seems to us that
20 this is a critical issue in interpreting the data.

21 [Slide.]

22 Quickly, to review some of the questions,

1 and these are questions that we have posed as
2 potential limitations to this or any other survey
3 since 1988 when we first designed it, what is
4 success. The committee is struggling with this.

5 Of course, there were no pre- and
6 post-comparisons possible, and here we are talking
7 about the data up until the onset of S.M.A.R.T.
8 These are the 14 years of data preceding S.M.A.R.T.

9 What are the critical events that one
10 judges success by, is it pregnancies, live born
11 infants, infants with birth defects? Is the
12 critical outcome a rate of pregnancy, or is it an
13 absolute number?

14 One could imagine different scenarios with
15 very different responses to that final question.

16 [Slide.]

17 Two other limitations that we have
18 identified is that survey participation may provide
19 an unintended intervention and also that recall of
20 risk management may be biased among women who
21 become pregnant.

22 We were well aware of those two concerns

1 going into it, and to deal with those concerns, the
2 design, which is admittedly complicated, includes
3 two arms, the AT arm, which is the after therapy
4 only interview, if you will, and the DAT arm, which
5 is the during and after therapy interview with a
6 number of contacts with patients throughout the
7 course of therapy.

8 Those have varying degrees of patient
9 contact, and information in those arms is collected
10 either prospectively or retrospectively with
11 respect to some of these behaviors. So, we think
12 that we have been able to deal with those issues.

13 [Slide.]

14 There is another point about whether the
15 reporting of pregnancies among survey participants
16 is credible. We are, of course, concerned about
17 that. If women are avoiding pregnancy during
18 treatment, one would expect a rebound in pregnancy
19 rates following treatment. That seemed to us to be
20 an indirect measure of whether reports may be
21 accurate.

22 [Slide.]

1 We have lifted this figure from our 1995
2 New England Journal paper, which summarized the
3 survey experience to date at that point, to
4 describe the pregnancy rates and outcomes during
5 and after isotretinoin therapy.

6 I think it becomes fairly clear that
7 during treatment now, which is lumped together, the
8 pregnancy rate is somewhere approximately 9 per
9 1,000 person years. We are using person years
10 here.

11 And as you can also see, elective
12 termination represents about 70 percent roughly of
13 those pregnancies. In the one month after
14 treatment, where the risk of malformation is
15 considerably reduced, and in our data doesn't show
16 much increase at all, but in that one month of
17 therapy, you begin to see the pregnancy rates
18 increase, and in the two months, three months, and
19 four months after therapy--and we only go out to
20 four months--what you find is a considerable
21 rebound in the pregnancy rates, which is what one
22 would expect if women are trying to avoid pregnancy

1 during the course of therapy.

2 But it is also interesting to point out
3 that by the time you get to the fourth month, the
4 proportion of pregnancies that result in elective
5 termination approximates what we see for the U.S.
6 population.

7 So, this provides some indirect assurance
8 that reporting is not terribly inaccurate.

9 [Slide.]

10 But what I want to focus on is the issue
11 of whether voluntary enrollment may compromise
12 representativeness, and, of course, one always
13 worries about that.

14 The response to that concern is to
15 maximize enrollment. We all know that, that is
16 basic epidemiology.

17 [Slide.]

18 The second approach is to compare the
19 survey population to the target population, and to
20 do that, using demographic characteristics, on the
21 one hand, and ideally, the risk factors in the two
22 groups, on the other hand.

1 [Slide.]

2 I think we should make the point and
3 understand clearly that enrolling 60 percent or
4 more of the target population does not, in itself,
5 assure that that population is representative.

6 Conversely, enrolling less than 60 percent
7 of the target population does not assure that the
8 sample is unrepresentative, and I think that there
9 has been a fair amount of assumption that because
10 the enrollment rates are below 60 percent,
11 therefore, the sample population is
12 unrepresentative.

13 [Slide.]

14 It is very difficult to make direct
15 comparisons in trying to respond to the question
16 about is the survey population a biased sample, and
17 we could spend days, as we have, we have spent
18 months over the past 14 years struggling with how
19 to evaluate this, the best we can do, and this is
20 based, not only in our own considerations, but
21 suggestions from FDA and from advisory committees
22 and our own advisory committee that we have, is to

1 do some indirect comparisons.

2 These are necessarily limited and
3 imperfect, and I wish to make that very clear.

4 [Slide.]

5 Two parts of data that I want to present
6 were alluded to in the FDA review document. One
7 was a comparison we did using United Health Care
8 data, which is a large plan that had I think 14
9 different prescription plans under one umbrella.

10 What we were able to do through a
11 complicated process was to compare women who had
12 received a prescription for Accutane through that
13 plan, and look at those who enrolled in our survey
14 and those who didn't enroll.

15 [Slide.]

16 There were very few variables that we
17 could identify for comparison, but one of them was
18 age, and what we found was that the age among the
19 Accutane participants was somewhat younger by about
20 two years than it was in the population that didn't
21 enroll in the survey. This was actually compatible
22 with some anecdotal reports which we frankly didn't

1 believe from one of our colleagues at Roche at the
2 time.

3 This was back in the beginning of the
4 survey, in the '90s, who had said that in his
5 conversations with providers, he was finding a
6 number of them reporting to him that they tried to
7 have women participate in the survey if they felt
8 that woman was at increased risk, that they felt
9 that the survey would provide some additional
10 intervention or a component that would help
11 encourage compliance. It might do that indirectly,
12 but it certainly isn't the purpose of the survey.

13 [Slide.]

14 So, this was compatible in that one would
15 expect that women who are older would be at less
16 risk for pregnancy, and, indeed, when you stratify
17 these findings according to age, and now we are
18 looking at this time the participation rate in the
19 survey was estimated to be about 40 percent, what
20 we found was that that 40 percent rate was fairly
21 consistent across the three youngest age strata.
22 Where the participation rates were lowest were in

1 the oldest group of women, and, in fact, among the
2 women 50 to 59 years old, only 14 percent
3 participated, which would be compatible with the
4 either subselection or doctor's selection of women
5 at low risk saying don't both participating in the
6 survey, you are not at risk for pregnancy.

7 [Slide.]

8 The other data alluded to in the FDA
9 review, and that we have cited, and these are again
10 previously presented data, is a consumer survey
11 that was conducted by Roche identifying a number of
12 women who had been prescribed Accutane, and asking
13 them whether they enrolled in the survey or not,
14 and interestingly enough, the age difference was
15 again about two years, that the enrolled women
16 tended to be about two years younger than those who
17 didn't enroll in the survey.

18 Median education wasn't terribly
19 different, the source of their prescription wasn't
20 terribly different, indeed, the women in the
21 survey, 10 percent more than the women who weren't
22 in the survey reported being sexually active, and

1 not surprisingly, along with that, higher rates of
2 contraception use.

3 Now, one of the things cited in the FDA
4 report was that, well, gee whiz, if you look at
5 this population, use of the birth control pill was
6 reported by 40 percent of the women enrolled in the
7 Slone survey, but only 16 percent among the women
8 who did not enroll.

9 On the face of it, there is no question
10 there is a difference there. It is not accounted
11 for by condom use or other barrier methods, but it
12 is striking that the surgical sterilization rates
13 were compensatorily different among the enrolled
14 and unenrolled women, and if you add up the highly
15 effective contraceptive methods as a percent, what
16 you find is that they are virtually identical in
17 terms of highly effective contraception use among
18 the women in the survey and the women who chose not
19 to participate in the survey.

20 [Slide.]

21 But again, even within this analysis,
22 there is about three times as many women--two and a

1 half times as many women on the pill in the survey,
2 suggesting that again, if anything, the survey
3 population may be at higher risk for pregnancy
4 since surgical sterilization is a highly effective
5 and more effective method than the pill.

6 [Slide.]

7 Finally, bringing us to the most recent
8 data, we compared the survey data, as did FDA,
9 versus isotretinoin users according to age--and
10 this is in the one year before S.M.A.R.T., and we
11 used the FDA data presented for advanced PCS as
12 representing the base population, the target
13 population, and we have provided the survey age
14 distributions on the left.

15 I think most observers would say that this
16 is actually, until you get to the older age groups
17 for sure, pretty representative, and while there is
18 a decrease in the proportion of participants who
19 are 15 years of age or under, that decrease is
20 relatively small, where again we see a deficit of
21 participation that is fairly consistent is again in
22 the older women who are less at risk for pregnancy

1 by and large.

2 [Slide.]

3 And, indeed, when you compare the
4 pregnancies-- this is again in the year
5 pre-S.M.A.R.T.--reported by our survey, and the
6 total reported by FDA including the spontaneous
7 reports, we see striking similarities in the
8 distributions.

9 [Slide.]

10 So, in answer to the question is the
11 survey population a biased sample, to us, the
12 evidence does not suggest that the survey
13 population is biased towards women at low risk of
14 pregnancy.

15 Indeed, the indirect evidence, and I
16 stress it is indirect, suggests that, if anything,
17 the survey disproportionately includes women at
18 relatively high risk of pregnancy, and this pattern
19 has been observed consistently at various points in
20 the survey's history.

21 [Slide.]

22 That brings us back to this figure that we

1 showed in our presentation yesterday, where we
2 observed, again in the pre-S.M.A.R.T. era, 14 years
3 experience, a decrease in the pregnancy rate from
4 roughly 4-fold to a little bit over 1-fold, a
5 rather striking and consistent decrease over time.

6 [Slide.]

7 Well, if the survey has any value, we need
8 to consider what this means, and we think this
9 trend is unlikely to be explained by enrollment
10 biases, which would have to have changed over the
11 14-year period.

12 We have done all sorts of models as to how
13 one might account for this trend through biases,
14 and it is very difficult to come up with one.

15 [Slide.]

16 Rather, we think it may reflect continuing
17 improvements in the implementation of the risk
18 management program via its incorporation into
19 routine practice and I might add residency training
20 programs and the dermatology programs, so that our
21 summary view is that without respect to S.M.A.R.T.
22 specifically, we do think that the 14 years

1 experience preceding S.M.A.R.T. does reflect
2 incorporation of risk management elements to the
3 point where they have actually appeared to result
4 in a fairly substantial decrease in the pregnancy
5 rates.

6 I will be happy to take questions, and
7 thank you for your consideration.

8 DR. GROSS: Are there any questions? Yes.

9 DR. KIBBE: My question deals with the
10 characteristics of the individuals in the two
11 groups, those that undergo therapy and don't get
12 pregnant, and those that undergo therapy and end up
13 having either been pregnant when they start or end
14 up getting pregnant during the time frame.

15 I guess we could say that 99 percent of
16 the women who enroll in therapy are successful in
17 not having a pregnancy occur during that, and 1 or
18 2 percent do, but what characterizes the
19 differences between those two groups, because if we
20 want to improve what we do, we don't have to change
21 it for the 98 percent who go through the process
22 effectively, but if we could find some handle that

1 would help our clinicians identify individuals that
2 needed an additional activity or procedure, it
3 would help us a lot.

4 DR. MITCHELL: Actually, it is obviously a
5 relevant question. First of all, from these data
6 in the most recent years preceding S.M.A.R.T., the
7 pregnancy rate would be 99.9 percent, it's roughly
8 1 in 1,000. I don't mean to quibble, but it is
9 useful to keep that in mind.

10 What we would call the analysis you are
11 describing is a risk factor analysis. What one of
12 the public speakers called it was a failure mode
13 and effects analysis.

14 We are in the midst at the present time
15 frankly in doing a detailed analysis of exactly
16 that consideration. We have certainly identified
17 crudely that there are no gross characteristics
18 that appear to predict an increased risk of
19 pregnancy.

20 As one might expect, we have seen the
21 chosen method of birth control is directly related
22 to the risk of pregnancy. We have seen that the

1 typically effective methods are effective and the
2 typically ineffective methods are ineffective.

3 We have also seen and published in this
4 paper in 1995, our experience which indicates that
5 for any given mode of contraception, we provide
6 data to suggest considerably higher efficacy than
7 the generally published data on efficacy, and that
8 is because we think the motivation of this
9 population is unusually high.

10 What we are doing now is looking at all
11 the elements in the Pregnancy Prevention Program,
12 the pre-S.M.A.R.T. Pregnancy Prevention Program, to
13 see if we can identify any elements that do exactly
14 what you are describing, that characterize the
15 women who become pregnant and distinguish those
16 women from the women who did not become pregnant,
17 so that interventions could be targeted to that
18 population, and we are hoping to have that
19 completed--Dr. Trussel, James Trussel is going to
20 be joining us in that analysis as he has in the
21 past--and we hope to have completed in the next few
22 months.

1 DR. KIBBE: A second question has to do
2 with my interest in the international experiences,
3 if you will, with this medication. Roche has said
4 that they have never had a country ask them to take
5 it off the market, but I can't imagine that there
6 aren't countries that are interested in eliminating
7 the risks.

8 Do you have any access to any data that
9 would help us understand how their interventions
10 differ from ours and how their risk ratios might
11 differ from ours, and how that might impact our
12 decisionmaking?

13 DR. MITCHELL: The short answer is no, we
14 don't have any data and we have certainly tried to
15 find such data. One of the concerns that we have is
16 that the way drugs are managed philosophically in
17 some other countries, and particularly one
18 scandinavian country with which I am aware, is very
19 different culturally from the U.S.

20 In one country, the attitude was that we
21 do what we do and after that it is not our concern,
22 and they don't track the outcomes of exposures, not

1 pregnancy exposures, but even pregnancy rates.

2 I think the U.S. is frankly, uniquely
3 providing information that has a denominator.
4 Other countries have not, to our knowledge, taken
5 this concern nearly as seriously as it has been
6 taken in the U.S., and the result is that there is
7 very little data.

8 DR. GROSS: Thank you, Dr. Kibbe, for your
9 questions.

10 The next question comes from Dr. Honein.

11 DR. HONEIN: Yes. Dr. Mitchell, you
12 mentioned 38 to 45 percent survey enrollment based
13 on the United Health Care survey for 1990 to 1996.
14 Yesterday, the FDA presented data suggesting a 19
15 percent survey enrollment for the year prior to
16 S.M.A.R.T.

17 Was there that much decline in enrollment
18 in the survey over that time period, or is this a
19 different methodology for calculating the estimated
20 survey participation?

21 DR. MITCHELL: The methodologies by which
22 you calculate participation requires that you know

1 what the denominator is, and the denominator is the
2 number of unique women taking the drug.

3 The difficulty in establishing that
4 denominator, the difficulties are considerable, and
5 we have had a lot of debates over the years about
6 what is an appropriate denominator.

7 I mean if you simply divide the total
8 number of female scripts by 3.7, as the FDA used
9 the figure from one experience in the Seattle area,
10 you come up with one estimate of a denominator. If
11 you divide that by 4 prescriptions or 2
12 prescriptions, you get very different denominators.
13 The Kaiser data I think were closer to what we use.

14 But the fact is that we do suspect, based
15 on indirect evidence, that participation rates
16 declined over time, and it was really because of
17 our concern that we focused a lot of attention on
18 does the decline also reflect some differences in
19 the way women are enrolling.

20 What we think, although we can't prove, is
21 that the \$10 incentive, which we identified at the
22 outset of the survey back in '89 as an incentive to

1 get women to participate in the survey through the
2 medication package which we came up with the idea
3 of putting the enrollment form in the medication
4 package to bypass the physicians who may not want
5 women to participate or may not encourage them.

6 So, we said, you know, make it like a
7 toaster rebate coupon and encourage women who might
8 be noncompliant to participate. But that was a \$10
9 incentive back in 1989, and one of the reasons for
10 increasing the incentive in the most recent efforts
11 was to adjust, if you will, for inflation that \$10
12 incentive. So, we do think that there has been a
13 decline.

14 DR. GROSS: The next question is from Dr.
15 Wilkerson.

16 DR. WILKERSON: Considering best practices
17 once again, considering the women that we have, the
18 ages, the methods of birth control that they have
19 employed and reasonable rates of success of those
20 programs, what would be your calculated rate of
21 pregnancies per 1,000 cases if everybody did
22 exactly what they were supposed to do and they used

1 the methods which are they using, what would this
2 rate actually look like? Instead of being 1 per
3 1,000 courses of therapy, how much would it go down
4 to?

5 DR. MITCHELL: Can I turn your question a
6 little bit?

7 DR. WILKERSON: It depends.

8 DR. MITCHELL: I can't give you the
9 answer. Okay, I can't give you the answer, but I
10 want to understand the question, so we could give
11 you the answer.

12 DR. WILKERSON: In other words, if you
13 take the current women and their methods of birth
14 control that they are currently using, use
15 optimally as real, everyday life people use them,
16 what would be the predicted rate of pregnancy per
17 1,000 courses or however you want to express this.
18 We know that methods fail, we know that.

19 That zero is not obtainable in this
20 process short of females not taking this drug right
21 now, but I mean best practices in normal settings,
22 what would be the predicted rate of pregnancy in

1 this setting.

2 DR. MITCHELL: I think I can parse that
3 question, to use an old term. One question is in
4 efficacy in the normal use of the method, and, in
5 fact, what our data suggests is that efficacy is
6 better than normal data would suggest. We can
7 spend a lot of time on defining on how best
8 efficacy was defined some years ago.

9 In the population we have observed, what
10 we see is roughly 1, 1.2 per 1,000. If all women
11 were on the pill, I could actually get you some of
12 those estimates, it's in the paper, but I think the
13 real question is what is the efficacy if women are
14 on two methods of contraception, which is what is
15 specified in the risk management program.

16 The difficulty in assessing that is trying
17 to find out whether women who report two methods
18 were reporting two simultaneous methods. Those
19 kinds of questions become extremely, not only
20 invasive, but they become extremely difficult to
21 ask, because you essentially have to understand if
22 a woman is on the pill, did she take a pill every

1 day, if she was using the pill and the condom, did
2 she use the condom with every act of sexual
3 intercourse with the male partner.

4 One of the concerns is that women may be
5 interpreting the two methods, may be using two
6 methods, but forgetting the simultaneous. It is
7 conceivable, this is sort of the law of unintended
8 consequences that Dr. Trontell mentioned yesterday.
9 A concern we have, although we don't have data to
10 support it, is there going to be a fraction of
11 women who say, okay, I have got to use two methods,
12 I will use the pill a couple days a month and I
13 will use the condom when I think of it.

14 I don't mean to dodge your question. We
15 can give you contraceptive efficacy rates for any
16 single method that was reported, and it's in the
17 paper, in the New England Journal paper from '95,
18 but we can't answer the question any more directly
19 than that.

20 DR. GROSS: Dr. Kweder, do you want to
21 comment on that?

22 DR. KWEDER: Yes, basically, it is similar

1 to what Allen had to say. We have some slides that
2 display contraceptive method effectiveness rates as
3 generally understood, but there really are not data
4 that help us with the two methods simultaneously
5 used, and Allen's point is exactly what we have
6 struggled with, as well, does it mean, you know,
7 how many women actually interpret use of two
8 methods as simultaneous all the time. That, we
9 don't know.

10 DR. GROSS: The next question is from
11 Sarah Sellers.

12 DR. SELLERS: I am wondering if you have a
13 regional distribution of the study participants.

14 DR. MITCHELL: We do, and it is compatible
15 with the sales. I could get the slide out, I would
16 be happy to provide you. It will take me a couple
17 minutes to find it, but it is similar.

18 DR. SELLERS: Just one more follow-up, and
19 we may have addressed this yesterday, but has the
20 survey been validated at all with any medical
21 records or exam data?

22 DR. MITCHELL: Specifically, how would

1 you--

2 DR. SELLERS: To confirm in particular any
3 way to validate voluntary reporting on pregnancies.
4 Primarily, that would be the only thing that we
5 could look at.

6 DR. MITCHELL: I think the concern is
7 false negatives, in other words, women who fail to
8 report pregnancies, and we have not done that.
9 That raises some privacy issues that are a little
10 tricky to get around.

11 Pregnancies that are reported are followed
12 up, and any pregnancy that is identified with any
13 suggestions of malformations, the records are
14 obtained if the woman will allow us to.

15 DR. TRONTELL: I would like to try and
16 address Dr. Sellers' question. I just wanted to
17 point one challenge in assessing pregnancy. Many
18 health plans do not cover termination of pregnancy,
19 so individuals who self-diagnose pregnancy and
20 elect to terminate outside their usual medical care
21 system will never be captured or ascertained.

22 DR. MITCHELL: Which is one of the reasons

1 that we rely on voluntary reporting from
2 participants.

3 DR. GROSS: Thank you, Dr. Trontell.
4 Dr. Strom.

5 DR. STROM: I wanted to follow up on Dr.
6 Kibbe's question with a comment and then a question
7 to the company in follow-up. You were asking about
8 the international experience in particular.

9 Anecdotally, my colleagues in other
10 countries tell me that Accutane is seen as a
11 uniquely American problem, but that is not because
12 we are the only ones looking, but because we are
13 the only ones using it so widely, that other
14 countries don't use it anywhere nearly as widely as
15 we use it, so use is much less.

16 What I wonder about from the company is
17 whether you could give us sales data by population
18 for some selected countries, so, for example, to
19 try to nail down whether that anecdotal experience
20 is correct, in other words, what is the rate of use
21 in the U.S. population, how does that compare to
22 perhaps the English population or the Swedish

1 population or otherwise.

2 DR. HUBER: We do not have the data on
3 sales broken down by country here. That would take
4 us a little time to compile and we don't keep those
5 here in the U.S., so it would take us some time.

6 DR. STROM: But I think that is why you
7 are not seeing the sensitivity from other
8 countries.

9 DR. KIBBE: I think there is an underlying
10 social issue, too, and that general acceptability
11 of birth control methods in Sweden and some other
12 countries in Europe are going to be quite a bit
13 different than the United States. I am trying to
14 figure out what factors are out of the direct
15 control of the system that we have are impacting
16 it, that's all.

17 DR. GROSS: Thank you, Dr. Kibbe.

18 Dr. Whitmore has the last question.

19 DR. WHITMORE: Can you clarify, you had a
20 graph up there talking about the number of
21 pregnancies during Accutane and then for the
22 subsequent months after therapy, and I thought it

1 was 10 per 1,000 person years, is that correct?

2 DR. MITCHELL: It was about 9 during
3 therapy, 9 per 1,000 during the course of therapy
4 at that time.

5 DR. WHITMORE: So, just to clarify, that
6 would be 1 in 100 essentially as opposed to 1 in
7 1,000.

8 DR. MITCHELL: Well, yes, but I am sorry,
9 I accept your correction. I am confusing
10 different--our usual rate estimators per course,
11 per 1,000 courses, correct.

12 DR. WHITMORE: And that was person years,
13 and therapy can range anywhere from 24 to 48 weeks
14 depending how dosing is done essentially. I think
15 that is a point that need to be re-emphasized as
16 opposed to if birth control pills and a second form
17 of contraception were used effectively, maybe more
18 like 1 in 1,000 rate of pregnancy. I mean those
19 numbers are not correct, but I think just to give
20 us a ballpark idea.

21 One more question about your survey.
22 There is incentive to fill out the survey. For

1 teenagers, their parents probably make them fill it
2 out. For adults, there is a monetary reward for
3 doing it, and also there are probably some adults
4 who think oh, if I don't fill this out, something
5 bad is going to happen, or think that it is part of
6 all the program or something they need to do
7 particularly with all the PR about Accutane and
8 everything else.

9 So, I would say that a lot of people would
10 probably fill out the survey, fill it out because
11 of incentive reasons of some sort, and then I would
12 ask you, these women are signing a form that says I
13 will be abstinent or I will use two forms of
14 contraception throughout therapy.

15 What makes you think that a non-anonymous
16 survey is going to capture any information about
17 people actually not doing these things, they have
18 signed on a document saying they are going to do?

19 Also, reports about abortions, what makes
20 you think that these women who have signed this
21 document, if they do get an abortion, if they are
22 not going to tell their doctor, what makes you

1 think they are going to report it to you?

2 DR. MITCHELL: Probably the fact that we
3 are dealing with human beings would be a large part
4 of that answer. We were similarly skeptical going
5 in, and remain somewhat skeptical, but less so.

6 What is very interesting is how often we
7 find women telling us things they have not told
8 their doctor. In fact, we did--and, Dr. Katz, you
9 had asked the question yesterday and I couldn't
10 remember what it was when we bumped into each
11 other, but it comes to mind now--and that question
12 is really how accurately do the data reflect what
13 the physician is doing.

14 We identified back in I think it was the
15 early '90s, a group of women who reported to us
16 that they had not had pregnancy testing prior to
17 the prescription of Accutane. From their enrollment
18 forms, we were able to identify the physicians who
19 were in that loop.

20 We called those physicians' offices to ask
21 sort of an anonymous survey question about we are
22 just calling from Boston University, we are

1 querying physicians about their practices with
2 respect to Accutane, and typically, very often the
3 person responding would be an office manager or the
4 office nurse rather than the physician.

5 We asked whether they routinely did, in
6 fact, do pregnancy testing as one of a number of
7 questions, and a surprising number--not a
8 surprising number--a large number of physicians
9 indicated that they routinely do pregnancy--I mean
10 the office nurse said oh, we always do pregnancy
11 testing, but a number of offices said to us we
12 don't.

13 Now, would you expect a physician's office
14 to tell a survey that they don't do pregnancy
15 testing? The converse is also the case, that when
16 we identify a woman who reports that she is
17 sexually active and does not use contraception, we
18 consider that woman at such great risk for
19 pregnancy that the design of the survey calls for
20 us to call that woman.

21 We call it reading the riot act. We call
22 that woman and say to her that the behaviors you

1 reported to us put you at high risk for pregnancy,
2 and we urge you to immediately call your physician,
3 stop taking the drug. Incidentally, would you also
4 be willing to allow us to talk to your doctor.

5 When the woman gives us permission to call
6 her doctor, you would assume that the doctor would
7 give you some response that would be compatible
8 with what the woman is reporting, and, in fact, I
9 can't give you the quantitative response, but there
10 were a disturbing number of times where the
11 physician would get on the phone with us, once the
12 woman gave us permission, and would go to the
13 medical record and read us from the medical record
14 that the woman said she was actively--so here was a
15 woman inviting us to find out, and what she was
16 doing was telling the survey--this is a long answer
17 to your question, but I think it deserves that--she
18 was telling us something that she wouldn't tell the
19 doctor.

20 So, the survey is actually in a position
21 to find out things that a woman wouldn't tell the
22 doctor.

1 DR. WHITMORE: I had no idea that you
2 called patients. I think that is absolutely
3 fantastic.

4 DR. GROSS: Dr. Mitchell, thank you very
5 much for your presentation.

6 DR. MITCHELL: Thank you.

7 DR. GROSS: Dr. Katz.

8 DR. KATZ: I want to clarify. You call
9 the doctor's office, and you said some said they
10 didn't do any pregnancy testing, but you talked to
11 the office manager and most doctors' offices--I
12 happen to draw blood in the office, but most don't
13 draw blood in the office--so, the office manager
14 says no, we don't do pregnancy testing. They send
15 them to the laboratory, but they don't do it.

16 DR. MITCHELL: First of all, let me
17 explain this was a very biased sample. This was a
18 sample of women, a small sample of women who had
19 told us they had not gone through a compliant
20 process, so we are already dealing with a subset
21 that is hopefully small.

22 When we called--Dr. Katz, I can't remember

1 the specific questions, but we can get them for
2 you--we asked a series of questions of someone who
3 would be familiar with the offices practices, it
4 often was the nurse, but it represents only a very
5 small fraction, and we did incidentally try to
6 reach those doctors subsequently and get them
7 informed of what the appropriate practices were. I
8 don't mean to suggest that was a widespread
9 phenomena.

10 DR. GROSS: Thank you again, Dr. Mitchell.

11 We will now move on to Dr. Trontell, who
12 had some information to present to us that will be
13 helpful in our consideration of the questions.

14 DR. TRONTELL: There were some questions
15 yesterday about the specifics of the clozapine
16 program and also of the S.T.E.P.S. program. I am
17 thankful to the representative from Celgene who
18 came and provided information, which I will repeat,
19 and I will also invite that individual to come to
20 the microphone to supplement it.

21 But relative to the registration of
22 patients in the S.T.E.P.S. program, patients are

1 registered by their Social Security number. In the
2 event that that number is not unique, a second
3 unique number is assigned to those individuals.
4 So, the provision of patient anonymity in
5 S.T.E.P.S. it isn't truthfully there. If you have
6 their Social Security number, that can be readily
7 linked to an individual's name.

8 The other question that was asked was
9 about clozapine and the mechanism that led to its
10 institution. In fact, information provided to me
11 by one of the members of the Division of
12 Neuropharmacologic Drug Products told me, in fact,
13 that some of the experience that I cited with
14 agranulocytosis related to post-marketing
15 experience abroad where the product was marketed
16 with recommended monitoring for white counts and
17 prevention for agranulocytosis.

18 That rate was on the order of 1 to 2
19 percent, and that had been described in the era of
20 the clozapine national registry in practice with
21 mandatory monitoring of white count to be less than
22 1 percent, specifically 0.38 percent.

1 If there are additional questions, I would
2 invite the individuals who know each of those
3 registries to come to the microphone to address
4 them.

5 DR. GROSS: Hearing none, we will move on
6 now to Dr. Paul Seligman, Director of the Office of
7 Pharmacoepidemiology and Statistical Science at the
8 FDA, who will introduce the questions to us.

9 Introduction of Questions

10 DR. SELIGMAN: Good morning. I have been
11 asked to present the issues and questions for
12 consideration by the committee this morning and
13 this afternoon.

14 Please note that these questions are part
15 of the agenda that was distributed for the meeting
16 and can be found after the agenda.

17 Before I begin, I just want to take a
18 brief moment on behalf of myself and my colleagues
19 at the FDA to also thank the members of the public
20 this morning who were here to share their testimony
21 and their personal experiences.

22 The issues and questions fall into the

1 following sort of broad categories. We are asking
2 the committee today to evaluate the performance of
3 the current program and the data that have been
4 presented both yesterday and today, to consider
5 options for improvement of this current risk
6 management program, to consider how best to monitor
7 any recommended changes, and to consider benchmarks
8 for success as noted yesterday morning.

9 I think it was the first question out of
10 the gate by Dr. Bigby, as well as others this
11 morning, who have focused on how best to determine
12 whether subsequent changes or any program that
13 comes out of these deliberations should be
14 determined to be successful.

15 [Slide.]

16 The first issue that we ask the committee
17 to consider this morning is that based on the
18 reports and patient surveys, there does not appear
19 to be a meaningful decrease in the number of
20 pregnancies reported in women taking a course of
21 isotretinoin since implementation of the current
22 risk management program.

1 We would ask you then to discuss the
2 measurement and implementation factors that may
3 have contributed to these findings.

4 [Slide.]

5 The second issue is based on prescription
6 audits and patient surveys, use of the
7 qualification sticker is high. Patient surveys
8 suggest an inconsistent link between monthly
9 pregnancy testing and use of the stickers.
10 Reported pregnancies and patient surveys indicate
11 incomplete or inadequate birth control measures
12 among females.

13 Again, we ask you to please comment on
14 measurement and implementation aspects of the
15 current program that may have contributed to these
16 findings.

17 [Slide.]

18 Question 3. FDA's goals for the
19 Isotretinoin Pregnancy Prevention Risk Management
20 Program are that: no woman who is already pregnant
21 be prescribed and dispensed isotretinoin, and that
22 no pregnancies should occur while on this therapy,

1 and that effective pregnancy prevention occur
2 throughout the course of treatment.

3 [Slide.]

4 In recommending any changes to the risk
5 management program, we ask the committee to
6 consider the potential tools and strategies in
7 light of the likelihood of effectiveness in further
8 reducing fetal exposure, the practical impact on
9 health care providers who prescribe and dispense
10 the product, and the impact on patients who must
11 navigate any such program.

12 [Slide.]

13 Given these factors, we are asking the
14 committee to consider the following options:

15 (a) Continue the current risk management
16 program without additional tools, and if this is
17 the recommendation, if so, what approaches do you
18 recommend to improve adherence with the program by
19 patients, physicians, pharmacists and others, such
20 as health educators?

21 [Slide.]

22 (b) Or to consider modification of the

1 current program with additional risk management
2 tools to reduce fetal exposure.

3 We list a number of them here, such as
4 programs to enhance education and interaction with
5 patients to identify and minimize high risk
6 behaviors; to tighten the linkage of prescriptions
7 dispensed by pharmacists with required check of
8 pregnancy test results; the registration of
9 patients, pharmacists, physicians and/or others
10 such as health educators; limiting the access or
11 distribution of the drug, or other tools. In
12 recommending the other tools, we would ask you to
13 describe them.

14 I should note that in the course of our
15 discussions and deliberations, other tools have
16 also been mentioned, but not listed here.

17 [Slide.]

18 Question 4. In order to adequately
19 monitor the risk management program, we ask the
20 following:

21 (a) Would it improve monitoring of risk
22 management program performance to register

1 patients, pharmacists, physicians, and other
2 relevant participants?

3 (b) If participants in such a risk
4 management program are registered, how can this be
5 more effectively done in a multi-source
6 environment, so that individuals are not registered
7 multiple times or double-counted?

8 [Slide.]

9 Finally, we are asking the committee to
10 identify critical benchmarks for determining the
11 success or failure of the pregnancy risk
12 management program, and suggest, for example, such
13 as reducing to zero the number of women who are
14 pregnant at the initiation of isotretinoin
15 treatment, and others.

16 I am happy to answer any questions about
17 these issues and provide any clarification as need
18 be.

19 DR. GROSS: Thank you, Dr. Seligman.

20 Committee Discussion

21 As Chair, I am going to make a suggestion
22 that we consider Question 3 last because that is

1 the recommendation of the committees on what the
2 program should be in the future.

3 Question 4, I suggest be considered before
4 3 because it talks about whether or not registers
5 would be helpful, and that may be part of the
6 ultimate plan that we come up with in Question 3,
7 and assessing success and failure is something that
8 we can also consider beforehand.

9 Is that okay with the committee if we do
10 it in that order, Question 1, 2, 4, 5, then 3?
11 Does anybody have any objections to that? Okay.

12 Why don't we begin with Question No. 1.
13 Based on the reports and patient surveys, there
14 does not appear to be a meaningful decrease in the
15 number of pregnancies reported in women taking a
16 course of isotretinoin since implementation of the
17 current risk management program.

18 Data has been presented on that. Please
19 discuss measurement and implementation factors that
20 may have contributed to these findings. If I may
21 be so bold as to say that insufficient data has
22 been presented to answer that part of the question,

1 but let's hear what committee members think on
2 those issues.

3 Dr. Gardner.

4 DR. GARDNER: As a non-clinician, it would
5 help me greatly to understand what happens in the
6 clinician's office in terms of the implementation
7 of these processes both from the standpoint of
8 physician and patient burden, and also the
9 logistics we heard yesterday, a scenario of trying
10 to get a pregnancy test, is it the result or a new
11 request, and so on.

12 Could the clinicians comment on how these
13 processes are implemented in practice for example?

14 DR. GROSS: Any dermatologist want to--Dr.
15 Katz.

16 DR. KATZ: We will walk you through it
17 from the beginning. First of all, the patient has
18 been seen multiple times previously, on every other
19 treatment we know, different antibiotics starting
20 with the least risk of inducing and most used for
21 decades, and then antibiotics with a high risk
22 profile.

1 Then, the patient is evaluated, and if it
2 is a minor, the parent is in the office initially,
3 a complete discussion of all side effects are done,
4 and then the female patient, one can't portray in
5 this meeting the doctor-patient contact and the
6 validity of patient response, reliability of
7 patient, we can't project that here, but the
8 physician assesses that, as well.

9 Then, you give the patient a choice of
10 having a parent leave the room, so you can discuss
11 the contraception end. We ask them if they are
12 using contraceptives, and it is burdensome going
13 through this entire thing, then, of all the side
14 effects involved.

15 All risks are mentioned and if it is
16 decided to go ahead with the Accutane, in female
17 patients, baseline bloodwork is done, CBC, hepatic
18 profile, lipids, and HCG pregnancy test, and they
19 are told to come back at the time of the next
20 period for another pregnancy test, or they can get
21 that done, since they are not coming, that might be
22 in 10 days, they wouldn't have to come back to the

1 office, they can go to the lab and get the
2 laboratory test. They will often fax it, and then
3 they can come by and get a prescription with the
4 yellow stickers.

5 They are told to come back in two weeks
6 and then every four weeks through the course of
7 treatment. Bloodwork is obtained each time, and
8 then they are given a prescription again. They are
9 reminded each time about the necessity of two means
10 of pregnancy.

11 They are asked about the side effects, how
12 they are feeling as far as generally, and once
13 again you can't project everything. You are
14 looking at their face to see how they are doing.
15 With all this said and done, you remind the patient
16 each time about the necessity of two means of
17 contraception.

18 A lot of times people say yes, it happened
19 to me, to bear on this question further, how can
20 these adverse effects be reduced, it can't be to
21 zero because a patient says that she is not
22 sexually active, and each time she remarks a little

1 bit, she said I told you that last time, and each
2 time I remind her, she reminds me that, doctor, I
3 told you I am not sexually active, and then two
4 weeks later she calls me and says she missed her
5 period. This happens. So, how do you eliminate
6 that?

7 Now, it so happens, then, we got a
8 pregnancy test, she wasn't pregnant, she had just
9 missed a period. But she was concerned because
10 obviously, she wasn't sexually inactive. So, these
11 are the problems that face us, and that is why this
12 is going to happen anyway.

13 Does that answer your question?

14 DR. GARDNER: Thank you.

15 DR. GROSS: Dr. Crawford has a question.

16 DR. CRAWFORD: A follow-up either to Dr.
17 Katz or any other member of the committee. Other
18 than actual pregnancy testing, what would be
19 different with the male patient prescribed
20 isotretinoin?

21 DR. KATZ: No, except that contraception
22 isn't discussed, which might bring up some points

1 that came up with the male patients, but, no, that
2 is not discussed.

3 DR. GROSS: That is an issue we will need
4 to consider later on, whether male contraception
5 should be recommended.

6 At this point, I would like to encourage
7 the committees to specifically stick to the
8 question.

9 The first part of the Question 1, does
10 anybody disagree with the statement, the statement
11 being there does not appear to be a meaningful
12 decrease in the number of pregnancies? Does
13 anybody disagree with that? Yes.

14 DR. BERGFELD: I would like to speak to
15 that. This was a new program, the S.M.A.R.T.
16 program for the dermatologists, and when they were
17 asked to participate, the American Academy of
18 Dermatology put in place very intensive teaching
19 courses at all of their meetings to inform the
20 dermatologists of their behaviors.

21 We were also visited by the company in our
22 offices in which the S.M.A.R.T. programs were

1 introduced to us. We then had didactic sessions to
2 go through what our responsibilities were to be in
3 this program, and we were requested, and it was
4 inferred, that unless we signed up, we would not be
5 prescribing this drug and that we would be out of
6 order to prescribe this drug.

7 So, in my practice at the Cleveland
8 Clinic, we did abide by what we felt was the best
9 thing for our patients, we became informed, we
10 abided by the sticker qualifications, and we did
11 somewhat what you did, Dr. Katz. We used the forms
12 that are given to us to go over with the patients.

13 But what I would like to say about this is
14 that what happened was that the compliance of the
15 dermatologists went up with informed consent and
16 education of the patient.

17 I think that is reflected by the fact that
18 you have decreased numbers of prescriptions being
19 written overall, but a constant number of
20 pregnancies, and I think there has just been an
21 increased reporting that has gone on because of the
22 educational program.

1 I think when you open or begin a new
2 program, this is what you would expect, and I would
3 think that what we here do today would be to
4 enhance this program to make it more efficient and
5 improve it, so the reporting continues and the
6 education continues, with the ultimate objective to
7 reduce the pregnancies to zero if possible.

8 DR. GROSS: Okay. I am still trying to
9 answer Question No. 1. Let me take the prerogative
10 of the Chair and say there does not appear to be a
11 meaningful decrease in the number of pregnancies.

12 Would anybody disagree with that? Dr.
13 Whitmore.

14 DR. WHITMORE: The one thing that you
15 asked was are there contributing factors.

16 DR. GROSS: That is the second part of the
17 question. Let's do the first part first.

18 Otherwise, we are never going to get through the
19 day.

20 Does anybody disagree? Dr. Ringel.

21 DR. RINGEL: I think the real honest
22 answer is that we really don't know. We don't know

1 if Dr. Bergfeld's comment about the number being
2 artificially high because of increased reporting is
3 true.

4 On the other hand, if that number really
5 reflects the actual rate, that is problematic
6 because the rate should have decreased, in fact,
7 because there were decreased numbers of
8 prescriptions written.

9 I think the only thing that this shows is
10 we don't have the answer to that, and we really
11 need a registry.

12 DR. GROSS: So, we have one dissenter.
13 Does anybody else dissent on the statement there
14 does not appear to be a meaningful decrease in the
15 number of pregnancies? Dr. Bigby.

16 DR. BIGBY: The suggestion has been raised
17 should we consider as an objective, the rate or the
18 absolute number, so if, in fact, you could show,
19 and you could probably do this, that the rate had
20 actually decreased and the absolute numbers in the
21 hundreds, is that a success. That is the point I
22 think we should think about, so maybe rate isn't

1 what we should be looking at.

2 DR. GROSS: Could I see a show of hands on
3 the question there does not appear to be a
4 meaningful decrease in the number of pregnancies?
5 We are never going to get through the program. We
6 are going to be stuck on Question 1 until 5:00 p.m.
7 To me, the answer seems obvious. Yes.

8 DR. SCHMIDT: Yesterday, on page 70 in
9 this Pregnancy Rate and Accutane Survey, this, I
10 thought was meaningful that it decreased, that
11 there was almost like a 2- to 4-fold decrease in
12 some of the slides that were shown in the decrease
13 in pregnancy rate.

14 I want to add one other thing to back up
15 Wilma. You know, people are very, very anal about
16 doing these different things in the offices.

17 At least in Houston, I mean we really bend
18 over backwards to do everything and cross out t's
19 and dot our i's on these, and from a clinical
20 experience, I took a straw vote at one of our major
21 meetings, our Thursday morning conference, and
22 since this S.M.A.R.T. program started, I could only

1 identify in this group one pregnancy that had
2 occurred at least in our group, which probably
3 includes a lot of people doing a lot of Accutane.

4 DR. STROM: To bring it to resolution, I
5 think the problem is an issue of terminology and
6 people are confusing numbers and rates. The
7 question is there does not appear to be a
8 meaningful decrease in the number of pregnancies
9 reported. I think it is very clear that is the
10 case. That is based on spontaneous reports, the
11 numbers are roughly even.

12 All of the issues everybody is raising are
13 correct in terms of issues of reporting that maybe
14 that the rates have gone down despite the fact that
15 the numbers haven't, and I think those are the two
16 things that people have confused.

17 But the question says not a meaningful
18 decrease in the numbers, and those numbers are
19 based on spontaneous reports, that is clearly the
20 case. The numbers are roughly the same.

21 MR. LEVIN: I just want to add to Brian's
22 comment that I think what people are responding to

1 is the second part. I mean the issue of whether we
2 are seeing better reporting, more accurate
3 reporting or actually that things are remaining the
4 same is a question of measurement, and that is in
5 the second part of the question.

6 DR. GROSS: So, a show of hands on the
7 first part of the question.

8 DR. DAY: Excuse me. Could I ask a
9 clarification? I know these questions have been set
10 for some time, but is there a way for us to ever
11 modify it, so that we could have a second part that
12 we could vote that the number has not decreased,
13 but that we do not have sufficient evidence about
14 the rate or the rate has or has not? Can we
15 address number and rate in this question?
16 Otherwise, some of us will be uncomfortable in
17 voting quickly one way or another to get it off our
18 agenda.

19 DR. GROSS: Sure, there is no reason. I
20 think we should answer the question, then, if you
21 want to put another statement, there is no reason
22 we can't do that.

1 DR. TRONTELL: May I offer some
2 clarification from the Agency? We do our best to
3 express the questions clearly, but our intent in
4 this question was, in fact, to engage the committee
5 in some discussion on the issue of ascertainment of
6 pregnancy, some of which have already been raised
7 in some of the remarks around the table.

8 We would appreciate some discussion or
9 closure around it, not so much an issue of debating
10 whether or not the numbers have changed. We can
11 make our assessment of that, but the issue of
12 ascertainment, as well as implementation are what
13 we would like the committee to address.

14 DR. GROSS: So, ascertainment really
15 relates to the second part of the question.

16 A show of hands on the number of
17 pregnancies. Do all people think the number of
18 pregnancies appear not to have decreased
19 meaningfully? A show of hands that they agree that
20 is the case.

21 [Show of hands.]

22 DR. GROSS: Those who disagree?

1 DR. KIBBE: Abstentions? I think the data
2 is inconclusive and I will not vote one way or the
3 other when the date is unreliable.

4 DR. GROSS: Fine. So, the majority agree
5 and there is one abstention.

6 DR. KWEDER: Dr. Gross, if there is a
7 vote, we would appreciate it if you could record it
8 for the record in the instances when you do vote.
9 Thank you.

10 DR. GROSS: For the record, the group
11 agrees there does not appear to be a meaningful
12 decrease.

13 Do you want to go around the room, is that
14 what you mean by record?

15 MS. TOPPER: For the record, we are
16 required to go around the room individually and
17 have each person record their vote. If you will
18 say your name and you agree or disagree, we will
19 need to have that. Thank you.

20 DR. GROSS: Art, do you want to start?

21 MR. LEVIN: Arthur Levin. I agree.

22 DR. SAWADA: Kathy Sawada. I agree.

1 DR. VENITZ: Jurgen Venitz. I agree.

2 DR. STROM: Brian Strom. I agree.

3 DR. BERGFELD: Wilma Bergfeld. I agree
4 with the number, but I do not agree with the rate.
5 I believe the rate has gone down.

6 DR. GROSS: You believe the rate has gone
7 up?

8 DR. BERGFELD: Down.

9 DR. RAIMER: Sharon Raimer. I am going to
10 abstain. I don't think we have good enough data.

11 DR. GROSS: So, that is an abstention?

12 DR. RAIMER: Abstention.

13 MS. KNUDSON: Paula Knudson. I agree.

14 DR. BIGBY: Michael Bigby. I agree with
15 the statement that there hasn't been a meaningful
16 decrease in the number of pregnancies reported. I
17 do think that there is information that the actual
18 rate has decreased.

19 DR. HONEIN: Peggy Honein. I agree.

20 DR. COHEN: Michael Cohen. I agree.

21 DR. WHITMORE: Beth Whitmore. I agree
22 there has not been a meaningful decrease.

1 MS. SHAPIRO: Robyn Shapiro. I agree and
2 also observe that by asking for numbers as opposed
3 to rates, there seems to be an implied goal about
4 what we should be looking for, whether intended or
5 not.

6 DR. EPPS: Roselyn Epps. I agree.

7 DR. SCHMIDT: Jimmy Schmidt. I agree.

8 DR. CRAWFORD: Stephanie Crawford. I
9 agree there has not been a meaningful decrease in
10 the absolute number.

11 DR. GROSS: Peter Gross. I agree.

12 DR. WILKERSON: Michael Wilkerson. I
13 agree with the question.

14 DR. RINGEL: Eileen Ringel. I agree also.

15 DR. VEGA: Amarilys Vega. I think that we
16 don't have sufficient data.

17 DR. GROSS: So, that is an abstention?

18 DR. VEGA: Yes, sir.

19 DR. DAY: Ruth Day. I agree with the
20 decrease in number reported and make no claims
21 about anything else, numbers that may have
22 occurred, as well as changes in rate.

1 DR. KIBBE: Arthur Kibbe. I abstain on
2 the basis that the data is not conclusive, nor is
3 this an appropriate question.

4 DR. GARDNER: Jackie Gardner. I agree.

5 DR. KATZ: Robert Katz. I agree.

6 DR. SELLERS: Sarah Sellers. I agree.

7 DR. GROSS: Thank you all.

8 Now, for the more difficult part--that was
9 easy, believe it or not--please discuss measurement
10 and implementation factors. This is really where
11 the expertise of the committee could be enormously
12 helpful.

13 Any suggestions, comments?

14 Robyn Shapiro.

15 MS. SHAPIRO: I agree with your earlier
16 comment that there is insufficient data to weigh in
17 on that.

18 DR. GROSS: Anyone else? Art.

19 MR. LEVIN: I guess I am just confused by
20 what the rate, when talking about rates, where we
21 are. If I look at P70 of the Roche presentation,
22 which is sourced at Slone and tracks the number of

1 pregnancies per 1,000 Accutane treatment courses
2 and the number of pregnancies per 1,000 patients
3 per year, there does seem to be a decrease, but
4 where we get down to is around the number 3, and we
5 have just heard from 4 to 3. Over the period of
6 1989 to the year 2002, and if we sort of track
7 into, you know, sort of approximate on this graph
8 where the first prevention program came into effect
9 and then where S.M.A.R.T. came into effect, which
10 is probably not on this graph actually. You know,
11 we see recent history.

12 But we just heard of a rate of 1, I think,
13 in the presentation from Slone. So, I am just
14 personally somewhat confused as to the different
15 presentations of what the rate issue is, whether it
16 is in the course of treatment or per patient year
17 what we are discussing here.

18 DR. GROSS: Sarah.

19 DR. SELLERS: I would just like to remind
20 everyone that we are talking about a reporting
21 rate, we are not talking about an incidence rate,
22 and the primary objective of the risk management

1 program is to decrease the number of pregnancies,
2 not to decrease the reporting rate.

3 These are reported pregnancies and the
4 number of reported cases are small in comparison to
5 what we believe are the overall number of
6 pregnancies that may be occurring and exposures
7 during pregnancy.

8 So, a meaningful decrease in a reporting
9 rate, in my opinion, has very little validity in
10 the discussion of decreasing pregnancy exposures.

11 DR. GROSS: Thank you.

12 So far we have been talking about
13 measurement on this question. How about
14 implementation factors, implementation factors that
15 may have contributed to a lack of a decrease in the
16 number of pregnancies? Dr. Katz.

17 DR. KATZ: Just to take one second to
18 reiterate an anecdote--I won't reiterate it--but to
19 remind you we don't have part of not being able to
20 improve on it although we have to keep trying and
21 use every effort is the human fallibility and that
22 was my only point in mentioning that little

1 anecdote. You can't completely control human
2 behavior, nor can we unfortunately 100 percent
3 control physician behavior and how much time
4 somebody is spending with a patient, and so forth.

5 So, some of it, we are not going to be
6 able to reduce it to zero.

7 DR. GROSS: A point well taken.

8 DR. KATZ: It was also pointed out
9 yesterday, with all the stringent requirements that
10 one might consider adding, that still doesn't
11 eliminate pregnancies. It will capture the numbers
12 better and it may be a reminder, an education
13 reminder, but if somebody is going to tell the
14 doctor that they are sexually inactive, you can't
15 force them to take birth control pills. There is a
16 certain limit to what we can do.

17 DR. GROSS: Exactly. There is going to be
18 a limit to what we can do, but does that mean we
19 shouldn't try to make the program stricter. I mean
20 that is going to be one of the things we have to
21 consider.

22 Dr. Venitz has a comment?

1 DR. VENITZ: Yes. My comment is with
2 those survey instruments in general. We just had a
3 preview I think of our discussion when we looked at
4 the reported numbers, and you stated that we are
5 dealing with reported numbers.

6 I would make the observation that in my
7 mind, the only number that has any validity is the
8 fact that 28.2 percent of the patients participated
9 in the survey, which means the remainder, 70-plus
10 percent did not participate in the survey.

11 We are looking at pregnancies, which is an
12 event that presumably is rare with or without the
13 implementation or the appropriate implementation of
14 a prevention program, so we are looking at in my
15 mind bias, at least potentially biased survey
16 sample.

17 So, any of the numbers that follow from
18 that point on, to me, cannot be interpreted whether
19 they are made or reported, they do not reflect any
20 interventional effects. So, the observation I am
21 making is one of the limitations and anything that
22 I have heard over the past day and a half is the

1 fact that only 28 percent of the patients post-
2 S.M.A.R.T. participate in the survey. So, all the
3 numbers from that point on, to me are meaningless.

4 DR. GROSS: An important point.

5 Dr. Strom.

6 DR. STROM: I would like to address the
7 measurement issues and to limit it, to some degree
8 this may be duplicative and I think is expressing
9 what everybody is saying, and then move on to the
10 implementation factors.

11 For a measurement issue, I think to a
12 large degree we are looking at spontaneous
13 reporting data. The problem there is we have an
14 incomplete numerator, we have an incomplete
15 denominator, and given that, we can say something
16 about numbers.

17 In this case, the numbers are unusually
18 important perhaps because they are telling us there
19 are still people being affected, but we can say
20 nothing about the rates, you can't calculate rates
21 based on spontaneous reporting data.

22 You have got again uncertain numerators

1 and uncertain denominators. I think the only place
2 we have rates are the survey data, but as Dr.
3 Venitz said, and as Dr. Mitchell has talked about,
4 as well, there are obviously limitations that have
5 been well recognized in the survey, and as much as
6 it could be designed to address it, it has, but it
7 is an intrinsic problem when you are dealing with a
8 voluntary system, and the enrollment is voluntary
9 accordingly.

10 In terms of implementation factors, I
11 think what we are hearing is an extraordinarily
12 complex system that it was certainly hard for us to
13 be explained to us, no less harder yet for
14 clinicians to implement. I am a general internist,
15 not a dermatologist, so I don't prescribe Accutane,
16 and I haven't been subject to it, and the more
17 details I hear about it, the gladder I am to that
18 effect.

19 I think there is a very substantial burden
20 here on physician and on pharmacist. I think there
21 is an enormous obviously lack of reporting as we
22 talked about, and I think there is a huge lack of

1 ability to enforce I think is the key issue.

2 I think to the degree we are talking about
3 a system where you are trying to drive things
4 towards zero. You will never achieve zero for the
5 reasons everybody is saying, but we are trying to
6 drive it towards zero.

7 You are not going to be able to get this
8 complex health care system with all of the enormous
9 heterogeneity and hundreds of thousands of
10 providers when you are dealing with physicians and
11 pharmacists, and try to ask the health care system
12 to enforce it in a voluntary way.

13 It is just never going to happen, and I
14 think as long as we are relying on a voluntary
15 system in terms of the implementation, we can't
16 expect it to go as low as it can.

17 I am struck and impressed by how well it
18 has done given all of that. I think there has been
19 enormous compliance on pharmacy part, I think there
20 is enormous compliance on dermatologists' part.

21 I think the answer isn't to keep hitting
22 people on the head, because we can't expect more

1 from a voluntary system than we have already
2 gotten. I think the problem is the implementation
3 has been voluntary and has been diffuse, and has
4 been totally decentralized.

5 DR. GROSS: So, zero is a laudable goal
6 and we can try to design a program to reach that
7 goal, but not expect that we will ever get there.

8 Dr. Vega.

9 DR. VEGA: I just want to concur with Dr.
10 Strom, that in terms of the implementation factors,
11 I think that the weakest of the links here is the
12 voluntary nature of this program, as he so nicely
13 described. I think that is the best we can get
14 from this type of voluntary program.

15 DR. GROSS: Dr. Epps.

16 DR. EPPS: Just a few things I wanted to
17 say. Although I know this is a risk management,
18 part of the risk-benefit ratio, also to say
19 something about the benefits, and that it does
20 benefit a lot of patients, and those of us who use
21 it or some of us who may have taken it, I feel that
22 I should say something for them, because I think it

1 is a very useful drug, I think it is a very
2 important drug.

3 Dermatologists, in general, are not very
4 cavalier about prescribing it. Most of us are very
5 careful. I have treated a lot of minor patients or
6 young people, and if either the parent or the child
7 does not agree, you just don't give it.

8 If the child is involved in risk-taking
9 behavior, they are the ones that are smoking and
10 underage drinking, they are probably having
11 unprotected sex, you don't give it to them. So,
12 patient selection is also very important.

13 Dermatologists, in general, quite a few
14 are solo practitioners, kind of an independent
15 group, and to get over 90 percent participation,
16 anything isn't a miracle.

17 Also, I agree with Dr. Katz, it is very
18 difficult to control for human behavior or for
19 human biology, and there are some patients who will
20 say or do, your history is only as reliable as your
21 informant, and you have to, you know, you take what
22 your patient says, you can look for signals for

1 other things.

2 When we deal with minors, however,
3 certainly you have to involve the parent and get
4 their consent. With adults, you can't control
5 adult behavior. You can make recommendations, you
6 can make suggestions, but we don't go home with
7 them and we can't control. We can advise, and we
8 can withdraw the medication if they aren't doing
9 what they are supposed to do.

10 There have been questions about
11 international patients. I guess it should be said
12 that different ethnicities have different
13 experiences with acne. It is not the same in all
14 cultures. Some cultures are more severe than other
15 people, so I am not sure the emphasis on other
16 countries is that meaningful.

17 Also, if the survey is voluntary and
18 complete, it doesn't mean that it is necessarily
19 truthful. A couple of questions might need
20 modification for minors, such as did you sign the
21 consent. Well, a concrete young person might say
22 no, I didn't, my mother did, but I didn't sign the

1 consent, so you might want to say did you or your
2 guardian or parent do X, Y, or Z.

3 There are times when we do talk to parents
4 confidentially if they have something to say or
5 give the prescription, so the young person filling
6 out a survey may not know that there is a sticker
7 involved.

8 So, there may be a few little
9 modifications that could be done on the survey, as
10 well.

11 DR. GROSS: I have a question of Dr. Epps.
12 Would you like to make some suggestions? You
13 brought up the issue of selecting the patients who
14 you think would be appropriate rather than just
15 accepting whether they say yes, I will comply.
16 This might be helpful in designing a plan to
17 particularly say maybe this person is not
18 appropriate assuming they have cystic acne.

19 DR. EPPS: Well, as has been alluded to
20 earlier, the doctor-patient relationship is
21 extremely important. I mean it is pretty unusual
22 to give, unless it's a male, to give Accutane on

1 the first visit. I mean it is not usually done.

2 You need blood tests, you need follow-up, you need
3 consents.

4 As a subspecialist, I have sometimes
5 referred patients who already had treatments. They
6 come with a reference from their physician. I
7 usually talk to them or I might have medical
8 records from the referring physician indicating
9 what medicines they have had and how long they have
10 had them, but still you are still going through
11 consent, you are still giving out the bound spiral
12 notebook folder, and proceeding in that way.

13 A lot of times--I guess part of my
14 pediatric background--you talk to the young people
15 and ask them, well how is school, well, you know, I
16 skip and I don't go all the time or I am not in
17 school right now. I mean it is probably not a good
18 person.

19 Multiple visits are helpful because you
20 will know whether they come back or whether they
21 are compliant. If they come back with half a vial
22 of pills, then, that is probably not a good

1 Accutane patient.

2 I know some of us have been talking about
3 pills and people who have them left over and people
4 who share, and that is always a concern, too, and
5 some of that is timing of appointments.

6 You tell them take all of your pills, you
7 know, and sometimes it requires a follow-up after
8 the end of course, not only whether you are
9 monitoring blood tests, but to find out how they
10 are doing.

11 You can't repeat the Accutane course for
12 two weeks anyway--not two weeks, two months--if you
13 need to repeat a course. Most of them don't need
14 it, but they sometimes do like to follow-up with
15 questions or concerns.

16 I think most people are trying to do the
17 right thing. That is what I would like to
18 emphasize, and I think most patients are trying to
19 do the right thing, I really do.

20 DR. GROSS: Dr. Schmidt.

21 DR. SCHMIDT: I pass. Dr. Epps said
22 everything that I wanted to say.

1 DR. GROSS: Wonderful.

2 Dr. Sawada.

3 DR. SAWADA: I just wanted to get back to
4 Dr. Venitz's and Dr. Strom's comments. I would
5 certainly agree with them that from the outset
6 yesterday, getting the information and the numbers
7 and the wonderful slides, et cetera, it became
8 inherently confusing as to how valid the basic
9 numbers were.

10 Certainly, I think that things
11 contributing to this confusion with the validity of
12 the numbers obtained has to do with the voluntary
13 nature of the survey. I certainly think that is
14 something that we have to discuss.

15 The other thing is the recall nature of
16 the survey, as well. I know that if I don't
17 dictate in the first 24 hours of seeing a patient,
18 if I have to wait 24 hours, that information is
19 lost. It may just because I am--no offense to
20 seniors--but it may just be that I am advancing
21 myself in age, but I certainly would suggest that
22 something other than recalling nature of the survey

1 is something to consider.

2 The other thing is contacting the
3 physician. I have never been contacted or informed
4 that a patient has filled out any of my surveys. I
5 certainly think something has to be done to protect
6 the privacy of the patient when we review those
7 records, but that would at least be able to give
8 you a corollary between what is in my record and
9 what the patient says.

10 DR. GROSS: Dr. Wilkerson.

11 DR. WILKERSON: A couple of comments. We
12 have a saying in Texas you can lead the horse to
13 water, but you can't make him drink. That
14 certainly applies to trying to legislate or trying
15 to force people into compliant behavior, so whether
16 we make these requirements mandatory or not, there
17 is nothing that prevents that person from putting
18 untruthful answers on a document that they send
19 back to an anonymous third party, no more than it
20 prevents them from making false statements to their
21 physicians. Patients tend to respond to your
22 expectations and I think they feel very bad when

1 they do fail.

2 Sixty percent, I was surprised that that
3 was the goal that was set. If anyone has ever done
4 measurement in population satisfaction surveys,
5 whatever, 60 percent is a lofty goal. Generally,
6 if you can get 10 percent back on a voluntary
7 survey of any type, I am told by industry is very
8 good, and sometimes even 1 percent.

9 So, to see that we are getting over 20
10 percent return is certainly quite amazing,
11 particularly when we are looking at the intimate
12 details that patients are revealing about
13 themselves. We are thinking about these details in
14 a clinical sense, but to the patients revealing
15 this, this is like taking their clothes off in
16 public almost.

17 My other question about this is from the
18 data, which I didn't see, is do we have particular
19 physicians who are non-compliant and result in an
20 overly large number of represented pregnancies.
21 This is an issue that we don't like to deal with.

22 We know that there are good drivers and

1 bad drivers, and certain people seem to have
2 accidents more than others do, but certainly every
3 one is, because the risk of probabilities expose
4 the potential of having an Accutane-exposed
5 pregnancy no matter how good a job they do, but
6 certainly we need to look at practitioners also in
7 terms of are some people over-represented and why
8 are they over-represented.

9 The other comment I had was I thought that
10 the survey forms that I saw was the first time I
11 had had an opportunity to see those documents that
12 I could recall, I thought they were incredibly
13 complex and written well above what I would expect
14 for the average patient.

15 I had to sit there and read through the
16 questions a couple times sometimes to try to grasp.
17 I think we need a simpler, shorter document.

18 DR. GROSS: Well spoken. I think the data
19 presented to us at least really showed a paucity of
20 risk factors that would help us deal with failed
21 implementation, and hopefully, future surveys will
22 include more obvious, not so obvious risk factors.

1 The next questioner is Dr. Honein.

2 DR. HONEIN: I think one implementation
3 factor that may have decreased the effectiveness of
4 the current risk management plan is the existence
5 of multiple names of this program and multiple
6 brochures and multiple surveys, which I think is
7 very confusing to patients and likely decreased
8 participation in the survey, or conversely, we
9 don't know how many patients enrolled in both
10 surveys, because there is no information going to
11 the patients to even tell them that they shouldn't
12 enroll in the second survey.

13 I assume the vast majority of prescribers
14 got the S.M.A.R.T. materials from Roche because
15 that came out first, and unless they got a very
16 small supply, they probably didn't have to request
17 the other materials, but we saw yesterday that now
18 over half the prescriptions are for the generics,
19 so when they are getting their medication, they are
20 getting a different information, a different
21 enrollment form.

22 I think unifying this into one approach

1 would help the situation a lot.

2 DR. GROSS: Good point.

3 The next question comes from Dr. Bigby.

4 DR. BIGBY: I think that the major problem
5 with this medication is that it is uniquely and
6 highly effective for treating nodular acne, and I
7 think for most dermatologists, it is a drug that is
8 very important for us to be able to take care of
9 patients, but it also is teratogenic and therefore
10 I think that the fact that we are talking about
11 making decisions about rates on the basis of
12 spontaneous reports and utilization really is
13 something that--I think we are remiss in having to
14 rely on such a paucity of data in trying to make
15 decisions.

16 I think one of the things that has to be
17 accomplished is that we make a mechanism where we
18 will actually detract female patients who are
19 taking the drug and make a really good effort to
20 make sure that we learn the outcome of those
21 patients while they are on the drug and for
22 sometime after.

1 I think only that way can we start to have
2 accurate measurements about basically what the rate
3 is and what effects interventions have.

4 In terms of implementation factors, one of
5 the things that struck me is that, you know, I see
6 patients at a university health service twice a
7 week, and the sort of demand for Accutane is
8 extremely high. Obviously that age group patient
9 is one that is at high risk for becoming pregnant.

10 One of the things that I try to make sure
11 is that patients are at least on one effective form
12 of contraception, and I think it is very well known
13 and published in a book "Contraceptive Technology,"
14 what are the effective forms of birth control in
15 actual use. I mean they are basically
16 sterilization and hormonal therapy, and that the
17 failure rate of just about everything else is
18 unacceptably high for this drug.

19 So, one thing that we can do is to make
20 sure that people are at least on one effective form
21 of contraception, and then I would just like to
22 make a sort of comment about the abstinence

1 loophole, I like to call it.

2 Someone said, well, if a patient insists
3 that they are abstinent, you can't make them take
4 the pill. Well, yes, you can. You can give them
5 the choice of either use an effective form of
6 contraception or not give them Accutane.

7 It always puzzled me about, you know,
8 abstinence as a loophole because if abstinence is
9 your primary form of contraception, what is the
10 secondary form.

11 So, if are abstinent on the pill, that
12 works for me. But if you are abstinent and your
13 secondary form of contraception is a condom, then,
14 it makes no sense whatsoever, because once you have
15 to use a condom, you are not abstinent anymore, and
16 a condom by itself is not an effective form of
17 contraception.

18 You know, the sort of published efficacy
19 of condom alone is extremely low. Condom and foam
20 gets to be I think around failure rates of 1
21 percent, but condoms alone, I think the pregnancy
22 rate is as high as 10 percent in use.

1 So, I think that we should eliminate the
2 abstinence loophole and make sure that all patients
3 are at least on one effective form of
4 contraception, and then we can talk to them all we
5 want about using two simultaneous forms of
6 contraception, but I think we can at least start
7 with them being on at least one effective form of
8 contraception.

9 DR. GROSS: Thank you for your comments on
10 the twists and turns and human logic.

11 Would anyone like to comment on whether or
12 not the survey in the future program should be
13 mandatory? Dr. Cohen.

14 DR. COHEN: I think it should be
15 mandatory. Yesterday and today, I think especially
16 with the patient survey, I guess, several of us
17 remarked about how little we know about the actual
18 causes. I know I did yesterday, and I think you
19 did, Peter, as well, and others.

20 To me, not only should it be mandatory,
21 but I think particularly with any follow-up that is
22 done with patients that became pregnant, where the

1 failures were, we really have to spend time asking
2 questions about what actually went wrong.

3 To me, that is absolutely critical, and
4 sooner or later, you would be able to put together
5 some data that would be of tremendous help in the
6 future in reducing these failures. So, to me, that
7 would be critical, a different design, at least
8 with the follow-up that is done, and then tracking
9 what those reasons are.

10 DR. GROSS: Dr. Crawford.

11 DR. CRAWFORD: Thank you. I wish to
12 expand upon what both our Chair and Dr. Cohen just
13 said, and it is also follow-up to the first
14 question I asked yesterday. One, I do think
15 surveys should be a mandatory part of the risk
16 management program, but I think they must be
17 coupled with some type of failure mode effects
18 analysis.

19 In response to different ways of saying
20 how it was handled, to my recollection, yesterday,
21 Dr. Huber stated that Roche had some follow-up
22 steps based on the S.T.E.P.S. and the S.M.A.R.T.

1 program.

2 Dr. Mitchell described some follow-up with
3 their survey processes this morning that included,
4 with permission of the patient, talking with the
5 physicians and comparing some of that data.

6 Dr. Miller gave two case reports. One of
7 the speakers from the open hearing, of course, that
8 is another case report, but that was a different
9 risk factor that was brought up that hadn't been
10 put on the table before.

11 So, I think part of the risk management
12 program, in addition to the survey, that we really
13 should strongly suggest the need for more
14 formalized follow-up of the failure cases including
15 qualitative data, not simply asking what went
16 wrong, but truly doing histories in cases, because
17 the patients may not know what went wrong. We have
18 to ask questions beyond what could just be checked
19 off, really hear their descriptions of everything
20 that happens.

21 DR. GROSS: Thank you.

22 Dr. Ringel.

1 DR. RINGEL: I was going to address
2 specific parts of the program that were implemented
3 that could have contributed to the number of
4 pregnancies, and I think one of those was the
5 stickers. The stickers are a surrogate, and I
6 think that the FDA has shown very clearly that they
7 correlated very poorly with the pregnancy testing,
8 but that is not all they did poorly.

9 Supposedly, those stickers, there was a
10 lot in those small stickers. Supposedly, those
11 stickers meant that your patient had the pregnancy
12 test, it meant that they had the pregnancy test
13 during menses, which, of course, you have no way of
14 knowing.

15 It means that you had made sure they were
16 going to be on two forms of birth control, that you
17 had educated them, that you have done the consents,
18 and that they had been on birth control for a full
19 month. That is a lot for a little yellow sticker
20 to do, and I don't think it did it very well. It
21 didn't even do the one thing it was really supposed
22 to do, which was to correlate with pregnancy

1 testing.

2 So, I would suggest that we do one of two
3 things, either just get rid of the stickers and
4 get the pregnancy tests faxed to the pharmacy, so
5 they will know that they are really there and they
6 have really been done, or make those stickers mean
7 something.

8 In other words, make them into a
9 checklist, so the doctor actually has to say yes,
10 they have been on birth control for a month,
11 because I know it has been a month since I last saw
12 them and I got in touch with the gynecologist, yes,
13 I did the consents, you know, yes, I did the
14 pregnancy testing, and at least let them check off
15 that they have done the things that they have done,
16 so it has some meaning. At least it will be a
17 reminder, if nothing else, or just get rid of them.

18 DR. CRAWFORD: Dr. Gross temporarily has
19 stepped out, so again, I get to say I have got the
20 power.

21 Dr. Day.

22 DR. DAY: A lot has been said so far and

1 will continue to be said about human behavior, and
2 I think the problems with human behavior should be
3 pointed in all directions. To be human is to err,
4 and there are errors that happen along the way from
5 the physician's office, the pharmacist, the
6 patient, and so on.

7 Very often, for example, in the
8 physician's office, the affixing of the sticker is
9 an interesting question. What happens if the
10 patient comes in and needs to get the refill, and
11 the physician is with another patient or out of
12 town, does anyone else in the office have authority
13 to apply the sticker, such as the office nurse or
14 administrator, and what they might do is go and
15 look in the chart and say, oh, yes, this patient
16 has been qualified by the doctor.

17 That was sometime ago, and if that person
18 then doesn't know that there has to be a
19 requalification procedure every single time, that
20 person might say, on, here is your sticker, go to
21 the pharmacy.

22 So, we could generate many, many

1 opportunities for human error to happen along the
2 way. But to focus on the patients, I think we have
3 confounded human behavior with some other things,
4 and one of the most important things is
5 comprehension.

6 To my knowledge, there has not been
7 comprehension testing provided in the survey
8 materials. There is questions did you do this, and
9 so on, and so forth, and do you understand that,
10 and then it tells you what you are supposed to
11 understand. Of course, you say yes.

12 So, I think that there is a confound when
13 someone doesn't do something, is it because they
14 don't know that they are supposed to do it, or is
15 it because they know but either they choose or
16 forget or circumstances get in the way of them
17 doing the thing.

18 A colleague here reminded me yesterday
19 about the speed limit. We all know that the speed
20 limit might be 65 miles an hour in a certain area,
21 but not everyone goes 65 miles an hour, some people
22 go faster.

1 So, we have this confound of comprehension
2 and behavior, but it is not insoluble. Currently,
3 at Duke University, we have a government-funded
4 project on studying comprehension of the
5 information to patients in the Medication Guide for
6 Accutane.

7 So, it may well be when the results are in
8 that the comprehension level is high and therefore
9 it is a behavioral problem, and interventions need
10 to be addressed there, or if the comprehension
11 level is low in some aspects, but not others, then,
12 additional materials or education or something
13 needs to be addressed to those points.

14 So, I don't think we should throw up our
15 hands about human behavior, and so forth. It can
16 always be, if you will pardon the expression, more
17 better, but we have to understand why there are
18 failures, not only of the failure effects approach,
19 and so on, but is it comprehension or is it
20 behavior, and a relative blend of those, and how do
21 those interact.

22 So, I am sorry our Chair is absent while I

1 put forward this plea to de-confound the many
2 important aspects that go into behavior that is not
3 fully appropriate.

4 DR. CRAWFORD: Thank you.

5 Dr. Schmidt.

6 DR. SCHMIDT: I think we need to magnify
7 our certainties, and one of the certainties is that
8 people, when they just listen to one person or they
9 look at one page, are not going to pick up the
10 information.

11 At least I and my colleagues in Houston
12 usually have people go to the gynecologist and get
13 a consultation for their birth control if they are
14 in a risk population, and then the other thing I
15 want to address is I don't want to put all my
16 patients on birth control pills.

17 I really have young girls who are
18 genuinely abstinent, and I do not want to put them
19 at risk for retinal hemorrhage, and I truly believe
20 when they come in with their mother that they are
21 abstinent.

22 Now, human nature being what it is, there

1 is a wonderful word in a prescription called
2 Prevent, and I always tell my patients that if they
3 have unprotected sex, and I have had them call, I
4 will give them a prescription for Prevent to take,
5 the morning after pill. I think this is something
6 that needs to be mentioned.

7 DR. GROSS: Robyn Shapiro, did you have a
8 comment?

9 MS. SHAPIRO: I am going to respond to
10 what I think you wanted us to talk about, and that
11 was the surveys. This plays on Ruth's point a bit.

12 I think that when we look at some of the
13 proposals in the packages about the interaction
14 with the program, and I am not so sure what that
15 means, but I have an idea about maybe what it could
16 mean, and that is, before the first prescription is
17 written, that there be a check of understanding
18 about what is supposed to happen in that informed
19 consent process.

20 If there is a failure and/or depending on
21 what the survey says, there is an indication of
22 intent to engage in risky behavior even with

1 understanding, that that be looped back to the
2 prescriber, who then who would have to readdress
3 whatever the problem in understanding or intention
4 is with the potential patient, and that then the
5 prescriber loop back to the program to confirm that
6 yes, in fact, we cleared this up and therefore, as
7 a substitute for a sticker, rather direct
8 communication from the prescriber to the program,
9 which would go to I guess the pharmacy, that there
10 be a check on assurance of understanding and intent
11 to comply, and that maybe that happens, that kind
12 of interaction with the program and, if need be,
13 then, back to the doctor and to the program, every
14 prescription, period.

15 DR. GROSS: How do you suggest this be
16 done again?

17 MS. SHAPIRO: Computer.

18 DR. GROSS: Dr. Epps.

19 DR. EPPS: In regards to the stickers and
20 I guess the scenario that was introduced, the
21 sticker has your name and your DEA number on it.
22 It is not something that a staff or a nurse or

1 someone else can substitute.

2 Also, in regards to birth control, birth
3 control pills and hormonal contraception is
4 contraindicated in certain populations. There are
5 some people who should not take oral contraceptives
6 or Depo or whatever, I mean there is now I guess a
7 monthly injection. There are complications. There
8 is a whole list of not only contraindications, but
9 potential side effects, and everyone should not
10 take them.

11 Of course, some of my patients come, they
12 have talked about it with the pediatrician, they
13 come with the blood tests in hand, they come with I
14 have already been to my doctor, I am on my birth
15 control pills. A lot of patients are really,
16 really prepared, and I don't think a lot of
17 patients or their parents, if they are a minor, are
18 that ignorant about it.

19 I mean these people read, they go on line,
20 they talk to their friends. The visit before, I
21 usually give them some literature to look at
22 regarding the side effects and the risks and the

1 benefits.

2 So, I agree education is important, I
3 think that it should be ongoing at every entry
4 point possible. If they are seeing me, they are
5 seeing the pediatrician, everybody is reinforcing
6 this stuff, and sometimes the information can
7 change, too, just as before, as someone alluded to,
8 that they used to recommend on the third day of the
9 period, then, it was the fifth day, and changes in
10 the protocols, but I don't think people are just
11 winging it.

12 DR. GROSS: The last couple of comments
13 have been on the stickers, which is really Question
14 No. 2, so we could move to Question 2. Any other
15 comments on what aspects of the program made the
16 stickers not meet the role they were intended to
17 meet? Dr. Raimer.

18 DR. RAIMER: Before we go to stickers, I
19 just wanted to comment again. I do think that
20 every patient should have to sign up to be part of
21 the patient registry, and I think that should be
22 done in the physician's office before the patient

1 is ever given Accutane, that they should sign up,
2 register for the survey before they are ever given
3 Accutane, that that should be part of what has to
4 be done to get the Accutane.

5 I think it ought to be looked at, an
6 on-line sort of process--might should be looked at,
7 I don't know all the ins and outs about doing
8 that--but at least you could get to the patient a
9 little more quickly with the survey, and I think
10 there should just be one vendor. It is much too
11 confusing having more than one vendor.

12 DR. GROSS: Thank you. That comment
13 actually is very relevant to Question No 4, which
14 talks about registers, so that is important to
15 note.

16 Dr. Katz.

17 DR. KATZ: Part of Question 1 says discuss
18 measurement factors that have contributed to a lack
19 of having accurate numbers, and we keep talking
20 about the response rate of 28 percent to the
21 survey, and that is easily taken care of with
22 mandatory--as other people have alluded

1 to--mandatory enrollment, and it is not that
2 burdensome.

3 You are having people sign the consent for
4 two consent forms before they leave the office,
5 before they get Accutane, having bloodwork done or
6 having it done at the lab, and this enrollment form
7 is very simple.

8 Instead of what we have been doing now, we
9 strongly urge you to fill that, because there could
10 be more restrictions if you don't, instead of that,
11 you also have to fill that out, and you send it
12 from the office, postage paid, and you send it from
13 the office, and if they don't respond to the
14 questionnaire, you get feedback in a couple weeks
15 that they didn't do that, and case closed. It is
16 not even added burden.

17 So, a mandatory enrollment would eliminate
18 our whole discussion of do we have accurate
19 numbers, what can be done at follow-up, and we can
20 take that 28 percent and push it close to 100
21 percent very easily.

22 DR. GROSS: So, really Questions 1, 2, and

1 4 are all kind of interconnected, which is fine.

2 Dr. Vega.

3 DR. VEGA: This is a comment regarding why
4 are we going back and forth on these questions, and
5 why is to assess the pregnancy, stickers, testing,
6 all that. If we think about it in the normal way
7 when the drug is coming to the market, if we had
8 isotretinoin coming down the pipeline as a new
9 drug, and knowing what we know right now, I am sure
10 that we will have no hesitation, no fear, in fact,
11 we will not dare to let this drug go into the
12 marketplace without the shackles of a good, strong
13 mandatory pregnancy prevention program, risk
14 management program, that will help us to control
15 the use and prevent or minimize the pregnancy
16 exposure.

17 However, we are going backwards, it is
18 already out, and there is a lot of use, and now we
19 are trying to contain, and that is why it is so
20 hard to go backwards, but we need to maintain the
21 forward perspective and try to apply it in a
22 backwards way.

1 This sounds kind of confusing, but the
2 principles are the same, and we should apply them
3 even when we are trying to read backwards into this
4 issue.

5 DR. GROSS: Dr. Gardner.

6 DR. GARDNER: With respect to stickers, I
7 think that we simply cannot examine--I mean we
8 can't recommend any program going forward that does
9 not take into account the opportunity to gather or
10 to communicate through computerized order entry,
11 PDA entry, that is going to be the way that
12 prescriptions are delivered, communicated, and it
13 already is in many places.

14 It certainly is in institutions, many
15 institutions that have dermatology clinics. We are
16 going to have to address that. Yellow stickers do
17 not address that, so whatever system we have,
18 whether it incorporates yellow stickers for
19 hand-carrying to reach all pharmacies or not, it
20 also has to address these other things.

21 I would also like to have us look over the
22 next hour or so about what are we going to do about

1 mail order sales.

2 DR. GROSS: On the sticker issue, I think
3 the question has been answered as to why there is a
4 disconnect between the stickers and inadequate
5 birth control measures, because that may be
6 impossible to ever assure.

7 But how about the issue of the
8 inconsistent link between monthly pregnancy testing
9 and the stickers? Why do you think that failed?

10 Yes, Sarah.

11 DR. SELLERS: I would like to, first of
12 all, agree with the comments that Dr. Ringel made
13 earlier concerning the amount of information that
14 is intended to be conveyed by the yellow sticker,
15 and again why problems with the sticker may have
16 contributed to the findings.

17 I would like to go back to my comment
18 yesterday on what exactly the qualification date,
19 what information that conveys, because again, in
20 the S.M.A.R.T. package, briefing package, it states
21 that the date is actually the date a sample is
22 taken, not the date that there is a confirmed

1 negative pregnancy test.

2 That seems to be in conflict with the
3 labeling of the drug, which requires two negative
4 pregnancy tests prior to prescribing of the drug.

5 DR. GROSS: Dr. Kibbe.

6 DR. KIBBE: I think we are all trying to
7 get our handle around the entire program, and while
8 we address each question, we end up addressing all
9 the questions and all the issues, and there are
10 some human behavior issues, and then there is lack
11 of data issues.

12 Then, there is an issue that I think some
13 of us are struggling with, and that is how
14 draconian does the risk allow us to become in terms
15 of preventing the risk. I know Dr. Venitz said
16 that he didn't trust the abstinence, it wasn't one
17 of those really great dependable methods.

18 There is, of course, the medieval
19 admonition that when you are going to be an
20 abstainer, you should get to a nunnery. The real
21 issue is how draconian are we going to be, how
22 forceful can we be in our society, and upon whom

1 should we exercise the additional level of control
2 in terms of behavior.

3 I think that if we took a quick
4 run-through, we would all agree that a mandatory
5 survey gets us a lot more information, a lot more
6 data. Whether or not a mandatory survey gets us
7 any improvement in pregnancy rates is completely
8 disconnected from me in my mind. I can't see how
9 mandatorily surveying people gets them to change
10 their behavior.

11 I also understand that education is a
12 variable and active education versus passive
13 education makes a difference, but 100 percent
14 recall of educated material is absolutely
15 impossible.

16 I have done it at universities for many
17 decades, and you can't get students who are trying
18 to even get into medical school to remember all the
19 stuff they learned in any one lecture of
20 physiology, and we are dealing with a cross-section
21 of American people.

22 We just can't expect education to be all

1 the answer. I have a tremendous faith in the
2 dermatologists. I think they are truly devoted to
3 getting the right result, and they see the results
4 all the time, and it is right in front of them.
5 They are really motivated.

6 I don't think we need to worry about the
7 physicians wanting the outcomes. I think we have
8 to empower them to get those outcomes. If we have
9 a mandatory survey system and a mandatory
10 registration for our patients and our pharmacists
11 and our physicians, we will have a way of
12 collecting data, and we will still have
13 pregnancies.

14 The answer really is can we differentiate
15 between the 99 percent or more of women who, when
16 given the option and explained the situation, will
17 be very careful and not get pregnant, from the 1
18 percent or less of women who no matter what we do
19 on an educational basis, will find a way to have a
20 failure rate, and that is what we are looking at.

21 If we can get data from the 99 and compare
22 it to the 1, and find some trends or some ways to

1 get our physicians well informed about what are
2 risk factors, then, are we willing to ask them
3 that, since you are in a high risk and we are not
4 willing to take the chance with you, that you will
5 have to be on one or more forms of birth control
6 that we control as a clinician rather than that
7 they control as a patient, and how draconian do you
8 want to be.

9 You could very well look at them and say
10 all right, we will start you on this therapy two
11 months from now, but today you are going to the
12 gynecologist and you are going to get an IUD, and
13 we are going to do pregnancy tests, and two months
14 later we are going to start you on this therapy,
15 and two months after the therapy is over, then, we
16 will let you go back to the gynecologist and take
17 the IUD out or something comparable to that.

18 Now, that is as close as you can get to
19 putting them into 100 percent assuredness, but I am
20 not prepared to say we do that to all of our
21 patients. I am saying let's find a way to figure
22 out which patients are at high risk and offer

1 them--and I don't know whether that is the exact
2 method--but there has to be something more than
3 what we are getting to.

4 So, sure, we can recommend to the FDA to
5 go ahead and accept a mandatory survey system and a
6 mandatory education system, and what have you, but
7 it is not going to end pregnancies for women of
8 childbearing age on this drug unless we have with
9 it a more draconian second step.

10 DR. GROSS: I guess another question is it
11 won't end it, but will it decrease it, and also
12 dermatologists aren't the only one that prescribe
13 the medication as we have heard.

14 Dr. Whitmore.

15 DR. WHITMORE: I am not quite sure what
16 question we are on, but as far as--

17 DR. GROSS: All of them.

18 DR. WHITMORE: Okay. As far as the survey
19 and registration, I think mandatory survey and
20 registration is essential. I wonder if there is a
21 way we can also have a simultaneous anonymous
22 survey be sent in just so we can be comparing our

1 data that we are receiving. So, that is one
2 question.

3 The next is about the yellow stickers and
4 pregnancy tests going to the pharmacy, and things
5 like that. I think we have to remember that the
6 pregnancy test is only going to be helpful in
7 preventing persons who are starting Accutane from
8 starting Accutane while pregnant.

9 The follow-up pregnancy test is going to
10 tell us to stop the drug earlier than we would
11 otherwise, but we will still be needing to tell the
12 patient that their baby may have a retinoid
13 embryopathy.

14 So, think remembering that, that our
15 pregnancy test is only going to be effective in
16 preventing persons who are pregnant from starting
17 Accutane, and is going to do nothing else, nothing
18 for the other individuals who become pregnant
19 during Accutane therapy.

20 DR. GROSS: Sarah Sellers?

21 DR. SELLERS: No.

22 DR. GROSS: Dr. Epps.

1 DR. EPPS: Just a couple of comments.
2 Medicaid requires that prescriptions be written, so
3 if we are of opinion that Accutane should have
4 written prescriptions, then, that could be, too.
5 It doesn't have to be electronic, it doesn't have
6 to be by PDA, it probably shouldn't be.
7 Occasionally, Medicaid, pharmacies may accept a
8 written faxed prescription, but regardless it has
9 to be written, and that would eliminate the hackers
10 and the other people who want to get it to sell it
11 or do whatever they want to do it.

12 Survey is a good idea if that were to be
13 implemented. As far as registration and pregnancy
14 testing and faxing it to a pharmacy, I don't agree
15 with that. I think there are real privacy issues
16 especially when you are talking about minors.

17 It is not like a WBC count, you know, it
18 is not like a white count. If you have one
19 pharmacy and you are in a small town, and if there
20 are certain pharmacies that do it, I mean there are
21 real confidentiality issues there.

22 That's enough.

1 DR. KWEDER: Excuse me for interrupting
2 the order, but I am hearing a lot around the room,
3 there is a back and forth about surveys and
4 registries, and I am not sure that we are all
5 talking about the same thing.

6 I wonder if it would be helpful perhaps
7 after the next break if the staff could present a
8 description of the S.T.E.P.S. program which employs
9 both, and they are very different. You know, the
10 registration and the survey itself are different,
11 and they have raised for us and the company
12 different kinds of issues with regards to privacy
13 and what is acceptable to OHRP.

14 We have some slides that might help
15 clarify some of that, to try and put a framework
16 around that before final decision and
17 recommendations are made.

18 DR. GROSS: Do you want to pull those
19 together, because we may get to them before lunch?

20 MR. LEVIN: Could we also have a
21 description of the other program?

22 DR. KWEDER: That is what I mean.

1 MR. LEVIN: I mean both programs.

2 DR. KWEDER: What both programs?

3 MR. LEVIN: Clozapine and the Thalidomide
4 programs.

5 DR. KWEDER: I think so. I think we can
6 pull that together.

7 DR. GROSS: I am going to take the
8 prerogative of the Chair to say it sounds as though
9 we are pretty much done with Question No. 1. There
10 may be some issues that come up later on, and
11 that's fine, but to move us along.

12 Some of the issues that have come up for
13 the second part of Question 1 regarding
14 measurement, surveys, mandatory surveys, rewriting
15 the survey, so that it is at maybe a seventh or
16 eighth grade level, implementation factors.

17 We talked about stickers, which is really
18 the next question. Use of FMEA, qualitative
19 assessment, that the survey would have to be
20 rewritten to include many more possible factors.

21 So, those are some of the issues that were
22 raised. Also, it was pointed that while zero

1 pregnancies is our goal, no matter what we do, we
2 are probably never going to be able to reach that
3 level.

4 On Question No. 2, we have had a few
5 comments on stickers. Would anyone like to comment
6 on what aspects of the program made them
7 ineffective? The use of the stickers was high, but
8 apparently it didn't prevent pregnancy.

9 Dr. Katz.

10 DR. KATZ: That is not a proven statement.
11 The lack of link between the stickers and whether
12 patients really got pregnancy tests because we were
13 told earlier that when doctors' offices were
14 checked, they did have pregnancy tests on the
15 chart, which was my initial question, because when
16 people are asked on that survey, that onerous
17 survey, whether they had pregnancy tests, they may
18 forget that the pregnancy test was included in the
19 blood tests.

20 I have had people ask me, oh, was that the
21 pregnancy test, too, and they have to be told that.
22 A lot of times when they get the regular blood

1 tests, you don't repeat, now, this time I am
2 getting a CBC, hepatic profile, triglycerides, and
3 pregnancy test. You are repeating the blood tests,
4 and reminding them about the pregnancy. They may
5 not have that, they may disconnect that.

6 So, we are getting this disconnect data
7 from the questionnaires of 28 percent of people
8 that return that, that said no, I got the stickers,
9 but I didn't get the pregnancy test. Well, that is
10 not necessarily true.

11 DR. GROSS: Anyone else have any comments
12 on the stickers per se? Dr. Bergfeld.

13 DR. BERGFELD: I would like to say I like
14 the stickers, and I like the stickers because it is
15 an imprint on the physician that when you have to
16 move to using the stickers, you have to be
17 constantly reminded of your responsibilities. So,
18 it is a reminder to the physician.

19 I would also like to comment that I would
20 like to see addressed on the next folding out of
21 whether it be a registry, a registry and survey,
22 that you look very carefully at what you really

1 want to glean from that, and I will definitely say
2 has to be simplified and easy to read.

3 Included in that, the physicians need some
4 kind of flowchart that they can attach to their
5 medical record, whether it be paper or computer, so
6 that they can have a flowsheet that these records
7 just don't go in a patch-like way into the
8 patient's record. It would be very helpful to have
9 a drug list record.

10 Thank you.

11 DR. GROSS: Dr. Raimer, did you have a
12 comment on stickers?

13 DR. RAIMER: I did. I just wanted to
14 reiterate something that was brought up yesterday.
15 I think we should continue to re-educate the
16 physicians also. It has been almost two years
17 since most of us signed up for the S.M.A.R.T.
18 program. I think you should have to re-enroll
19 every year.

20 I think it should be an on-line program
21 where you actually take a little test and you have
22 to say, yes, I realize the second pregnancy test

1 has to be done during the menstrual cycle.

2 I think the doctor should have to get all
3 the answers correct before they get the stickers.
4 They can take the test as many times as they need
5 to, but, you know, just a short exam to be sure
6 they know all the facts and be re-educated every
7 year, and then they should get a sticker that is
8 good for a year, have to redo it every year.

9 DR. GROSS: So, this is a different kind
10 of sticker. This is a sticker for the physician,
11 not the patient.

12 DR. RAIMER: No, it is the yellow sticker.
13 You get a supply of yellow sticks from the company.
14 So, you get your resupply of yellow stickers each
15 year after you have passed the test, just to be
16 sure you remember all the things you are supposed
17 to do, but a flowsheet would not do the same thing.

18 DR. GROSS: That is a new suggestion.
19 Would anyone else like to comment on that?
20 Basically, annual recertification of people who are
21 using Accutane or related drugs, should that be
22 part of a program that we are going to recommend?

1 DR. WHITMORE: I second that idea and
2 would say that the stickers can just expire one
3 year from the time they are sent out.

4 DR. GROSS: Yes.

5 DR. WILKERSON: A couple of comments at
6 the risk of drawing ire from the pharmacy lobby. I
7 mean the role of the physician is to diagnose and
8 to prescribe. The role of the pharmacist is to
9 fill the prescription according to proper labeling.
10 The pharmacist is not a clinician.

11 I would really hate to draw pharmacists
12 into this any more than they have. Their job is
13 not to do the doctor's job, to be sure that the
14 patient has had their pregnancy test.

15 That lands squarely on the shoulders of
16 physicians to be sure that patients are following
17 the guidelines. It is not the friendly pharmacist
18 down the street who should be entering into the
19 exam room to make sure that the patient is doing
20 what they should be doing, and the doctors should
21 be doing.

22 I do like the stickers. I think it is

1 like a badge. It indicates to the patient that I
2 have taken some additional study, I know what I am
3 prescribing here, and I am the one who can
4 prescribe this for you.

5 I like Dr. Bergfeld's idea about having
6 some type of flowsheets that prompt physicians and
7 nurses to order the right test and to be sure that
8 the things are done in a timely fashion.

9 These stickers or special prescription
10 pads, however we want to look at this, I think is
11 the other thing. We could look at a triplicate
12 form, such as used in many states for narcotics, is
13 yet another way to track physicians and to track
14 enrollment of patients in the data bank.

15 DR. CRAWFORD: Dr. Wilkerson, yes, you are
16 about to draw some ire. I just must respond as an
17 associate professor in the college of pharmacy and
18 as a pharmacist.

19 I agree that the pharmacist's role is not
20 to diagnose. I disagree that the pharmacist is not
21 a clinician; if anything, I think the role of the
22 pharmacist should be increased in the risk

1 management program because it has been brought
2 up--I didn't particularly agree with the comment
3 yesterday that the pharmacist should be a
4 policeman, but the pharmacist is the last step
5 typically in the drug use process before it gets to
6 the patient, and the dispensing process is much
7 more than simply filling the prescription.

8 It also involves or should involve patient
9 education in case there are comprehension problems,
10 patient counseling in case there is a need for
11 customization. It was not determined at the
12 prescriber-patient relationship where the
13 pharmacist may get back in touch with that
14 prescriber, but I disagree with the fact that it is
15 just a technical process.

16 DR. GROSS: Any other comments on Dr.
17 Raimer's suggestion of annual physician
18 recertification by I guess some simple,
19 straightforward tests?

20 Dr. Bigby.

21 DR. BIGBY: I think it's a good idea.

22 DR. GROSS: Brevity is the soul of wisdom.

1 Any other comments? Ruth.

2 DR. DAY: There would be a way to combine
3 the sticker with the flowchart idea and also meet
4 some other concerns about what does a sticker mean
5 in terms of the qualification date.

6 Each sticker could be at the top of an 8
7 1/2 by 11 piece of paper, and to peel it off to put
8 on somewhere, there is a checklist, so the
9 physician would check through each thing that has
10 to be met because at present, if you have looked at
11 that sticker recently, it just says that you are
12 prescribing this based on whatever is in the
13 contraindications and warnings of the package
14 insert.

15 So, if there was a checklist that the
16 physician checked off and then took off the sticker
17 and put it on the prescription, that would be very
18 good, and that checklist could then be dated and
19 put in the patient's file at that time.

20 So, this is in the interest of decreasing
21 the paperwork load and the pieces of paper floating
22 around. It could all be together, and that would

1 be documentation of what happened on that day.

2 DR. GROSS: Other comments on Dr. Raimer's
3 suggestion? Mr. Levin.

4 MR. LEVIN: I just want to make a
5 suggestion that we are talking a lot about changes,
6 and yet we have two programs to draw on that are
7 managing risk, we think, better than this effort
8 has.

9 So, I would like to suggest that rather
10 than spending a lot of time with each of us coming
11 up with our little or not so little, major ideas,
12 and I have lots of them about what could improve
13 this program, that we really learn from the
14 experience with the S.T.E.P.S. program and the
15 clozapine program, and then come back together and
16 say do those solutions begin, using those programs,
17 those approaches begin to offer us an opportunity
18 to build on experience where, by the way, there is
19 data, because whatever we are proposing here, we
20 are not going to know its effectiveness for another
21 couple of years.

22 I would be remiss as a consumer advocate

1 not to express my annoyance, to put it mildly, at
2 the fact that we are here discussing the lack of
3 data because after the Advisory Committee in the
4 year 2000, and I was part of that process, asked
5 for a lot of what we are talking about asking for
6 today, and which, in fact, Roche today is coming
7 forward and saying we are willing to do.

8 If that had been done when the Advisory
9 Committee had asked it to be done, we would have
10 much better data to have this discussion with. So,
11 I just want to caution that all of these things we
12 are suggesting which are new will need time to get
13 evidence that they are successful or not, and in
14 that interim, more people are going to be hurt
15 because we haven't taken an action.

16 We have a responsibility to prevent
17 further injury if we can prevent it, and it seems
18 to me that we have an opportunity to learn from two
19 programs, which as far as I know have been
20 apparently more successful in controlling risk and
21 still permitting appropriate access.

22 So, I would suggest that we have lunch and

1 then listen to a description and explanation of
2 those programs' successes and failure, and then
3 come back and draw on that experience where we
4 actually have data that backs up various parts of
5 those programs' successes and failures, and then
6 have a discussion.

7 DR. GROSS: Mr. Levin is hungry, so why
8 don't we recess because we don't want to have an
9 unhappy committee member. We can all sate our
10 appetites and we will see you--do you want an hour
11 for lunch--let's get together at 12:30.

12 [Whereupon, at 11:45 a.m., the proceedings
13 were recessed, to be resumed at 12:30 p.m.]

1 A F T E R N O O N P R O C E E D I N G S

2 [12:35 p.m.]

3 DR. GROSS: Dr. Uhl will make the
4 presentation on risk management programs that Dr.
5 Kweder mentioned earlier.

6 Dr. Uhl.

7 FDA Presentation

8 DR. UHL: We have been asked to try and
9 address the program that is used to monitor and to
10 dispense Thalidomide. Up here with me is Carl
11 Kraus. Carl is a medical officer from the Division
12 of Special Pathogens and Immunologic Drug Products.
13 Carl is the medical officer in CDER for
14 Thalidomide.

15 I am going to go through a couple of
16 slides and then Carl is going to go through more of
17 the intricacies of the program for Thalidomide.
18 Dr. Trontell will address clozapine.

19 [Slide.]

20 The program for Thalidomide is called
21 S.T.E.P.S. It is the System for Thalidomide
22 Education and Prescribing Safety. The company that

1 manufactures and distributes Thalidomide is the
2 Celgene Corporation. I am not sure if there is
3 anyone in the audience from Celgene, but if they
4 are, it will obviously be the Chair's prerogative
5 if he would like them to address any questions, as
6 well.

7 [Slide.]

8 In your briefing package, there was
9 information provided about the S.T.E.P.S. program.
10 This is just to reiterate what are the program
11 objectives for S.T.E.P.S.

12 The objectives include to prevent fetal
13 exposures to Thalidomide, to educate regarding the
14 risks of Thalidomide, to provide procedures to
15 reduce the risk of fetal exposure to Thalidomide,
16 to identify at-risk behaviors by surveying patients
17 and prescribers, and to provide a mechanism for
18 intervention and remediation when at-risk behaviors
19 are identified in S.T.E.P.S.

20 The S.T.E.P.S. program is also a mechanism
21 for restricted distribution.

22 [Slide.]

1 I am going to walk through the original
2 S.T.E.P.S. program very briefly. There is now a
3 new program that has been implemented.

4 The original S.T.E.P.S. program, very
5 briefly, the patient had the physician visit, the
6 consent is signed. This is a consent by the
7 patient to participate in the S.T.E.P.S. program.
8 A prescription is provided, and a pharmacist, who
9 is registered within the program, is able to
10 dispense the product.

11 A survey is provided to the patient with
12 the dispensing of the medication. The drug is
13 dispensed to the patient. This survey subsequently
14 is completed by the patient and is given to the
15 Boston University Slone Epidemiology Center. They
16 review this survey and take action as to some of
17 the responses that the patient has provided.

18 [Slide.]

19 Very briefly, there were some problems
20 identified with the old S.T.E.P.S. program, and
21 there were areas of improvement that were
22 specifically targeted. For example, the Boston

1 University survey identified at-risk behaviors
2 basically after the drug was dispensed.

3 There was a time delay to identify these
4 at-risk behaviors and to intervene, which was felt
5 to be suboptimal, and the Boston University Slone
6 Epidemiology Center's survey, the primary focus was
7 not for real-time patient intervention.

8 There were other areas of improvement,
9 such that the program's design could do more to
10 assure the compliance with the program procedures,
11 and the example of this is the pregnancy tests that
12 are required with the S.T.E.P.S. program.

13 I erroneously spoke yesterday that the
14 patients have two pregnancy tests prior. They
15 actually have one pregnancy test within 24
16 hours--that pregnancy test must be done within 24
17 hours of the patient getting a prescription for
18 Thalidomide. Then, the patients have weekly
19 pregnancy tests for the first month, and then
20 monthly thereafter.

21 The frequency of testing is a little bit
22 different if you are a woman who does not have

1 regular menses.

2 The original S.T.E.P.S. program, there
3 were limited risk group classification, basically
4 just based upon male or female. It did not include
5 strategies that targeted this. This is adult
6 females of childbearing potential who would
7 obviously be at a different risk for pregnancy to
8 adult females not of childbearing potential.

9 There were other things that were
10 identified such that the program didn't utilize
11 current technologies to target specific risk groups
12 and interventions for specific risk groups. There
13 were issues with current technologies about record
14 availability, storage, management, archiving, et
15 cetera, and then also the efficiency, quality of
16 accounting, auditing, reporting of the S.T.E.P.S.
17 activities.

18 [Slide.]

19 So, a new S.T.E.P.S. program was launched
20 July 30th of 2001. These were basically
21 modifications to the original S.T.E.P.S. program.
22 Many of the elements were the same. These are some

1 of the similar elements.

2 There is registration of all prescribers,
3 all pharmacists, and all patients within the
4 S.T.E.P.S. program, that is, anyone who is involved
5 in writing for the drug, dispensing the drug, or
6 receiving the drug are registered within the
7 program.

8 There are educational materials, which
9 includes brochures and videotapes. There are
10 materials for all three elements - prescribers,
11 pharmacists, and patients. There is the issue of
12 patient counseling and education. There is a
13 limited supply, such that patients get a 28-day
14 supply, and the Thalomid comes in a blister pack.
15 It is a unit of use packaging.

16 There is also a mechanism for follow-up of
17 suspected fetal exposures whether the patient be
18 male or female with a toll-free number for
19 notifying Celgene.

20 It is interesting to bring this up in that
21 there is not a distinction between pregnancy or
22 positive pregnancy test, and what Celgene focuses

1 on in the Thalidomide S.T.E.P.S. program is a
2 positive pregnancy test, hence, getting around your
3 issue of what is the definition of pregnancy when
4 you are near the Potomac River. The flag for the
5 S.T.E.P.S. program is a positive pregnancy test.

6 Other of the same elements is that there
7 is no blood donation, and the issues of
8 contraception for females of childbearing
9 potential, and the use of condoms for males who are
10 taking the drug.

11 The frequency and periodicity of pregnancy
12 testing was not changed with the implementation of
13 the new S.T.E.P.S. program.

14 [Slide.]

15 What the new S.T.E.P.S. program did was to
16 have more classification along patient risk
17 stratification. Adult females of childbearing
18 potential, adult females not of childbearing
19 potential, female children of childbearing
20 potential, female children not of childbearing
21 potential, adult males, and male children.

22 If you remember from my slide yesterday

1 about the demographics of Thalidomide users, the
2 age distribution was from 1 to 100.

3 The new S.T.E.P.S. program has consent
4 forms that are computer generated, and they are
5 generated specific to the risk category for the
6 patient who is to receive Thalidomide.

7 There are specific information that get
8 entered, such as the patient's date of birth, the
9 address, and the diagnosis for which the drug is
10 being used to treat.

11 What is mandatory is that the patient and
12 the physician and the pharmacist must participate
13 in the registry, and they must use this telephone
14 interactive voice response system, which Celgene,
15 the company, administers and performs interventions
16 based on this IVR. I have a subsequent slide to
17 talk about the IVR.

18 There is then a patient follow-up survey,
19 which is performed by the Boston University Slone
20 Epidemiology Center. This survey is not mandatory,
21 it is optional, and Dr. Mitchell can certainly
22 address this a little bit more, the issues that

1 they have had with doing the survey and some of the
2 targets to get to quality assurance and program
3 evaluation.

4 But the distinction here is that the
5 registry has mandatory elements for all patients,
6 providers, and pharmacists, but the survey is
7 optional, is not mandatory.

8 [Slide.]

9 The IVR is a technology that uses
10 interactive voice response system. It uses an
11 automated telephone-based survey. This is
12 administered by the company Celgene. The survey
13 questions are tailored to the patient's specific
14 risk group.

15 The patient calls in, as well as the
16 pharmacist and the physician. They call in to this
17 number. They have an identifier that they enter
18 for the patient. It is a unique identifier that is
19 based on their Social Security number.

20 According to what the patient keys in, in
21 this IVR, it asks specific questions to get at
22 at-risk behavior, and if there is patient at-risk

1 behavior identified, it triggers real-time
2 interventions to Celgene, whereby the patient is
3 transferred to an actual person who will talk to
4 them about their at-risk behavior.

5 The IVR system is also used by physicians
6 or the physician administrator to enter the results
7 of the patient's pregnancy test. The IVR system is
8 also used by the pharmacist to get the information
9 that that prescription has been activated and get a
10 dispensing number.

11 Dr. Kraus will walk you through some of
12 the elements of this complicated--

13 DR. KRAUS: It is not as complicated as it
14 may seem, I think.

15 [Slide.]

16 Initially, what occurs with the S.T.E.P.S.
17 program at the initial physician visit is the
18 informed consent process occurs after discussion of
19 the risks and benefits of Thalidomide therapy, and
20 the consent is signed.

21 Of note, after this visit, the physician
22 is required to call into the IVR system and answer

1 a number of questions that are related to the
2 physician side of the IVR system.

3 The prescription is provided only after
4 the patient has a negative pregnancy test within 24
5 hours, as well as having instituted some type of
6 highly effective therapy for contraception at least
7 three days prior to the prescription being written.

8 So, the consent is signed, and that is
9 called in to the IV, the physician calls in to the
10 IVR, and when I say that, after the consent is
11 signed, the patient also calls in to the IVR. I
12 think I wrote that on the second little arrow
13 there.

14 Then, once the two parties, the physician
15 and the patient, have called in to the IVR system,
16 a number is generated that the physician writes on
17 the prescription, which quote, unquote, "activates"
18 the prescription, so that when the script is taken
19 to the pharmacy, the pharmacy recognizes that this
20 indeed is an activated script, will call in to
21 verify that with the IVR, and then Thalomid is
22 given for a 28-day supply.

1 Now, at the initial institution of the
2 system for the patient, there is weekly pregnancy
3 testing for the first month. Assuming they are all
4 negative, then, it goes to monthly thereafter.

5 Any time during the compliance
6 evaluation--and I consider the IVR system to really
7 be a compliance issue as opposed to the quality
8 assurance of the survey which would follow--there
9 can be flagged IVRs, in other words, the most
10 common reason for flagging is an outdated pregnancy
11 test.

12 So, basically, if the pharmacist plugs
13 into the IVR the date of the pregnancy test and it
14 doesn't comply with the seven-day requirement prior
15 to giving the prescription, then, a flag will go
16 up. The pharmacist will be put in touch with a
17 Celgene telephonic representative, and the script
18 can be re-evaluated.

19 Either the patient has to go get another
20 pregnancy test or they call the physician and see
21 if there is a more recent one. Typically, that
22 patient will not be given Thalidomide until an

1 adequate pregnancy test has been performed.

2 I put two things in yellow here, Celgene
3 mails initial survey with unique identifier. That
4 has not yet been implemented, and a blinded patient
5 was sent to Slone has not been implemented yet.

6 Basically, what is going to be occurring,
7 the identified information on the patient will be
8 provided to the Slone Epidemiology Unit to be
9 mailed out for the follow-up survey, and only
10 Celgene will have and maintain the list as a full
11 registry, but Slone will not as far as who these
12 patients are to be more in accordance with HIPAA
13 compliance, and so forth.

14 That is sort of the gist of this new
15 S.T.E.P.S. program. I am more than happy to
16 entertain any questions you may have on that.

17 DR. GROSS: Are there any questions? Yes.

18 DR. BERGFELD: I have a question of you if
19 you don't mind. Could you tell me the numbers of
20 patients involved in this study?

21 DR. KRAUS: Sure.

22 DR. BERGFELD: And the distribution of

1 age, particularly the reproductive female.

2 DR. KRAUS: I was expecting that question.

3 [Slide.]

4 Approximately 65,000 patients--that is
5 incorrect--it is actually 80,000 now, so the number
6 is outdated, since July 2001. Just looking at the
7 third quarter information from last year, there
8 were about 50,000 surveys completed, and when I
9 said that there can be flagging from the IVR, about
10 5 percent were flagged, and the majority, over 90
11 percent were related to outdated pregnancy tests.
12 Some were related to other pharmacy issues, and
13 some related to other IVR issues.

14 DR. GROSS: Why did you make the survey
15 optional in the new S.T.E.P.S. program?

16 DR. KRAUS: You mean going from mandatory
17 to optional. Much of it has to do with the fact
18 that in order to have all the appearances of being
19 a quality program for the FDA to ensure the safe
20 and effective use of the drug, and not to infringe
21 on the possibility of being misconstrued as
22 research, it was decided to make this into an

1 optional survey since the compliance portion of the
2 IVR is mandatory.

3 So, there really are two aspects of this.
4 One is the mandatory IVR portion, which all
5 patients, pharmacists, and physicians are required
6 to participate in, then, there is the optional
7 follow-up survey, which is a quality issue for the
8 program.

9 I think we had about 40 to 46 compliance
10 with the survey as far as follow-up goes. Not
11 everyone sent in the--

12 DR. KWEDER: It is a little confusing
13 because even on the slide, it is often call the IVR
14 survey, so it's like there is two surveys, but the
15 one that is associated with the IVR component is
16 not optional.

17 It is the follow-up survey that is
18 optional, and the reason that it is optional is
19 because--it used to be mandatory or was stated to
20 be mandatory--and OHRP raised significant concerns
21 about it because they felt that despite our
22 imploring that this was really a quality assurance

1 tool, they felt it was more of a research tool, and
2 if there was any intention to collect the
3 information and publish it in some way, so that it
4 might be useful for another program, that
5 constituted research, and therefore could not be
6 mandatory.

7 DR. GROSS: Dr. Cohen.

8 DR. COHEN: I would be interested in
9 knowing, well, first of all, how many patients are
10 on the S.T.E.P.S. program right now, are involved
11 with the S.T.E.P.S. program, and then, second, what
12 is your general assessment as far as acceptability
13 to patients, physicians, and pharmacists, what kind
14 of feedback are you getting from them?

15 DR. KRAUS: It should be very much
16 recognized that the patients that are enrolled in
17 S.T.E.P.S. are probably very, very different than
18 those that would be enrolled in Accutane risk
19 management program.

20 These patients typically take Thalomid for
21 four months of therapy. The majority of them are
22 oncologic in nature, and 90 percent or more are

1 taking this for some oncologic diagnosis whether it
2 be multiple myeloma, renal cell carcinoma, what
3 have you, and there is a significant amount of
4 interplay in a hospital setting, as well as an
5 intense oncologic clinic for interaction with the
6 S.T.E.P.S. program.

7 Now, when the physician enrolls in the
8 S.T.E.P.S. program initially, there is a designee
9 on the enrollment form that states who will be the
10 S.T.E.P.S. coordinator for that physician, whether
11 it be the physician himself, someone in the office
12 to assure compliance with the safety requirements
13 of Thalomid prescriptions.

14 DR. GROSS: Dr. Day.

15 DR. DAY: In those cases where there was a
16 flag and an intervention was then required in order
17 to continue, how long was the interruption of
18 treatment, and is there a window that is allowable,
19 and then can someone here comment on interruption
20 of treatment with Accutane and similar products,
21 what consequences that might have for the patient?

22 DR. KRAUS: If a flag occurred between

1 8:00 a.m. and 8:00 p.m., the hours of the manned
2 telephonic survey, there will be direct
3 intervention right then and there, and hopefully,
4 the problem can get resolved quickly.

5 If it occurs after 8:00 p.m., then the
6 script will no longer be valid until the following
7 day when intervention can occur.

8 DR. DAY: But the intervention might then
9 require additional action, such as an additional
10 pregnancy test, it was out of date by a day or
11 something like that. Do you have evidence about
12 interruption of treatment?

13 DR. KRAUS: I have no data on interruption
14 of treatment.

15 DR. GROSS: Robyn Shapiro.

16 MS. SHAPIRO: How is this paid for?

17 DR. KRAUS: How is this paid for?

18 Celgene. It is all company sponsored, yes.

19 DR. GROSS: Dr. Schmidt.

20 DR. SCHMIDT: This stuff is used for a lot
21 of skin diseases, too, for ENL, erythema nodosum
22 leprosum, prurigo nodularis, and lupus, and it is

1 actually quite effective, so we use it in patients
2 who are not, you know, cancer patients, and it's
3 about \$600 a month.

4 So, what I would like to know is how much
5 of that is the medication, and how much of this is
6 the program, and then the other thing is I have had
7 some older women on this thing, that one of them
8 called me one time and she said everybody else is
9 having all the fun, and I said what do you mean,
10 and she said, well, I got this survey that called
11 up and asked how many times I was having sex every
12 day.

13 So, some of these things, to me, she
14 thought it was real funny. I told her when they
15 called back again, to tell them with the football
16 team.

17 DR. GROSS: Actually, I have used the
18 S.T.E.P.S. program myself on one occasion for a
19 patient, and did not find it onerous. It was also
20 interesting. The patient had a survey that I did
21 not observe. The patient filled it out, put it in
22 a sealed envelope. I never knew what the patient

1 said, so I thought that was good.

2 Any other comments? Jackie.

3 DR. GARDNER: Perhaps we heard yesterday,
4 did you tell us how many pregnancies have occurred
5 on the S.T.E.P.S. program among the 80,000 people?

6 DR. KRAUS: There was one, and I know Dr.
7 Uhl, I think had a slide on that yesterday.

8 DR. KWEDER: There have actually been a
9 number of false positive tests on the program, and
10 the database is rich enough that you can actually
11 go in and determine that those were false
12 positives.

13 DR. GROSS: Mr. Levin, back from a full
14 lunch.

15 MR. LEVIN: Again, my appreciation to the
16 Chair.

17 I guess the question would be of FDA, is
18 it FDA legal counsel opinion that a mandatory
19 survey is going to be thought of as research,
20 because we have been talking about mandating a
21 survey, but if FDA is telling us that it is FDA
22 counsel's opinion that that is inappropriate

1 because it becomes research rather than quality
2 improvement, we should know that before we make a
3 recommendation, for example, that there be a
4 mandated survey if that is simply not going to
5 happen.

6 DR. KWEDER: I am not FDA counsel, I would
7 never pretend to be, but I think the general answer
8 to that question is if there is a survey, it needs
9 to be clear what the purpose of the survey is, and
10 that has to be directly related to safe use of the
11 drug.

12 For example, the IVR survey is clearly
13 that. The follow-up survey, which looks more at
14 some of the qualitative aspects of the program and
15 how information is communicated or not
16 communicated, really doesn't meet that standard as
17 clearly, despite the fact that we continue to
18 believe it is highly desirable in order to continue
19 to improve the program, and take away burdens that
20 may not be necessary.

21 So, that is not a direct answer to your
22 question, but we will work to ensure that the

1 elements that are mandatory are things that will be
2 of use to the safe use of the drug.

3 DR. GROSS: Dr. Whitmore.

4 DR. WHITMORE: I was just going to answer
5 Dr. Day's question about discontinuance for a short
6 period of time off Accutane. It makes no
7 difference. We dose based on a--for most of us I
8 think--dose based on a cumulative amount of drug
9 getting in over whatever period of time it is, so
10 for them to be off of it for a week is not going to
11 do anything.

12 DR. GROSS: Dr. Bergfeld.

13 DR. BERGFELD: I didn't hear the answer to
14 the denominator in the study of 80,000 individuals
15 who have participated actually in the program, and
16 you had one pregnancy, but how many were women in
17 childbearing age who could possibly get pregnant?

18 DR. UHL: Actually, we did present that
19 yesterday.

20 DR. BERGFELD: Would you repeat it?

21 DR. UHL: Yes, ma'am. The females of
22 childbearing potential are 5 percent of the

1 patients. It is approximately 4,000, and that has
2 been over the six years that the S.T.E.P.S. program
3 has been in practice.

4 DR. GROSS: Thank you.

5 Now, I believe the FDA has some
6 information has some information they want to
7 present on the Clozaril program.

8 DR. TRONTELL: The information that we
9 have on the clozapine program, I will invite Chad
10 Clark, if he is in the audience, to talk about the
11 specifics of how individuals are registered, which
12 is to clarify the distinction between a registry
13 and a survey.

14 In the case of clozapine, individuals are
15 tracked by their Social Security number. There is
16 a registry solely for those individuals who are not
17 to be rechallenged with the drug based on their
18 prior experience of a lowered white count with
19 that.

20 There is no survey because, in fact, some
21 component of patient behavior really doesn't apply
22 in the case of your white count. So, the

1 distinction that we wanted to make clear in the
2 discussions earlier, in which Dr. Kweder I think
3 has already articulated very well, registering a
4 patient for purposes of tracking, to know your
5 denominator is perhaps one process.

6 Collecting ongoing information pertinent
7 to the safe and effective use of the product, much
8 as is done through this IVR module with
9 Thalidomide, is yet another component of safety and
10 effective use, that is considered allowable and
11 able to be made mandatory as a condition of safe
12 use of the drug.

13 But when you talk about important
14 information that is pertinent about risk factors,
15 failure, mode and effects analysis that are
16 collected through the voluntary patient survey,
17 that is construed by the Office for Human Research
18 Protection, known as OHRP, is not something that we
19 can mandate for patients.

20 But if you want more particulars, I
21 apologize, we have some individuals with pharmacy
22 practice that can talk about their individual

1 experience of how you get registered. Let me also
2 make one clarification to my remarks yesterday.

3 It is pharmacies that are registered, not
4 individual pharmacists for the program.

5 Let me give one additional piece of
6 information that may or may not be pertinent to
7 some of this discussion. All of these programs have
8 less than 100 percent compliance documented with
9 them in terms of what happens at the pharmacy.

10 Occasionally, a product may be released
11 without the pharmacist having had the opportunity
12 to do the full check. That has occurred with
13 Thalidomide, it has occurred with clozapine, and we
14 had evidence to suggest that has happened with
15 Accutane, as well.

16 The system, as you have seen in the case
17 of Thalidomide, to date has one pregnancy exposure
18 among 4,000 women over a relatively extensive
19 period of time of its use.

20 DR. GROSS: Any questions or comments on
21 clozapine?

22 Hearing none, I would like to ask Roche if

1 they would briefly present four or five slides
2 showing the proposed program. Dr. Huber will
3 present.

4 Hoffmann- La Roche Presentation

5 DR. HUBER: Thank you.

6 I would like to point out that in the
7 design of this system, we did incorporate the
8 elements of the S.T.E.P.S. program, as well as the
9 clozapine, and as we walk through, I will try to
10 point out how they are linked in.

11 [Slide.]

12 First of all, I would like to point out
13 that this path across the top here, this registry
14 is analogous to the IVR registry of the S.T.E.P.S.
15 program. It is a single data place where the
16 interactions occur.

17 We have not specifically decided on IVR.
18 We are interested in hearing your input on that,
19 because it is not clear that a telephone is the
20 best interaction. We assume an IVR is probably the
21 basis, but there may be web-based and other
22 modalities available, but at this point in time, I

1 would say work under the assumption we are
2 basically talking about an IVR type system.

3 The initial visit is analogous to the
4 S.T.E.P.S. program in that there is a determination
5 of childbearing. There is a screening pregnancy
6 test, and this is literally a first pregnancy test
7 to make sure the patient is not pregnant before
8 they even start. There is no point in getting them
9 going down the pathway if we already know they are
10 pregnant.

11 Education, informed consent. This is
12 basically what we do now in the S.M.A.R.T. program,
13 and the same thing is also occurring in the
14 S.T.E.P.S. program.

15 The patient then gets entered. This is a
16 registered physician, and this gets entered into
17 the registry.

18 [Slide.]

19 You will get a patient ID back. We were
20 intending that the system would generate a patient
21 ID number to avoid privacy issues such as use of
22 Social Security numbers.

1 [Slide.]

2 Once the physician receives that ID
3 number, this interaction with the system is what
4 they are describing in the S.T.E.P.S. program as
5 this IVR survey that the patient does.

6 We have not designed the detailed
7 questions that go here yet, the methodology used.
8 The intent is that these questions would measure
9 some form of compliance with the program. In other
10 words, they would be questions about did the
11 patient understand, are they on contraceptives, are
12 they using them appropriately, et cetera.

13 There is a lot that has been developed
14 over the past five years, and how you can do this
15 maybe a little better. Randomness of the
16 questions, so patients don't memorize patterns,
17 variation on scripts.

18 The intent would be that this data would
19 be asked the patient, they would answer. Their
20 responses are captured in the registry, so in
21 parallel, this is doing two things. There is an
22 intervention here in which you are potentially

1 identifying an at-risk patient, but at the same
2 time you are building the data set that you can use
3 for assessing overall what patients are the highest
4 risk, for example.

5 This occurs once again into the same
6 registry, very analogous to S.T.E.P.S.

7 [Slide.]

8 The patient then goes and sees the
9 physician. At this point, they do a
10 laboratory-confirmed pregnancy test. This is the
11 same concept as clozapine. In S.T.E.P.S., the
12 physician basically does an attestation that there
13 is a negative pregnancy test and enters I believe
14 the date.

15 We are asking actually that the pregnancy
16 test result go into the system. As was mentioned
17 yesterday, there are some concerns about how the
18 mechanism of this is done. We don't want to have
19 delays, so it may be an interaction with the system
20 to call and say there is one, and then a follow-up
21 with the fax.

22 Ideally, you would love to have, if you

1 have electronic laboratory databases, electronic
2 transfer, there are some fundamental issues with
3 that, but the intent will be, in this registry up
4 here, will be a laboratory-confirmed negative
5 pregnancy test, as well as the script will get
6 dispensed with the qualification sticker is what we
7 propose now and the patient ID.

8 [Slide.]

9 So, the registered pharmacy, as analogous
10 to S.T.E.P.S., verifies this, essentially, checks
11 it is authorized, and what the system will tell him
12 when he calls in, is was there a patient ID
13 registered, did the patient get through this test,
14 and was the laboratory test negative.

15 We are proposing that that be a yes/no
16 question in the system. One of the concerns from a
17 privacy point of view, as was stated several times,
18 it is one thing to walk to a pharmacist with a
19 white blood cell count, we are very concerned with
20 walking into a pharmacist and handing him a
21 pregnancy test.

22 The other thing is we don't want the

1 pharmacist necessarily to get the pregnancy result
2 here, because we think it would be somewhat
3 embarrassing if the pharmacist was the first one to
4 inform the patient at the counter that they are
5 pregnant.

6 We think it would be more appropriate that
7 that result be channeled back to the physician, and
8 if the patient does get to a pharmacist, it is
9 simply no, you need to call your doctor.

10 We do not have an additional survey
11 intended into this system. Our intent is that the
12 data that needs to be collected regarding
13 compliance with various patterns, with behaviors,
14 et cetera, we believe that should be captured as
15 part of the overall process.

16 Once again, its intent is dual. It is an
17 intervention, but then we can also collect data for
18 assessment.

19 Thank you.

20 DR. GROSS: Thank you, Dr. Huber.

21 What you just described is summarized on
22 your presentation from yesterday, for the

1 committee, on page 82 and 85, if anyone wants to
2 look at that.

3 Questions? Dr. Bergfeld.

4 DR. BERGFELD: Thank you.

5 This presentation of the possible registry
6 and the initial visit through the follow-up, et
7 cetera, this is a combined program of all of the
8 isotretinoin producers?

9 DR. HUBER: Yes, we would envision a
10 single process.

11 DR. BERGFELD: And that would include also
12 redoing the patient information, physician
13 information sheets, which would also be a combined,
14 or would you still have separate everything?

15 DR. HUBER: I think we would have the
16 patient educational materials being combined.
17 There may be some discussion on details of that.

18 DR. KWEDER: What we would like to hear is
19 what you think about that.

20 DR. BERGFELD: I think that is what should
21 happen.

22 DR. KWEDER: What should happen?

1 DR. BERGFELD: That it should be a
2 combined effort, that it is too confusing to us to
3 have all these different groups with different
4 things that we have to do.

5 One combined package for the whole drug
6 isotretinoin is the way we would like to go.

7 DR. GROSS: Any other questions? Dr.
8 Bigby.

9 DR. BIGBY: Two questions. One thing that
10 I missed, in this system, how is it ascertained
11 when a woman gets pregnant?

12 DR. HUBER: None of the current risk
13 management programs ascertain when a woman gets
14 pregnant. The only thing we can do is detect
15 pregnancy prior to dispensing of the product for
16 the next treatment.

17 So, what you do--it's a 30-day cycle, we
18 may end up modifying it to 28, we can discuss
19 that--but at the end of the day, basically, on a
20 monthly average is when the patient will get seen
21 by a physician, have a pregnancy test, and receive
22 one month of treatment.

1 That is very analogous to Thalidomide for
2 the second treatment on.

3 DR. BIGBY: The other question I had is in
4 the booklet, on page 55, there is a description
5 about the education in the first 30-day period, and
6 it says, "This includes patient viewing of the
7 isotretinoin video, review of comprehensive written
8 materials, and isotretinoin pregnancy prevention
9 and risk management for women," et cetera.

10 Where do you envision that people view the
11 video?

12 DR. HUBER: Generally, that is done in--my
13 understanding is that is offered in the physician's
14 offices. I would defer to the dermatologists how
15 they handle that.

16 DR. GROSS: Dr. Day.

17 DR. DAY: Evidently, the percentage of
18 people who view that video is very low. I don't
19 have the accurate data, but I understand it is in
20 single digits percent. So, if you can comment on
21 that, and also if we were to go forward with this
22 program as you have envisioned it, how long would

1 it take to implement? So, thinking about the
2 patients who would still be continuing under the
3 present plan while the implementation is taking
4 place.

5 DR. HUBER: Your first question, with
6 regards to the video is low, but now that we are
7 actually spending more time with the behaviorist as
8 opposed to some of the other people we are
9 traditionally talking with, drug safety, that is
10 too surprising we are finding. Videos are actually
11 fairly ineffective. As an educational tool, a lot
12 of people just don't watch videos.

13 One of the reasons, when we developed
14 this, it was a supplement, it was never intended as
15 the primary tool. So, one of the things we are
16 looking at is we do have multiple modes of
17 teaching. I mean there already is the booklet,
18 there is the other educational materials, and there
19 is the video. Exactly how that will be handled
20 going forward, I do not know.

21 With regards to implementation, it
22 somewhat depends upon the level of the complexity

1 of the program that is agreed upon. I would have a
2 hard time giving you--it is not something that gets
3 done overnight, let's put it that way.

4 DR. DAY: Well, we can appreciate that,
5 but just in the basics of what you have told us, is
6 it on the order of six months, a year, two?

7 DR. HUBER: You are usually talking 6 to 9
8 months is our understanding. If you know what your
9 design specifications are, you can get it done in
10 that time frame. The concern is if you start
11 changing details of the design and things, then, it
12 gets substantially longer.

13 DR. DAY: Well, more fleshing out of the
14 provision of how the patient is going to get the
15 materials would be a helpful component here. Short
16 of at the physician's office, having to go into a
17 separate room to watch a video, I mean just what
18 are the mechanisms? It would need to be specified.
19 I am not asking for right now.

20 DR. HUBER: We would envision that that
21 would continue as we pretty much do it today. We
22 provide the materials to the physicians, and then

1 they manage that to the patient for the upfront
2 materials.

3 DR. GROSS: Dr. Honein.

4 DR. HONEIN: Yes. Using the unique ID
5 numbers as you have proposed, how would you
6 identify duplicates within your system either
7 because of multiple courses of treatment or
8 prescriptions from different physicians, or even
9 potentially longer term subsequent treatments by
10 women who have previously had an exposed pregnancy
11 during it, which maybe you would want to identify
12 for separate intervention?

13 DR. HUBER: If I understand the question,
14 it would be how do we identify a patient, for
15 follow-up, we would see them in the system because
16 we assume they would go back to the same physician.

17 DR. HONEIN: But they might not.

18 DR. HUBER: If they come back from a
19 different physician, that is an issue. If they
20 would go through multiple physicians, how we would
21 identify that it was the same patient in the
22 system, that gets very difficult unless you start

1 having true identifiers of the patients in the
2 system.

3 DR. HONEIN: How about a second course of
4 treatment a year later? You would expect the
5 physician to maintain the link to that ID numbers
6 and be able to locate that a year later?

7 DR. HUBER: Well, we hadn't actually
8 thought through that, but on the other hand, we
9 didn't see that as an issue, because from our point
10 of view, the important thing was the pregnancy risk
11 management through each course of treatment was the
12 focus of the design.

13 DR. GROSS: I have a question for you.
14 Have you considered using the six risk groups that
15 are in the S.T.E.P.S. program including adults and
16 children, men, and women?

17 DR. HUBER: No, at this time not. We will
18 probably focus on females of childbearing potential
19 as a single risk group. One of the advantages of
20 this proposal is given the volume of data we will
21 have, which will be substantially larger than the
22 experience S.T.E.P.S. has, we would hope that we

1 would be able to identify more quickly patterns
2 that point out specific high risk groups, and then
3 we may need to adapt to that.

4 MR. LEVIN: Just a point of clarification
5 on the issue of duplication. The registry is not
6 anonymous, am I right, there would be patient
7 information within the registry, it is only the
8 unique number that goes out?

9 DR. HUBER: Yes.

10 MR. LEVIN: So, theoretically, if I am
11 correct, you would still have a way of spotting or
12 flagging a duplicate. I mean you have enough
13 information that you would recognize that that is
14 the same patient coming back into the database.

15 DR. HUBER: The problem is accessing that
16 information, can a physician go in and search and
17 see if that patient already exists, and I just
18 can't answer that question.

19 MR. LEVIN: Couldn't the registry do that?
20 That is what I am getting at. In other words, the
21 information goes forward to the registry, the
22 registry has other demographic information that

1 identifies a patient specifically, it seems to me
2 it is taken care of.

3 The registry can do the search and say
4 whoops, you have been in here before with this
5 number.

6 DR. HUBER: My technical people are saying
7 yes, we could do that.

8 DR. GROSS: Brian.

9 DR. STROM: Two questions. In the system
10 you are proposing, who are you proposing as the
11 enforcer? In other words, who is the primary
12 ultimate body who is responsible for making sure
13 that the patient gets the pregnancy test before the
14 drug gets dispensed?

15 DR. HUBER: At the end of the day, in this
16 system, if the pregnancy test is--I mean the
17 pharmacist has to go into the system prior to
18 dispensing, so I guess in answer to your question,
19 if the pharmacist doesn't see the system say it's
20 okay to dispense, they won't dispense the product.

21 So, from that point of view, the final
22 check is the pharmacist to ensure that the registry

1 has okayed the patient.

2 DR. STROM: Let me respond to it in two
3 ways, and then I have a second question. One is
4 the fact that you had to pause to think about it.
5 The second, which relates, is in the current
6 system, in the S.M.A.R.T. system, the pharmacy is
7 also the enforcer via the sticker system, and it is
8 not working.

9 So, I guess my concern is in whatever
10 system--and obviously, there are lots of details to
11 be worked out--I think where the current system has
12 failed is having a clear enforcer who has a vested
13 interest in making sure it happens, and I am
14 concerned about making the pharmacist the enforcer.
15 I am concerned, it is not fair to them, they are
16 not being paid for it, and it is also not
17 necessarily feasible. That is what happened in the
18 sticker system, and it sounds like that is what you
19 are proposing again.

20 DR. HUBER: Maybe I am misusing the word
21 "enforcer." What we are relying on is the system
22 will identify is there a negative pregnancy test

1 done that meets the time window criteria. The
2 pharmacist's role in this will be to make sure that
3 the patient has indeed qualified within the system.

4 The difference is in the sticker system,
5 the sticker represents a physician attestation that
6 a pregnancy test was done. So, you have two
7 potential sources of error. One was upfront, the
8 physician on the sticker, the second was the
9 pharmacist in looking at the sticker.

10 We are not eliminating all potential
11 sources of errors this way. What we are trying to
12 do is, one, at least eliminate the upfront one
13 because there has to be a laboratory test result,
14 which overrides, shall we say, the physician
15 attestation on a pregnancy test, and on the back
16 end, we are trying to make it as simple as possible
17 for the pharmacist, so he doesn't have to interpret
18 data, he gets a yes/no answer.

19 DR. STROM: Again, how does the data, the
20 hard link that you talked about of the pregnancy
21 test, get into the system?

22 DR. HUBER: What we are envisioning is

1 that there probably has to be a two-step process to
2 that, because, one, we had talked about having it
3 go directly from the lab to the system. One of our
4 concerns was if there was a pregnancy test, we
5 really think the physician needs to know about it.

6 So, we think the pregnancy test needs to
7 go via the physician, but there probably, in order
8 to close this loop of the hard certification, there
9 needs to be some way to enter either the
10 information directly into the system from the lab,
11 or that there is a fax copy or something to follow
12 up.

13 DR. STROM: I guess my own preference
14 would be to reverse it. Certainly, you want to
15 make sure the physician knows, but I wouldn't have
16 the system dependent on the physician. I think the
17 hard data should go directly to the registry, and
18 while you are at it, notify the physician, so the
19 physician knows about it, so that there is a
20 positive, so there really is a hard link.

21 My second question is when I read through
22 the description, and we heard you present it

1 yesterday, I was a lot less reassured. Now,
2 hearing it in the context of the S.T.E.P.S.
3 program, it sounds much closer.

4 Can you nail down for me what the
5 differences are between this and the S.T.E.P.S.
6 program, and in what way is it not the same as the
7 S.T.E.P.S. program?

8 DR. HUBER: S.T.E.P.S. does not require a
9 certified laboratory test. It is a physician
10 attestation into the system.

11 Secondly, S.T.E.P.S. requires weekly blood
12 tests the first treatment. We are not proposing
13 that. The third difference--that is the two
14 differences. The third element that will come up,
15 the difference is in the distribution of the
16 product, because we are in a multi-source
17 environment versus a single source environment.
18 That is one of the issues we are going to have to
19 kind of sort out, because that is novel for this
20 approach.

21 DR. KWEDER: I would add the other
22 differences are S.T.E.P.S. enrolls everyone. This

1 would only enroll female patients.

2 DR. HUBER: No, our current proposal
3 includes males and females.

4 DR. KWEDER: You didn't say that before.

5 DR. HUBER: I am sorry, I apologize.

6 DR. KWEDER: And you also don't have the
7 follow-up survey, correct?

8 DR. HUBER: Our focus on this was on the
9 interventional elements while the patient is
10 getting treated. With regards to the follow-up
11 survey, the other point I would like to bring up on
12 the mandatoriness of that, it kind of comes back to
13 the question that was raised yesterday about the
14 30-day follow-up.

15 The problem with any follow-up survey is
16 we can say it is mandatory, but the ability to
17 enforce it is almost nil, because if the patient
18 doesn't have to come back to receive a product,
19 they don't have to do anything.

20 So, we can make them sign and say it's
21 mandatory, but at the end of the day, the reason
22 the patient is going to show up for their blood

1 test and answer the questions on the IVR is because
2 if they don't do that, they don't get isotretinoin.

3 So, one of our concerns was is any of
4 those follow-up surveys, you are going to get back
5 into significant issues of will patients
6 participate. We see this as focusing much more on
7 the intervention, the pregnancy prevention aspects.

8 We think we should be able, with this
9 approach, to get data, the data you are looking for
10 as part of the ongoing intervention during the
11 treatment.

12 DR. GROSS: You just said that males will
13 be included. Are you going to recommend male
14 contraception, too?

15 DR. HUBER: With regards to male
16 contraception, we do not recommend male
17 contraception. You received the copy of our
18 report. That report has been submitted to the FDA
19 in I believe 2001. We have done multiple
20 investigations, both clinically and preclinically,
21 and we do not see evidence of a risk from a
22 paternal exposure to a female.

1 I would like to remind you the drug is not
2 a genotoxin, so it doesn't have an effect on sperm,
3 so the only risk would be transmission via seminal
4 fluid. When we have investigated, the exposure
5 from seminal fluid is one million times lower than
6 a single 40 milligram dose, so based on that data,
7 we don't see a risk.

8 When we reviewed the case data, we have
9 not seen--we have seen isolated malformations, but
10 please remember malformations do occur in the
11 population, but in the 20 years out there, we have
12 yet to see a paternal-exposed pregnancy in which
13 the triad, the classic triad of a retinoid
14 embryopathy, as described by Lammer [ph], has
15 occurred.

16 DR. GROSS: Are there any comments from
17 the generic companies?

18 MR. POLLOCK: Thank you.

19 A couple of things I just want to point
20 out, so everybody is just aware of it, is the
21 generics and the brand name companies first got
22 together to start talking about this on December

1 10th, when we were called in to the FDA.

2 From an operational standpoint, people had
3 mentioned the fact that we might not have the
4 details worked out. Well, we don't. I mean it has
5 been amazing to get to this point, I think, with
6 five different companies, six different companies
7 in this period of time.

8 So, we are thankful for all the
9 cooperation, but some of the questions you pose, we
10 might not have answers for because we haven't been
11 able to fully consider them ourselves, and we have
12 learned a lot, I think, from the Advisory Committee
13 comments and things of that nature.

14 To harken on Dr. Kibbe's comments, this is
15 a fairly complex program. We have to again I think
16 just recognize the impact on the physician, the
17 patient, and the health care system that is going
18 to be providing these things, because we don't want
19 to force people outside of the area.

20 So, I would just like you to always kind
21 of keep that in the back of your mind.

22 The other issue is--and I raised this

1 yesterday--Marty described a system where the
2 educational component and the responses were going
3 to be tied into this yes/no determination. This
4 was one of the things we asked for your input on.

5 If there is a patient that has an
6 inappropriate response during the educational
7 component, but has a negative pregnancy test, we
8 would like your advice on what to do with that
9 patient.

10 Should the patient receive the drug and
11 perhaps automatically a letter be fired off by the
12 registry system itself back to the physician
13 indicating this is a high risk patient, here is the
14 questions they answered wrong, you need to counsel
15 this patient?

16 If the patient fails the second time,
17 maybe that would be the no drug contingency. But
18 we would like you to also consider that, as well.

19 Those are the issues that we think are
20 very important to keep in the back of your minds
21 when we are evaluating where we are going to go and
22 how we are going to get there, and whether or not

1 it would be appropriate even to move in a stepwise
2 program--that was kind of a pun, I guess, I didn't
3 mean stepwise--a uniform program over the course of
4 time.

5 Thank you very much.

6 DR. GROSS: Thank you.

7 Dr. Whitmore.

8 DR. WHITMORE: I would remind Dr. Huber
9 that 32 percent of the pregnancies that occurred,
10 occurred during that last month after treatment
11 with Accutane. I think somebody had mentioned that
12 after one month, it is okay to get pregnant, so
13 those issues are not important.

14 But coming back to this, 32 percent of the
15 pregnancies did occur in that 30 days after
16 Accutane therapy, which is a critical period, and
17 we still have no mechanism by which to address that
18 as far as these women coming back.

19 I would suggest maybe some type of
20 monetary gift to patients when they come back at
21 one month or something and have their pregnancy
22 tests done, but I think that really does need to be

1 addressed considering it's a third of the patients
2 who do get pregnant.

3 One other thing, too, about the
4 computerized system and everything, in terms of the
5 logistics of the pregnancy test, getting to the
6 pharmacy and everything else, this is going to be
7 very expensive. Robyn Shapiro asked who was paying
8 for the Celgene program, and the answer was
9 Celgene, but that's not true. That's patients and
10 insurance companies or whoever. So, patients are
11 going to be paying for this program whatever it is.

12 I would suggest that every patient who
13 does receive a prescription with a sticker has to
14 come back to the office to pick that up after the
15 pregnancy test has been done. Thus, we can give
16 them a copy of the pregnancy test, they can take
17 that to the pharmacist with them.

18 That will eliminate any embarrassment
19 about a positive pregnancy test, going to the
20 pharmacy without the physician knowing about it,
21 the patient knowing about it, and it can all be
22 hand-carried to them.

1 The pharmacy is well aware of the Accutane
2 Pregnancy Prevention Program, the stickers, and the
3 whole bit. All you have to do is add in a
4 pregnancy test required to fill the prescription
5 for it, and then you don't have to have this
6 expensive program.

7 DR. GROSS: Robyn Shapiro has a question,
8 and I have a question for her. As the ethicist on
9 our committee, do you have any comments you would
10 like to make in that regard as far as the child or
11 the mother?

12 MS. SHAPIRO: I do, and I was going to ask
13 you to ask me that, but, first, can I ask my
14 question, my other question?

15 Getting back to the expensive interaction
16 program, which is along the lines of what I had
17 suggested just a little while ago, to ensure, I
18 hope--I mean it is still pretty vague, so whoever,
19 Roche or generics, whoever wants to answer this
20 question--what would you be looking for?

21 Would you be looking for both
22 comprehension, as well as suggest compliance or

1 noncompliance, and then, two, if there is a problem
2 with respect to one or another, my own response to
3 the request for input from us about what to do,
4 would be to circle that back to the dermatologists,
5 both to enhance, enrich, and inform that
6 relationship, and because I think it would be
7 inappropriate for a computer or a program, or
8 whatever it is, to countermand an order that had
9 been submitted from a doctor on account of the
10 interaction with the program.

11 DR. HUBER: With regards to your question,
12 the first draft of questions will be modeled
13 somewhat analogous to the S.T.E.P.S. program
14 current questions. Once again, we are trying to
15 build on a program that is already in place, and
16 they already have an IVR interaction for questions.

17 Clearly, this is a relatively new science
18 in doing this on testing for compliance for
19 pharmaceuticals through IVR. Anything that is
20 learned from that, we would appreciate, and
21 anything that this committee has to say as
22 recommendations on how to do those questions

1 better, we would be interested in knowing.

2 With regards to the latter part of your
3 comment, that is something that has always bothered
4 us is at the end of the day, the physician is
5 ultimately responsible for the education and
6 information for the patient.

7 We are now adding in, shall we say, a
8 little test along the way to see if the patient
9 really got it, and also reinforcement. That is
10 difficult for us, and we are struggling with that
11 whole concept. When we look at the S.T.E.P.S. as
12 the model, that is what they are doing, and we are
13 basing that on that approach.

14 There is not a lot of other choices of
15 things that have been modeled previously, and kind
16 of using the basic thoughts of we don't want to get
17 too experimental here. That is the one approach
18 that has been tried in a population.

19 MS. SHAPIRO: Again, personally, I think
20 it's okay to do a little test as long as the
21 remedial response is put in the lap of the doctor,
22 and not you.

1 DR. HUBER: Yes, agreed.

2 MS. SHAPIRO: Your request, and you know,
3 as a disclaimer, like any good lawyer would do, I
4 guess, this may confuse more than help, but we are
5 struggling with how can we accept that we are not
6 going to have zero pregnancies, and if we do accept
7 that, what number is good enough.

8 In order to do that, we need to weigh and
9 balance, of course, the benefits of the Accutane to
10 the patient, and I think we are probably all pretty
11 convinced that there are significant benefits, to
12 the harms.

13 When we get to the harms, we have really
14 potentially two individuals, as well as society, to
15 take a look at. We have the potential harm of the
16 woman who has to raise an impaired--this is if we
17 fail to prevent pregnancy 100 percent--has to raise
18 an impaired child, and the life of the impaired
19 child, and the burden or the harm to that child of
20 that life, and the burden to society.

21 If we are successful 100 percent in
22 preventing pregnancy, no one has those burdens. If

1 we are not, the woman has a choice. We could, but
2 I hope we don't, get into a conversation about
3 abortion at the moment, but she does under the
4 current state of the law in the country have a
5 choice about whether to continue with that
6 pregnancy or not.

7 If she chooses to terminate, then, she has
8 the burden of going through that, which clearly is
9 significant, as well. The child is spared, there
10 is no child, so that harm goes away, as I suppose
11 does the harm to society to a certain respect.

12 If she chooses not to, can't, won't have
13 an abortion, then, she bears the burden of going
14 through the pregnancy and raising an impaired
15 child. In response to that, if we are good at what
16 we are trying to do, which is to fully inform and
17 provide a way for her to avoid that, in part, that
18 is her responsibility and then her choice.

19 But she has been forewarned, the child, on
20 the other hand, hasn't. So, in some ways, one
21 might see the harm to the impaired child as being
22 more significant than the harm to the woman who is

1 in the position of having to raise the child.

2 How do we place a value on or get our arms
3 around the burden to the child? What does that
4 mean? What is the importance? What is the gravity
5 of that? That is where we really have a problem.

6 If we analogize to what courts have done
7 in wrongful life lawsuits, and typically, these
8 lawsuits are brought when there is a failure to
9 inform about a potential genetic test or something
10 like that, and the woman is deprived of that
11 information, so doesn't have information about
12 which she can base an abortion decision on.

13 An impaired child is born, and the child
14 will then sue and say, doctor, had you only told my
15 mother about these options, I wouldn't have been
16 born, but I am, and therefore I want bunches of
17 money because this is a terrible burden to me.

18 Many more jurisdictions than not will not
19 act on the lawsuit, will not provide that child any
20 recovery because the judge will say you are putting
21 me in the position of having to say that any life,
22 while impaired, is worse than no life at all,

1 because the option, the alternative in your
2 situation, you plaintiff child, is that you would
3 not have been born. I will not say that not having
4 been born is more valuable than life while
5 impaired.

6 This, to me, just shows the difficulty in
7 getting our arms around the nature of the harm that
8 we are trying to prevent here, which makes it all
9 the more important that we do a really good job in
10 preventing the situation in the first place, so
11 that we are not left weighing and balancing this
12 abortion decision, and what if, and what if not,
13 and what is the value of the harm to the child that
14 is born.

15 DR. WHITMORE: May I ask a question?

16 DR. GROSS: Yes.

17 DR. WHITMORE: I am sorry, of Robyn
18 Shapiro. What do you think of having that
19 information, just the gravity of that information
20 with regard to having an impaired child and raising
21 that child if indeed you got pregnant when on
22 Accutane or otherwise having to have an abortion

1 because of the pregnancy occurring during Accutane
2 therapy, what do you think of having that on the
3 consent form just to give the patient the gravity
4 of what we have been discussing here today?

5 MS. SHAPIRO: If that were doable, I think
6 it would be great. I mean I am all for more
7 information again mostly, so that we can ensure a
8 real reasoned decision upfront, and therefore
9 compliance with what we are urging them to do, and
10 not have to grapple with these horrible sensitive,
11 unanswerable question later.

12 DR. CRAWFORD: Thank you. I have just a
13 few comments about the patient registry and a
14 question about the patient process.

15 With respect to the registry, I think one
16 of our responsibilities is to recommend advice with
17 respect to what entity should be responsible for
18 registration and maintenance of a registry if it
19 existed.

20 My opinion is that I would agree with what
21 others have said, it must be a consolidated system,
22 one program meaning there will be the need for

1 negotiation and agreement as to the components of
2 it, ideally administered by qualified, third-party
3 vendor or contractor.

4 In addition to helping to achieve program
5 goals, that would help allay any concerns that
6 anyone might have about potential promotional use,
7 which I am sure is not the goal of any of the
8 sponsors, but sometimes there are questions about
9 that, not on the ethics part, but that process
10 would also include what information should be
11 collected, such as things Dr. Shapiro and others
12 were saying, and how the information of the
13 registry would be used to prevent embryonic
14 exposure.

15 My question, living in Chicago, I know
16 that many languages are spoken by patients and
17 their practitioners. My question is if the patient
18 cannot comprehend English or Spanish, would they be
19 excluded under the described program from receiving
20 the drug or would the physician be able to work
21 with those patients on a case-by-case basis.

22 DR. HUBER: We have discussed English and

1 Spanish, we have not discussed any languages beyond
2 that at this point in time.

3 DR. CRAWFORD: I am sorry. To make my
4 question clear, I am not expecting the program to
5 necessarily be able to adapt to any language as
6 opposed to would there be a different mechanism,
7 more one-on-one with the practitioners if it was
8 believed the patient needed the drug therapy and
9 couldn't understand English or Spanish.

10 DR. HUBER: I don't know the mechanism.
11 We would be happy to hear if the committee has any
12 recommendations on that.

13 Committee Discussion (Continued)

14 DR. GROSS: I am trying to move along
15 here, and I think we can call on the next few
16 people that have some questions, but I am beginning
17 to get a sense that we are in the process of
18 answering Question 3.

19 I was asked to take a vote on the slide on
20 the bottom of page 3. Let's just do that one and
21 then we will talk more about the particular
22 program.

1 The statement on that slide says, "Should
2 we continue the current risk management program
3 without additional tools?" I think I know the
4 answer of the group, but I think each person is
5 going to have to declare themselves.

6 So, let me read the question again, and
7 then starting with the sated Mr. Levin, should we
8 continue the current risk management program
9 without additional tools?

10 If you vote no, that means we don't want
11 to continue the current risk management program.

12 Mr. Levin.

13 MR. LEVIN: Arthur Levin. No.

14 DR. SAWADA: Kathy Sawada. No.

15 DR. VENITZ: Jurgen Venitz. No.

16 DR. STROM: Brian Strom. No.

17 DR. BERGFELD: Wilma Bergfeld. No.

18 DR. RAIMER: Sharon Raimer. No.

19 MS. KNUDSON: Paula Knudson. No.

20 DR. BIGBY: Michael Bigby. No.

21 DR. HONEIN: Peggy Honein. No.

22 DR. COHEN: Mike Cohen. No.

1 DR. WHITMORE: Beth Whitmore. No, but not
2 with the proposed plan.

3 DR. GROSS: We are not there yet.

4 MS. SHAPIRO: Robyn Shapiro. No.

5 DR. EPPS: Roselyn Epps. No.

6 DR. SCHMIDT: Jimmy Schmidt. No.

7 DR. CRAWFORD: Stephanie Crawford. No.

8 DR. GROSS: Peter Gross. No.

9 DR. WILKERSON: Michael Wilkerson. No.

10 DR. RINGEL: Eileen Ringel. No.

11 DR. VEGA: Amarilys Vega. No.

12 DR. DAY: Ruth Day. No.

13 DR. KIBBE: Arthur Kibbe. I am forced to
14 say no, but I really would rather have had a vote
15 between this plan and another one, so I had
16 something to compare it to, because this is better
17 than nothing.

18 DR. GROSS: We will meet your needs
19 momentarily.

20 DR. GARDNER: Jackie Gardner. No.

21 DR. KATZ: Robert Katz. No.

22 DR. SELLERS: Sarah Sellers. No.

1 DR. GROSS: That is about as unanimous as
2 you can get. There are some more questions that we
3 will then apply to the fact that we are going to
4 recommend something different.

5 Michael Cohen.

6 DR. COHEN: I guess touching on what Dr.
7 Strom mentioned earlier about the enforcer and
8 workloads, et cetera, and where they might lie, do
9 you have plans if an enhanced program is
10 implemented to interact with the medical and
11 pharmacy community, get feedback?

12 A few times people alluded to failure mode
13 and effects analysis. Do you have plans to conduct
14 that and involve practitioners in that process? I
15 am asking that of industry.

16 DR. HUBER: One of the first steps would
17 be the establishment of a scientific advisory
18 board, which we have had for all of the previous
19 risk management programs. We would intend that
20 that would include stakeholders in the program, as
21 well.

22 There would need to be some interaction

1 with the dermatology community, the pharmacy
2 community, et cetera, but we would see that as
3 something done in parallel to the scientific
4 advisory board as part of that activity.

5 DR. COHEN: And the concept of failure
6 mode and effects analysis? In other word,
7 developing this process, flow diagram a little bit
8 further and then going back and trying to determine
9 where failures might occur in that process, and
10 then come up with a way to prevent those failures.

11 I think you do need an advisory group to
12 do something like that.

13 DR. HUBER: Yes.

14 DR. GROSS: I have been advised to try to
15 keep the discussion among the committee, and not go
16 back to industry for answers unless it is
17 absolutely necessary.

18 The next person, Dr. Honein.

19 DR. HONEIN: I am very concerned that they
20 don't plan to do a follow-up survey as a component
21 of this for a couple of reasons. One, I think
22 during the interactive process to get the

1 prescription, the really only alternative is for
2 the patient to give the best case scenario plan, to
3 things like what do you plan to do for
4 contraception, both socially desirable responses,
5 and maybe their intentions, they don't get followed
6 through upon, whereas, a survey after the fact can
7 get at what did you really do, during the course of
8 treatment.

9 While some people may still give socially
10 desirable responses, at least you have the
11 opportunity to let them sort of look back on it and
12 provide the best information.

13 My second concern is since we are already
14 under-ascertaining pregnancies, that this would
15 increase the under-ascertainment. I think if a
16 woman diagnoses her own pregnancy during the course
17 of treatment, she is not going to go back to the
18 system for the next refill. She is going to go to
19 a separate health care provider that deals with
20 that pregnancy, and where does the system find out
21 about this.

22 The follow-up survey is one more

1 opportunity to locate that. With that regard, I
2 was wondering if we could refresh our memory on
3 what proportion of the pregnancies we know about
4 now came from the follow-up surveys, after the
5 fact.

6 DR. GROSS: Does FDA have any information
7 on that?

8 DR. KWEDER: Can you state the question?
9 I got all the beginning, but the question again.

10 DR. HONEIN: Of the pregnancies that we
11 know about in total, exposed to isotretinoin, how
12 many of those do we know about because of the
13 follow-up survey rather than another mechanism?

14 DR. TRONTELL: As Dr. Pitts described
15 yesterday, the majority of reported pregnancies to
16 the Agency come via the manufacturer. The
17 minority--we can pull up the slide to give you the
18 percentage--but my recollection, it is about 20
19 percent come by the follow-up survey.

20 DR. HONEIN: Right, but I think that would
21 be a big loss to lose 20 percent of the pregnancies
22 that we know about now by not doing that follow-up.

1 DR. GROSS: I think when we come up with a
2 final plan, you can put that in as a suggestion to
3 be part of the plan.

4 Dr. Gardner.

5 DR. GARDNER: In Dr. Huber's response to
6 Dr. Strom, there was something of concern to me,
7 and that was that the pharmacist would be asked to
8 interact with the registry system in order to
9 further document the negative pregnancy test.

10 I think this builds in another potential
11 for failure in that the pharmacist now has a yellow
12 sticker that we have discussed, that has, in
13 theory, the physician's documentation that there
14 has been a negative pregnancy test, whether it does
15 or not.

16 If we now ask the pharmacist to take that
17 and do an additional step, and that is to
18 double-check that information against the registry,
19 which is what I thought I heard from Dr. Huber,
20 then, I think that we are building in another point
21 of potential failure there, some 55,000 pharmacies
22 in the U.S., and many of them are high volume.

1 Yesterday, in the FDA presentation, we
2 learned that of the places where there were
3 problems with stickers coming incorrectly, they
4 tended to be to high-volume pharmacies and to rural
5 pharmacies. My guess is that adding an extra step
6 in those circumstances where we are already seeing
7 where some problems lie, would ask for trouble.

8 So, I would suggest that whoever mentioned
9 that the pregnancy test result loop should go back
10 to the physician who then attests on the sticker or
11 something else, so the pharmacist has one thing to
12 look at, and that is it, I think would reduce that
13 potential.

14 DR. GROSS: Mr. Levin. Mr. Levin went out
15 for a snack.

16 Dr. Kibbe.

17 DR. KIBBE: As soon as Mr. Levin comes
18 back, I will give him a chance to jump in.

19 I have just a couple of observations about
20 what we have been doing for a while. First, you
21 cannot test quality into any system, and the
22 pregnancy test that we do prior to initiation of

1 therapy assures that the patient at least is not
2 pregnant when they start.

3 Pregnancy testing during therapy seems
4 like a QA test to me, and it's a QA test of whether
5 the patient is behaving appropriately in terms of
6 not getting pregnant.

7 That is never going to change the
8 patient's behavior and prevent the pregnancy, it is
9 just going to tell us when it happened, and then
10 what do we do about it, and it is my impression
11 that by the time we find out, the damage is done
12 and we have to do all sort of other things, so that
13 is not even helping us get to what we want, which
14 is no pregnancy, it is just testing for it, and
15 testing just to prove that something is going wrong
16 is just--an awful lot of what we talk about around
17 here is changing behavior, but everything I hear
18 them talking about in the program is changing the
19 behavior of the physician and the pharmacist, and
20 what we really want to do is what?

21 It is change the behavior of the less than
22 1 percent of women who, when they are counseled on

1 how to behave during taking this drug, somehow
2 don't get the job done. So, that, we need to focus
3 on a little more.

4 I wanted to get back to my ethicist here,
5 because I know that some of my ideas, I admit
6 freely that they might sound draconian, but if the
7 result is draconian, then maybe the cure is
8 draconian.

9 So, would it not be a lesser harm to
10 society and to the individual if we require anybody
11 of childbearing age who wants to take this drug to
12 have a permanent IUD put in before and removed two
13 months after, so that we close down the loop.

14 If we can identify people at risk,
15 wouldn't that be a better way of maintaining the
16 zero pregnancy option or at least getting close to
17 zero pregnancy than trying to do a lot of things,
18 and education never works 100 percent of the time.

19 MS. SHAPIRO: From a theoretical point of
20 view, you are probably right, or, you know, give a
21 shot or something like that. The problems that we
22 encounter are, first, what are the risks or side

1 effects of that. I don't know.

2 Second, in this country, in the law and in
3 ethics, we tend to accord reproductive
4 decisionmaking a lot of latitude in terms of
5 freedom of choice and privacy, and so forth. So,
6 that might--I am not saying that you couldn't do
7 it--but I think it would not be an easy sell from a
8 PR point of view.

9 DR. GROSS: Mr. Levin.

10 MR. LEVIN: Two things. One is a caution
11 about loading up informed consent documents with
12 lots of information and the assumption, which I
13 think is disproved in the literature, that informed
14 consent does what it is intended to do. I mean I
15 think there is a lot of stuff that has been written
16 and a lot of taking a look again at how the
17 informed consent process works, as well as how IRB
18 processes work.

19 The other thing I would like to reiterate
20 what I said before the lunch break, which is it
21 seems to me that we may all have our personal ways
22 of sort of trying to tweak this system, but they

1 are not based on any evidence.

2 I would once again emphasize that we sort
3 of have a responsibility to patients taking this
4 drug to make decisions based on the best possible
5 evidence that they are actually working to prevent
6 the outcomes that we are committed to preventing.

7 So, I think we really ought to look at the
8 existing programs and only nibble at them with
9 changes if we believe there is something about them
10 inappropriate to this particular population and
11 drug.

12 But I think it is a good place to begin
13 and I think Roche has constructed a program that
14 comes pretty close to sort of borrowing a lot from
15 S.T.E.P.S. and a little bit perhaps from the other
16 program.

17 I just want to emphasize that it's
18 evidence based and that we have data that tells us
19 that that approach may be an effective approach,
20 not that it can't be improved, and to suggest again
21 a hypothesis of what we would like this to look at,
22 that have no evidence is simply going to delay this

1 process even more and mean that more patients will
2 be hurt in the intervening years until we get data
3 to prove whether our suggestions were workable or
4 not.

5 DR. GROSS: Art, since you are moving us
6 in that direction, the other part of Question 3 is
7 what would we propose. So, why don't we consider,
8 let's say, accepting the Roche Risk Management
9 Program and decide whether there any additions that
10 need to be made to it, such as making sure that
11 males are included and what you want to do about
12 making a survey mandatory, et cetera, if we could
13 perhaps direct our comments to those issues.

14 There are a couple other people that
15 wanted to comment. Dr. Bergfeld.

16 DR. BERGFELD: I was only going to address
17 the foreign-speaking individuals who might need
18 Accutane. I think they need to be handled on a
19 case-by-case basis. I think most of those
20 individuals, depending on their geographic
21 location, might be referred into tertiary care
22 centers where there are interpreters, and

1 frequently, in some of the rural areas, there are
2 foreign-speaking nurses, so we are taking care of
3 these people at the present time.

4 DR. GROSS: Sarah Sellers.

5 DR. SELLERS: I am sorry, are we on the
6 actual Question 3?

7 DR. GROSS: We are on page 4, the top
8 slide.

9 DR. SELLERS: My comment was given the
10 goals of the pregnancy risk management program, to
11 ensure continued access to a drug that has been
12 proven to be effective in patients who suffer from
13 severe nodular acne, is there a model or is there a
14 mechanism, or indeed does the FDA have the
15 statutory authority to restrict the use of the drug
16 to its labeled indication, and then provide a
17 mechanism for treatment IND to off-label use.

18 DR. GROSS: Does anyone from FDA want to
19 answer that?

20 DR. KWEDER: Yes, I can answer that. We
21 do not regulate the practice of medicine, and
22 off-label uses generally have historically been

1 considered practice of medicine issues.

2 What we usually do when we are trying to
3 influence the practice of medicine is we restrict
4 the labeling or we impose other kinds of programs,
5 such as the ones that have been discussed today, to
6 try and minimize a use that is not consistent with
7 labeling.

8 So, in terms of ensuring, for example, if
9 you look at one of the examples presented today was
10 Thalidomide. Thalidomide is not approved for the
11 treatment of any oncologic condition, but the vast
12 majority of uses are for treatment of different
13 kinds of cancers, particularly multiple myeloma.

14 We have not found that we are in a
15 position to be able to restrict those uses.

16 DR. GROSS: Dr. Ringel.

17 DR. RINGEL: It is sort of hard to get
18 anybody's attention deep in the recesses of the
19 table, so I have actually collected quite a few. I
20 will try to go through them quickly.

21 One is that people need to remember that
22 there are practitioners who are in rural areas and

1 their patients may live very far away, and I would
2 ask, when you make the rules, please don't make the
3 rules so that patients need to come back the next
4 day to pick up X or Y, you know, the pregnancy test
5 results, the prescription. Don't make them make
6 trips just for silly things like that.

7 I would think fax could be an option for
8 some of those things, faxing a prescription with
9 the sticker on it to the pharmacy, something or
10 other. I think that is an unreasonable burden.

11 The other thing is that I think the first
12 pregnancy test is problematic because the value of
13 a negative first pregnancy test is basically
14 worthless if the patient has conceived within the
15 week before that test.

16 The two ways the FDA has decided that that
17 won't happen is, number one, to make sure the test
18 is taken during the menstrual period, and, number
19 two, to make sure that they have been on two forms
20 of contraception for a month before that test.

21 We have done nothing to address that those
22 have happened, so I have these proposals, and I

1 think actually that happens a lot. I think that
2 people who, for example, have been on birth control
3 pills, why make them wait a month to use a second
4 form of contraception, how silly, except it is not
5 silly. I think that actually people go on Accutane
6 in less than a month after that first visit quite
7 often.

8 So, what I would suggest is two things.
9 First of all, the pharmacist, when he or she checks
10 the prescription to make sure that a pregnancy test
11 is there, can also make sure that it has been a
12 month since the patient registered, because it
13 needs to be at least a month between that
14 registration date and the date they have picked up
15 those pills to know that they have had a month to
16 be on two forms of contraception.

17 The other--and I am not sure if this would
18 work, but it is just an idea--people want to get on
19 this stuff, they don't want to wait until they have
20 their menstrual period. Would it be possible to do
21 urine pregnancy tests and then do a dipstick for
22 blood assuming that that specimen was done without

1 a tampon? You would know the patient is
2 menstruating, at least you could verify that.

3 There was another issue brought up about
4 nobody is addressing how to keep people from
5 getting pregnant while they are on the drug, and it
6 seems to be an issue of education. How do you
7 educate the patient to both understand the issues
8 and to believe that they really can get pregnant
9 just on one form of contraception or none?

10 What I would suggest there is that the FDA
11 fund some educational studies. There are various
12 ways that I can imagine to try to convince people
13 that it might be a good idea to be on two forms of
14 contraception, but I can't tell you which one would
15 work, and I would think that funding small studies
16 to find out what educational methods are really
17 most effective might be a quick and cost effective
18 way of doing it.

19 Last but not least, given the last
20 discussion, I am not sure this would work, but
21 seeing the three people from the community who
22 testified today, the man who had birth defects, and

1 those two poor women, it is very difficult for me
2 to justify giving this drug to any acne patient who
3 does not have severe scarring, either nodular or at
4 least papular, pustular acne.

5 I know, and you know, that many of the
6 prescriptions for women who are using this
7 medication, are used for those other purposes. If
8 that weren't true, the number of males being
9 treated would vastly outweigh the number of females
10 being treated, but that is not the case. Almost by
11 definition, the females are being treated for less
12 severe acne with Accutane.

13 I think that Dr. Wolfe's suggestion about
14 faxing photos may not be the worst thing in the
15 world. Almost everybody has a digital camera, it
16 would be easy to do. Frankly, I don't think that
17 you would even need to make a decision, oh, well,
18 this guy has severe enough acne or that guy
19 doesn't.

20 I think if people just had the
21 responsibility of knowing that someone else was
22 going to look at those photos, sort of knowing that

1 big brother is watching, I think that the rate of
2 Accutane use in females would go down dramatically.

3 DR. GROSS: Dr. Ringel, you have brought
4 up a number of excellent points that we will have
5 to consider when we come up with our final plan.

6 I am going to take two more comments and
7 then I am going to ask you to consider voting on
8 Roche's plan as an initial ingredient of the plan,
9 and then come up with other areas that you think
10 should be added to the plan, if that is your
11 pleasure.

12 The next two comments will be Dr. Strom
13 and Dr. Day.

14 DR. STROM: Thank you. In follow-up of
15 that, I very much agree with the idea of Roche's
16 plan as a core, but share Jackie's concern, and
17 want to follow up on Jackie's concern and the
18 comments I made before, that the plan is still
19 counting on the pharmacy essentially to be the
20 enforcer.

21 It is the pharmacy that has to do the
22 work, that has to check whether they are pregnant

1 or not, that has to sign into the registry if that
2 is the case, and get that information. You are
3 talking about tens of thousands, 50,000 pharmacies
4 you said?

5 DR. TRONTELL: 55,200.

6 DR. STROM: 55,200 pharmacies with many
7 more pharmacists. It is a system which is bound to
8 break down. It is also a system where people are
9 not being paid for their time, and the pharmacists
10 are now doing it out of good will, but, in fact,
11 are very busy and very stressed out, and you are
12 adding more to some very busy people.

13 So, I would argue that that plan should be
14 augmented by a system of a more selective system of
15 pharmacy dispensing. It can be multiple options,
16 and I would recommend multiple options, a
17 centralized system whereby you could use mail
18 order, for example, and/or a specialty pharmacy.

19 There is increasing use of specialty
20 pharmacies where pharmacists are paid more to
21 provide a particular kind of care, and I would have
22 the registration system basically be a

1 certification of specialty pharmacies, that these
2 pharmacies would get paid extra for doing this, but
3 would have the obligation and expectation of doing
4 it accordingly.

5 So, for the patient in a rural area, there
6 would be a centralized system that they could get
7 it from a mail order system. Many people might use
8 the mail order system indeed, but I wouldn't
9 necessarily think we need to restrict it to just a
10 mail order access.

11 I think the use of what is increasingly
12 common in terms of specialty pharmacy makes sense.
13 So, let's make sure that the person who is the
14 enforcer has a vested interest in doing the
15 enforcing and is paid for that interest, because
16 right now that is not happening.

17 DR. GROSS: Dr. Day.

18 DR. DAY: In the component that tests
19 patients' knowledge, I think more work needs to be
20 done. Everything that I have seen presented is
21 about being able to give back information that is
22 already provided, so that factual knowledge or

1 repetition even.

2 I think we need to have more complete
3 comprehension, which would involve making
4 inferences and perhaps giving scenarios, say, if
5 you did this, and then that, would it still be all
6 right to take the medication, and so forth. So, I
7 think a more careful look at the comprehension
8 component.

9 I guess I will save the last part of my
10 intended comment for when we add additional tools.

11 DR. GROSS: Let's take the Roche handout
12 on pages 82 and 85 that I referred to before.
13 Let's take a vote on whether or not we would agree
14 to propose that as a core program that would apply
15 to all people who are candidates for Accutane or
16 the generic equivalent, so this will an addition to
17 that program. The same program applies to those
18 taking generic isotretinoin, as well as the Roche
19 product.

20 Stephanie.

21 DR. CRAWFORD: Thank you. I just need a
22 clarification with respect to I was looking at the

1 components because there are certainly some areas
2 that are very good and some that I don't think are
3 sufficient, need to be added to that, so we said,
4 you know, we wanted modifications initially, such
5 as I just don't want to be misunderstood if I voted
6 yes in terms of the components of the system.

7 There are certainly things I would want
8 changed, such as where it said "centralized
9 system," I want that specified as one consolidated
10 system for all the isotretinoin sponsor
11 manufacturers.

12 Also, we will need to address the issue of
13 a male patient registry. Is that part of it, or is
14 right now we are just looking at females, et
15 cetera?

16 DR. GROSS: The program is certainly going
17 to be added to from the initial. I don't want to
18 make things too confusing and vote on too many
19 things at once.

20 DR. STROM: Peter, as a point of order,
21 maybe it makes sense just to have people go around,
22 one by one, vote on this as a core, and for each of

1 us to describe what we would add to the system in
2 the process.

3 DR. GROSS: As they are voting.

4 DR. STROM: As they are voting.

5 DR. GROSS: Yes, that's fine.

6 Mr. Levin.

7 MR. LEVIN: My understanding from Roche's
8 presentation is that this is male and female, am I
9 correct? Okay. I would certainly vote yes in favor
10 of this as a core, and I think the most critical
11 addendum is what Brian just described as some sort
12 of centralized and specialized dispensing program
13 added to this core.

14 DR. GROSS: I am going to make a list of
15 the ideas that you are proposing be supplemented,
16 and then we will talk about them. So, it's the
17 Roche program, it applies to males and females, and
18 the Roche program will be used by Roche and by the
19 generic manufacturers.

20 DR. HONEIN: Is it mandatory?

21 MR. LEVIN: Absolutely.

22 DR. GROSS: Is what mandatory?

1 MR. LEVIN: Yes, I mean Roche's proposal
2 is a mandatory program.

3 DR. GROSS: Right, men and women and any
4 other sex.

5 DR. SAWADA: Kathy Sawada. I would agree
6 with this Roche program as a core program,
7 mandatory, applying to both male and female. I
8 still think that we need to work out a few things
9 with regard to pregnancy testing and dissemination
10 of that information. I will leave it at that.

11 DR. GROSS: Good, fine.

12 DR. VENITZ: Jurgen Venitz. I am in favor
13 of the core program, as well, again with the
14 stipulation that what is listed here is mandatory.
15 That includes registration of physician, patient,
16 and pharmacy.

17 I do think more effort needs to be
18 dedicated to the educational component to make sure
19 that it is not just an exercise in futility, but
20 there actually is learning occurring, and that the
21 learning outcomes are assessed, not the factual
22 repetition of knowledge.

1 I am also concerned, as was discussed
2 before, about patients past their treatment course
3 beyond the 30 days, that there should be at least
4 attempt to systematically follow up on those
5 patients.

6 DR. GROSS: It is understood that in this
7 program, registries are mandatory for physician,
8 patient, and pharmacist. Pharmacy? All right. We
9 may have to discuss that.

10 DR. STROM: Brian Strom. I am in favor of
11 the Roche program as a core program, again, both
12 genders. I think the two particular things I would
13 add is a mandatory follow-up survey and the limited
14 dispensing by a centralized dispensing system plus
15 specialty pharmacies.

16 DR. BERGFELD: Wilma Bergfeld. I am also
17 in agreement to the Roche program. I would like to
18 beg for the physicians that have to evaluate the
19 patients, that the packaging of the educational
20 materials, the consent forms, the pregnancy
21 recording forms, the flowsheets, the stickers, be
22 simplified for easy use and interpretation.

1 DR. RAIMER: Sharon Raimer. I have some
2 real qualms about the program as it is outlined. I
3 think it is going to be a very expensive way to be
4 sure that patients have negative pregnancy tests,
5 and I think you could get at the same thing by
6 having the pregnancy tests sent to the pharmacy or
7 having yellow stickers, have a box where you
8 actually have to put the date of the last negative
9 pregnancy test on it.

10 I would be more for it if there were more
11 of an educational component. I just don't see that
12 this gives the patient that much of an education
13 because they will learn the right answers in order
14 to be able to get the drug to answer the
15 questionnaire.

16 So, I think the number of phone calls it
17 is going to require, and the expense that it is
18 going to entail, is not justified in its present
19 form.

20 DR. GROSS: So that is no vote?

21 DR. RAIMER: That is a no vote.

22 MS. KNUDSON: I will vote yes for the core

1 program. I would like to also understand the
2 privacy and confidentiality that goes along with
3 the registry and urge that indeed we build in
4 sufficient safeguards for that.

5 I would like to also add would it be
6 possible to send out a newsletter, to draft a
7 newsletter centrally, send it out periodically to
8 the patients who are on the drug, reaffirming a lot
9 of the issues that are necessary for their
10 appropriate education.

11 Thirdly, I would like to be absolutely
12 certain that we have very tight inclusion criteria
13 before dispensing the drug.

14 DR. GROSS: Thank you.

15 DR. BIGBY: Michael Bigby. I actually
16 share Dr. Raimer's reservations about the program,
17 and I think a program needs to include a mechanism
18 for tracking and evaluating women who get pregnant.

19 I think it needs to capture and insist, as
20 Dr. Ringel said, that patients are, in fact, using
21 two effective forms of contraception while they are
22 taking Accutane, and I also think it is essential

1 that a plan be added to collect data on that last
2 month after Accutane has been discontinued.

3 DR. GROSS: So, I understand the things
4 you think should be added, but is your vote a yes
5 or a no as this being a core?

6 DR. BIGBY: No.

7 DR. GROSS: Dr. Honein.

8 DR. HONEIN: Peggy Honein. I would vote
9 yes to this as the core for the program, but I
10 think it is critical to have a follow-up survey
11 both to get better quality assurance data about
12 what is working in the program and what is not,
13 because I think there will be needs for
14 modifications down the road, and we need to have
15 the best data possible to make those decisions on,
16 and also as a tool to better ascertain pregnancies.

17 I would also like to see an additional
18 plan for what other mechanisms can be used to get
19 closer to the number of pregnancies that are
20 actually happening and do more complete
21 ascertainment of that.

22 DR. COHEN: Mike Cohen. I am for the core

1 program. I am against severe restrictions in
2 pharmacy access. I think, you know, all in all, we
3 have seen pharmacists have been doing a pretty good
4 job with it. I think there could be a voluntary
5 registration of pharmacies or willingness to
6 participate in it.

7 I also wish there was some way to indicate
8 in the registry whether or not the patient has
9 severe cystic acne. I realize that you can't
10 restrict the prescribing, but perhaps that still
11 could be included in some way.

12 DR. GROSS: So, your last comment goes to
13 the entry requirements, which we should address
14 after we are finished voting. Okay.

15 Dr. Whitmore.

16 DR. WHITMORE: Beth Whitmore. I vote no.
17 I don't think this will prevent pregnancies any
18 more so than a sticker and a pregnancy test
19 presented to the pharmacist. I think that it
20 should be mandatory that a physician reports
21 pregnancy to the FDA and also to the drug company
22 when it does occur, and I think that needs to be

1 said, that that is mandatory and prosecutable if it
2 is not done.

3 I think that should be in the patient
4 consent form that the physician will inform the FDA
5 and the company if the patient does become pregnant
6 during therapy, and there is something else that I
7 am forgetting--oh, the video.

8 The video has been lost in terms of I have
9 never seen it in our office. I was part of an
10 Accutane educational program, it's a one-day
11 seminar, and saw that video. It is my fault that I
12 haven't obtained the video and given it to every
13 single patient, but it is an excellent video, and
14 patients are more visually oriented than they are
15 reading all these documents.

16 I think that video should be given to
17 every woman. They can view it at home, and if not,
18 they can view it somewhere where they can get a
19 VCR.

20 DR. GROSS: Robyn Shapiro.

21 MS. SHAPIRO: I guess I vote yes with the
22 proviso, some which have been mentioned, that we

1 assure that there is something that is done with
2 respect to the last 30 days, that my own concerns
3 about the interaction in terms of identifying lack
4 of understanding and lack of agreement or
5 likelihood of complying have some appropriate
6 resolution, that that loop be tied.

7 Also, that we have some assurance that we
8 are going to be collecting data. I think that we
9 have suffered here in the last two days from lack
10 of data, and hopefully, this will help us get that
11 and maybe we should even think about a sunset date
12 for this particular plan to be re-evaluated in
13 light of data that is collected to see if it is
14 really doing anything although that may be
15 implicit, I don't know.

16 DR. EPPS: I vote no.

17 DR. SCHMIDT: I vote no with a oak leaf
18 cluster because I think that this is going to be
19 unbelievably expensive and I think some of these
20 registries, like this other program for
21 Thalidomide, is a nightmare.

22 I think that what Boni talked

1 about--excuse me, Dr. Elewski--I agree with that,
2 that we should have a survey, the survey should be
3 mandatory, and then one of the things is I really
4 wonder whether we ought to simplify this thing.

5 To me, I think one of the scariest things
6 with males is sharing their medication, but as far
7 as registering males other than that, I don't know
8 that we ought to really have them in the system.

9 DR. CRAWFORD: I vote yes, a qualified yes
10 with respect to the core components. The
11 additional thing I would like to ensure, that it is
12 a consolidated, single system. The evaluation
13 methods proposed I believe are insufficient, and
14 there needs to be improvements in evaluation
15 methods and the results used for program
16 modification as necessary.

17 Also, I believe there should be some
18 consideration of a case-by-case basis where some
19 patients simply may not be able to do this, such as
20 we talked about, perhaps with language
21 difficulties.

22 I am sorry, sitting between two physicians

1 for two days has made my own handwriting really
2 bad. I think I wrote the need for possible
3 recertification of the practitioners or
4 representative from the pharmacy either annual
5 biannual, or some mechanism, because one time may
6 not be enough to just reinforce the need for all
7 the steps.

8 DR. GROSS: Peter Gross. I vote yes.

9 DR. WILKERSON: Michael Wilkerson. Having
10 sat here for two days, I am astounded at the lack
11 of information and forethought put into after this
12 drug having been on the market for 22-plus years,
13 that we don't have any better way of dealing with
14 this problem.

15 I don't see that this is an improvement
16 over the current system. I think there is
17 something better out there, but to experiment by
18 using an entire country at once is folly. What
19 should have been going on, and has not been going
20 on, are pilot studies to determine what is the best
21 way to do this.

22 This program does not, in my view, add

1 anything but more layers of complication that may
2 actually lead to less compliance than what the
3 current program is, and I wish the manufacturers
4 would get together and solve this problem on a
5 small-scale basis before we start trying to
6 implement a national program.

7 I would also ask that industry hopefully
8 come up with compounds that we don't have to deal
9 with this particular issue, so that this issue goes
10 away. So, my vote is no.

11 DR. GROSS: Dr. Ringel.

12 DR. RINGEL: My vote is yes, and the
13 things I would like to have included, first of all,
14 I think there needs to be a loop for the
15 gynecologic consult, and I didn't see that on here.

16 There should be no return visits solely
17 for picking up lab slips or prescriptions, that
18 someone should--I am not sure it would work
19 again--but check the urine for red blood cells to
20 see if they are menstruating.

21 Go through the scenario, whatever we
22 choose, for various real world situations like, you

1 know, patient can't get in because it is snowing,
2 physician is on vacation for a week, it's a college
3 student, they start one place, they end up
4 finishing with another dermatologist in another
5 place, is this going to work.

6 I think that the pharmacist should check
7 to make sure that there is at least a month between
8 picking up the prescription and having registered.
9 I do think that whatever education we do, there
10 really do need to be pilot studies, and I agree
11 with Dr. Wilkerson, to make sure that when we are
12 educating patients, that we are doing it optimally,
13 otherwise, I don't think it is worth very much.

14 Finally, I think that we should start to,
15 before patients even begin this, we should start to
16 collect their photos, digital photos of those acne
17 patients. Even if we don't restrict its use, let's
18 find out who it is being used on, and then we can
19 talk about it later.

20 DR. GROSS: Thank you.

21 Dr. Vega.

22 DR. VEGA: I vote yes to the Roche core

1 proposal with the following modifications. The
2 physician's office should be--the physician should
3 be responsible for entering the pregnancy test into
4 the system, and at the same time, obtain the
5 confirmation number that will be included in the
6 prescription, so that the pharmacy only needs to
7 confirm that authorization number and add the
8 product information to the prescription before
9 dispensing, and to add the voluntary survey, so
10 that we can obtain the information in the 30 days
11 after treatment with Accutane.

12 DR. GROSS: You want a voluntary or a
13 mandatory survey?

14 DR. VEGA: They are proposing that the
15 survey, their proposal says it is mandatory?

16 DR. GROSS: No, I am asking what you are
17 favoring.

18 DR. VEGA: What is their proposal? I
19 don't see any proposal for a survey.

20 DR. GROSS: Right, okay.

21 DR. VEGA: This proposal has no survey. I
22 am saying that there should be a survey, and the

1 survey to collect patient information should be
2 voluntary.

3 DR. GROSS: Dr. Day.

4 DR. DAY: I vote yes for the core program
5 with most of the provisions that have been
6 suggested today, and if some of those don't occur,
7 I would change my vote.

8 I would like to just say in the patient
9 education side, not only true comprehension
10 testing, but I think some reminder tools can be
11 developed that are very usable and for Art Levin's
12 concern about adding in some other neat little
13 thing that hasn't been tried, there is a huge
14 literature about prospective memory.

15 Most of memory we think about as what we
16 remember from the past, but prospective memory is
17 remembering to do something in the future, and
18 there are specific tools that can be used to
19 enhance that, so a refrigerator magnet with a
20 little tag you have to take off and write down the
21 start of the period, and take that in for testing,
22 and so on, with reminders continue to use two forms

1 of contraception or whatever it is.

2 So, within patient education, attention to
3 prospective memory, as well as true comprehension.

4 DR. GROSS: Dr. Kibbe.

5 DR. KIBBE: I am going to vote no. I
6 don't see that this program is going to
7 significantly impact the 1 percent of the women who
8 cannot navigate successfully through this program.

9 Right now we have 99 percent of the women
10 who use the drug and don't get pregnant, and hence
11 have obtained the correct education, obtained the
12 right outcome. What we don't have, and what we
13 need desperately, is an understanding of why those
14 who made it, made it well, and why those didn't,
15 didn't.

16 Unless you have that, how can you change a
17 program and expect it to increase its impact if you
18 don't even know what you are trying to change it to
19 do. In that case, if we change this, and we make
20 it more onerous, and it clearly will be more
21 onerous, what is the likelihood?

22 Well, we have three outcomes. One, things

1 stay the same. Two, things get better. Three,
2 things get worse. So, if we don't have any data on
3 which we know that this is going to impact the 1
4 percent that we want to impact, then, how can we
5 say okay, let's change it and see what is going to
6 happen, and lose some of what we are doing well.

7 You can't argue one way or the other
8 without facts, which one of those three outcomes
9 you are going to get. It is like the forward pass
10 in football, right? Three things can happen, and
11 two of them are bad and one is good.

12 I think that is what we need. I think
13 that we need to continue to do the educational
14 processes we are doing because it seems to be
15 working, and I don't see that this is a great
16 benefit or improvement over it.

17 DR. GROSS: Dr. Gardner.

18 DR. GARDNER: I am concerned about the
19 implication of a no vote for what will happen next,
20 so I guess I concur with Dr. Wilkerson and Dr.
21 Kibbe that when we are trying to move the whole
22 system to improve 1 percent or something on that

1 order, and don't have the information we need to do
2 it, I think that my inclination would be to leave
3 the current system in place and direct the
4 companies, recommend to the companies that instead
5 they devote the next year to the kinds of failure
6 analyses and other suggestions that have been made
7 here, and perhaps cognitive studies, pilot studies,
8 and come back to us and say here is what we
9 learned, now what changes make sense.

10 So, that is a long no with caveats.

11 DR. GROSS: I would just like to remind
12 everybody that we voted unanimously to not continue
13 the current program.

14 DR. GARDNER: Then, yes with caveats.

15 DR. KIBBE: Can I remind the Chair that I
16 objected to that vote?

17 DR. GROSS: That's okay, you abstained.

18 DR. KIBBE: But I mean that reasoning is
19 because if we don't like this one, we have to have
20 something.

21 DR. WHITMORE: I think, at least for me--

22 DR. GROSS: Wait a minute. Let's continue

1 to go around the table.

2 So, Jackie, what is your vote?

3 DR. GARDNER: Yes, with caveats relating
4 to research.

5 DR. GROSS: Sure, agreed.

6 DR. KATZ: I think having to vote just on
7 this yes or no limits many people. My vote is no,
8 because I would continue the current program
9 mandating patient enrollment, they are not going to
10 get the drug unless they enroll.

11 That would satisfy our lack of being able
12 to keep track afterwards, and perhaps have the
13 pharmacist have to get verification of the dates or
14 the actual pregnancy tests, or at least the date,
15 as Dr. Raimer mentioned.

16 Just two comments. It is not 1 percent,
17 it's 0.1 percent of the population, and the
18 suggestion that nodular cystic acne is some sacred
19 separate entity and everything else is okay, for
20 the folks around the table who are not
21 dermatologists, pustular acne is very severe and
22 very scarring, and what is severe to you may not be

1 severe to me, and a lot of it depends upon
2 patient-physician interaction, and somebody
3 someplace else evaluating a photograph is the most
4 draconian aspect that I have heard.

5 They may not think it is severe enough. I
6 see patients who have fairly severe acne affecting
7 their life, and they said they didn't get Accutane
8 because the doctor didn't think it was sufficiently
9 severe. Nothing else has worked, but the doctor
10 didn't say--well, if the doctor's daughter had that
11 problem, maybe they would feel differently.

12 So, my vote is no, but with modifications
13 to the present program, mandating enrollment and
14 having stricter confirmation of the two pregnancy
15 tests before treatment and pregnancy tests during
16 treatment.

17 DR. GROSS: Sarah Sellers.

18 DR. SELLERS: I vote yes. My comments are
19 that I would request for certain elements that have
20 been undefined, that with respect to patient
21 interactions with the registry, that any data that
22 is collected is collected in a manner, so that that

1 data will be usable for further analysis and
2 potential observational studies.

3 I also would recommend that the informed
4 consent document be modified to a process that can
5 be evaluated, because as it stands now, it really
6 is a document that asks questions about whether a
7 patient has received a video, but not if the
8 patient has viewed and understood the video.

9 I would also ask that we explore
10 consequences for noncompliance, and that's it.

11 DR. GROSS: Thank you all. I know it is
12 tough to put our nickels down, but the Agency is
13 asking us for our opinion, and in the absence of
14 enough evidence, we have expert opinion, and that
15 is why we are all sitting around the table.

16 The vote is 16 to 8 in favor of accepting
17 the Roche program as a core program for all use of
18 isotretinoin.

19 Let's take a break and reconvene in 15
20 minutes and we will try to put together a list for
21 our next round.

22 [Break.]

1 DR. GROSS: There were a number of
2 excellent suggestions as we went around the room
3 and took a vote, probably too many suggestions to
4 vote on them individually, so I would like to
5 propose that we lump some of them together.

6 I am going to make a suggestion on four or
7 five things that might be in our first vote, that I
8 got a sense there might be unanimity to some
9 extent.

10 The first was that there be a centralized
11 registration system, that all manufacturers use the
12 same registration system. That would be No. 1.

13 No. 2, that as part of the entry criteria,
14 a digital photo be sent to the central registration
15 system to document the indication for the drug.

16 The third is that the FDA conduct some
17 research where they try to determine whether or not
18 the patient understands the consent form that they
19 signed and that the patient understands the
20 educational information given them on the drug.

21 The fourth item is that there be a
22 mandatory survey.

1 Would anyone like to comment on these
2 things?

3 MR. LEVIN: I would like to add one other
4 item which I think it has been described in
5 different ways, and that is addressing the lack of
6 data underlying failure, and perhaps that is
7 something that the FDA should be asking the
8 sponsors, and I use the plural, the generics and
9 brand name companies, to be doing, to be conducting
10 a study to look at failures and to try to bring to
11 light why people fail in this program.

12 DR. GROSS: That goes along with Dr.
13 Crawford's suggestion that FMEA, failure mode and
14 effects analysis, or something like that be
15 conducted in those particular situations. So, we
16 can add that in as a fifth item.

17 MR. LEVIN: I just want to add, as we saw
18 in S.T.E.P.S., I mean I think one of the things
19 that was somewhat impressive about S.T.E.P.S. is it
20 seems to be recognizing that it should be a
21 work-in-progress. It is learning from experience
22 and it is changing.

1 One of the changes was that it created six
2 different risk categories that allowed for some
3 interventions and oversight based on those risk
4 categories, and perhaps we should ask for a loop,
5 that as we discover the reasons for failure, that
6 we sort of go back to the program and see how to
7 apply those lessons to this program.

8 DR. GROSS: Okay. Any other comments?

9 Yes, Sarah Sellers.

10 DR. SELLERS: My comments on evaluating
11 the informed consent process were not meant to
12 imply that the FDA do studies. In fact, it's the
13 sponsors' responsibility, not the FDA's, to make
14 sure that the program is effective.

15 So, I wouldn't support the FDA doing the
16 studies.

17 DR. GROSS: But you would support that
18 research be done by someone.

19 DR. SELLERS: By the sponsors, yes,
20 generic and Roche. I think the whole informed
21 consent subject needs to be designed and
22 implemented into the system in a way that allows it

1 to be evaluated and that makes it a process, not
2 just an informed consent sheet.

3 DR. GROSS: Any other comments?

4 Yes, Dr. Epps.

5 DR. EPPS: I am not in favor of digital
6 photography. Research should be done. I agree
7 that I don't think it's FDA's responsibility to do
8 that although they could certainly advise on it.
9 Surveys, it is okay.

10 Certainly, I agree we need to find out the
11 failures, the tail is wagging the whole dog, and we
12 need to find out why those people could not
13 accomplish not becoming pregnant from whatever
14 reason, whether it was the doctor, the pharmacy, or
15 their own issue, but I don't think we need to send
16 around digital photos.

17 DR. GROSS: Dr. Ringel.

18 DR. RINGEL: I would suggest changing the
19 word on the photo item from documentation to data
20 gathering. I don't want to give the idea that
21 someone is going to be sitting there judging each
22 photo, but I do think that there should be some

1 documentation of what is being treated, so that we
2 know if there is a problem or not.

3 DR. EPPS: That is what the medical record
4 is for also.

5 DR. GROSS: What was the implication, Dr.
6 Epps, that you have a digital photo in your medical
7 records?

8 DR. EPPS: No. We document physical exam.
9 I don't think we need photographs. I don't think
10 that needs to be central issue or centralized.

11 DR. GROSS: Dr. Cohen.

12 DR. COHEN: I just wanted to ask Dr.
13 Ringel where that would be documented.

14 DR. RINGEL: Whatever central registry.

15 DR. GROSS: Dr. Whitmore.

16 DR. WHITMORE: I agree that photographs
17 are not necessary. I would also say that Accutane
18 is used off label for things that are not acne,
19 too, so I am not sure where you would be going with
20 that in those cases.

21 DR. RINGEL: We could document the acne
22 ones.

1 DR. GROSS: So, maybe we had better take
2 the photo as a separate item rather than bunching
3 it in.

4 DR. WILKERSON: With all due respect, I
5 think photographs are the venue of clinical
6 studies, and they are hard enough there with
7 standardized photography, let alone everyone
8 sending in their snapshots, and I think we would
9 end up with a repository of nothing that was of
10 particular clinical usefulness if they are not
11 standardized and done in clinical format.

12 If the floor is open for motions, which I
13 assume it is, Mr. Chairman?

14 DR. GROSS: A motion on the other items
15 mentioned?

16 DR. WILKERSON: Well, any of them. I am
17 assuming we are considering all sorts of items.

18 DR. GROSS: So, something else you want to
19 add to this list?

20 DR. WILKERSON: Yes. Being a sore loser,
21 I would like to put a motion forward that the
22 current concepts be studied for cost of

1 implementation and pilot studies prior to being
2 implemented on the entire country. That is my
3 motion.

4 DR. WHITMORE: Second.

5 DR. GROSS: And that would be done by the
6 manufacturers?

7 DR. WILKERSON: Yes, and I do favor one
8 representative of all the manufacturers.

9 DR. GROSS: Let me read the list and let's
10 take a vote.

11 So, the items on the list that we will be
12 voting on. There should be a centralized system
13 for all manufacturers, so any patient, no matter
14 which drug they use, will be registered in a common
15 system.

16 The second, that research be done to
17 assess the patient's understanding of the consent
18 form and the educational information.

19 Three, that there be a mandatory survey,
20 and, four, that we do failure mode analysis on
21 women that become pregnant.

22 The last item is that there be an

1 assessment of the cost of implementing the program.

2 DR. COHEN: It's root cause analysis, not
3 failure mode. Failure is prospective, root cause
4 is after it has happened.

5 DR. GROSS: FMEA is before it happens, you
6 are right, RCA.

7 Mr. Levin, would you like to register your
8 opinion, yea or nay?

9 MR. LEVIN: Is it one yea or nay, or is it
10 yea with? It is a very complex package, and up
11 until the last issue where the person proposing
12 that suggestion tied it to I think a delay in
13 moving ahead pending pilots.

14 DR. GROSS: That was not my impression.

15 MR. LEVIN: I just want to clarify it.

16 DR. GROSS: Dr. Wilkerson, is that what
17 you wanted?

18 DR. WILKERSON: Yes, this does not mean
19 that we discontinue the current system. What it
20 means is that we evaluate going forward before we
21 plunge the entire country into chaos because
22 whenever you change systems, you are going to have

1 several months of chaos during which time the
2 current system's effectiveness will probably also
3 be degraded.

4 So, I think before we do that, we want to
5 make sure that the program that we are moving to
6 actually is accomplishing what we think it is going
7 to accomplish, because it is going to add many
8 layers of burden and cost to physicians,
9 pharmacists, and patients.

10 DR. GROSS: Let's take that off the list
11 then and we can deal with it separately.

12 So, we have centralized system,
13 registration system for all manufacturers, research
14 as outlined, mandatory survey, and root cause
15 analysis.

16 MR. LEVIN: Arthur Levin. Yes.

17 DR. SAWADA: Kathy Sawada. Yes.

18 DR. VENITZ: Jurgen Venitz. Yes on all
19 four.

20 DR. BERGFELD: Wilma Bergfeld. Yes, with
21 the exception of the mandatory survey. I am not
22 sure it should be mandatory. I would suggest it be

1 voluntary.

2 DR. RAIMER: Sharon Raimer. Yes.

3 MS. KNUDSON: Paula Knudson. Yes.

4 DR. BIGBY: Michael Bigby. Yes.

5 DR. HONEIN: Peggy Honein. Yes, and I

6 prefer mandatory survey, but if that can't be

7 implemented, I would want a voluntary survey rather

8 than nothing.

9 DR. COHEN: Michael Cohen. Yes.

10 DR. WHITMORE: Beth Whitmore. As far as

11 the recommendation looking into the cost of doing

12 all this, I would suggest a one-year period where

13 patients are required to have a pregnancy test

14 along with the yellow sticker and assess pregnancy

15 rates during that time prior to initiation of this

16 central program.

17 DR. GROSS: So, that will have to be a

18 separate consideration.

19 MS. SHAPIRO: Robyn Shapiro. Yes.

20 DR. EPPS: Yes, voluntary survey.

21 DR. GROSS: So, that is yes to everything,

22 but the survey should be voluntary?

1 DR. EPPS: Yes. I mean I am not in
2 favor--well, I have already said that I am not in
3 favor of registry--but if you are going to have a
4 registry, everybody should use the same thing.

5 DR. SCHMIDT: Yes to all.

6 DR. CRAWFORD: Stephanie Crawford. Yes.

7 DR. GROSS: Peter Gross. Yes to all.

8 DR. WILKERSON: Michael Wilkerson. Yes.

9 The survey should be voluntary, though.

10 DR. RINGEL: Eileen Ringel. Yes to all.

11 DR. VEGA: Amarilys Vega. Yes, but that
12 the survey should be voluntary.

13 DR. DAY: Ruth Day. Yes to all.

14 DR. KIBBE: Arthur Kibbe. Yes.

15 DR. GARDNER: Jackie Gardner. Yes.

16 DR. KATZ: Robert Katz. Yes.

17 DR. SELLERS: Sarah Sellers. Yes.

18 DR. GROSS: The way I read the vote is it
19 was unanimous yes with a caveat that the mandatory
20 survey, there were 5 people who requested it be
21 voluntary, and the rest agreed to mandatory. So,
22 that would be 19 agreed to mandatory.

1 I think we are accomplishing a lot here.
2 The other items we may have to take up
3 individually.

4 Dr. Wilkerson, do you want to vote on
5 delaying the whole thing until a cost analysis is
6 done, or do you want to withdraw that? I am just
7 trying to be fair.

8 DR. WILKERSON: Samuel Clemens once said
9 that--I will paraphrase--you don't want to watch
10 sausage or a law being made. I really think we
11 need some regional studies to see if these programs
12 really work. I really do have concerns about
13 transition periods going between different
14 methodologies for trying to accomplish what we all
15 want to accomplish here.

16 I just don't want to complicate this and
17 not see any--because it is going to be another
18 three years before we see something. We should
19 have been doing pilot studies the entire time to
20 find out what really works, and then try to apply
21 those to the populace in general.

22 So, my motion stands to delay pending

1 pilot studies and financial impact of these
2 recommendations.

3 DR. GROSS: Is there a second to the
4 motion?

5 DR. WHITMORE: I would like to second
6 that.

7 DR. SCHMIDT: I second it.

8 DR. GROSS: That was quick. I would like
9 to just make a comment. Having done some cost
10 effectiveness/cost benefit analyses where you come
11 up against the issue of at least when it comes to
12 mortality, the value of human life used to be
13 50,000, now it is 200,000. That is accepted in the
14 literature.

15 The value of quality of life, I am not
16 familiar with what those financial numbers are, but
17 anybody here familiar with--I guess it depends on
18 what aspect of quality of life you are talking
19 about.

20 DR. WHITMORE: I am not sure.

21 DR. SELLERS: I am sorry, I was just going
22 to say it will become very difficult because again

1 we don't have the data that we need to fully define
2 the scope of the problem. We have reported data.
3 We don't know the entire scope of patients who are
4 affected by this drug to do a cost-benefit
5 analysis.

6 DR. GROSS: Somehow we are going to need
7 that kind of information to do it, because how are
8 we going to say that this program is worthwhile
9 doing or not doing.

10 DR. SELLERS: Well, it's worthwhile, in my
11 mind, because we are going to be collecting data
12 through the registry, and that will allow us to
13 start making better estimates of rates and persons
14 who are affected.

15 DR. GROSS: We have a motion on the table
16 to delay implementation of the study until--

17 DR. WHITMORE: Could I just say that our
18 goal is to reduce pregnancies, and if during that
19 period before implementation of this, when we are
20 taking a pregnancy test to the pharmacy, that is
21 required with the woman to have the prescription
22 filled, if we can reduce pregnancy rates during

1 that time, I think you can assess how much you are
2 reducing rates of pregnancy with that.

3 You are not going to come up with a
4 cost-benefit analysis of this program, because you
5 are not going to know how much it is going to
6 reduce pregnancy. In the meantime, you could at
7 least be studying how much just implementation of a
8 pregnancy test going along with the woman reduces
9 the rate or pregnancy that is occurring right now.

10 DR. GROSS: Dr. Crawford.

11 DR. CRAWFORD: Just to state I will be
12 voting against this because in terms of the FDA's
13 mandate, looking at safety and efficacy, I don't
14 think a cost effectiveness analysis is appropriate
15 beyond perhaps quality of life issues, and I do
16 know for a fact that while I do think sometimes
17 economic analyses are very well done, I am aware of
18 how without very proper sensitivity analyses and
19 consideration of a variety of variables, those
20 numbers can be biased. So, I will be voting
21 against this.

22 DR. WHITMORE: I wonder if Dr. Wilkerson

1 was talking more about just the cost as opposed to
2 cost-benefit, because we are not going to be able
3 to measure benefit, the question is cost.

4 DR. WILKERSON: Mine was more the cost of
5 implementation to physicians, their office, to
6 health care plans, not the cost of life or any of
7 those sort of things, so no, it is not a
8 cost-benefit, it is a cost of implementation, the
9 extra 10 or 15 minutes that it takes every doctor
10 or nurse to punch in all this data, and in the end,
11 you know, the question at the end of the day, we
12 all feel better when we have done something, but if
13 that work does not actually produce an end product,
14 then, what is the point of having done that extra
15 work, and that is a critical question here.

16 DR. GROSS: The other critical part of it
17 is the production of a deformed child, there
18 certainly is a cost associated with society taking
19 care of that child as far as the anguish of the
20 child and the family.

21 DR. WILKERSON: Oh, absolutely, but if the
22 end result of tightening this up means that we have

1 the paradoxical effect of seeing more deformed
2 children, then, what is the point of that? We
3 don't know the answers.

4 MR. LEVIN: Again, I would like to
5 emphasize this is modeled on programs about which
6 we have some evidence.

7 DR. WILKERSON: But we only have 4- or
8 5,000 women.

9 MR. LEVIN: I understand that.

10 DR. WILKERSON: It's totally different
11 populations.

12 MR. LEVIN: I mean it's the best evidence
13 we have, and to hypothesize that somehow it is
14 dangerous to proceed based on that evidence, I
15 don't know, I think it's a disservice to the people
16 who are being hurt and will be hurt, and we saw
17 dramatic testimony today about what the cost of not
18 doing this thing correctly.

19 DR. WILKERSON: Then, why haven't we been
20 worried about that for the last 22 years?

21 MR. LEVIN: I couldn't agree with you
22 more.

1 DR. WILKERSON: This is not a new problem.

2 DR. GROSS: Hold on a minute. Can we get
3 some clarification from the FDA? Dr. Kweder?

4 DR. KWEDER: I am not sure what the
5 question is. What would you like me to clarify?

6 DR. GROSS: I just thought you had a
7 comment.

8 DR. KWEDER: No.

9 DR. GROSS: Basically, this motion is to
10 delay implementation of the program that we
11 approved by a two-thirds majority, delay it until a
12 cost analysis is done that would basically undo
13 everything we have done so far.

14 Mr. Levin.

15 MR. LEVIN: Arthur Levin. No.

16 DR. SAWADA: Kathy Sawada. No.

17 DR. VENITZ: Jurgen Venitz. Before I
18 announce my vote, I just want to point out the main
19 reason why I voted in favor of the core proposal,
20 and the amendments that we just passed, so we can
21 generate data, because there will be another
22 committee meeting in 5, 10 years, and they are

1 going to ask the same questions that were asked 4
2 years ago and 10 years ago, and there were no data
3 to support any contention whether the current
4 system works, it doesn't work, how many people are
5 at risk, are we talking about 1 percent or 0.1
6 percent.

7 So, the reason why I am voting against the
8 motion, meaning not to delay, is because I want for
9 something to be in place, that allows us to gather
10 the data, so the next committee that is going to
11 review this will have an evidence database to base
12 their decision on.

13 DR. BERGFELD: Wilma Bergfeld. I am in a
14 great dilemma because what I would have liked to
15 have heard was that we were going to have it move
16 forward, and we would pilot the program before we
17 launched it, with or without a financial note to
18 that.

19 DR. WILKERSON: That is the intention, is
20 to do pilot studies as we move forward.

21 DR. BERGFELD: Not to hold up the program,
22 but to move forward, but before launching, to

1 pilot--

2 DR. WILKERSON: In a pilot sense, not as
3 an entire rollout to the entire country.

4 DR. BERGFELD: If that was the intent, I
5 would vote to do this as a pilot. I am not sure if
6 that is a yes or no.

7 DR. GROSS: Dr. Wilkerson, let me clarify
8 it for the group. You are saying that there be
9 some kind of a pilot study with a cost assessment?

10 DR. WILKERSON: I think that was what I
11 originally said.

12 DR. GROSS: I didn't hear that, but that
13 is fine.

14 So, we have 3 nays and 1 yea.

15 Dr. Raimer.

16 DR. RAIMER: Sharon Raimer. I am voting
17 for a pilot program. I think the S.T.E.P.S.
18 program as it has been used in Thalidomide, I don't
19 think we can cross it over to our population,
20 because those women were mostly in their 40s, and
21 they were critically ill, most of them, or
22 seriously ill, they had malignancies, so a young,

1 healthy population, just because it worked in an
2 older, sick population doesn't mean it is going to
3 necessarily work in ours, so I think we need to see
4 some pilot studies to see if it does work and get
5 the thing going, how feasible it is.

6 DR. GROSS: Dr. Knudson.

7 MS. KNUDSON: Yes, because it will be a
8 pilot study to determine if it's feasible and what
9 the cost might be.

10 DR. BIGBY: Michael Bigby. No.

11 DR. HONEIN: Peggy Honein. No.

12 DR. COHEN: Michael Cohen. No.

13 DR. WHITMORE: Beth Whitmore. Yes.

14 MS. SHAPIRO: I have a question. I am not
15 quite sure what we are voting on. We would do a
16 pilot study, not only to look at cost, but also
17 effectiveness, right? Okay.

18 And in the rest of the country, where the
19 pilots were not going on, despite our earlier vote,
20 they would be status quo, is that right?

21 DR. GROSS: The effectiveness, again, this
22 is another concept introduced, effectiveness was

1 not mentioned originally, it was just cost.

2 MS. SHAPIRO: I would like to ask Dr.
3 Wilkerson then, the person who made the motion,
4 whether or not his intent was to also gather data
5 about numbers of pregnancies.

6 DR. WILKERSON: Yes. The purpose of this
7 is to determine if doing this act actually results
8 in obtaining the end product that we are looking
9 for, which is namely reduction of pregnancy risk.

10 MS. SHAPIRO: Which makes sense.

11 DR. GROSS: Wait a minute. Wait a minute.

12 If the assessment is effectiveness, then,
13 we would need to know how many people have to be
14 involved in the study to assess effectiveness.
15 Does anybody know that answer?

16 DR. WILKERSON: It depends on the power of
17 the study.

18 DR. VENITZ: The current system, you have
19 a voluntary reporting system. That means you are
20 going to generate the same data, just in a smaller
21 scale with a slightly different system.

22 You still do not know what the pregnancy

1 rates are, you still cannot interpret any of the
2 numbers other than how many people actually are
3 enrolled in your program.

4 DR. WILKERSON: But you know what the
5 optimal effectiveness of the intervention that you
6 are trying to do is in a study.

7 DR. VENITZ: What are you comparing it to?

8 DR. WILKERSON: That is what you are
9 doing, you are doing a controlled study to know
10 what the optimal effectiveness of your intervention
11 is.

12 DR. VENITZ: The only thing as far as I
13 understood your motion is, you can assess whether
14 it is feasible to do what the core proposed plan
15 proposes to do, but you cannot assess its
16 effectiveness.

17 DR. GROSS: We have got a problem here
18 because we have a shifting motion. We started out
19 saying the whole program was going to be delayed
20 until there is a cost assessment. Then, it was
21 changed that there will be a pilot program. Then,
22 it was changed that there was going to be an

1 assessment of efficacy without any understanding of
2 what the numbers were, what the power requirements
3 were.

4 Basically, the intent is that the overall
5 program will be delayed. I think that has to be
6 understood.

7 DR. KWEDER: Maybe I can clarify a little
8 bit from our standpoint. First, I think from our
9 perspective, even though we asked it as a question,
10 doing nothing and making no change is really not an
11 acceptable course of action in our opinion.

12 I do think if changes are to be made to
13 the system, they need to be made quickly. I don't
14 think this is the kind of thing where we feel that
15 the Agency is in a position to pontificate for long
16 periods of time about what changes should be made,
17 could be made.

18 So, from that standpoint, your advice
19 today has been very helpful. As regards pilot
20 programs, we would like to hear your ideas about,
21 and you have been offering about, what would
22 constitute a pilot program.

1 Often what we do is we work with sponsors
2 to develop testing and pilot testing of components
3 of a program rather than an entire program, because
4 we learn a lot about the individual components one
5 at a time, or several in combination.

6 But we do get into the question of how
7 much of a pilot test is enough and what is it that
8 we are measuring. As you will see further on in
9 some of the questions, we do have a question for
10 the committee about what should be the goal and how
11 do we establish a goal for success and
12 effectiveness.

13 That is something that we would like to
14 hear from you on whether you are referring to a
15 pilot program or to the entire program.

16 As regards the issue of cost, we do not,
17 under our statute and regulations, have any
18 authority to regulate medicines or costs of
19 medicines or even particularly costs of programs.

20 Cost plays out in a different way in how
21 drugs are regulated. Sometimes if things become
22 too expensive, companies make the decision that

1 they can't participate in such a program, so they
2 will no longer manufacture the product.

3 That is not a desirable outcome, but in
4 looking at cost-benefit of how much this program
5 costs, it really all comes down to the
6 effectiveness of the program, what is it that we
7 are trying to achieve with the program, and is the
8 program helping us to reach those goals.

9 We are open to looking at programs that
10 are costly, and we do this all the time, to assess
11 are all of the components of this program
12 necessary, is the investment in every one of these
13 steps or pieces of it really helping us achieve the
14 goal.

15 That is the kind of question that can be
16 best be addressed by continuous analysis of the
17 program itself, which is something that we have not
18 had a great deal of information on in the programs
19 we have reviewed to date.

20 DR. GROSS: Robyn, your opinion or your
21 vote?

22 MS. SHAPIRO: I still don't know what the

1 motion is.

2 DR. GROSS: The original motion was that
3 the program be delayed until an assessment of cost
4 be made. That was the original motion.

5 MS. SHAPIRO: And has it been amended or
6 not?

7 DR. WILKERSON: Yes, it has. Basically,
8 it is do we proceed with pilot programs or do we
9 proceed with the complete implementation of the
10 program not knowing what the ultimate outcome of it
11 is going to be.

12 DR. GROSS: But a pilot program, what is a
13 pilot program? How many people are you talking
14 about?

15 DR. WILKERSON: That's, you know, I mean
16 McDonald's rolls out sandwiches in one part of the
17 country to see if they sell before they take it all
18 over the place.

19 The same thing here, we are talking about
20 millions and millions of dollars potentially being
21 spent to roll out a program like this, and not
22 knowing if it's going to even produce the end

1 result that we are looking for.

2 DR. GROSS: The people who are spending
3 the millions are the ones that suggested the
4 program.

5 MR. LEVIN: That's right, the sponsor is
6 the one who is bearing that cost.

7 DR. WILKERSON: Sponsors, patients,
8 physicians, health care delivery systems, insurance
9 companies, we all bear the cost of these programs.

10 MS. SHAPIRO: I have a question for the
11 Agency.

12 DR. GROSS: Robin, yea or nay, and let's
13 move on.

14 MS. SHAPIRO: Can I just ask one
15 clarifying question of the Agency, and then I guess
16 I will abstain, because I still don't know what the
17 question is.

18 If the motion were to delay rollout of
19 whatever it is we think should be rolled out,
20 pending a pilot program that could, after input
21 from biostatisticians or whomever tell us what the
22 power has to be, you know, what it has to be to

1 both gather effectiveness data in terms of numbers
2 of pregnancies and gather costs, if we could get
3 all that, and implement that, and in the meantime
4 put the current--maintain the status quo, is that
5 something that the Agency would accept?

6 DR. KWEDER: I think we would certainly
7 take that counsel under advisement.

8 MS. SHAPIRO: Okay. That is what I want
9 to vote for.

10 DR. GROSS: Next, Dr. Epps.

11 DR. EPPS: I can be in favor of a pilot or
12 trial. Of course the endpoint would be no one
13 starting Accutane who is pregnant, and no one
14 becoming pregnant on Accutane. That would be a
15 more desirable endpoint.

16 I do think that as it has come down the
17 line, the proposal has evolved, so it is kind of
18 hard to know exactly what the--I know what the
19 intent was, it has evolved, and certainly the 3(b),
20 which was modify the current program with
21 additional risk management tools to reduce fetal
22 exposure, was the FDA's question.

1 DR. SCHMIDT: I vote for the Shapiro
2 clarification of the motion.

3 DR. GROSS: What is the Shapiro
4 clarification?

5 DR. SCHMIDT: That if we could get a pilot
6 program on this motion without slowing down the
7 original process of implementing this, and we can
8 figure out--what I am really concerned about is
9 this is going to be really majorly expensive and a
10 lot of people don't have insurance, and when you
11 start socking people for 600, \$2,000, \$3,000 a
12 month for medication, even when they pay their
13 co-pays, people who need this stuff are not going
14 to be able to afford it.

15 That is what I am concerned about. That
16 is why I want a pilot program.

17 DR. GROSS: Roche said they would provide
18 payment for people who can't afford it.

19 MR. LEVIN: Peter, could I just say--I
20 hate to be saying the same thing over and over
21 again--we have a program which has costs that this
22 is very similar to, and while it is a different

1 population, we certainly can get cost information
2 about that program, so we don't have to reinvent
3 the wheel here.

4 There is a S.T.E.P.S. program out there,
5 there is another program out there dealing with
6 restricted access and restricted dispensing, and I
7 think, you know, we can avail ourselves of the
8 experience from those programs to get from those
9 manufacturers and sponsors what the cost is, so we
10 don't have to go out and pilot this as if we don't
11 have any way to get that information. It makes no
12 sense.

13 DR. SCHMIDT: Hoffmann-La Roche is out of
14 the business of giving away free Accutane. As far
15 as in Houston, Texas, their rep has been terminated
16 and is with another company, and with the generic
17 companies, you try to get free medicine for people,
18 they have to have their tax returns for the past
19 three years and have to be eating beans and living
20 on the street before they will get free medicine.

21 So, I would really like to find out where
22 we are going to get all this free medicine and who

1 is going to pay for it.

2 DR. GROSS: So, your vote is yes, right?

3 Okay.

4 Dr. Crawford.

5 DR. CRAWFORD: Stephanie Crawford. My

6 vote is no delay beyond a reasonable transition
7 period.

8 DR. GROSS: Peter Gross. My vote is an
9 emphatic no.

10 DR. WILKERSON: Michael Wilkerson. Yes.

11 DR. RINGEL: Eileen Ringel. No.

12 DR. VEGA: Amarilys Vega. No.

13 DR. DAY: Ruth Day. It has been 22 years.

14 No.

15 DR. KIBBE: Just a small encouraging
16 comment for the members of the committee. The
17 Agency doesn't have to do anything we tell them to
18 do. So, you guys can vote all the time, any way
19 you want, and they are going to eventually take the
20 sum of the discussion and do what they think is the
21 best for the general public, and the fact that 8 of
22 us are on one side of a vote, and 16 on the other,

1 might weigh a little bit on it, but also the
2 quality of the argument.

3 My argument is that we have a system in
4 place today which more than 99 percent of the women
5 who go through the treatment come away without a
6 problem in pregnancy. We have yet to actually
7 figure out why the others fail.

8 Then, we are going to go to a more complex
9 system. Whenever you go to a more complex system,
10 people don't adhere to it as well as a simpler
11 system. So, we put a more complex system in, we
12 might very well lose ground rather than gain
13 ground.

14 Now, my colleague said this is a
15 cost-benefit. For me, it is really I want to know
16 whether we are going to gain ground on the numbers
17 or percent of those who aren't pregnant after going
18 through the course of treatment.

19 If there is a way for someone to pilot it
20 in, to show us that, we are better off than jumping
21 in with both feet and losing if just for the
22 horrible thought of going from 94 to 150 or 180

1 next year because of the confusion of putting the
2 program in.

3 Now, that's my concern and that is why I
4 am voting. I think I am voting yes, I am not sure.

5 DR. GROSS: I gathered.

6 Jackie.

7 DR. GARDNER: Jackie Gardner. No.

8 DR. KATZ: Robert Katz. Away from the
9 table, in the hallway, we are all concerned about
10 cost, but I have been told before around this
11 table, cost is not our concern, and getting
12 involved in this and obfuscating renders our two
13 days here ineffectual.

14 So, whatever we decide, we should go
15 ahead. An emphatic no.

16 DR. SELLERS: Sarah Sellers. No.

17 DR. GROSS: Dr. Shapiro, you voted yes?

18 MS. SHAPIRO: Yes, with my revisions,
19 right.

20 DR. GROSS: The nays have it 14 to 8.

21 As far as the other suggestions are
22 concerned, I don't know that we are going to be

1 able to reach consensus on it, and maybe what we
2 should do, as Dr. Kibbe pointed out, is make other
3 suggestions that might be considered, and
4 Hoffmann-La Roche and the generic manufacturers
5 will hear them, the FDA will hear them, and maybe
6 we can leave it at that, unless somebody here has a
7 burning issue they want to go through another vote
8 on.

9 The suggestions that we have heard is
10 recertification of physicians. There was a
11 question on the video. Was that Dr. Bigby, did you
12 comment on that, or who commented on the video?

13 DR. WHITMORE: I did. It's an excellent
14 video, and I would recommend that all patients view
15 it.

16 DR. GROSS: The surveillance that is done,
17 the survey that is done should include tracking
18 women who get pregnant.

19 DR. WHITMORE: I have a question about
20 physician reporting and making that mandatory.

21 DR. GROSS: Physician reporting. What do
22 you mean?

1 DR. WHITMORE: Of pregnancies.

2 DR. GROSS: Where is that in the program?

3 DR. WHITMORE: I don't know. I think it
4 should be included.

5 DR. GROSS: Oh, you think it should be
6 included.

7 DR. WHITMORE: Right.

8 DR. GROSS: Good. All right. Any other
9 suggestions?

10 Dr. Cohen.

11 DR. COHEN: We had the suggestion before
12 about the indication being in the registry, an
13 attestation of the indication.

14 DR. GROSS: Attestation of the entry
15 criteria, indication for the treatment. Good.

16 If there is nothing else, I think Question
17 4 was taken care of by adopting the program because
18 that includes a registry for patients, physicians,
19 and pharmacies, not pharmacists. Anybody want to
20 change that or comment on that?

21 Ruth.

22 DR. DAY: I would like the pharmacists

1 here to convince me it should not be pharmacists.

2 I know it is a lot more work, et cetera, et cetera,

3 but why not?

4 DR. GROSS: Sarah Sellers.

5 DR. SELLERS: I agree it should be

6 pharmacists consistent with the type of

7 certification we have for disease management

8 specialists, I think this could be achieved.

9 DR. GROSS: Dr. Cohen.

10 DR. COHEN: I was going to say the same

11 thing. I think if anything, it might add to the

12 pharmacists wanting to follow through and comply

13 with the program, et cetera, so go along with it.

14 DR. KIBBE: There is only one small

15 drawback. I agree that we ought to register the

16 pharmacists, the actual health professional who is

17 responsible for doing it.

18 The drawback is that if the patient comes

19 to the same pharmacy where multiple pharmacists

20 work, if not all of them are registered, they might

21 run into a problem with the delivery of the

22 prescription or the delivery of the medication

1 might be delayed until a registered pharmacist, one
2 that is registered with the program as opposed with
3 the state might be there to handle that.

4 That is a logistics problem.

5 DR. GROSS: Sarah Sellers.

6 DR. SELLERS: That is where we have seen
7 noncompliance with the S.T.E.P.S. program. So,
8 that argues for a pharmacist being registered
9 actually.

10 DR. GROSS: That's it. We seem to have
11 fair unanimity on that. Maybe we had better vote
12 on it because that modifies the Roche program.

13 Nobody wants to vote?

14 DR. CRAWFORD: No, but may I make a
15 comment? Certainly, anytime there is any
16 opportunity for professional development with the
17 pharmacists, I am in favor of it although right
18 now, at this point, I think I would be more in
19 favor of registration of the pharmacies.

20 In the practice of pharmacy in the absence
21 of state laws and regulations, the state board
22 actually looks at institutional policies and

1 procedures, so unless the pharmacy, in this case,
2 for example, the corporate chains, the independent,
3 whoever owns that community pharmacy, unless they
4 say to do it, it may not be done.

5 I am concerned, I don't know how many
6 practicing community pharmacies, there are
7 approximately 200,000 pharmacists in the United
8 States, my guess would be perhaps about 70 percent
9 practice in community.

10 I think it would be very difficult in
11 terms of access, so saying that the pharmacists
12 have to be registered for this
13 particular--certified, whatever the term is for
14 this particular program--it is okay as long as it
15 is realized there will be much less access, much
16 less for the patients.

17 DR. GROSS: What happens in the S.T.E.P.S.
18 program, is it pharmacists or pharmacies?

19 DR. SELLERS: Pharmacies. The S.T.E.P.S.
20 program uses pharmacies. We are aware that in
21 pharmacy practice, there are people who are working
22 part time or doing shift work and that some of the

1 lapses that have been described may, in fact,
2 reflect that the SOPs for the pharmacy aren't
3 perfectly communicated to the individuals who are
4 working there on a part-time basis.

5 DR. GROSS: Brian.

6 DR. STROM: To me, it makes no more sense
7 to certify pharmacies than it does to certify
8 physician practices as opposed to physicians. The
9 point is the individual clinician is the one who is
10 going to be doing the care. If the net impact is
11 there are fewer people able to do it, so be it, but
12 that is the same thing as saying certify
13 dermatologists as opposed to dermatology practices.
14 They are the ones making the decisions.

15 My guess is what will happen would be a
16 move toward what I was looking for before in terms
17 of specialty pharmacies. There will be some
18 pharmacies that will say we need to have all of our
19 pharmacists certified, and there will be some that
20 will say we are not going to do this.

21 DR. GROSS: Dr. Bergfeld.

22 DR. BERGFELD: I would concur with that

1 wholeheartedly. Why would you have two different
2 standards for two different professional groups.

3 DR. WHITMORE: This brings up an issue
4 about nurse practitioners and PAs.

5 DR. BERGFELD: What is that issue?

6 DR. WHITMORE: If they need to be
7 certified or actually if they can be certified and
8 get stickers, and I don't know if they can get
9 stickers or not.

10 DR. GROSS: Well, certainly the PA that
11 presented, PAs do it under physician license in
12 many states--

13 DR. WHITMORE: It that under the
14 physicians' certification, though? I imagine it is
15 under the yellow sticker--

16 DR. GROSS: Not necessarily.

17 DR. WHITMORE: So, they should go through
18 some kind of training.

19 DR. GROSS: That makes sense and nurse
20 practitioners can in many states write
21 prescriptions independent of physicians.

22 Stephanie.

1 DR. CRAWFORD: Thank you. Real quickly
2 with that one, I do believe anyone with
3 prescriptive authority should be the same rules. I
4 am not at all opposed to the pharmacists being
5 certified. I welcome it. It is just I am saying
6 if it is done, we need to realize that it is
7 limiting access and also, Dr. Strom, when it says,
8 I presume, when it says the pharmacy is certified,
9 that means the pharmacist in charge, who also he or
10 she informs all of the pharmacists who work there,
11 be they part time, full time, registry, whatever
12 the case may be, what the policies are for that
13 pharmacy.

14 DR. GROSS: Maybe we had better vote on
15 this. I guess the question would be that all
16 prescribing health care providers should be
17 registered in the program, so that would include
18 physicians, pharmacists, PAs, and nurse
19 practitioners.

20 MR. LEVIN: Arthur Levin. Yes.

21 DR. GARDNER: Point of order. Not all
22 pharmacists prescribe.

1 DR. GROSS: Health care providers. I am
2 sorry. Pharmacists, as well as all of those who
3 prescribe, meaning PAs, nurse practitioners, and
4 physicians. I am sorry I didn't state it clearer.

5 DR. SAWADA: Kathy Sawada. Yes.

6 DR. VENITZ: Jurgen Venitz. Yes.

7 DR. STROM: Brian Strom. Yes.

8 DR. BERGFELD: Wilma Bergfeld. Yes.

9 DR. RAIMER: Sharon Raimer. Yes.

10 MS. KNUDSON: Paula Knudson. Yes.

11 DR. BIGBY: Michael Bigby. Yes.

12 DR. HONEIN: Peggy Honein. Yes.

13 DR. COHEN: Michael Cohen. Yes.

14 DR. WHITMORE: Beth Whitmore. Yes.

15 MS. SHAPIRO: Robyn Shapiro. Yes.

16 DR. EPPS: Roselyn Epps. Yes.

17 DR. SCHMIDT: Jimmy Schmidt. Yes.

18 DR. CRAWFORD: Stephanie Crawford. Yes.

19 DR. GROSS: Peter Gross. Yes.

20 DR. WILKERSON: Michael Wilkerson. Yes.

21 DR. RINGEL: Eileen Ringel. Yes.

22 DR. VEGA: Amarilys Vega. Yes.

1 DR. DAY: Ruth Day. Yes.

2 DR. KIBBE: Arthur Kibbe. Yes.

3 DR. GARDNER: Jackie Gardner. Yes.

4 DR. KATZ: Robert Katz. Yes.

5 DR. SELLERS: Sarah Sellers. Yes.

6 DR. GROSS: Well, what a nice way to end
7 up.

8 The last question, Question 5. Please
9 identify the critical benchmarks for determining
10 the success or failure, for example, reducing to
11 zero the number of women who are pregnant at the
12 initiation of isotretinoin treatment.

13 Does anybody have any other suggestions
14 for the FDA as to benchmarks for assessing success
15 or failure?

16 Ruth.

17 DR. DAY: Excuse me. We never did vote on
18 the other things that came up in the other
19 category. They were originally the
20 recertification, the video, the survey, the
21 indications and the registry, the pharmacists, and
22 then it all went into what we voted, was all health

1 care providers. So, what happened to those other
2 items?

3 DR. GROSS: The other items were
4 suggestions to the FDA and the manufacturers to
5 consider. We weren't going to vote on it.

6 Dr. Ringel.

7 DR. RINGEL: Because achieving an endpoint
8 of zero pregnancies is simply not reasonable even
9 though it's what we are all striving for, I suggest
10 that we accept as an endpoint continuous quality
11 improvement, that each time, each year, each time
12 this program is assessed and the change has been
13 made, it should be better than the last time.

14 DR. GROSS: Excellent suggestion. So,
15 there should be successive iterations of quality
16 improvement as data gets fed into the system.

17 DR. WHITMORE: I would say a good goal
18 would be to reduce to zero the number of women who
19 have a positive pregnancy test at the initiation of
20 therapy.

21 DR. GROSS: Anything else?

22 DR. STROM: Do you know what the

1 benchmarks are for the S.T.E.P.S. program?

2 DR. GROSS: Anybody from the FDA or
3 elsewhere who want to comment on that?

4 DR. TRONTELL: I will invite anyone to
5 speak. I don't believe, in fact, in any of these
6 areas we have set an absolute threshold or ceiling
7 for performance, that it has been a matter of
8 continued re-evaluation.

9 DR. GROSS: Maybe we could state it as
10 goals, goals, as well as benchmarks.

11 DR. SELIGMAN: We already have goals, I
12 think.

13 DR. GROSS: Right. Sorry.

14 MS. SHAPIRO: I just have a question about
15 the last suggestion. Doing better, does that mean
16 in terms of absolute numbers or rates?

17 DR. WILKERSON: We don't know what the
18 rates are.

19 MS. SHAPIRO: Right. That's a problem.

20 DR. GROSS: Dr. Bigby.

21 DR. BIGBY: Actually, I think that is a
22 very important question, and I think that we should

1 actually look at absolute numbers. I mean if the
2 rate falls and the uses goes up and the number of
3 deformed children goes up, and exposures goes up,
4 nobody is going to be happy with that, so I think
5 you have to look at the absolute numbers.

6 DR. RINGEL: As the person who made the
7 proposal, I definitely agree with that.

8 DR. WHITMORE: Can I remind us that all we
9 are doing is targeting the initiation of Accutane
10 in a pregnant woman, so we are affecting that 12
11 percent, and nothing else, unless education
12 actually works.

13 DR. GROSS: Dr. Vega.

14 DR. VEGA: We need to be aware that once
15 we have global registration and we start capturing
16 a larger population, we might end up seeing a
17 larger number of pregnancies that were slipping
18 down the cracks, and when we capture that
19 population, the numbers will go up, and if set that
20 goal, we will be calling that a failure, when, in
21 fact, we are starting to see the real picture.

22 DR. GROSS: A good point.

1 Dr. Bigby.

2 DR. BIGBY: Can I put that slide up? The
3 one thing outside of detecting this group of women
4 who are pregnant when they start the medicine, and
5 eliminating them because we do pregnancy tests, two
6 pregnancy tests before initiating treatment, is
7 that we really need to look at how well sort of
8 contraceptives work and what we are actually doing
9 to change the number of women who get pregnant.

10 DR. UHL: People want to see this one as
11 well. There are two separate slides that we have
12 prepared.

13 [Slide.]

14 This one is the percentage of women
15 experiencing unintended pregnancy during the first
16 year of perfect use of multiple different
17 contraceptive products. These are data from the
18 Contraceptive Technology Reference in 1998.

19 [Slide.]

20 I am happy to go back and forth between
21 these. This slide are contraceptive failure rates.
22 As you can see, both of these are rates calculated

1 in a different way, a different manner. These are
2 contraceptive failures. These are rates per 1,000,
3 I believe there were 1,000 women. Peggy Honein may
4 be able to comment even better.

5 I take this back. I thought these were
6 CDC data. These are ACOG data. The only one that
7 is not per 1,000 is for the IUD data, which are
8 cumulative 5-year failure rates. I think it is
9 1,000 women years.

10 DR. KATZ: Excuse me. The tubal ligation,
11 does that mean 7.5 to 36 per 1,000 failure?

12 DR. UHL: That is total contraceptive,
13 yes. If you look at the previous slide, that is why
14 there is two separate slides here. This is
15 unintended pregnancy with within the 12 months
16 following the initiation of that method. So, here
17 you have a tubal ligation failure rate of 0.5
18 percent. But these are two separate sources of
19 data.

20 These also are per one contraceptive
21 method as Dr. Kweder alluded to this morning. We
22 don't have data on failure rates using two sources

1 of contraception.

2 Maybe patients need to be educated with
3 this information.

4 DR. EPPS: Are all intrauterine or some of
5 them ectopic pregnancies?

6 DR. UHL: I don't have that data.

7 DR. GROSS: I think we are kind of winding
8 down here. Are there any other points? Yes, Dr.
9 Ringel.

10 DR. RINGEL: I think there is two points.
11 The first is that even though the IUD looks very
12 good, people who are not physicians need to know
13 that it carries a significant risk of sterility and
14 pelvic infections, and most gynecologists would
15 refuse to implant an IUD, for example, in a
16 16-year-old girl, so unfortunately, that is not a
17 possibility.

18 Another thing to look at is, in fact, oral
19 contraceptives that so many women use and really in
20 use have a fairly high failure rate. I hate to harp
21 on it again, but anything we can do as an
22 education--I forgot what you called it--something

1 to prospectively remind people to take that pill or
2 remind them if they haven't taken a pill.

3 I don't care if you want to make a box or
4 if you want to make a magnet or a sticker or
5 anything that you could devise to help that number
6 would probably go a long way.

7 DR. GROSS: If there are no other
8 comments, I would declare the meeting adjourned. I
9 want to thank the Advisory Committee for their
10 incredibly excellent input. I appreciate the
11 audience's contributions.

12 Once again, thank you all for an excellent
13 two days.

14 [Whereupon, at 3:45 p.m. the hearing was
15 adjourned.]

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