

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

+ + + + +

FOOD AND DRUG ADMINISTRATION

+ + + + +

PROPRIETARY NAME REVIEW CONCEPT PAPER

+ + + + +

PUBLIC WORKSHOP

+ + + + +

THURSDAY,
JUNE 5, 2008

+ + + + +

The workshop convened at 8:30 a.m. in the Kennedy Ballroom at the Crowne Plaza Hotel, 8777 Georgia Avenue, Silver Spring, Maryland.

FEDERAL PARTICIPANTS:

GERALD DAL PAN, Director, Office of Surveillance and Epidemiology, CDER, FDA

FELICIA DUFFY, Division of Medication Error Prevention, Office of Surveillance and Epidemiology, FDA

CAROL HOLQUIST, Director, Division of Medication Error Prevention, Office of Surveillance and Epidemiology, FDA

ELLE IBARRA-PRATT, Branch Chief, Advertising and Product Labeling Branch, CBER, FDA

SUSAN JOHNSON, Office of Nonprescription Products, FDA

ANDREA LEONARD SEGAL, Office of Nonprescription Products, FDA

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

FEDERAL PARTICIPANTS (CONT.)

PARIVASH NOURJAH, Agency for Healthcare
Research and Quality

LANA PAULS, FDA

KELLIE TAYLOR, Division of Metabolic and
Endocrine Drug Products, Office of
Surveillance and Epidemiology, FDA

DENISE TOYER, FDA

INDUSTRY PARTICIPANTS:

ANDREW EMMETT, Biotechnology Industry
Organization

KATHY GANS-BRANGS, AstraZeneca

STEVEN HARTMAN, Novartis

DAVID KORN, Pharmaceutical Research and
Manufacturers of America

BOB LEE, Lilly

DAVID SPANGLER, Consumer Healthcare Products
Association

MEDICAL/PHARMACY PARTICIPANTS:

ERIC BRASS, UCLA

MICHAEL COHEN, Institute for Safe Medication
Practices

DIANE COUSINS, The United States Pharmacopeia

MIKE GAUNT, Institute for Safe Medication
Practices

MATTHEW GRISSINGER, Institute for Safe
Medication Practices

DONNA HORN, Institute for Safe Medication
Practices

MARJORIE PHILLIPS, University of Georgia

DAN SHERIDAN, Ohio Health

JUDY SMETZER, Institute for Safe Medication
Practices

ACADEMIA PARTICIPANTS:

RUTH DAY, Duke University

FRANK FEDERICO, Institute for Healthcare

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

Improvement

PATIENT ADVOCACY PARTICIPANTS:

RAY BULLMAN, National Council on Patient
Information and Education

PUBLIC SPEAKERS:

JERRY PHILLIPS, Drug Safety Institute
JOHN BREEN, Interbrand Wood Healthcare
SUSAN M. PROULX, Med-ERRS
MAURY M. TEPPER, III, Womble Carlyle Sandridge
& Rice

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

C-O-N-T-E-N-T-S

<u>AGENDA ITEM</u>	<u>PAGE</u>
Welcome and Goals of the Workshop	5
An Overview: Medication Errors related to Name Confusion	13
PLENARY SESSION:	
Overview of the Center's Name Review Process.....	48
Overview of Proposed Safety Name Review Process.....	67
Panel 1 - Safety Review of Proposed Proprietary Names	99
PLENARY SESSION:	
Safety Review of Proposed Nonprescription Drugs	205
Panel 2 - Nonprescription Review of Proposed Proprietary Names	209
Open Public Hearing on Panels 1 and 2 ...	322
Wrap up and Adjourn	393

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

P R O C E E D I N G S

(8:34 a.m.)

WELCOME AND GOALS OF THE WORKSHOP

DR. DAL PAN: So good morning. My name is Gerald Dal Pan. I'm the director of the Office of Surveillance and Epidemiology in the Center for Drug Evaluation and Research at FDA.

And I'd like to welcome you all this morning to the first day of a two-day open public meeting where we are going to discuss a pilot program to evaluate proposed proprietary names for drug and biologic products.

I'd like to thank you all for coming, and I'd like to thank especially our panel members who will introduce themselves later this morning.

We have convened a group of panel members from academia, industry, the private sector and government to discuss some of the complex issues regarding trade names or

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 proprietary names for these products, and we
2 are interested in this because the proprietary
3 name is the main way that the health care
4 system interacts with a product. So our main
5 interest is to ensure that these names are not
6 ever prone, that is, that they don't lead to
7 medication errors and all the unintended and
8 preventable things that can happen as a result
9 of these errors.

10 This is the first, or one of the
11 first parts, of this program, which is one of
12 our PDUFA IV goals. We are going to discuss a
13 concept paper over the next few days, and then
14 implement a pilot program later in the year.
15 So as many of you know our current review of
16 proposed proprietary names is for basically
17 the proposed name to be submitted to the
18 agency and the agency conducts its own
19 analysis of the name.

20 This is different from other kinds
21 of data such as clinical data, pharmacologic
22 data, toxicologic data, chemistry data, where

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 the companies typically submit their
2 evaluations, the result of their research, and
3 FDA reviews it.

4 So under this pilot program we are
5 interested in having the companies conduct
6 their own evaluation and we would review it
7 much like we do for other parts of the
8 application.

9 So how did we get to this point
10 here today? We've had public meetings on
11 proprietary name review in the past, most
12 recently in December of 2003, where we learned
13 what other people were doing, we presented
14 what we were doing. In preparation for this
15 pilot program we had a contractor go out and
16 see if there was any update to what people
17 were doing.

18 And we basically found that there
19 wasn't much new from what was going on in
20 September of 2003. Armed with that
21 information our FDA staff both from the Center
22 for Drugs and the Center for Biologics, worked

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 collaboratively to develop a concept paper
2 explaining what FDA's current process for
3 proprietary name review is, and we put forth a
4 proposal for what we would see industry
5 submitting as a proprietary name submission.

6 And our purpose over the next two
7 days is really to discuss aspects of this
8 proprietary name review process, as well as to
9 discuss the logistics of a pilot program
10 through which FDA would evaluate industry
11 generated data on proprietary names.

12 So this meeting is really about a
13 concept paper. What is it that we are doing?

14 What is it that we can expect of industry?
15 And to comment on what we have proposed in the
16 paper.

17 It is not a session on, this is
18 what it's going to be like, and do you have
19 any questions.

20 So this is really - the concept
21 paper is really a starting point not an end
22 point.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 So we'll have some opening remarks
2 by Mike Cohen from the Institute of Safe
3 Medical Practices; then we'll have some agency
4 presentations. And our first panel this
5 morning will discuss the safety review of
6 proposed proprietary names.

7 This afternoon we'll have again
8 some agency presentations, and the panel will
9 discuss the review of proposed proprietary
10 names for non-prescription products.

11 Tomorrow we will start in the
12 morning with again some presentations, and
13 we'll discuss the promotional aspects of
14 proposed proprietary name review.

15 And then finally in the afternoon
16 we'll have a presentation of the proposed
17 pilot program from a logistics point of view,
18 how the program will work; and the panel will
19 then discuss the pilot logistics tomorrow
20 afternoon.

21 So that's it for my introduction.

22 I'd like to introduce Lana Pauls

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 who has coordinated this. She is going to
2 talk about some meeting logistics.

3 MS. PAULS: Hello. Hi, I'm Lana
4 Pauls, and this microphone is clearly very
5 loud.

6 I have been the logistical person
7 for this meeting. So if you have any
8 questions during the time you are here, please
9 come and see me. We typically, we do have a
10 couple of spots left for the open public times
11 for both this afternoon as well as panel 3
12 tomorrow. Panel 4 is completely filled.

13 That being said, earlier we didn't
14 have any sign-in sheets, so if you didn't sign
15 in today at break, if you could please sign in
16 so we can get an idea of the number of people
17 that are attending the meetings.

18 In regard to specific logistics, if
19 you go out the door and to the right, those
20 are the ladies and mens rooms. We are going
21 to have certain breaks. At lunch time they
22 have set up a buffet, so it should facilitate

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 eating downstairs.

2 Other than that, like I said, if
3 you have any questions at all, please come and
4 see me at one of the breaks.

5 Thank you.

6 MS. HOLQUIST: Good morning. My
7 name is Carol Holquist, and I'm the director
8 for the Division of Medication Error
9 Prevention in the Office of Surveillance and
10 Epidemiology.

11 Before we begin today's
12 presentation I'd really like to take this
13 opportunity to go around the room and have
14 each of our esteemed colleagues that are
15 sitting here today on the panel introduce
16 themselves.

17 So if we could start at the far end
18 with Dr. Cohen.

19 DR. COHEN: Mike Cohen from the
20 institute for Safe Medication Practices.

21 DR. HARTMAN: Steven Hartman,
22 Novartis.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 DR. SMETZER: Judy Smetzer from the
2 Institute for Safe Medication Practices.

3 DR. GRISSINGER: Matt Grissinger,
4 Institute for Safe Medication Practices.

5 DR. FEDERICO: Good morning, Frank
6 Federico from the Institute for Healthcare
7 Improvement.

8 DR. DAY: Ruth Day, Duke University.

9 DR. BULLMAN: Ray Bullman, National
10 Council on Patient Information and Education.

11 MS. PAULS: Lana Pauls, FDA.

12 MS. TOYER: Denise Toyer, FDA.

13 DR. TAYLOR: Kellie Taylor, FDA.

14 DR. LEE: Bob Lee from Lilly.

15 DR. PHILLIPS: Marjorie Shaw
16 Phillips from MCGHealth and University of
17 Georgia.

18 DR. KORN: Dave Korn with PhRMA.

19 DR. NOURJAH: Parivash Nourjah from
20 Agency for Healthcare Research and Quality.

21 DR. SHERIDAN: I'm Dan Sheridan from
22 Marion General Hospital in Ohio. I'm a

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 hospital pharmacist.

2 DR. GANS-BRANGS: Kathy Gans-Brangs,
3 AstraZeneca.

4 DR. EMMETT: Andrew Emmett with BIO,
5 the Biotechnology Industry Organization.

6 MS. HOLQUIST: Great. Thank you all
7 very much for joining us here today.

8 So now I'd like to introduce Dr.
9 Mike Cohen, the president of the Institute for
10 Safe Medication Practices in Pennsylvania.

11 AN OVERVIEW: MEDICATION ERRORS RELATED TO
12 NAME CONFUSION

13 DR. COHEN: Well, good morning,
14 everyone. Greetings from ISMP.

15 I'm very happy to be participating
16 in this meeting this morning. Obviously there
17 has been a great deal of cooperation, I think,
18 between industry and the regulatory agency,
19 the FDA, and also the practitioner community,
20 and I think great improvements have occurred
21 over the years.

22 But obviously we still have some

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 way to go. There are still issues surrounding
2 brand names and non-proprietary names and
3 names of over the counter drugs as well, and I
4 want to touch on some of those today to
5 provide background information.

6 Basically there are many things
7 that can go wrong. We of course for many
8 years have worked with the USP, ISMP
9 medication errors reporting program. And we
10 do receive reports of medication errors
11 obviously involving the nomenclature, the
12 communication of the drug name.

13 I am going to stick pretty much
14 with the ones that you see here on this slide,
15 and there is a handout as well, although there
16 were a couple of mistakes that we corrected
17 this morning so it's not exactly as it is in
18 your handout.

19 However, this is really where I
20 wanted to concentrate my comments. And what I
21 wanted to do is provide all of you with some
22 background information about these types of

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 mistakes that have happened.

2 So many times the reports that we
3 get are not really mistakes, but more concerns
4 about a drug name that are expressed by the
5 practitioner community.

6 We do hear through the USP ISMP
7 program from the practitioners themselves.
8 This is not from the institution or the
9 pharmacy organization, the chain pharmacy for
10 example, but from the practitioners directly.

11 So we can interact with them, and there is a
12 lot of good that can come from that program.
13 And all this information is automatically sent
14 to the Food and Drug Administration.

15 And when it is something like a
16 product-related issue, we do also make sure
17 through USP that the companies are informed as
18 well. So many of you - those of you in
19 industry have been receiving this information
20 all along.

21 But obviously we are going to cover
22 things like look alike and sound alike drugs,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 and I'll have some examples of that both for
2 brand names as well as established names.

3 Dangerous abbreviations and dose
4 designations sometimes, unfortunately, become
5 incorporated in a drug name - we have seen
6 that happen for example with suffixes, and
7 I'll show you some examples of that, as we go
8 along.

9 And we also see them in some
10 journal ads, in some advertisements, which if
11 you've taken a look at the concept paper you
12 know that one of the issues that folks are
13 talking about in that concept paper is the
14 advertising.

15 The suffixes that are
16 misunderstood, or omitted, which I just
17 mentioned.

18 Confusion related to the OTC brand
19 name extensions; unsafe practices in the
20 journal advertising as just mentioned; name
21 confusion with medical terminology or
22 laboratory nomenclature - we have had issues

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 like that, and I have an example of that.

2 Same established name, different
3 substance internationally - that was the
4 subject of a public health advisory from the
5 Food and Drug Administration, and I'll give an
6 example of that.

7 And then also more than one
8 trademark for a branded item for different
9 purposes, different indications.

10 To start off obviously we know
11 about the handwriting problems. And there was
12 a study that was actually done quite some time
13 ago, actually in the late 1970s, it was
14 published in JAMA, that showed that about a
15 third of the handwriting - and I don't know
16 that there is any reason to suspect that it
17 has changed since 1979 - is basically
18 illegible, impossible to read, or at least
19 very difficult to read.

20 That is generally not where the
21 problem is though. Often it's a name that is
22 not so hard to read, but a situation where the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 practitioner actually sees in that name what
2 they are familiar with, not what is actually
3 there. And we refer to that as confirmation
4 bias on your handout, I try to define that in
5 the next slide I think.

6 And obviously this sometimes this
7 situation does result in the patient getting
8 the wrong medication, and unfortunately that
9 does result in harm and sometimes malpractice
10 cases as well.

11 It does delay medication
12 administration, and obviously can also
13 interrupt workflow.

14 And obviously it's not just the
15 look alike, but there are these other factors
16 that I mentioned as well.

17 So this is the definition from our
18 standpoint anyway, and this also applies to
19 labeling and packaging issues as well. And
20 when a practitioner sees in an item not
21 necessarily what is there but what they expect
22 to see, and it's a very strong register in

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 their brain, and they don't even realize that
2 they have the wrong thing in mind.

3 Now these are just some examples of
4 different orders that have been written. And
5 you can see the level of handwriting. Some of
6 them are very poor; some of them are perhaps a
7 little bit more readable than others.

8 But in each case these actually did
9 result in mix-ups. So on the top left, for
10 example, that was actually an order for
11 Provera 2.5 mg that misread as Premarin;
12 conjugated estrogens at 2.5 mg. And I think
13 you can easily see how that could go either
14 way.

15 The thing that makes this even more
16 likely is when you - and this was in the
17 concept paper obviously - you start including
18 information about the dosage strength, the
19 frequency, how that drug is actually used, the
20 environment - all this contributes to it, and
21 for quite some time actually that has been
22 something that I know the companies have

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 considered, and that is something that needs
2 to be in the process that is described in the
3 concept.

4 The one on the top is that Torado
5 or Foradil.

6 The next one down - maybe I have a
7 - I don't have a laser pointer here, but the
8 next one down, the second one from the top in
9 the middle - is that Tegretol, which it
10 actually was mistaken as Tegretol, but
11 actually it's the antibiotic Tequin that was
12 actually being prescribed.

13 Avandia or Coumadin? When Lantus,
14 the basal insulin that so many insulin
15 dependent diabetics, et cetera, take as a
16 basal insulin product, was first marketed,
17 basically everybody saw this without being
18 familiar with the new product, the advertising
19 hadn't reached them yet, the information
20 hadn't reached them, and maybe it was used in
21 their area of practice, they saw this as lente
22 insulin, which was something they used all the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 time.

2 So you can see how easily mix-ups
3 like this can happen.

4 The next one down, Lipitor, Zyrtext,
5 Zyprexa.

6 The next one down underneath that
7 one is the most recent incident that I can
8 remember in recent times anyway where an item
9 was actually - the name was actually changed.

10 This is a drug for hypertriglyceridemia.
11 It's called Omacor. And there is another
12 product that has been used for many many years
13 for bleeding situations called Amicar, and the
14 dosage strengths were the same.

15 And as a matter of fact I can
16 actually recall that there was - and I saw
17 this on the Internet in the approval document
18 - that there was actually a situation where
19 the division was actually presented with this
20 information and it did get by, the division of
21 medication technical support at the time
22 identified this as a problem, and

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 unfortunately it was still approved under this
2 name, and then later on it began to cause
3 problems; many times many reports were
4 received, and it became clear in at least one
5 case of injury that this needed to be changed.

6 It's not just the brand names; it's
7 also the established names. And here are just
8 quite a few of them that we've had.

9 And it's interesting to note, as
10 many of you know, the Joint Commission is an
11 organization that accredits many health care
12 organizations - about 80 percent of the
13 nation's hospitals for example - and they
14 actually have addressed this issue of look
15 alike sound alike drug names by coming up with
16 a national patient safety goal.

17 And what is interesting is, the
18 ones that the hospitals actually have to
19 address on the current list, I think nine out
20 of 10 are these established names, name pairs,
21 not brand name pairs. So I thought that was
22 interesting, and I think probably could do a

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 better job in assigning these names as well.

2 They don't go through the same type
3 of testing process that the brand names seem
4 to go through currently with the industry
5 involvement. So I don't need to go over each
6 of these, but some of these have been fatal
7 events, and obviously that's a situation we're
8 concerned about.

9 The possibility also exists of
10 confusion between a brand name and an
11 established name. In this one, something as
12 simple as heparin, we've had a long-standing
13 problem, even today, where there have been
14 mix-ups between these two IV products,
15 hetastarch, brand name Hespan, and heparin.
16 They share similar letter characters. They
17 are both in IV bags. At one point they looked
18 very similar as well. They are stored on
19 nursing units; they don't go through the
20 typical dispensing process. And for many
21 other reasons that would have to be considered
22 - in fact, I don't think this name today would

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 be approved. I think this is typical of the
2 kind of thing that we don't see anymore. But
3 you can't be smart enough to pick them all up,
4 but this one I think we would have seen coming
5 if we did the type of testing.

6 These names have been around for
7 years obviously, Hespan as well. And
8 unfortunately they are still out there, or at
9 least still used, and occasionally we see a
10 mix-up. And obviously giving a product that
11 is an anti-coagulant instead of a hetastarch
12 to expand blood volume in shock can be a real
13 problem.

14 Just so you know, the Pennsylvania
15 patient safety authority, they have a
16 mandatory reporting program for hospitals.
17 And there are over 600,000 medical error
18 reports in this database since I believe it
19 was June or July, 2004, about 26 or 27 percent
20 are drug related.

21 And we receive those reports, and
22 also helped to prepare articles for the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 advisory. And these are the top names
2 reported by hospitals. This is a mandatory -
3 these are incident reports that are received.

4 And as you can see it's a mix of
5 generic or established names, generic names,
6 and brand name. It's two very well
7 established non-proprietary names, established
8 names. And we have a lot of problems with
9 this type of mix-up, unfortunately.

10 There are some things that people
11 have attempted. One thing that we noticed
12 long long ago was that there was a product
13 called Tubex which was a cartridge that had to
14 be loaded in an injector which was very
15 popular; I think Wyeth made it at the time.
16 And they looked very similar. And there were
17 two drugs that we just had constantly
18 reported, diphenhydramine, 50 mg, and
19 dimenhydrinate, 50 mg, that would get confused
20 all the time.

21 And I remember, this goes back into
22 the `70s, I guess, or maybe early `80s, when

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 Wyeth highlighted the unique letter characters
2 of those names on the syringe itself. These
3 errors just disappeared.

4 And that always stuck in my mind.
5 And when we've had similar events, we've
6 requested actually that the companies or FDA
7 consider using what we tagged, tall-man
8 lettering, it's really mixed-case lettering.

9 The research really doesn't support
10 the use of this, but I'm afraid that the way
11 the research was done was not really - it
12 wasn't well designed. It used more or less
13 the research of these students, for example,
14 rather than practitioners that are more likely
15 to suffer confirmation bias.

16 And there are many ways to
17 highlight these unique letter characters. And
18 I think you can see that doing something like
19 this makes it even clearer that there is a
20 difference between these two names than
21 something just like this. So we still have a
22 lot of research that still needs to be done;

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 it needs to be done right. We have a survey
2 out right now. That's not enough, that's for
3 sure. But I think there may be something here
4 to prevent some of the names. And this has
5 been tried with brand names as well; I'm not
6 sure how successful that has been though.

7 But it may be the way that the
8 characters, the letter characters, were
9 actually depicted. We don't know. We need to
10 do research.

11 Suffixes, I guess the earliest one
12 that I remember having serious problems with,
13 and I mean patients admitted to the ICU, was
14 the XL designation. Up until then we used SR
15 for sustained release, and then a company came
16 out with XL, meaning to them I guess long
17 acting form. And immediately - and we had an
18 immediate release product called Procardia and
19 nifedipine, which of course is a calcium
20 channel blocker. And at the time it was
21 already being used, and we know today perhaps
22 inappropriately sublingually, where the nurses

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 would actually draw the liquid out of the
2 capsule, and inject the solution that is
3 underneath the tongue, it was a sublingual
4 dose, where it would be rapidly absorbed; or
5 at least they thought it was that. It might
6 have been swallowing. And it would have an
7 effect of reducing blood pressure when
8 necessary.

9 Unfortunately almost immediately we
10 had some patients get instead of the telephone
11 order being XL it was heard as SL, so they
12 heard SL and they gave 90 milligram
13 sublingually instead of 10 milligram
14 sublingually.

15 And we also had times one when it
16 was used in lowercase, 90 milligrams times
17 one, as an immediate release, not the extended
18 release. This can be very, very serious
19 obviously.

20 And we also had the number 40 in
21 Roman numerals. That was another thing. We
22 had one woman who was very obese go into a

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 pharmacy aggravated that her doctor had
2 prescribed the extra large Procardia for her.

3 So you never know how these things are going
4 to be taken.

5 Then we also had problems with
6 numeric suffixes, where this was seen as fix
7 doses of the drug rather than five milligrams
8 of the drug, so now we know enough to avoid
9 these numerical suffixes, like Tylenol No. 3
10 is a popular way to describe the Tylenol with
11 codeine, and we'd have three doses of Tylenol
12 rather than Tylenol in that particular
13 strength with codeine.

14 HS is an abbreviation for at
15 bedtime, and this was used here to indicate
16 half strength. This is commonly used, DC, as
17 discontinue or discharge in a hospital; and
18 people might easily see that as discontinue
19 that particular drug.

20 So all these kinds of things have
21 been reported. And then confusion between
22 different suffix designations as far as the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 length or the duration. There is an extended
2 release that USP has designated and a delayed
3 release, but unfortunately depending on the
4 tag, they may or may not correlate between one
5 form generically to another's brand. And
6 unfortunately that sometimes leads to
7 confusion.

8 Name abbreviations, is this
9 hydrocortisone 250 mg or hydrochlorothiazide,
10 50 mg, and believe it or not, there are some
11 products that actually use the designation,
12 and I would think this would not be something
13 that would be approved today, I would hope
14 anyway, incorporating an abbreviation that
15 could actually - to many people it means
16 hydrocortisone, and you still have situations
17 where people give single ingredients.

18 We actually have a list of
19 abbreviations that we think should not be
20 used. I noticed in the concept paper - these
21 are drug name abbreviations - others that were
22 also mentioned with a link to the area of our

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 website that might have that.

2 Verbal orders is another issue, the
3 telephone orders, the oral orders face to face
4 or by telephone, that more and more we are
5 trying to avoid those. There is a specific
6 problem here in that a lot of times doctors
7 will leave orders on an IVR, voice device, and
8 the pharmacist can't even ask questions or
9 repeat back or read back the order after they
10 have transcribed it.

11 And I guess most of you - I kind of
12 screwed this up, I was supposed to tell the
13 joke first. But you see.

14 All right, sound alike names,
15 Femara, FemRT, Serophene or Sarafem, Invanz or
16 Avinza, these are all ones that have been
17 reported through the USGI or I'm sure MedWatch
18 as well.

19 Tamoxifen or Tomoxetine - now
20 sometimes we do get word from practitioners,
21 or we know that there is a study going on, we
22 see something in a journal, we can actually

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 try to alert the system. And these are three
2 that we fortunately we were able to get USAN
3 and other authorities that oversee the non-
4 proprietary name system to change.

5 Tamoxifen is now - or was in danger
6 of being confused with tomoxetine, and we
7 notified the company and they immediately
8 became concerned and really worked to change
9 that name to atomoxetine.

10 Fomepizole or omeprazole is another
11 one. Originally torsemide was torosemide, 40
12 mg, in an ampule, and that obviously would
13 have been confused with furosemide, 40 mg, in
14 an ampule.

15 So these are just some of many that
16 have been - never really either were there and
17 got changed or never actually resulted in an
18 approved name.

19 Another issue that we have on
20 occasion - this is kind of an interesting
21 issue. The issue of a brand name that is
22 very, very well known and used for a specific

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 indication, and then the company gets approval
2 for a totally different indication, and there
3 is a stigma about using the original brand
4 name as far as people's acceptance of this new
5 product. And I can certainly understand that,
6 and FDA has at least on occasion if not
7 regularly allowed a second brand name.

8 And the other issue here is though
9 that we have, two manufacturers have the same
10 product with two different brand names, and we
11 also have other situations where there are a
12 brand and a generic name.

13 In this first case we actually had
14 a patient believe it or not take Wellbutrin,
15 which is bupropion, Zyban for smoking
16 cessation, which is buproprion, and generic
17 buproprion, all at the same time.

18 So this is the kind of thing I
19 think that all of us would be concerned about.

20 Obviously we don't want to see a patient get
21 hurt. We do have ways to pick things up like
22 that now, with computers and the discussions

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 that hopefully are taking place at the point
2 of sale, but they don't always get picked up.

3 So this does have to be taken into
4 consideration.

5 Proscar - Propecia was another one,
6 one for benign prostatic hypertrophy, the
7 other one for hair loss. And then Sarafem and
8 Prozac. These are just some.

9 Here's a drug name-lab test
10 confusion. This actually says, do anti-factor
11 Xa levels, five to six hours after the a.m.
12 dose of Lovenox, which was a low molecular
13 weight heparin. And in fact that was seen as
14 give arixtra five to six hours after the
15 morning dose of - they are both - they would
16 both be thrombolytic drugs, so that would be a
17 particularly dangerous to give to the same
18 patient. And that was the concern there.

19 So that's another thing you want to
20 look at, is the possibility - and there are
21 many others that we have seen over the years -
22 of a drug name being confused with a

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 laboratory test or some other clinical
2 terminology in the patient care unit, so when
3 you look at the concept paper you see that
4 they clearly describe the need to position
5 that product in the area that it is going to
6 be used, using live practitioners to look for
7 things like this. And I think that is a very
8 good thing.

9 Here's an issue that has really
10 bothered me personally because we have seen so
11 many errors with it, and this has to do with
12 biologicals and the nomenclature system that
13 has been around in this regulation since the
14 1960s, and that is that the proper name of the
15 product on the package label shall be placed
16 above any trademark. It's just the opposite
17 of what we do with non-biological products.
18 We put the brand name, and then in half the
19 font size you need to have the generic name.

20 What is the problem with this?
21 Well, that inconsistency sometimes leads to
22 serious medication errors. We have had people

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 repeatedly get the wrong vaccines, for
2 example, and I'm not just talking once or
3 twice; I'm talking in some cases literally
4 hundreds of times. And I think this very much
5 is related to the fact that the brand name is
6 down here, and when people choose a product
7 they are not necessarily reading the entire
8 label panel. Certainly they should, but we
9 know that doesn't always happen unfortunately.

10 And so just the opposite of what
11 you would expect if you are a nurse on a unit
12 and you've seen all the other drugs that have
13 just the opposite, with the brand name and
14 then everything else.

15 And many of these are combination
16 vaccines or multivalent products that is. And
17 they are very hard to read the entire label,
18 really, and the fonts are positioned in a way
19 as well that makes it difficult. So we've had
20 a lot of medication errors.

21 And I know this would probably take
22 an act of Congress or something, because it's

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 in the Code of Federal Regulation. I really
2 think this should be looked at and changed,
3 and get the appropriate politicians engaged,
4 because I think we've had enough of these
5 errors with the vaccines, et cetera, that we
6 know there is a problem with it. And we
7 didn't have these multivalent products and the
8 number of vaccines that we thank God have
9 today 20 years ago.

10 Some changes to the brand name as a
11 result of medication errors - there are many
12 of these that have occurred over the years,
13 the latest being as I said Omacor. But we
14 don't see this very often anymore, because I
15 think people have been looking at these names
16 very carefully before they are approved.

17 The non-proprietary name changes.
18 Amrinone was changed to inamrinone because of
19 confusion with amiodarone; that would be a
20 fatal event in some cases, because they have
21 opposite pharmacological effects on the heart.

22 I talked about tamoxifen and now

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 atomxetine and the others as well.

2 And then we have some issues with
3 over the country drug names which are very
4 bothersome, not just for health professionals
5 but for the patients, the consumers. And
6 we've had for example people that were
7 supposed to have a colonoscopy done, they are
8 given instructions to obtain Dulcolax along
9 with the other substance that they have to
10 swallow over a period of time, and to prepare
11 the bowel, and they go in and they get the
12 Dulcolax right off the shelf, and there it is,
13 docusate. It's a stool softener, it is not a
14 stimulant laxative that was expected.

15 Why does that happen? Because the
16 name, Dulcolax, is very well known; and in
17 fact it is available in different forms with
18 different ingredients. And so it's so easy
19 for someone to pick up the wrong product.

20 When patients come into the
21 emergency room it can affect the health care
22 practitioner, not necessarily with this

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 product, but with some others. I mean what is
2 the patient actually taking? We know Neo-
3 Synephrine as phenylephrine, as a health care
4 practitioner, and if a patient comes into the
5 hospital and you are doing medication
6 reconciliation, they say, I'm taking Neo-
7 Synephrine, you are not going to think it's
8 saline. You are not going to think it's some
9 other ingredient. You are going to think it's
10 phenylephrine, and this leads to the wrong
11 drug being prescribed.

12 There are many like this; some are
13 potentially dangerous. Kaopectate for years
14 we've known kaopectate as kaolin and pectin.
15 Well, those ingredients were changed long ago,
16 and there is a kaopectate product that has
17 bismuth subsalicylate. If you take bismuth,
18 many of you have probably recognized, you can
19 get a black tongue. You can also get a dark
20 stool, and it looks like you have
21 gastrointestinal bleeding of some type, and
22 we've had people get lab tests done as a

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 result of this without even realizing that
2 they were taking this bismuth product.

3 The one on the right by the way is
4 again docusate. So it's not - this is really
5 strange, because we always used kaopectate to
6 stop diarrhea, and here is something you are
7 actually giving to soften the stools for
8 constipation. It says, giant relief - great
9 relief of constipation.

10 This one was very strange too. I
11 don't think you can read this, but this says,
12 great new flavor, same great Maalox. And this
13 is the typical magnesium aluminum hydroxide
14 gel, but how many of you knew that there is
15 another product called Maalox that is called
16 total stomach relief that actually contains
17 not magnesium aluminum hydroxide gel but
18 bismuth subsalicylate and it also says, same
19 great Maalox, same great Maalox.

20 It's not the same great Maalox.
21 People could be allergic to the salicylate
22 component. I mean this is definitely

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 different, and this is what worries us about
2 the brand name extensions.

3 The makers of Tylenol, it's
4 diphenhydramine. We think at the very minimum
5 there needs to be the ingredient that is
6 associated with the original product at least
7 as one of the ingredients. This does not even
8 have that. It is not acetaminophen.

9 Is that Sudafed phenylephrine, or
10 Sudafed pseudoephedrine with a p-e? Many
11 people were confused by that suffix when they
12 had the - after the legislation was passed
13 that we had to dispense pseudoephedrine
14 products behind the counter, this became an
15 issue, and it still causes confusion today.

16 There is even confusion between
17 this an a generic name which I will show you
18 in a minute.

19 The product on the right, Azo, is
20 Phenazophridine. The product on the left is a
21 natural concentrated cranberry tablet.

22 This one really scared me. Qwell

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 was gamma benzene hexachloride that you use
2 for lice. You don't swallow that. And here
3 is a company that came out with a quote
4 unquote drinkable called Qwell, which was for
5 cholesterol health. You can't tell me that we
6 don't have to worry about things like that. I
7 think it's very serious.

8 So here is a Sudafed, or sotalol,
9 the beta blocker? You can see how this could
10 be confused.

11 So all of this needs to be taken
12 into account.

13 And then finally the issues with
14 the advertising. One of the most dangerous
15 abbreviations that we used in medicine - we
16 tried to get it banned, the joint commission
17 doesn't allow it, we've made some progress -
18 is the abbreviation U for the word, unit, like
19 insulin, 10 U, becomes 100, and we have people
20 getting 10-fold overdoses. We want to
21 communicate this in medical school, et cetera,
22 and we are doing a good job of that now, and

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 we have companies that will come out with
2 advertising that depicts these very
3 abbreviations that we feel are so dangerous,
4 and do lead to tenfold overdoses. This is an
5 issue that also needs to be examined.

6 Now this product on the left had
7 the U, and when it was brought to the
8 company's attention they did agree to actually
9 change that. This is quite old, the ad, but
10 that's the good news.

11 Then QD, we have QD misread as QID
12 quite frequently, and that's on the list of
13 abbreviations that should never be used, and
14 it's used all over in ads today. These are
15 just some that we cut out of journals. That's
16 a dangerous abbreviation. And FDA and ISMP
17 did in fact come out with a recommended list
18 of abbreviations that should never be used.
19 There is even a slide set that is on the
20 fda.gov website, and QD is highlighted on that
21 website.

22 The @ sign for atacand, originally

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 the @ sign was used as part of the
2 advertisement; and may still for all I know.
3 And here is an IV order where it was actually
4 used, and it says, run at 5 millileters an
5 hour; it was seen as run at 25 millileters per
6 hour.

7 So don't think these things don't
8 really happen; they really do. And that's
9 why we get concerned about them.

10 Here is another: D5W with two amps
11 of bicarb and 20 mill equivalents of potassium
12 @ 50 ccs/hour, and it ran at 250 ccs per hour.

13 Made up abbreviations for this
14 class of drug, people don't know what they
15 are, so that shouldn't be in a journal ad.

16 And here we have IU, which is
17 international unit, and that is seen as IV,
18 and we've had oral products actually, like
19 vitamin E liquid, injected intravenously as a
20 result of using this abbreviation. So we
21 don't want to see that in journal ads, and
22 that's one of the things that I think people

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 want to look at as well.

2 Keep in mind, and I think one great
3 thing that is happening here is we are moving
4 more and more toward electronic prescribing.
5 It's starting to grow; it will grow with
6 Medicare legislation over time obviously. And
7 we are going to see less and less - there is
8 always going to be some, but we are going to
9 see less and less handwriting.

10 But keep in mind that as we've
11 added electronic prescribing, we've also found
12 new ways to make errors with electronic
13 prescribing. People choose the wrong item off
14 of a screen. They use mnemonics or short
15 names which bring up a variety of names that
16 begin with those letters, and easily you can
17 choose the wrong name. So that's another
18 thing that we want to look at when you are
19 doing a review of a new name. How might that
20 actually be used in a real world simulation or
21 in the real world, how might that actually be
22 chosen incorrectly off of a screen? And that

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 is something that you do pick up as a matter
2 of fact. So again, something to look at.

3 And then I mentioned the
4 international consideration. I'll just
5 mention that. This is a case that did result
6 in a public health advisory from FDA where a
7 patient who was in the United States and took
8 a product, a calcium channel blocker called
9 diltiazem with an extended - in the extended
10 release version called Dilacor XR, and he went
11 to Serbia and he ran out of his prescription,
12 and he went into a Serbian pharmacy and they
13 gave him a renewed prescription for Dilacor
14 XR, and unfortunately it turned out that that
15 Dilacor was a brand name for digoxin. So
16 something else that you want to keep in mind
17 as you look at drug names is, might there be a
18 situation. And it's a very, very difficult
19 area. You don't even know all the databases
20 that are out there. All the names that are
21 out there, but at least some attempt should be
22 made to see if that issue exists.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 And - well, this is just the story
2 on the digoxin and so forth. These are some
3 other drugs that we've run across that the
4 same exact thing happens.

5 So I'll close with that, and again,
6 I'm really happy to be a part of the meeting,
7 and congratulate all of you for working
8 together to solve this problem of medication
9 errors related to drug nomenclature.

10 Thank you.

11 (Applause.)

12 MS. HOLQUIST: Thank you, Dr. Cohen.

13 Now I'd like to move to the FDA
14 presentations, and our first presenter for
15 today is Commander Felicia Duffy, who is a
16 safety evaluator in the Division of Medication
17 Error Prevention.

18 PLENARY SESSION: OVERVIEW OF THE CENTER'S

19 NAME REVIEW PROCESS

20 MS. DUFFY: Good morning.

21 My name is Felicia Duffy, and I'm a
22 safety evaluator in the Division of Medication

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 Error Prevention.

2 Today I will provide you with an
3 overview of CDER's current process for
4 proprietary name analysis.

5 Before I get into the nuts and
6 bolts of my presentation, I'd first like to
7 define a medication error.

8 According to the National
9 Coordinating Council for Medication Error
10 Reporting and Prevention, a medication error
11 is defined as any preventable event that may
12 cause or lead to inappropriate medication use
13 or patient harm while the medication is in the
14 control of the health care professional,
15 patient or consumer.

16 I'd like to point out that the key
17 word in this definition is preventable.

18 So what is the importance of
19 reviewing a proprietary name? Drugs are not
20 identified by numbers or symbols; they are
21 identified by name. So a drug name is a
22 critical identifier amongst thousands of drug

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 products in the U.S. market. And because
2 there are so many different drug products, it
3 is important to be able to correctly identify
4 the intended product, because drug name
5 confusion and identification failures can lead
6 to medication errors.

7 And the bottom line is, medication
8 errors have been shown to cause patient harm.

9 So now that we understand the
10 importance of a proprietary name analysis,
11 let's get into the overview of our current
12 process.

13 A proprietary name review may begin
14 at different stages of a submission. It could
15 begin at phase two of an IND, as an NDA, BLA
16 or ANDA. The applicant can submit up to two
17 proposed names for each product in which they
18 identify their primary and secondary choice.

19 A proprietary name will be re-
20 reviewed when an IND is resubmitted as an NDA
21 or BLA to accommodate any changes that may
22 have occurred with the product or in the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 marketplace during product development.

2 And the name will also be reviewed
3 90 days prior to approval of an NDA, BLA or
4 ANDA.

5 There are two primary areas of
6 focus for proprietary name analysis:
7 promotional and safety. The promotional
8 aspects of a proprietary name is conducted by
9 the staff in a division of drug marketing,
10 advertising and communications, or DDMAC.
11 DDMAC will provide an overview of their
12 process in tomorrow's presentation. However,
13 I would like to note that their opinion is
14 included in our safety review.

15 The safety aspect of a proprietary
16 name is conducted by my division, the Division
17 of Medication Error Prevention.

18 The focus of our safety review is
19 the avoidance of medication errors. Our
20 analysis is a pro-active approach in a
21 multifaceted process in which we identify
22 error-prone aspects of a drug product. This

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 includes the name, label, labeling, packaging,
2 and product design.

3 Although we incorporate the labels,
4 labeling, packaging and product design in our
5 safety review, our primary focus for this
6 presentation will be on the proprietary name.

7 As I just mentioned, a proprietary
8 name analysis is a multifaceted process which
9 is typically done in two phases. The first
10 phase is hypothesis generation, which consists
11 of generating a list of names which may be
12 confused with the proposed name. This can be
13 orthographic and/or phonetic confusion.

14 The second phase is risk
15 assessment. Risk assessment consists of
16 putting the name to the test in a variety of
17 scenarios throughout the drug use system.
18 This also includes the use of a failure mode
19 and effects analysis, or FMEA, which will be
20 discussed in more detail later in my
21 presentation.

22 When we evaluate a proprietary

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 name, we consider its use throughout the
2 entire medication use system, because drug
3 name confusion can occur at any point within
4 the medication use system, and this includes
5 procuring, prescribing, dispensing,
6 administering and monitoring.

7 In order to conduct a proprietary
8 name analysis, in addition to the proprietary
9 name, we also need to know the product
10 characteristics of the drug product, because
11 any or all product characteristics can
12 increase or decrease the risk of medication
13 errors.

14 This list is an example of the
15 product characteristics we consider in our
16 analysis. This is not a complete list, but it
17 gives a general idea of the information we
18 need to know in order to conduct our analysis.

19 Once we have the proprietary name
20 and its product characteristics, we begin with
21 a preliminary screening of the name. If the
22 name fails a preliminary screening, we then

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 find the name unacceptable for the following
2 reasons: the name contains a stem from the
3 United States adopted names, or USAN list;
4 because the Center's view is that USAN stems
5 should be reserved for established names.

6 If a name contains a dosing
7 interval, dosage form or route of
8 administration, we may find the name
9 unacceptable, because these characteristics
10 may change at a later date which could render
11 the name misleading.

12 A name may also be found
13 unacceptable in the preliminary screening
14 phase if the name contains a medical and/or
15 product name abbreviation, because common
16 medical abbreviations and coined abbreviations
17 in a proprietary name may be misinterpreted.

18 We may also find a name
19 unacceptable if it is misleading or ambiguous.

20 For example if a name includes or suggests
21 the name of one or more but not all of its
22 active ingredients, it is considered

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 misleading.

2 Another example is that the
3 proposed name includes or suggests the name of
4 an ingredient that is not included in the
5 product; this is also considered misleading.

6 So after the preliminary screening,
7 we begin to generate names for potential look
8 alike and/or sound alike confusion. Safety
9 evaluators search through literature, drug
10 references, and computer databases such as the
11 Internet and the agency's internal computer
12 database for existing and proposed names that
13 may look and/or sound like the proprietary
14 name, the proposed proprietary name.

15 Another aspect of hypothesis
16 generation is the expert panel discussion.
17 The expert panel is comprised of nurses, and
18 pharmacists, in the Division of Medication
19 Error Prevention, and DDMAC regulatory
20 reviewers.

21 The expert panel meets on a weekly
22 basis, and we rely on our professional and

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 regulatory experiences to generate additional
2 names of potential confusion with the proposed
3 name.

4 We also bring to light any
5 potential issues that may be associated with
6 the drug product. For example, if a proposed
7 drug product has a similar packaging
8 configuration as a currently marketed product,
9 then postmarketing experience along with
10 clinical experience has shown that this
11 packaging configuration is problematic, it has
12 been the source of medication errors, the
13 expert panel will bring these issues to the
14 discussion.

15 So after the expert panel meets, a
16 name simulation study is conducted. Simulated
17 written and verbal prescriptions are given to
18 approximately 120 FDA volunteers who are
19 doctors, nurses, or pharmacists, who in turn
20 respond with their interpretations of the
21 prescriptions.

22 This provides the safety evaluator

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 with qualitative information for predictive
2 look alike and/or sound alike vulnerability of
3 a proprietary name. For instance respondents
4 misinterpreting the letters, I-N, in a written
5 prescription, as the letters, I-A.;

6 So once we've completed the
7 hypothesis generation phase, our next step is
8 to conduct a risk assessment. This
9 incorporates the use of failure modes and
10 effects analysis, or FMEA. FMEA is a
11 systematic tool for evaluating a process and
12 identifying where and how it might fail. The
13 safety evaluator applies their clinical
14 expertise, and expertise gained from
15 postmarketing experience, in order to conduct
16 an overall risk assessment of name confusion.

17 When performing an FMEA, everyone
18 in the medication use process is considered,
19 from the prescriber to the unit clerk who may
20 be transcribing the prescription, to the
21 pharmacy technician selecting the drug, to the
22 pharmacist dispensing the drug, to the health

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 care provider, caregiver, or patient
2 administering the drug.

3 Once potential failure causes have
4 been identified, the next step in FMEA is to
5 determine the effect of the failure. In our
6 risk assessment, we evaluate if the confusion
7 can conceivably result in a medication error
8 in the usual practice setting.

9 We also use FMEA and the principles
10 of human factors, which takes into
11 consideration human performance in the design
12 and development of a product to identify
13 potential sources of error with the labeling
14 and packaging of the proposed product.

15 So as a brief overview, we have
16 conducted a preliminary screening; we've
17 generated names that may be potentially
18 orthographically and/or phonetically confused
19 with the proposed name; and we've conducted a
20 risk assessment of the name using FMEA.

21 This process leads us to the
22 criteria for objecting to a proposed name.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 The criteria for objecting to a name include
2 but are not limited to the following.

3 The first two criteria were
4 identified in the preliminary screening phase.

5 This includes names that contain a USAN stem
6 and names that are considered misleading or
7 ambiguous.

8 If DDMAC objects to a name for
9 promotional reasons, and the review division
10 concurs, the name will not be reviewed from a
11 safety perspective. The applicant is notified
12 and is asked to submit an alternate name.

13 We will also object to a name based
14 on the Code of Federal Regulation, 21 CFR
15 201.10(c)(5), which basically indicates, just
16 strictly states, that if a name is too close
17 in spelling or pronunciation with a
18 proprietary name or established name of a
19 different drug product or ingredient, that
20 name is misleading.

21 Another reason why we may find a
22 proprietary name objectionable is that the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 FMEA findings identify a potential source of
2 confusion between the proposed name, and
3 demonstrates that medication errors are likely
4 to occur under conditions of usual clinical
5 practice.

6 So once a review is complete, our
7 finalized response is sent to the respective
8 review division. In our review we provide
9 overall safety recommendations which include
10 the acceptability of the name; the areas of
11 concern with the label, labeling, packaging
12 and product design; and other safety concerns.

13 In summary, drug names, labels,
14 labeling, packaging and product design are
15 major contributors to medication errors. And
16 this is why we must adequately assess a name
17 and its associated labels and labeling prior
18 to approval.

19 We consider the entire product,
20 which includes a name and its product
21 characteristics, and its use throughout the
22 entire medication use system, because

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 medication errors can occur at any step within
2 the system.

3 Using best test practices, and
4 capitalizing on the preventable and
5 predictable nature of medication errors, we
6 have a great opportunity to develop better
7 names and product designs that enhance safety
8 with an overall focus on the avoidance of
9 medication errors.

10 This concludes my presentation of
11 SDER's current process of proprietary name
12 analysis. I appreciate your attention, and I
13 will now turn over the floor to Elle Ibarra-
14 Pratt from the Center for Biologics Evaluation
15 and Research.

16 (Applause.)

17 MS. IBARRA-PRATT: Good morning.

18 I'm technically challenged this
19 morning. Okay.

20 Good morning. My name is Elle
21 Ibarra-Pratt, and I'm the branch chief of the
22 advertising and promotional labeling branch

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 within the Center for Biologics.

2 My agenda this morning is basically
3 to provide you with an overview of our PPNR
4 process, or proposed proprietary name review
5 process, without repeating what Felicia has
6 already presented, and without repeating what
7 will be presented tomorrow in the promotional
8 evaluation presentation.

9 So but before I do that I'd first
10 like to go over APLB, since some of you may
11 not be familiar with our relatively small
12 group, and go over a little of what we do,
13 which is similar to the Division of Medication
14 Error Prevention and DDMAC at CBER.

15 Towards the end of my presentation
16 there is a list of resources for your
17 information to get more information on CBER.

18 This is our organizational chart at
19 the Center for Biologics Evaluation and
20 Research. APLB is located within the office
21 of compliance, and biologics quality, directly
22 under the division of case management. I know

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 this chart is a little difficult to read, but
2 I want to emphasize the fact that APLB is
3 relatively a small group, but that we do work
4 closely with the surrounding product offices.

5 As I mentioned, we are located
6 directly under the case - division of case
7 management. We have three separate branches
8 within that division. Currently we have five
9 reviewers. Hopefully within the next week or
10 so, we'll have a total of six reviewers.

11 Well, what do we do exactly? We do
12 a number of things. As I mentioned we do
13 similar things to the Division of Medication
14 Error and Prevention in that we do evaluate
15 proposed proprietary names that are submitted
16 within the Center of Biologics.

17 And similar to the division of drug
18 marketing, advertising and communications, we
19 do review promotional materials for CBER
20 regulated products. These include reviewing
21 final promotional materials that sponsors are
22 required to submit at the time of initial

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 dissemination. We also review draft
2 promotional materials that may be submitted to
3 us on a voluntary basis.

4 We conduct surveillance activities
5 including evaluation of complaints that come
6 from various sources. We also assist in the
7 review of proposed labeling. These include
8 package inserts, patient package inserts,
9 medication guides, and instruction for use.
10 And last but not least, we participate in the
11 evaluation of blood donor incentive programs
12 to ensure that they are complying with the
13 labeling regulations, and that the incentives
14 are considered reasonable.

15 So that briefly is who we are, and
16 what we do. Now let's go over our review
17 process which is why we are all here.

18 Basically our policy at the Center
19 for Biologics is that APLB conducts the
20 primary analysis of the proposed name
21 submission. When a submission comes into
22 CBER, it goes to our document room; document

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 room then forwards it to the product office;
2 the product office will then obtain a consult
3 from APLB, and we will do the primary analysis
4 of that name.

5 Although we do conduct the primary
6 analysis, the product office is responsible
7 for making the final decision on the
8 acceptability of the name in collaboration
9 with APLB.

10 The product office is also
11 responsible for communicating the final
12 recommendations to the sponsor or applicant.

13 So what are some of the basic
14 differences and similarities between the
15 center's name review process? I think one
16 major difference is that APLB conducts an
17 analysis from both safety and promotional
18 perspective; whereas at the Center for Drugs
19 the analysis is conducted by two separate
20 groups as Felicia has already described, the
21 safety analysis is done by the Division of
22 Medication Error and Prevention; and the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 promotional review is done by DDMAC.

2 Similar to the Division of
3 Medication Error and Prevention, we do conduct
4 a search of the various databases for sound
5 alike, look alike names; and we also conduct
6 safety evaluation, and as I mentioned, we also
7 conduct the promotional evaluation to ensure
8 that the names are not false or misleading or
9 considered overly fanciful.

10 Unlike CDER, unfortunately CBER
11 does not conduct name simulation studies due
12 to limited resources. However, CDER does
13 conduct name simulation studies on a routine
14 basis.

15 Because a group is relatively
16 small, and we receive a small number of
17 submissions compared to CDER, we do work
18 closely with the product officers,
19 particularly the medical officers, and the
20 Office of Biostatistics and Epidemiology, to
21 ensure that we have all the vital information
22 we need to conduct a thorough evaluation and

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 to ensure that we address all of the safety
2 concerns associated with the product or the
3 product class that may impact our
4 recommendation to the product office.

5 Now once we've conducted and
6 completed our review, we generate a memo and
7 the review is forwarded to the product office.

8 Our recommendations are signed off by the
9 reviewer, the branch chief, our division
10 director, and we do get concurrence by our
11 office director. And as I mentioned, the
12 product office is responsible for
13 communicating our final recommendations to the
14 applicant or the sponsor.

15 So that briefly summarizes our
16 review process. In summary our process is
17 similar to CDER's with a few differences. The
18 last couple of slides are basically for your
19 information, contact phone numbers and website
20 addresses, if you want more information on
21 CBER.

22 And now I'd like to turn it over to

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 Kellie Taylor. She'll be discussing the
2 safety evaluation that is proposed in the
3 concept paper.

4 Thank you for your attention.

5 (Applause.)

6 PLENARY SESSION: OVERVIEW OF PROPOSED SAFETY
7 NAME REVIEW PROCESS

8 DR. TAYLOR: Good morning everyone.

9 I'm going to be discussing the
10 proposed pilot program that we have created to
11 evaluate the name submissions.

12 My name is Kellie, and I'm a team
13 leader in the division of medication error
14 prevention, currently in the Office of
15 Surveillance and Epidemiology. So I'm on the
16 drug side, but I'll be presenting today for
17 both drugs and biologics, the safety review
18 component.

19 And this is basically what is laid
20 out in the concept paper Section 4A.

21 So the safety review process is
22 designed to enable pharmaceutical firms to

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 evaluate the proposed proprietary name and
2 submit the data gathered from those
3 evaluations to FDA for review.

4 The idea being that this may help
5 to ensure that pharmaceutical firms can choose
6 an appropriate proprietary name for their
7 product, and avoid names that are likely to
8 lead to medication errors.

9 You will see that the design of the
10 pilot program are based on recommendations and
11 best practices that pharmaceutical firms can
12 use when carrying out the name reviews. And
13 these are largely based on what FDA currently
14 uses.

15 There's pretty much two components
16 to the safety review process and two
17 objectives. The first is to generate a list
18 of names that could be confused with the
19 proposed proprietary name; and the second
20 objective is to assess the risk of that
21 confusion with the names identified with the
22 proposed name.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 And I'll start by going through
2 first how we think the list could be
3 generated.

4 Similar to what Felicia outlined,
5 we believe that pharmaceutical firms could
6 conduct the preliminary screening to look at
7 their names and see if it includes a dosing
8 interval, dosage form, route of
9 administration, medical and/or product name
10 abbreviations, and names that include or
11 suggest a composition of the product, as some
12 of these names might not be viable candidates
13 for submission.

14 Also as Felicia mentioned, we
15 recommend that they search a USAN stem list.
16 FDA believes that the stems should be reserved
17 for established names, and names that are
18 proprietary names encoding a USAN stem may not
19 be viable candidates for submission.

20 When you are generating a list the
21 main things you are looking for is to identify
22 names with orthographic and phonetic

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 similarities. Considerations would include
2 the spelling of the name, the appearance of
3 the name when scripted - and this can be done
4 by examining handwriting samples; and the
5 pronunciation of the name when spoken.

6 We are recommending that the
7 sponsor consider both the intended
8 pronunciation along with unaided pronunciation
9 to account for variations that are likely to
10 occur in the real world.

11 Using these aspects we recommend
12 that you consider those and compare them to
13 existing proprietary and established names and
14 publicly available databases. We have listed
15 the databases in the appendix of the concept
16 paper, and we recommend using a combination of
17 them, because not one database contains a
18 repository of all drug names.

19 To supplement these searches, we
20 recommend that sponsors employ computational
21 methods. Computational methods have
22 algorithms that can detect the similarity of

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 product names from a phonetic perspective and
2 orthographic perspective or both, and we
3 believe that this is useful in hypothesis
4 generation but perhaps has limitations for
5 risk assessment.

6 We also believe that it's valuable
7 to collect medication error data, particularly
8 when an active ingredient is marketed
9 domestically or abroad. Relevant information
10 could include any error reports related to the
11 nomenclature; active ingredient; packaging,
12 and label/labeling of the product. And these
13 data can be obtained from published literature
14 and relevant medication error databases.

15 In addition we are recommending
16 that sponsors conduct name simulation studies.

17 The goal of these name simulation studies
18 would be to provide a descriptive assessment
19 of how the name could be misinterpreted.
20 This could be done by testing the response of
21 practitioners to a proposed name by asking
22 them to use it in a simulated environment, and

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 we are recommending that they simulate the
2 real use conditions as near as possible using
3 lined paper, background noise, prescription
4 pads, handwriting, and even electronic order
5 entry if possible.

6 And we think that the name should
7 be presented with corresponding product
8 characteristics that are likely to be used to
9 communication prescription orders as Dr. Cohen
10 presented, those obviously can influence the
11 likelihood of error.

12 So the name simulation studies: we
13 look to detect a close to zero percentage
14 error rate with significance, it would require
15 a prohibitively large sample size. So that's
16 why these aren't being used to firmly
17 establish the risk of the name.

18 FDA statisticians internally
19 calculated it out to be about 26,000
20 participants.

21 Instead we recommend that you
22 assess the performance of the medication name

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 through a well designed parallel group
2 observational study in which each group
3 represents different prescribing scenarios.

4 The participants of the name
5 simulation studies should include current
6 prescribers, transcribers, dispensers and
7 administrators of the product. It should be
8 representative of the full range of persons
9 involved, and include generalists even if the
10 proposed drug is a specialty product to
11 probable the risk of confusion when it is
12 outside of its specialty area.

13 Each participant in the name
14 simulation study for the name should
15 participate only once, so within the scenario
16 it should participate only once, but you could
17 use the same group of participants to test
18 across the variety of names.

19 We're recommending that you employ
20 a minimum of 20 scenarios to represent each
21 possible prescribing condition for the
22 proposed drug, and to test each of these

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 conditions several times

2 We are recommending that you embed
3 the test name into a list of two or three
4 other names of marketed drugs to mimic the
5 real world setting, and also consider the
6 verbal scenarios using unaided pronunciation
7 in addition to the intended pronunciation to
8 be reflective of real use.

9 We are recommending that you
10 collect data at the end of the name simulation
11 studies and interview the participants. This
12 is outlined also in the concept paper. To get
13 qualitative data and record all verbatim
14 responses, and then code the responses and
15 analyze them.

16 So after completing that we think
17 you probably would have generated a pretty
18 comprehensive list, and could go on to test
19 the likelihood of confusion between that list
20 of names and the proposed name.

21 And we are - as our current
22 practice is, we are thinking that failure

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 modes and effects analysis would provide a
2 good tool to assess the risk. FMEA is a
3 systematic, prospective method used to examine
4 the way the nomenclature for possible ways in
5 which a failure - that is, error - can occur.

6 Consider the intended indication of
7 the product characteristics to anticipate the
8 use of the product in the proposed prescribing
9 conditions, and use FMEA to identify failure
10 modes and analyze the effects.

11 To conduct an FMEA you will need to
12 assemble a team. The team should be
13 multidisciplinary and include health care
14 professionals with experience in actual use
15 settings, as well as members with expertise in
16 the field of medication error prevention.

17 And typically this would be about
18 eight to 12 members.

19 The first step would be to identify
20 failure modes by comparing the proposed name
21 to all of the names gathered during the safety
22 review process, and ask two questions to

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 assess the vulnerability to confusion.

2 And these questions are also laid
3 out in the concept paper.

4 The first question basically is
5 asking, could the similarity of the name to
6 other proprietary or established names cause
7 confusion at any point in the medication use
8 system?

9 And the second question, probing
10 the - whether other aspects of the name could
11 be - possibly unrelated to the orthographic or
12 phonetic similarity, could be misleading or
13 cause confusion.

14 When looking at these questions if
15 the answer is no, we are recommending that you
16 provide the centers with relevant information
17 to determine that the similarity would not
18 lead to confusion or error.

19 However, if the answer is yes, we
20 think that this indicates a failure mode, and
21 the potential effect should be evaluated to
22 determine if the confusion may lead to a

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 medication error.

2 When you are analyzing the failure
3 effects, the basic question that you are
4 asking is, could this confusion result in a
5 medication error in the usual practice
6 setting?

7 You analyze the failure effects.
8 You submit the FMEA and findings if the
9 confusion is unlikely to result in a
10 medication error. However if the effect of
11 the failure is determined to be a source of
12 medication error under the proposed
13 prescribing conditions, we believe that you
14 should consider evaluating an alternative name
15 for submission, or consider justifying why the
16 findings might not lead to error, why the risk
17 of error is acceptable, or suggesting other
18 risk reduction strategies.

19 And so at this point, this
20 concludes the safety review component of the
21 presentation, and I'm going to turn it back to
22 Carol for clarifying questions.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 (Applause.)

2 MS. HOLQUIST: Thank you, Kellie.

3 Now I'd like to ask any of the
4 panelists if they have any clarifying
5 questions for any of the presentations you
6 have heard this morning?

7 DR. DAY: I'd like to ask Kellie to
8 comment on the name simulation studies. It
9 looks wonderful in the concept paper. In
10 terms of who's doing it and the different
11 scenarios and so on. But I cannot tell for
12 sure what the task is that people are asked to
13 do.

14 DR. TAYLOR: The basic task I think
15 that we are asking them to do is to take the
16 proposed name, work with the - put the name
17 into an actual prescription, a verbal order,
18 written order, what have you, and to run it
19 through each of those scenarios laid out.

20 So from prescriber to pharmacist to
21 nurse to ward clerk, what have you.

22 DR. DAY: And then what are the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 outcome measures? Are you looking at - do you
2 get a dependent variable out of each person,
3 like what did that person say or do at each
4 point, or just at the end what happened? So
5 what are you measuring?

6 DR. TAYLOR: I think both. I think
7 we would be interested to have all of the
8 qualitative information about what the
9 interpretations were at each of those points,
10 and what the end result was, did it make it
11 from A to B without being misinterpreted. And
12 if it did get misinterpreted, how was it
13 misinterpreted, and for what reason.

14 DR. DAY: But what task do they do?
15 Does the ward clerk say or write to someone
16 else, and then that is your observation that
17 you can then score for correct or incorrect?

18 DR. TAYLOR: Precisely. It would be
19 observational.

20 DR. DAY: All right, thank you.

21 DR. FEDERICO: Hi, Frank Federico.
22 I just have a question for clarification. If

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 in your process, whether it be the simulation
2 or the FMEA or whatever, there is one
3 individual who makes an error. Is that enough
4 now to stop the process and consider that? Or
5 is it just one person? Because sometimes you
6 don't know you make an error until you
7 actually make it.

8 DR. TAYLOR: I'm trying to
9 understand. So is the question that if the
10 misinterpretation occurred between A and B,
11 would you continue to do C and D?

12 DR. FEDERICO: If it's just one
13 individual who makes that error, is that
14 enough to -

15 DR. TAYLOR: I think you would
16 continue the entire simulation process to see
17 what the end result would be. But we would
18 want to know was that error carried all the
19 way through or was it not?

20 But we are more interested in the
21 qualitative, how is it being misinterpreted,
22 rather than trying to pinpoint where it would

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 be misinterpreted it.

2 DR. FEDERICO: Okay, I guess my
3 point just thinking through, when I think of
4 Mike Cohen's reports, it's usually one
5 individual reporting that raises the flag for
6 considerable interest or concern that there
7 might be an issue there, and whether or not in
8 this process that one voice is enough for
9 somebody to say, we've got an issue here.

10 DR. TAYLOR: Well, all of these
11 findings from the database searches,
12 everything that's laid out is integrated.
13 Certainly if it was a dead hit with another
14 name, that would be a red flag for us looking
15 at the analysis. But also just looking at -
16 is it that they are always mistaking a Z for a
17 B in the verbal study. Should we be looking
18 at more B names?

19 So it's more of a supplemental
20 qualitative component rather than a hard stop.
21 There is no line where that name is
22 absolutely not a viable candidate just because

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 you have something happening during a name
2 simulation study.

3 DR. GRISSINGER: Can I have one
4 clarifying question? Do you also, would you
5 take into account the potential for harm if an
6 error occurs? It looks like through all this
7 was whether confusion would occur, yes or no.
8 Would it also take into consideration the
9 chance or level of potential harm?

10 DR. TAYLOR: I think in the
11 premarketing I think as Felicia mentioned we
12 very much are thinking that name confusion is
13 a preventable source, whether the harm is
14 going to be grave or not, our stance I think
15 is still that these are preventable errors,
16 and that we should do our best in the
17 premarketing phase, because these are very
18 difficult to remedy in the post marketing
19 phase.

20 Even as Dr. Cohen outlined with his
21 name changes, those are rare, and it takes a
22 lot of effort, and it doesn't always fix the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 problem straight away.

2 So I think the harm consideration,
3 I'll allow Carol to comment further on this,
4 but I think that it's preventable.

5 MS. HOLQUIST: No, you're exactly
6 right, that is exactly how we look at it, is
7 that it is a preventable event, and so if we
8 can see that in our simulation studies here at
9 the agency, before it actually ends up going
10 to the real world, ends up causing a problem,
11 it's probably going to be exponentially
12 greater once it reaches the real world, so we
13 are actually trying to minimize those prior to
14 approval.

15 DR. LEE: A clarifying question. In
16 the 20 scenarios that were discussed, it's to
17 be repeated several times. You did make clear
18 that the respondents in that set of scenarios
19 can look at more than one name, in repeating -
20 in doing the repeat several times I think it
21 says in the paper. That suggests you would do
22 that with different sets of respondents?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 DR. TAYLOR: To clarify, the reason
2 we don't want the participants to repeat
3 within the same simulation study is to avoid
4 learning bias that may be associated with that
5 proposed name.

6 However if you were as a firm had
7 10 name candidates, say, you could run all 10
8 names with the same set of participants, and
9 thereby reduce your overall sample size.

10 So the clarifying point would be
11 that you can - you don't want to reuse the
12 participants within the same simulation, but
13 you can use multiple names for the same
14 participant population.

15 DR. LEE: It used a number, I think
16 the number was 70, in that one table that was
17 in the paper. So if you were to repeat that
18 five times let's say, that would be 350?

19 DR. TAYLOR: No, you would have that
20 - what would you repeat it three times for?

21 DR. LEE: I thought you had - I
22 thought the paper had indicated that you would

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 run it several times?

2 DR. TAYLOR: No, each - well, those
3 20 scenarios laid out actually include
4 repetitive scenarios, so we have like three
5 written sort of scenarios, three electronic
6 order entry scenarios, three verbal scenarios,
7 so the repetitiveness of the scenarios is
8 actually already built into the 20, so you'd
9 be looking at just the 70.

10 DR. LEE: Thanks.

11 DR. NOURJAH: I have a question
12 about the scenarios. You are - this list of
13 scenarios, the 20 you put, is it set in stone,
14 we have to follow this?

15 DR. TAYLOR: No, I think we
16 certainly would encourage thoughtful
17 consideration as to how the product would be
18 used. If you had maybe a nuclear radio
19 pharmaceutical or something where all of those
20 scenarios wouldn't be appropriate, and all of
21 those individuals and perhaps other
22 individuals would be more appropriate, such as

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 wholesale distributors or something like that.

2 Those are just - we wanted to give
3 a visual image that people could work with
4 rather than just rely on the text. So the
5 simulation scenarios aren't set in stone, but
6 they are given for a guideline. And I think
7 in the paper it was actually for a solid oral
8 dosage form if I remember correctly.

9 So it's just to show what we kind
10 of envision. So it's not set in stone, no.

11 DR. NOURJAH: And for each scenario
12 you had a direction, like physician B to a
13 nurse, then to pharmacist, then to nurse D.
14 To you want that direction to be conducted?

15 DR. TAYLOR: It should be directed
16 in the same way it would in the real world
17 setting. So either physician to nurse, or
18 nurse practitioner to nurse. I mean it should
19 be as simulated, as close to what it would be
20 in the real world setting. So it wouldn't
21 make sense to go back from pharmacist to
22 physician unless it was some drug that you

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 would need to get clarification on. So yes it
2 should be.

3 DR. NOURJAH: You wanted our
4 response later about -

5 MS. HOLQUIST: Right, just right now
6 we are taking clarifying questions.

7 DR. HARTMAN: Clarifying question:
8 Is the FMEA panel being asked to make a
9 conclusion as to whether the name should be
10 accepted or not? And if yes, if the panel is
11 being asked to make a recommendation, what
12 standard are they to use that a name is
13 acceptable or not?

14 DR. TAYLOR: The FMEA panel, in
15 going through the FMEA process, would be
16 making a conclusion about whether the name is
17 acceptable or not, and thereby submitting it
18 or not, or submitting it with the
19 recommendations about why the risk is
20 acceptable; what could be done to prevent the
21 risk of confusion; so on and so forth.

22 So yes, the FMEA panel would be

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 making a conclusion and recommendation. The
2 criteria which they go, Felicia and Ellie had
3 laid out, are typical review criteria which
4 will remain the same. We will be looking at
5 the data with the same criterion applied as to
6 whether the name is acceptable, based on
7 whether it's the pilot program or our current
8 review process.

9 Maybe Carol would like to comment
10 further.

11 MS. HOLQUIST: Yes, I think what you
12 are asking is that once the failure mode
13 effects team does their analysis, and they
14 will come to a determination, what are they
15 using to make their determination; is that
16 what you're asking?

17 DR. HARTMAN: Yes.

18 MS. HOLQUIST: Basically they are
19 relying on their clinical practice and their -
20 whoever is on the team that has expertise in
21 medication error, to know what are the typical
22 causality of these things. Because when you

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 are doing your failure modes you are looking
2 at how things can go wrong, and why they can
3 go wrong. And you will see as you go through
4 these are the - they will know at the end of
5 doing that exercise whether or not something
6 is going to slip through that is not going to
7 be identifiable, and you are going to end up
8 with a medication error at the end of the day.

9 DR. HARTMAN: So it's fair to say -
10 and maybe I'm stating the obvious - but it's
11 fair to say it's basically a judgment call.
12 They will look at the overall risk attached
13 with various names that they considered, and
14 they will make a judgment call as to whether
15 or not the risk is acceptable?

16 MS. HOLQUIST: Yes, basically yes.

17 DR. HARTMAN: Thank you.

18 DR. GANS-BRANGS: Also for
19 clarification, there are statements about
20 coding, and I was just wondering if there was
21 going to be specific advice about how to code
22 responses?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 On Table 3, it's an example of
2 coded responses and follow up questions. So
3 it's got a yes, a no, and then a brand X or a
4 brand Y.

5 DR. TAYLOR: I believe coding is
6 just a term for capturing the response and
7 correlating the data in a meaningful way. So
8 it's not really like, code it according to
9 some specific MedDRA coding or something like
10 that. It's just really just organizing the
11 data. So it's not coding.

12 DR. GANS-BRANGS: Thank you.

13 DR. PHILLIPS: The follow up to
14 Bob's question, the name recognition requires
15 actual practitioners that understand the real
16 world, and a certain amount of naivete would
17 be useful.

18 Do you see each sponsor developing
19 a panel? And how large a panel of active
20 practitioners would they need to be able to
21 test all the different names over a period of
22 time as opposed to one particular submission

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 for one product?

2 DR. TAYLOR: For the name simulation
3 studies? Is that what you are referring to?

4 DR. PHILLIPS: For a single sponsor
5 that is doing this over time for a number of
6 products, how big a pool of practitioners do
7 you think that they would need to be able to
8 use but not overuse those participants in
9 providing feedback and comment?

10 DR. TAYLOR: As far as a pool, I
11 think that would be an excellent point to
12 discuss with some of the members on the panel.

13 I think - I don't know what the learning bias
14 would be by reusing the same pool of
15 practitioners. Maybe some of the social
16 scientists from our group could comment about
17 the reuse of practitioners across multiple
18 studies. But I think -

19 MS. HOLQUIST: Yes, I think that is
20 exactly what we want to hear from the group
21 today, how we would operationalize some of
22 this methodology in real world.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 DR. SHERIDAN: When Mike Cohen was
2 talking about the over the counter drugs and
3 the name extensions that are different
4 products, if someone did that with a
5 prescription product, would that automatically
6 fail the preliminary screening? I didn't see
7 it listed.

8 DR. TAYLOR: I don't think that that
9 could fail the preliminary screening. I think
10 that if you walked it through an FMEA process,
11 I think it would probably fail that. But it's
12 a preliminary screening, it's sort of an easy
13 way to look at the name and readily identify a
14 problem.

15 To me, although it might seem
16 obvious for those of us working in medication
17 error prevention, that that is readily
18 apparent. The way to work out that would be
19 through an FMEA, and not through preliminary
20 screening process.

21 DR. SHERIDAN: Thank you.

22 DR. COUSINS: Kellie, you mentioned

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 the pronunciation of a name when spoken will
2 be considered as part of the simulation. It
3 says, consider the sponsor's intended
4 pronunciation. Are you expecting that a
5 pronunciation guide would be created for each
6 drug name then distributed? Or is this
7 something that is verbally transmitted and
8 communicated to those that are testing this?

9 DR. TAYLOR: I think that you would
10 want to use in a simulated environment both
11 what you as a firm believe the name should be
12 pronounced as. I know we've reviewed
13 sometimes names where it's very differently
14 pronounced than what we thought it would be.

15 And then once the marketing gets
16 out there, then everybody pronounces it as the
17 firm does, or half of the people do; but there
18 are always going to be variations in just
19 natural dialects. So I think a lot of times
20 we do ask clarifying questions even now in our
21 current review process, for the first to
22 clarify how they think this name should be

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 pronounced, so we can consider it that way as
2 well what we were just naturally - how we
3 would naturally speak that name.

4 DR. COUSINS: Another question if I
5 may. You mentioned USAN a few times, and
6 we've had at USPS we are creating official
7 titles, we have seen cases where a USAN has
8 not yet been applied for or assigned. Are you
9 expecting to do any kind of screening with the
10 international non-proprietary names, which is
11 a program that the USAN council does look to
12 as it's creating its names? So in other words
13 the USAN name could be created sort of after
14 the fact of all this. And I just wondered,
15 since they used guidance from the
16 international non-proprietary names program,
17 would you be expecting any consideration of
18 that in this evaluation?

19 MS. HOLQUIST: Actually, no, because
20 we really don't have control over the USAN
21 name. We have an FDA representative who sits
22 on the USAN council. But that is run by - as

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 you said, it's a different organization. So
2 at FDA we don't really have control over what
3 the established name or the generic name of a
4 drug product might be.

5 So if we are doing our evaluation
6 and we see a name that might get confused with
7 either a trade name or another established
8 name, we'll actually - we actually have to
9 contact our FDA representative to bring that
10 back to the council. But oftentimes it's a
11 little bit too late, because the name has
12 already been established.

13 So that is one of the difficulties
14 we have when we are evaluating the names.

15 DR. KORN: I have a question about
16 the slide where you refer to collecting
17 medication error data. You were focusing on
18 the active ingredient and had a comment about
19 what would be relevant. It would seem that
20 some of it, especially if it includes abroad,
21 foreign data, may actually be using a
22 different proprietary name, and there could be

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 language differences. Do you have a sense for
2 what the focus should be on that kind of data?

3 DR. TAYLOR: I think that our sense
4 is that even if it is marketed under a
5 different proprietary name abroad that that
6 would still be useful to know. A lot of
7 companies seem to be wanting to do a global
8 trademark at this point anyway. But it's
9 always relevant for us to know, if not
10 necessarily for the name risk assessment, but
11 possibly if it has modifiers, or product
12 strength confusion, labeling confusion abroad,
13 it is relevant to consider when we are looking
14 at the risk assessment how it's been
15 performing abroad.

16 MS. HOLQUIST: Okay, if there are no
17 more clarifying questions?

18 DR. HARTMAN: I have one more
19 clarifying question. I'd like to have a
20 better understanding of how the name
21 simulation groups work.

22 You list on page 17 in table number

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 two a number of different possible - the
2 composition of various different groups. The
3 first group contains a physician, a ward
4 clerk, a pharmacist and a nurse. In that
5 group, that group would be given, let's say,
6 one name; let's say you are only testing one
7 name, so that group would be given one name,
8 and each participant would respond and
9 ultimately you would get some data, and make
10 some qualitative as well as quantitative data
11 from that group.

12 In other scenarios, you also have a
13 physician. Why would you have a physician in
14 another group, when he or she has already
15 appeared in the first group?

16 DR. TAYLOR: We're trying to collect
17 as much qualitative information as possible
18 using different handwriting samples, different
19 pronunciations. So I think the reason we
20 would have another physician in another group
21 is just to be able to run that same name, that
22 same context, back through the system and see

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 if different individuals see something
2 differently based on what their practice and
3 experience is.

4 DR. HARTMAN: You mean with a
5 prescription in a different form perhaps?

6 DR. TAYLOR: Perhaps, yes.

7 DR. HARTMAN: But they wouldn't be
8 allowed to see the same name, because that
9 would create some bias.

10 DR. TAYLOR: It would be a different
11 physician, and they would be seeing the same
12 name.

13 DR. HARTMAN: I understand. Thank
14 you.

15 MS. HOLQUIST: Okay, since there are
16 no more clarifying questions, we are actually
17 scheduled for a break at this moment. We are
18 scheduled to be back here at 10:15, so that
19 gives us 10 minutes. And then we will go into
20 some of the questions that we have posed for
21 the panel.

22 Thank you.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 (Whereupon, at 10:06 a.m. the proceeding in
2 the above-entitled matter went off
3 the record to return on the record
4 at 10:16 a.m.)

5 PANEL 1 - SAFETY REVIEW OF PROPOSED

6 PROPRIETARY NAMES

7 MS. HOLQUIST: Okay, thank you for
8 rejoining us.

9 Now we would like to continue with
10 much of the discussion about some of these
11 aspects that we put into the concept paper.
12 We really want to hear, as Dr. Dal Pan
13 mentioned in his introductory remarks, that we
14 are really looking for feedback on what are
15 some of the strengths and the limitations of
16 what we have proposed in the presentations.

17 And then we'd like to know if there
18 are alternate approaches or methods that FDA
19 might be able to consider in their assessment
20 of these names. And if there are any, please
21 be specific and describe what they can offer
22 that is superior, or even if it's a better or

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 another method that we can use in addition to
2 what we have already- it'll be complementary
3 to what we have proposed.

4 So I'd like to start the discussion
5 with focusing on some of the strengths and the
6 limitations of what we have proposed. And
7 I'll open it up to whoever would like to speak
8 first. Parivash, I know you- okay, sorry.

9 DR. FEDERICO: Carol, is the
10 question around the specific way that you look
11 at the name review, or the entire proposal of
12 putting this on the manufacturers to complete
13 this process?

14 MS. HOLQUIST: Both.

15 DR. FEDERICO: Both? Okay, great.
16 So here are some thoughts. One is, I've been
17 thinking about what it means to push this out
18 onto the manufacturers. And I think there is
19 value to that.

20 One is that it's to their interest
21 to review the drug names in much more rapid
22 fashion, because it will help them get the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 drugs on the market much more quickly.

2 I think that if they do the work up
3 front, when it gets to the FDA for review,
4 conceptually, the whole program, it means that
5 they are not presenting you with something
6 that might get pushed back to say you've got
7 to do this all over again; it doesn't work.
8 Or whatever it might be. So there are many
9 pluses to doing it in that way.

10 The plus for the FDA I think is
11 that someone else is doing the work. There is
12 the transparency that others are seeing
13 exactly how the process goes, and how it's to
14 be completed. So again I think that's a plus.

15 And it's been eye-opening for me.
16 I'm a pharmacist by training, and I didn't
17 know all the work that you are doing, so
18 congratulations on that.

19 The downside that I see is that you
20 now have a standardized process where you know
21 how to do this, and now we are going to be
22 asking each of the manufacturers to replicate

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 this when it goes out into the real world, and
2 I worry a little bit about that because, not
3 to say that they can't do that, but in our
4 work, as we think about how hospitals
5 implement programs, et cetera, et cetera, even
6 the FMEA process- there is a lot of
7 subjectivity to that. So there are the
8 pluses, of yes, it works. It'll probably
9 speed up the process, and as you think about
10 this in your evaluation process, I think one
11 measure ought to be, did the approval process
12 for the drug name, was it shortened in any
13 way? Did it go any more quickly than it would
14 have gone through the natural channels that
15 you have?

16 And the flip side is, is there a
17 lot more variability on what we're getting,
18 and how it's being challenged with that.

19 Just one thing before I give up the
20 mike. Somewhere in here I am going to
21 recommend strongly, and I know we have a
22 representative here from patient group, even

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 in the FMEA process we need to consider
2 putting a patient there on the panel
3 somewhere.

4 As we push forward with medication
5 reconciliation, and many of you may know, that
6 is a joint commission requirement. IHI
7 started that as a safety initiative many years
8 ago. As we consider those drug names, we need
9 to consider what it means for the patient, who
10 now we are asking to be much more involved in
11 the process in knowing what medications they
12 are taking.

13 MS. HOLQUIST: Thank you. And I
14 just wanted to respond to one of your
15 comments, where your concern about pushing
16 this out to the industry.

17 But do you at least feel that if in
18 fact we are being transparent with some of
19 these processes, that it would help industry
20 to think a little bit more about some of the
21 names that they do submit to the agency, it
22 would at least, at the very least, provide a

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 little bit of framework for what are some of
2 the things you should avoid.

3 DR. FEDERICO: Yes, I agree. I
4 think that that is important, if I didn't make
5 that clear. It's putting the onus on them to
6 say, think about this before you send it to
7 us. Do your due diligence, and it makes life
8 a lot easier for everybody if you've done your
9 job. I agree with you there.

10 DR. NOURJAH: Carol, I think it is a
11 good idea to push it on the sponsor to do
12 this. But until you don't have a good set-up
13 standard, or good standard, I don't think it's
14 going to make your work easy, or the process
15 of the name coming to the market would be
16 shorter.

17 In fact, I think it would be longer
18 for some time, until you put everything in
19 place and standardize it. I think the company
20 is going to do it, and again you are going to
21 do it and confirm it to make sure it's
22 conducted adequately.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 Because the system you have is very
2 well-established. You have the experts that
3 the company may not find. Dr. Cohen may be
4 one of them as an expert, but it's hard to
5 find the type of expert and safety reviewer
6 that should be part of the name evaluation
7 outside of FDA.

8 So you have the system until the
9 whole procedure is not standardized, I don't
10 see the procedure is going to be fast.

11 But what I would recommend is that
12 some of the experience you have, perhaps you
13 can train some other people, and I don't know
14 how that training should be composed, but you
15 can train them, you can test them, and then
16 give individuals certificates, so at least
17 there would be some standardization for safety
18 evaluators that work for the- evaluate it for
19 the company.

20 But for other- for simulation,
21 which is very good to conduct, I believe you
22 are - there is - that procedure, every

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 procedure that you have has to be
2 standardized, and you are way at the
3 beginning. This is just the beginning of the
4 bigger things. And you have to give yourself
5 more time than two years; maybe four years,
6 five years. But it is- the positive of what
7 you are doing today is that you are engaging
8 the pharmaceutical in the understanding how to
9 evaluate the name. And by making them
10 engaged, perhaps you can get together again
11 and learn from experience, and perhaps put
12 forward standards or establish goals as
13 standard.

14 DR. PHILLIPS: Carol, I think one of
15 the greatest strengths is involving the
16 industry in doing the FMEA, and looking beyond
17 just the proprietary name to also the
18 interaction with how it's used. Packaging,
19 dosage strength, even the dosage forms, and
20 those are the kinds of decisions that they
21 need to make very early in the process and
22 it's very hard for you to retro-fit.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 But as a health practitioner out
2 there, you know, when you see the way things
3 are packaged, or when you see the decisions
4 that have been made by some little silo within
5 the company, I think it would be of great
6 benefit both to the industry and to the health
7 professionals and patients if that is
8 investigated, thought through, discussed, and
9 pro-actively addressed, pre-marketing
10 approval, and even pre-selection of the name.

11 Because it will all fit together much better.

12 DR. KORN: Hi, there have been a
13 couple of references to the sponsor and
14 industry perspective. So I thought we have
15 some general thoughts on the process. And as
16 well with industry. So I thought I'd offer
17 them now, it may be a good time.

18 I'm an assistant general counsel
19 for the Pharmaceutical Research and
20 Manufacturers of America, also known as PhRMA.

21 PhRMA is a voluntary nonprofit association
22 that represents the country's leading

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 pharmaceutical research and biotech companies,
2 which are devoted to inventing medicines that
3 allow patients to live longer, healthier and
4 more productive lives.

5 We'd like to thank FDA for the
6 opportunity to participate in the panel today
7 to discuss FDA's process for reviewing and
8 evaluating proposed proprietary name
9 submissions.

10 As you know, as a trade association
11 PhRMA doesn't engage directly in developing
12 proprietary names for pharmaceutical products.

13 However, PhRMA does have views on the
14 policies that are being discussed and proposed
15 to be implemented by FDA, and some of our
16 member companies are present here today, and
17 may be presenting their individual views as
18 well.

19 Patient safety is a priority for
20 PhRMA and the industry. Our PhRMA member
21 companies have a longstanding commitment
22 towards safe use of medicinal products, and

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 share a common goal with FDA and the other
2 stakeholders here to better understand causes
3 of medication errors, so that appropriate
4 action can be taken to minimize or prevent
5 patient harm.

6 We are talking about proprietary
7 names here today. And one of the things we
8 wanted to note is that it's the very essence
9 of a trademark is to distinguish one
10 manufacturer's product from another
11 manufacturer's products. So PhRMA's suitable
12 trademarks in general support medication
13 safety, because there is no better way to-
14 there is no better product identifier than the
15 trademark or proprietary name itself.

16 PhRMA has devoted, and member
17 companies have devoted, significant resources
18 in the development process toward avoiding
19 proprietary names, causing confusion in the
20 marketplace, particularly the unique and
21 complex marketplace in which pharmaceuticals
22 are prescribed and dispensed.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 In June, 2003, PhRMA co-sponsored
2 with FDA and ISMP the public meeting to
3 discuss proprietary name review, and PhRMA
4 itself is a founding member of the NCC MERP,
5 and actively participates in that work.

6 As FDA develops the guidance
7 documents and initiates a pilot project to
8 which it is obligated under the PDUFA IV
9 performance goals, it's important to remember
10 that medication errors can be caused by any
11 number of system failures, as was noted
12 earlier, or other causes at any one or more
13 stages in the process of describing,
14 dispensing, and administering medications.
15 Indeed, they often involve multiple causes.

16 At this time there is no
17 scientifically valid and reliable method for
18 measuring the extent to which similarity among
19 pharmaceutical proprietary names might
20 contribute to the risk of such errors, or
21 whether such methods could even adequately
22 take into account the subjectivity and

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 complexity of human perception that is
2 involved in the processes.

3 Although FDA and industry cannot
4 assure that a given proprietary name will
5 never contribute to a medication error, PhRMA
6 believes that FDA could work toward
7 development of best practices for naming
8 pharmaceutical products that could reduce the
9 likelihood that proprietary names might
10 contribute to medication errors due to
11 confusion with other proprietary names,
12 generic or established names, prescribing
13 terms, or other related words or phrases.

14 While we are still reviewing the
15 draft concept paper released by FDA in
16 conjunction with this meeting, and we do plan
17 to submit more detailed comments on that paper
18 in the near future, we want to take this
19 opportunity to provide FDA some general
20 thoughts regarding best practices for
21 determining the appropriateness of proposed
22 proprietary names of drug products.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

1 Following these best practices
2 should help reduce likelihood that a new
3 proprietary name will contribute to medication
4 errors, and offers an opportunity to eliminate
5 the redundancy of FDA data collection, thereby
6 making FDA review more predictable, timely and
7 efficient, which is some of the things that
8 have already been discussed here earlier.

9 It also should lead importantly to
10 predictability for sponsors in coming up with
11 the names and going through the process.

12 As a general matter, and in
13 accordance with applicable FDA regulations,
14 PhRMA believes that a pharmaceutical
15 proprietary name should not suggest that a
16 product has greater safety or efficacy than
17 supported by clinical data; include or suggest
18 indications, dosage regimens, dosage forms or
19 routes of administration other than those for
20 which the product is labeled; include or
21 suggest an active component that is not part
22 of the product, or cause confusion with other

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 proprietary or established drug product names.

2 PhRMA believes that consulting
3 health care professionals when choosing a new
4 trademark helps ensure that the proposed
5 proprietary name doesn't cause confusion with
6 other proprietary or established drug names.

7 Now a proprietary name or a brand
8 name is a trademark that designates the source
9 of the product, and FDA should recognize, as
10 part of the process, that the value of the
11 extensive trademark analysis that is done and
12 legal review that is done, conducted by
13 companies in coming up with their names, they
14 already go through detailed searches of
15 appropriate files and records and databases
16 for other trademarks and proprietary names
17 that may be unacceptably similar in sight,
18 sound, meaning or context, of use to the new
19 trademark. And this could involve PTO
20 databases, the orange book and other
21 databases.

22 FDA in considering the guidance

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 here today could direct sponsors to have
2 health care professionals review the proposed
3 proprietary name for suitability. The health
4 care professionals should have a range of
5 clinical experience and an understanding of
6 the prescribing, dispensing and administration
7 environment.

8 Finally, FDA's guidance could
9 suggest that sponsors convene an expert panel
10 of a reasonable number of health care
11 professionals which could prepare written
12 evaluation of the proprietary name from the
13 perspective of the potential for contributing
14 to prescribing, dispensing or administration
15 errors.

16 This would help predictability if
17 FDA gives appropriate weight in the process to
18 the role of the expert panel.

19 We appreciate FDA's continued
20 commitment to increase the timely and
21 consistent review of new proprietary names by
22 evaluating its review process and seeking

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 input from the industry and others here and
2 feedback in this meeting.

3 We are looking forward to continued
4 collaboration with FDA to improve the review
5 process for evaluating proprietary drug name
6 submissions.

7 As I mentioned earlier we are still
8 reviewing the concept paper, and we don't want
9 our participation here to be considered as
10 waiving any other thoughts about this, or any
11 legal rights. And although PhRMA and member
12 companies may offer comments here, it's- we
13 may have other comments in the future, and may
14 consider other ways of communicating.

15 With that I appreciate the time to
16 give some overall thoughts, and we do have
17 some more specific thoughts to go through
18 during the presentation.

19 But I thought it would be useful
20 with- to get the view of the sponsors in at
21 this point of the discussion.

22 MS. HOLQUIST: Can I ask a couple of

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 clarifying questions on what you just said?

2 From what I'm hearing is that it's
3 PhRMA's belief that the analysis that you
4 conduct through the trademark - the Patent and
5 Trademark Office is sufficient to detect some
6 of the - both the visual and orthographic
7 similarities that we see as contributing
8 factors to medication errors.

9 Was that a correct understanding?

10 DR. KORN: I welcome others too, but
11 I don't think-

12 MS. HOLQUIST: I'm just trying to
13 get a perspective. Because it sounded like
14 when you were talking about that PhRMA already
15 does a very thorough analysis using the patent
16 and trademark as one of their first data
17 sources to look for names that look and sound
18 very similar. It was our understanding from
19 another public meeting that we participated in
20 a number of years ago that in fact the Patent
21 and Trademark Office really don't look at
22 those aspects from the same way that we look

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 at it from the safety perspective, which is
2 taking into consideration both the
3 scriptability of the name, and the
4 pronunciation of the name, that primarily the
5 Patent and Trademark is looking for like
6 products and similar goods.

7 DR. KORN: Let me respond to that.

8 I think it's to put it into context the- for
9 those on the panel and those in the room who
10 may not understand that names are not just
11 chosen out of the air and submitted to the FDA
12 because they have good marketing appeal.

13 Companies do an extensive amount of
14 work including searching, and we have to worry
15 not only about the safety concerns and the
16 linguistic concerns and the cultural concerns
17 of the market, and the meaning it could have
18 to the public, negative meanings it could have
19 to the public, but we also have to worry about
20 legal infringement considerations. And legal
21 infringement considerations require us to go
22 through a trademark registration, or it's one

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 way to address those is to go through a
2 trademark registration process.

3 And that process isn't merely
4 searching the trademark databases; it's
5 searching everywhere to find if someone has a
6 registered trademark right, or may have a
7 right in use that gives them rights even
8 though they don't have a registration.

9 So we have to know whether somebody
10 else is using a mark, or something is likely
11 to cause- that we would cause confusion if we
12 went out on the market, likely to cause
13 confusion in the market.

14 So we go through a trademark
15 registration process when we do that. It's
16 all about similarity, context, and reducing
17 likelihood of confusion from a similarity
18 point of view, albeit in an infringement
19 context.

20 And our competitors have an
21 opportunity, the public has an opportunity, to
22 see our mark before it registers, and to

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 oppose those marks.

2 So we search, an examiner in the
3 office searches, and the public looks at our
4 marks and has an opportunity to oppose them
5 before they register. It's that kind of a
6 process which we say, when we bring a
7 trademark to the FDA and it has gone through
8 that process, along with other things that we
9 do over the years, we're starting to do more,
10 when we bring a trademark to the FDA it
11 already has a reduced similarity, compared
12 with randomly chosen marks.

13 Now whether it's adequate or not;
14 whether it needs more work from a dispensing
15 and prescribing context, that's what we are
16 discussing today, what are the details of
17 that.

18 But I think it's important to know
19 that we don't pick the names out of the air
20 and submit them to the FDA.

21 MS. HOLQUIST: And one thing I'd
22 like to ask is, have you ever considered

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 reversing your process, where you might
2 evaluate the names from more of a contextual
3 use in a real clinical practice setting before
4 you submit them through the Patent and
5 Trademark? And if not, is there some reason
6 why that wouldn't be a feasible alternative?

7 DR. KORN: We can do a lot of work
8 evaluating the mark for other reasons like the
9 medical concerns. But if at the end of the
10 day we find that it is likely to cause
11 infringement, we are going to get an
12 injunction against us for being able to
13 continue to use the mark.

14 So we do legal clearances early in
15 the process. Companies do it in different
16 ways, we do it. We sometimes- companies will
17 do it sequentially. They will do it in
18 parallel. It always winds up being a give-
19 and-take process, though. Somewhere along the
20 line everything coalesces on certain marks
21 that seem to meet all the criteria. And then
22 there is a give and take as to which mark is

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 selected.

2 DR. HARTMAN: Carol, I'd like to add
3 that frequently for Novartis, and I think it's
4 true for every major pharmaceutical company
5 that is looking for global trademarks, global
6 brands, the main clearance, the legal
7 clearance process has to begin long before
8 phase two, often at the beginning of phase one
9 and maybe even a little bit earlier, at a
10 stage when we are not in a position and the
11 FDA isn't in a position yet to evaluate the
12 acceptability of a name. So as a practical
13 matter we can't reverse the process.

14 MS. HOLQUIST: That's helpful. I
15 think that is important for the group to hear.

16 DR. HARTMAN: I do have a comment, a
17 general comment, about the - about
18 predictability, which I think is closely
19 related to efficiency which is a stated goal.

20 By predictability, I mean the
21 ability of a manufacturer to predict whether
22 the results of its name review will be

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 accepted by the FDA. The rejection rate for
2 the last five or six years has hovered in the
3 35 to 40 percent range, and that I think has
4 led to a great deal of inefficiencies, not
5 just within the agency, but within the
6 industry, certainly at Novartis.

7 What I'd like to know is whether
8 the FDA envisions that when a sponsor submits
9 a name that complies with the concept paper,
10 and its expert FMEA panel independently
11 determines in its judgment, because we already
12 said it's a judgment call, it's determined
13 that the name is acceptably safe, can the
14 sponsor be confident that the FDA will accept
15 those results?

16 MS. HOLQUIST: I can't say that any
17 data you submit will be rubber-stamped based
18 on your analysis. We would have to evaluate
19 it just as we would any clinical trial data.
20 Basically when clinical trials are conducted,
21 the sponsor will submit their raw data, and
22 they will make some analysis and determination

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 of what that data might mean, and that's
2 actually what we are asking pharmaceutical
3 firms to do as well.

4 But then we want to in turn
5 evaluate that same raw data to see if we would
6 come to a similar conclusion. I think as you
7 heard from some of the panelists already that
8 given the differences in the expertise and
9 there may be some information that we may be
10 privy to that a pharmaceutical sponsor may not
11 be, such as post-marketing data, or maybe it's
12 a name that is in the pipeline. We would
13 never be able to officially endorse and say if
14 you follow this concept paper to the hilt that
15 we will automatically accept the results
16 verbatim.

17 DR. HARTMAN: Well, let me ask the
18 question a different way. Put aside that
19 there is data that the sponsor wasn't aware
20 of, which is an understandable situation. But
21 under what circumstances does the FDA look at
22 the expert judgment of the panel that the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 sponsor has put together- it's an independent
2 panel, it's met the criteria of the concept
3 paper. In its judgment it has come to the
4 conclusion that the name is acceptable.

5 On what basis does the FDA say, hey
6 wait a minute, our panel thinks it's not, and
7 since our panel- and they are simply going to
8 say no. Is it simply a question of, your
9 panel looks at the data and says, "Well, we
10 don't care what your panel says, and we think
11 there is a problem?"

12 What confidence- your concept paper
13 asks sponsors to do a lot of work. There is a
14 burden involved. And what benefit, what
15 confidence does Novartis have that if it goes
16 through the process in good faith, complies
17 with the concept paper, has an expert panel
18 assembled who says we think in our judgment
19 this name is safe. We submit it to the FDA,
20 and the FDA simply says, "Well, our safety
21 evaluator looked at it, and they simply
22 disagreed. We think that the risk is too

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 high."

2 DR. DAL PAN: Let me jump in here.
3 I think that that is one purpose of the pilot
4 program is to see how FDA's safety evaluators
5 will look at a company's submission and
6 compare it to their own analysis.

7 And we will talk about, tomorrow,
8 the logistics of that. But I think that that
9 is what this whole program is about. We don't
10 have pre-set criteria to give you today to
11 say, if you comply with this- and that is sort
12 of a loaded term for a regulatory agency,
13 comply, so I'm not sure exactly what that
14 means.

15 But I think what you mean is, if
16 you do the analysis that we suggest and set
17 forth, and your professionals look at the data
18 and say, yes, we think this name is
19 acceptable, will FDA predictably and reliably
20 think that the same name is acceptable. And I
21 think the purpose of a pilot program is
22 actually to answer that question, and to see

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 if the results aren't the same, where aren't
2 they the same, and why aren't they the same?

3 I think there is subjectivity to a
4 lot of this. This isn't analytic chemistry or
5 something.

6 DR. HARTMAN: I agree. Let me ask
7 it a different way.

8 Are you saying that the endpoint is
9 a concept paper, a naming review process that
10 will result in a naming process that the FDA
11 will rely on, they will rely on the sponsors'
12 results? Is that the ultimate endpoint that
13 we are looking for here?

14 MS. HOLQUIST: I think so. I think
15 the ultimate endpoint is not - that we want
16 sponsors to thoroughly think about what they
17 are submitting before they do it. We are
18 trying to give them the method by which to
19 test their name adequately to what we think
20 are best practices, and at the end of the day
21 hopefully to have screened it well enough to
22 give us some confidence that yes, this name

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 won't be confused.

2 But that doesn't mean that we will
3 not do our own assessment of it as well. And
4 I think that is what Dr. Del Pan is saying is
5 that through this pilot we will learn where we
6 differ in our analyses; where we're finding-
7 maybe we find a different name than you might
8 find that makes the name objectionable; it may
9 be that we know about, like I said, some post-
10 marketing data that you may not be aware of.

11 But during this whole pilot we will
12 be communicating that back and forth to the
13 sponsors. It's not simply that you will
14 submit this data, we will review it, and we'll
15 issue a decision. I think what we plan to do,
16 in the future, with name review, is to have a
17 more open dialog with industry about why we
18 are saying no to the name, and give you the
19 feedback that we are looking at, give you the
20 opportunity to discuss it, just as we would if
21 we were looking at any other data that was
22 submitted on an application for approval.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 DR. HARTMAN: Let me say my comment
2 by saying that unless we move towards a
3 scenario in which the agency is willing to
4 place some significant weight on the outcome
5 that the sponsor submits, the predictability
6 and the rejection rate won't decrease.

7 MS. HOLQUIST: I kind of disagree
8 with that. Because I think the predictability
9 may increase just by the sheer fact that they
10 are being more transparent about the reasons
11 why we're saying no, and if we learn from
12 those reasons, the predictability may
13 increase.

14 DR. HARTMAN: I'll give somebody
15 else a chance.

16 MS. HOLQUIST: Let me just ask a
17 housekeeping thing. When you are finished
18 speaking, could you please turn off your
19 microphone, because it mutes everybody else.
20 Thank you.

21 DR. DAY: I think the strongest
22 aspect of the proposed pilot program is that

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 it uses multiple approaches. You have seven
2 different approaches from the preliminary
3 screening and the stem search, investigation
4 of potential similarity of orthographic and
5 phonetic aspects, computational methods,
6 medication area of data, name simulation
7 studies, and FMEA, and that's great.

8 There is no one path to the truth
9 on this, and the multiple ways of looking is
10 really terrific. So I commend you for that.

11 On the con side, I'm going to have
12 to repeat what I said in the 2003 Drug Safety
13 Risk Management Advisory Committee meeting on
14 drug names, and that is, there is a- still a
15 lack of true behavioral tests. Now it is very
16 good for experts to look at names and predict
17 confusability and do analyses, of various
18 sorts, and I'm all for that.

19 In addition it needs to be tested
20 with people. People include everyone, because
21 everyone will be involved one way or another
22 with the drug names once they are on the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 market. So that goes from consumers to
2 physicians to nurses, pharmacists, et cetera.

3 Some of our studies in my
4 laboratory show that expertise certainly is
5 important, but there are certain basic
6 cognitive processes that operate in all of us.

7 And we have seen that physicians have
8 problems with drug information showing the
9 same patterns that consumers who even aren't
10 patients and don't have the indication for the
11 drug names and so forth, so they will show the
12 same pattern of problems.

13 So we need to have a wide range of
14 people doing behavioral tests. So I do have
15 recommendations which I will save for the
16 discussion of alternative approaches; I won't
17 go into them now.

18 But I would just like to say that
19 there are well established research paradigms
20 from cognitive science about how to test
21 perception, attention, memory, problem solving
22 and decision making. And these are quick,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 easy, cheap ways to get data very quickly, and
2 they then have implications for the more
3 complex tasks that go on in the real world.

4 So I think that - and you can find
5 out very quickly what the - say, the problems
6 are likely to be and actually are
7 behaviorally, with orthographic and phonetic
8 similarity.

9 So I will save my comments about
10 alternative approaches and how to do some of
11 these things. But I would just summarize by
12 saying, the strengths are the multiple
13 methods, and my major- the major weakness that
14 I find is the lack of behavioral test.

15 I think the name simulation studies
16 are very interesting, and they are exciting,
17 and sort of speak to that. But there is so
18 much going on, and if you have the basic
19 cognitive processes were that were involved
20 first, then you'd be able to design those
21 better and actually predict them, and actually
22 stop the process earlier if there are problems

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 that are identified from the basic tasks.

2 DR. GRISSINGER: I think one thing
3 to consider too, and I don't know what the
4 best time period is, of the initiation of the
5 process of testing. And I don't know whether
6 it involves when the company comes up with the
7 name earlier in the phase.

8 But one thing to add to
9 confusability, we've seen over the years, is
10 the strength. And oftentimes the clinical
11 trial part of the study comes up with
12 strengths that work best in the clinical
13 study, but then a name is separated. And
14 often you see confusability, like Mike Owen
15 showed the slide of the Vanicunin being
16 mistaken, but what adds to the confusion are
17 similar strengths, two and four milligrams.
18 Look at issues with suffixes, like Wellbutrin
19 comes as 150, SR 150, XL 150.

20 But perhaps if a name is going to
21 have a suffix, and the strength is 165, that
22 may decrease the confusability in some

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 situations, or in order entry screens where
2 you have a list of drug names, and again you
3 have the bupropion, the Wellbutrin 150s, and
4 the Srs and XL all in a line, the 150 adds to
5 confusability.

6 So I would maybe suggest - I know
7 it's a total change in looking at how this
8 process may occur - of looking at the strength
9 as part of the component earlier in the
10 process. So that there is a chance that a
11 company could maybe consider getting its
12 strength changed earlier in the process versus
13 worrying about changing a name.

14 MS. HOLQUIST: Yes, you bring up a
15 good point. And I think Kelly touched a bit
16 on that in her presentation, was that when
17 companies do the testing as we proposed,
18 especially in the failure mode and effects
19 analysis, you would identify exactly those
20 types of errors that you just described, and
21 one of the fixes might be that, oh, maybe if
22 we change the strength here, this may minimize

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 some of those failures that we are seeing, and
2 in the end may actually make the name to be a
3 more viable alternative.

4 DR. GRISSINGER: That's why, I know
5 in the pharma world, the clinical studies and
6 trials in determining the strength is really
7 early in the process obviously. So that's why
8 I'm suggesting that we may need to take that
9 into consideration, of the timing of the
10 submittal of the name.

11 DR. HARTMAN: That's not true at
12 Novartis, I can't speak for Novartis. But we
13 are deciding dosage, dosage ranges, in phase
14 two, which is after, let's say after the
15 naming process is well underway.

16 MS. HOLQUIST: Ray?

17 DR. BULLMAN: In doing the
18 background reading preparing for the meeting
19 today, a thought came to mind, I recalled an
20 interview that I saw on television with a
21 sports reporter interviewing George Foreman,
22 the great heavyweight fighter. And Foreman,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 he noted in the interview, has 10 children,
2 and he has five of whom are sons all named
3 George. There is George Jr., George III,
4 George IV, George V, and George VI. And then
5 George Foreman, Sr., stated that he was able
6 to distinguish one son from another by the use
7 of nicknames such as Monk, Big Wheel and
8 Little George. And I think in some respects
9 it's kind of an interesting tell for me in
10 that it's a challenge, it's asking a lot of
11 consumers to know the names of all the
12 medicines they are taking at all times.

13 Oftentimes the medicine list
14 changes, it's adjusted, drugs are dropped,
15 drugs are added, et cetera, et cetera. I'm
16 not saying that is not an important
17 responsibility, and encouragement that we all
18 should continue to aspire to encouraging
19 consumers to do that.

20 But yet there are ways, right now,
21 for example, that consumers that may not be
22 able to list the proprietary and established

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 names of their medicines. They may be able to
2 distinguish my little green pill, or my orange
3 pill, or my round pill, or my triangular pill
4 for example.

5 So I think really from my way of
6 thinking it leads into the fact, and it has
7 already been stated, but I certainly would
8 reiterate it, of the importance of having real
9 world consumers in all of the levels of this
10 testing, and the scenarios as they are worked
11 through.

12 For example, I'm not a pharmacist,
13 but I've played one in television commercials.

14 I don't know if I did the profession justice
15 or not, but having FDA personnel who are- who
16 live, sleep, eat and breathe either
17 pharmaceutical drugs or food for example,
18 role-playing consumers is not the same as
19 talking to someone out on the street as it
20 were in their particular life scenarios as it
21 were.

22 So I really would encourage that.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 And then a little bit of a change, but I was
2 wondering for example if there was
3 consideration given to other models for
4 reaching the conclusions that you are seeking
5 in the pilot, and that is for example, might
6 there - was there consideration for example of
7 having a independent third party such as an
8 academic center? What comes to mind most
9 readily at the CERTS, the Centers for
10 Evaluation and Research in Therapeutics, for
11 example, playing a role in this kind of a
12 pilot program where the sponsors for example
13 might go through the steps of doing all of the
14 due diligence that we've heard now, and then
15 submitting into one of the centers for
16 excellence, for example, that have established
17 some type of a gold standard process using
18 perhaps what is outlined here but what has
19 been vetted prior to the beginning of the
20 program using them as the tool for developing,
21 for going through the process.

22 MS. HOLQUIST: I think that is what

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 we are going to talk about tomorrow afternoon,
2 is some of those pilot logistics, and how
3 would we best evaluate this data.

4 Mike.

5 DR. COHEN: Yes, I'm just curious
6 about something. You heard me mention the
7 situation before with Omacor and Amicar, where
8 there was some disagreement between your area,
9 your division, and the clinical division about
10 the approval of that name.

11 And I'm wondering if people go
12 through the requirements and the concept
13 paper, et cetera, is that approved by you, or
14 does it still involve- in other words, could
15 that same kind of thing happen again? I mean,
16 would that same situation be a possibility?
17 And is there any way to address that?

18 That actually came up at the
19 Institute of Medicine Committee, and it still
20 causes inconsistency and confusion and so on.

21 And I see it as a problem.

22 DR. DAL PAN: Yes, let me address

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 that, Mike. Some of you may have heard that
2 Dr. Woodcock announced this safety first
3 initiative, and one of the features of that is
4 that our office, the Office of Surveillance
5 and Epidemiology that does a lot of the post-
6 market work as well as the trade name and med
7 errors work, we will have an equal voice with
8 the Office of New Drugs, so that if in the
9 past our role was seen as more of a
10 consultative role, that could be- where our
11 opinions could be accepted or rejected, that
12 is changing to one of an equal voice, an equal
13 role, where we will have to work these things
14 out.

15 We are also working out for our
16 office, and Carol's group in particular, to
17 really take the full lead in this area of
18 proprietary name review, as well as other
19 aspects of med error prevention and review.

20 DR. GANS-BRANGS: So as a follow up
21 to that, would that mean that the whole
22 concept, which has been successful at least

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 six times that I'm aware of, of a phase four
2 post-marketing commitment, where there was
3 less potential for patient harm, and the
4 trademark that was approved was able to
5 successfully get through that commitment and
6 remain on the market, would that still exist
7 as a potential post-marketing commitment?

8 MS. HOLQUIST: We typically haven't
9 been doing those post-marketing phase four
10 commitments for quite a long time. We
11 actually did those early on in our process
12 before we developed more of a formalized
13 review process. And I think what you heard
14 Kelly say earlier from her review, or from her
15 presentation is that really the way we look at
16 it is that these are preventable events.

17 And so we also heard it from one of
18 our advisory committee panels back in December
19 of 2003 that if we see a risk before it's
20 marketed, we really shouldn't take that risk,
21 because there really is no benefit. It's a
22 name, it's a preventable event, and therefore

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 we should consider making alternative choices
2 rather than taking the risk on marketing.

3 DR. GANS-BRANGS: So then just as a
4 very brief follow-up on that, so I'd like to
5 suggest that we send in the documentation that
6 the full definition that NCC MERP uses for
7 preventable errors be included, because it is
8 truncated, and the definition includes all
9 sorts of reasons for error, not just name
10 confusion.

11 DR. PHILLIPS: Carol, I was quite
12 astounded to hear 35 to 40 percent rejection
13 rate of names. And certainly anything that
14 could be done before FDA submission to improve
15 that would seem to make a lot of sense.

16 My question is, how many of those
17 rejections are by those basic preliminary
18 screens, so something that should be a fairly
19 easy fix for the industry to go through and
20 check things off, and how many of them are
21 really ones that are only picked up based on
22 the phonetic review or based on a failure

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 modes analysis, more complex approach?

2 MS. HOLQUIST: I don't really have a
3 percentage I can give you, but I can tell you,
4 that number encompasses a lot. It's not just-
5 like you said, just the phonetic and
6 orthographic similarity. It also includes the
7 DDMAC objections, so when DDMAC finds any
8 promotional, that objection counts toward that
9 number.

10 But we also do see a lot of- I can
11 tell you from experience that even though we
12 hear that industry does a lot of these prior-
13 approval screenings ahead of time, we really
14 do see some very avoidable names that come in,
15 especially with the inclusion of like QD in
16 the name, and we know once that is scripted
17 out that that will end up in an adverse
18 outcome.

19 So that's why we are trying to go
20 out here with much of the reasons that we see,
21 give people ideas of some of the things that
22 we do look at and evaluate in the preliminary

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 screening; some of the causality that we see,
2 or the contributing factors to these errors
3 that we see through our post-marketing, so
4 that they could do a better job at some of
5 this preliminary screening. Not everyone out
6 there is big pharma, and that's actually why
7 part of this evaluation of this pilot that we
8 are going to have to look at all
9 representative companies, both large and
10 small.

11 DR. EMMETT: I'd actually just love
12 to jump in and follow up on that comment right
13 there. This is Andrew Emmett with BIO, and
14 BIO represents about 1,200 biotech and
15 biopharmaceutical companies in the United
16 States, academic institutions, state
17 affiliates. And actually nine out of ten of
18 our members have not yet brought a product to
19 market. Of course one day they hope to bring
20 a branded product to market, but are still in
21 the research phases.

22 And just to take a step back, we'd

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 just like to thank the FDA for doing this
2 meeting, and thank you for your initiative by
3 pursuing this pilot program.

4 As Steve and others mentioned
5 earlier, the high rejection rate of trademarks
6 is very problematic, not just for FDA having
7 to go through multiple review cycles, but also
8 for companies having to essentially
9 inefficient use of their resources,
10 particularly very close to the PDUFA action
11 date if there is a late stage rejection of
12 that trademark.

13 And we really support how this
14 pilot program hopefully will move us toward
15 the new framework of the sponsor doing the
16 actual vetting and setting of the trademarks,
17 generating the data based on the HHS and IOM
18 recommendations, and of course based on the
19 best practices laid out within the concept
20 paper, and hopefully by sharing those best
21 practices, improve the transparency,
22 predictability of the process, and hopefully

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 bring that rejection rate down as we've
2 mentioned.

3 And I think there are a lot of
4 small biotech-specific issues that we need to
5 keep in mind, and you know, confidence in the
6 proprietary name for a pilot tech product is
7 very critical especially when a lot of the new
8 and emerging monoclonal antibodies are really
9 a mouthful with the established name, names
10 just, Gemtuzumab and Fliximab or Tezumib,
11 Bevacizumab, and you can see how that really
12 can become troubling if there is not a clear
13 and concise trade name for those products.

14 And also for small companies it is
15 important to resolve these issues, because a
16 late stage rejection really impacts the bottom
17 line of a small company much more than a
18 larger company that can bear those costs.

19 And we should also recognize that while
20 most small companies do do this type of
21 research, it's not consistently across the
22 board that they are doing this sort of

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 external vetting before we begin the process.

2 So I think as we're moving toward the
3 pilot program, we really have to ensure that
4 there is a broad, diverse and representative
5 sample of companies within the pilot program,
6 both small and large companies, pharmaceutical
7 and biotech companies, and to really ensure
8 robust participation in the pilot program it
9 would be helpful to have very defined testing
10 criteria. And I think the concept paper goes
11 a long way toward laying that out, and I
12 applaud the agency for doing that.

13 And I also think we need to keep in
14 mind the relative burden on smaller companies,
15 and we don't really want to push them out of
16 the pilot if the testing criteria are so
17 extensive that due to resource restraints they
18 may not be able to meet that.

19 And BIO would be happy to work with
20 our memberships to reach out to them to ensure
21 that there is adequate participation in the
22 pilot program.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 DR. HARTMAN: Carol, I'd like to
2 just quickly, sort of an abstract question,
3 has it been the agency's experience that name-
4 related medication errors have - we'll say it
5 this way, names have gotten through that
6 shouldn't have gotten through that caused
7 medication errors in your judgment- a result
8 of a weakness in the hypothesis gathering
9 stage, where you are collecting data and you
10 simply didn't- that the name, the problematic
11 name, didn't come up? Or has the problem
12 arisen at the FMEA level, that is, you were
13 aware of the name, it was in the pool of names
14 you looked at, but when you considered it you
15 simply said, you didn't think that was a
16 problem?

17 Do you have an understanding as to
18 where the weakness was or has been? The
19 reason I ask is because when I look at the
20 concept paper, it looks as if you've bulked up
21 on the hypothesis gathering, the data
22 gathering stage, but basically the risk

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 assessment stage hasn't changed.

2 MS. HOLQUIST: No, I'd actually
3 disagree with you there. Our risk assessment
4 is actually probably the part that has
5 changed.

6 And you have to look at how name
7 review has evolved over the last 10 years.

8 Back when I came to this division,
9 before that this was done by committee work,
10 and basically it was representatives from both
11 the Office of New Drugs, some generic drugs, I
12 think biologics, and I think advertising was
13 involved.

14 And they would be given a name, and
15 oftentimes, they were not given the product
16 characteristics or even knew the full context
17 of the use of the product.

18 And a determination was made based
19 on a majority ruling. So people would go
20 around the room and say, I think that this
21 name can sound and look like this, but they
22 might be overruled by others on the committee.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 That's how basically a name was assessed.

2 Then in the late '90s, when our
3 division was formed, we began this analysis
4 based on what we thought were some of the
5 contributing factors to error, which of course
6 we knew the handwriting, some of the verbal
7 pronunciations. So we tried to build in some
8 of these simulation studies.

9 Our hypothesis generation has
10 really pretty much remained the same, that we
11 looked at a number of these different
12 resources in order to come up with a full list
13 of names. We even tried to develop a
14 computational way of trying to come up with a
15 list of names, which is POCA, which is our
16 Phonetic Orthographic Computer Analysis thing.

17 And in the end we were basically
18 relying on some of the- mostly the post-
19 marketing data that we had seen of some of
20 what we thought were the major contributing
21 factors to error, which was the similarity
22 both visually and when spoken, and also maybe

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 the product characteristics such as the
2 strength and if there was an overlap in dosing
3 interval.

4 But we are learning through our
5 post-marketing experience, and from employing
6 now failure-mode effects analysis, that how
7 and why these things can go wrong, where they
8 can go wrong, whether or not they can be
9 detected in the practice setting to avoid an
10 error, or will they just slip through the
11 whole process, and in the end- so I would
12 argue that actually the precursor, the
13 hypothesis generation, has pretty much
14 remained the same, but it's more of our risk
15 assessment that's changed.

16 DR. HARTMAN: But the question was,
17 where do you find the errors occurring? Are
18 the errors occurring because the names aren't
19 turning up in the hypothesis generation stage?

20 Or is it because the risk assessment stage is
21 not adequate and simply allowing names that
22 turn out to be problematic through?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 MS. HOLQUIST: I have to tell you
2 that since we've employed this process we've
3 been able to detect a number of name
4 confusions. And actually Dr. Cohen referred
5 to one of them, which was Omacar and Amicar.
6 I think the problem has been that we haven't
7 had the regulatory decision making, and that
8 they have been made by the different review
9 divisions who don't have this expertise in
10 medication error evaluation, and they are
11 basing it on, well, we don't really think that
12 is going to happen.

13 So we are trying to base it on more
14 of a scientific approach in saying that, yes,
15 we do think it's going to happen, and we can
16 show you how it's going to happen using these
17 failure modes and effects.

18 I think a lot of - if we had name
19 confusion before, a majority of what we've
20 seen on the market with name confusion
21 occurred prior to our division even being
22 formed.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 So I think we have a bit of a good
2 track record. Early on in our processes we
3 let a few things through that probably we
4 shouldn't have, but we've learned from that.
5 Every name that ends up in failure, once we've
6 evaluated it, we learn from it, and we try and
7 apply those lessons learned to the process.

8 DR. SHERIDAN: First of all, I
9 really liked the way the program is laid out.

10 The raw structure, there seem to be a lot of
11 good safeguards in there.

12 I'm curious whether you expect that
13 each manufacturer would do their own tests, or
14 whether there would be a small group of
15 consulting firms that would go in and actually
16 do the testing?

17 MS. HOLQUIST: I think that's what
18 we want to hear today from you guys, if you
19 think that that is a better approach to take
20 rather than having each pharmaceutical firm do
21 their own testing, that's the methodology and
22 the changes that we want to hear from you.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 We are not laying this out and
2 saying that this is the way we want to go.
3 This is what we base this concept paper
4 primarily is on our best practices currently.

5 And so we are trying to improve on that, and
6 that's what we're really seeking the feedback
7 today.

8 But I hope that everybody will open
9 up and start talking a bit more about, I've
10 heard some of the strengths that, you know,
11 that there are a number of approaches to how
12 we look at this, and we shouldn't use just one
13 particular method. So I'd like to hear more,
14 engage more in the discussion of how we might
15 make this process a little bit better and more
16 fruitful.

17 DR. SHERIDAN: Speaking as a
18 pharmacist, I would be more comfortable if
19 there were a small number of expert firms as
20 opposed to a lot of different companies
21 getting into it for the first time and trying
22 to feel their way through it.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 DR. PHILLIPS: Another pharmacist
2 echoing something similar. I also think there
3 will be a substantial learning curve on the
4 part of the drug manufacturers, and unique
5 expertise developed around this whole process,
6 and a consistent process.

7 But I also think it's very
8 important to not farm this out but for the
9 drug manufacturers and their representatives
10 from all their different divisions to be
11 actively involved interacting with the
12 consultants.

13 Because Matt brought up the issue
14 of strengths. It's not only strength, it's
15 packaging, it's promotion, labeling,
16 everything from the use of color, the way
17 things are presented; dosage form, and how the
18 dosage form is formulated in appearance.

19 And I think it will be an
20 invaluable interaction with the firm to get
21 that input from the consultants, and to build
22 that into a better product, so not just the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 name but the other prevention aspects of the
2 failure mode that requires the active
3 involvement of the industry representative,
4 rather than just something that would be
5 consulted out and spit back. I think that is
6 where you have an opportunity to really add
7 some value to the process for the industry and
8 to have a better product for the FDA to look
9 at and respond to.

10 MS. HOLQUIST: Right, and that's
11 actually what we do at the agency when we do
12 our failure mode and effects, we are looking
13 at the whole product; we're not just looking
14 at the name. Because it isn't just the name
15 that interacts in the health care environment.
16 It's the entire product. And that's what
17 we've been trying to communicate to people.

18 But we wanted to just focus today
19 just solely on some of these test methods for
20 that name. And if we are hearing that in this
21 paper, that we will need to incorporate some
22 of those other concepts, and maybe that's what

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 Ruth is referring to, and then that's what we
2 need to do, and that's what we need to hear.

3 DR. DAY: Is it an appropriate time
4 to start suggesting alternative methods, or
5 are there still other pros and cons that
6 people are giving?

7 MS. HOLQUIST: Sure, let me just ask
8 if there are others? Bob?

9 DR. LEE: I just wanted to - we've
10 used a lot of terms like look alike, sound
11 alike, and names that look alike as causes of
12 medication errors. And I just wanted to point
13 out that name confusion is just a subset of
14 wrong drug medication errors. And wrong drug
15 medication errors are just a subset of
16 medication errors in general.

17 So when we say look alike sound
18 alike names are a major cause of medication
19 errors, we have to put it into context.

20 We also, and one of the criticisms
21 I have or what I think is one of the
22 weaknesses in the proposed program, not being

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 a statistician, I know I'm setting myself up,
2 but one of the weaknesses I see is that if we
3 are really talking about look alike sound
4 alike, if we are really talking about
5 similarity, that is different than
6 illegibility, or environmental factors. It's
7 different than the human factors that are
8 involved.

9 Similarity is what we often refer
10 to as look alike sound alike. And I often
11 think that we are asking an awful lot of a
12 name to ask it to solve the problems of the
13 medication use system. And when we enter into
14 the kinds of exercises that are described in
15 the pilot program, we are not controlling as
16 far as I can see issues like legibility and
17 environmental factors. We are looking - we
18 are trying to put the name into context of all
19 those real life situations to see if the
20 combinations are creating signals to us or
21 names that we might want to later consider as
22 names that this new product - this new name

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 could be confused with.

2 But that begs the question as to
3 whether it's look alike/sound alike that is
4 causing the problem. And it just sounds like
5 or seems like you can get an awful lot of
6 false negatives and false positives.

7 Also there has been as far as I
8 know no measurement of the real rate, error
9 rate, that's due to name confusion. And
10 without that how do you determine whether or
11 not the interventions are really working or
12 not? And I think there are other ways to
13 approach this, but maybe we can - I'd like to
14 hear what Ruth Day has to say, because I think
15 there are other ways that this could be
16 approached.

17 DR. COUSINS: Thank you. From USP's
18 perspective, you know, having seen these
19 reports over the years, I must say I think
20 this concept paper is an excellent
21 comprehensive framework, but it is to me just
22 a framework.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 There is certainly a benefit to
2 having this open-ended pilot. I think the
3 danger in it is that it may not generate the
4 standardized approaches that are reproducible
5 across companies.

6 I'd like to see a little more
7 structure in key areas like the failure modes
8 and effects analysis.

9 I also noted that the agency was
10 hoping for 25 to 50 submissions. I would fear
11 that if you didn't get enough that you won't
12 have enough data to really make the decisions
13 to move to the next step. So I would suggest
14 that the companies commit or enroll in some
15 way to give you some assurance that you will
16 have enough data to move forward in the ways
17 you wish.

18 And then lastly I would suggest -
19 well, and you may have an answer on this one -
20 the shorter timetable. Two years just seemed
21 like a long time in a process, although I
22 recognize it's probably not long enough in

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 some ways - but it seemed like a long time to
2 be the first step in a process that could be
3 very protracted.

4 Thank you.

5 MS. HOLQUIST: Okay, I think we've
6 heard most of the strengths and limitations
7 from the group.

8 Now I'd like to move to some of the
9 discussion about alternative methods, and
10 focusing on what we've presented and what we
11 could better do.

12 DR. DAY: I'd like to suggest some
13 methods, and I'm not sure I'd call them
14 alternatives, is if we would delete something
15 and replace this, but additional things to
16 consider.

17 And I think the last comments about
18 what are the error rates due to look alike and
19 sound alike is very well put. And we have
20 methods for doing this, and we are actually
21 testing this in my lab now.

22 So I'm going to suggest about three

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 research tasks called paradigms that can be
2 conducted quickly, easily, early in the
3 process, can be replicable across all
4 companies could do it or a variation on it; we
5 know what the nature of the data are; and so
6 forth.

7 So one is called a recognition
8 paradigm. I could do a demonstration with you
9 now if you would just hand me some name that's
10 in the pipeline that isn't known by everyone,
11 and of course it would be confidential within
12 this room.

13 But what I would do is, there are
14 different ways of doing this. But I might
15 show you one drug name at a time on the
16 screen, very quickly, enough time for you to
17 read it, five seconds, whatever it would be.
18 There might be say 10 of them. And embedded
19 in there is the target item that we want to
20 test.

21 Then we would have some additional
22 instructions. And then I would say, now I'm

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 going to show you another list one at a time,
2 and for each one check yes or no whether you
3 just saw it during the first part. So part
4 one is the acquisition phase where you acquire
5 some information; and part two is the test
6 phase. And you just check yes or no. And you
7 can have both the target drug name, and a
8 confusable - you can arrange this in different
9 ways. And you can find out what the error
10 rate is. We could do that experiment in five
11 minutes in this room with these 150 to 200
12 experts, and we'd know a lot.

13 And you know at least an initial
14 signal that, gee, there was very high rate of
15 success; it was 95 percent, whatever it is.
16 Or there was only about 60 percent; so 40
17 percent of the time people could not then
18 recognize this name. So that's a recognition
19 paradigm.

20 Second paradigm is really a search
21 and find paradigm. And we are currently doing
22 experiments on this. It is kind of a

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 simulated pharmacy shelf experiment.

2 That is, you see one drug name,
3 pause, and then you see a bunch. Which one
4 was it? And you click on it, or you say it's
5 not here, all right. And with these
6 paradigms we are able to get error rates. So
7 say for example, we have been testing the tall
8 man lettering that Mike Cohen referred to.
9 And we find that tall man sometimes comes up
10 short. That is to say, that sometimes it
11 helps, but sometimes it hurts.

12 So to give an example, nifedipine
13 and nicardipine, are on the 2001 FDA list on
14 the website for recommendations for tall man.

15 And the recommendation for nifedipine is to
16 capitalize N-I-F-E, and something else for
17 nicardipine. Well, what happens is, you give
18 people nifedipine in the tall-man version,
19 there is a 30 percent increase in the error
20 rate over just using standard lettering. And
21 that's because it changes multiple linguistic
22 features.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 So nifedipine with N-I-F-E really
2 tall goes to mostly pronounced as
3 (pronouncing) "knife-to-peen" so it takes ni-
4 fed-i-pine four syllables, and goes to three,
5 nife-di-pine, and there are other things, the
6 stress, the location of the stress in the
7 syllable can change say with tall man; the
8 actual phonemes can change and so on.

9 Mike had an example on the screen
10 today of dobutamine and dopamine, but by
11 capitalizing the "but" you get doButamine, and
12 if you capitalize the p-a- for dopamine you
13 get doPAmine. So these things change. So
14 that's just an example of how these testing
15 methods can be used to test tall man, but just
16 to test a given name anyway.

17 So can you see it and find it on a
18 pharmacy shelf is just one task.

19 So in general the kinds of tasks
20 that I would recommend would break it down
21 into the types of, A, basic cognitive
22 processes like perception, attention, memory,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 et cetera, search and find; but also in terms
2 of the basic tasks that happen in the drug
3 world - prescribing, dispensing and
4 administration.

5 And it's great that these scenarios
6 put a lot of things together, but you are
7 never going to be able to figure out I think
8 really what is going on unless you have some
9 of this more basic work done for the basic
10 cognitive processes and the basic tasks that
11 are done in the - real-world tasks, I'll call
12 it that.

13 Last task I'll mention today, and
14 you are going to laugh at first, but please
15 listen, and that is, a pronunciation task. I
16 think a bunch of people should pronounce these
17 names. And let me give you some methods, and
18 then I'll tell you why.

19 I'll tell you the why first. I was
20 once a consultant for a drug safety board for
21 a company, and looked at all kinds of
22 different materials and so on. And I could

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 not, when I got my briefing materials, figure
2 out how to pronounce this name. So I did a
3 little of asking people how would you
4 pronounce this and that and the other and so
5 on, and got at least eight different
6 pronunciations. So when I was in the room,
7 after we had done a bunch of other things, I
8 said, oh by the way, how do you all pronounce
9 this, and can we just go around the room. And
10 within the company there were at least six
11 pronunciations.

12 Furthermore, as a member of the
13 drug safety and risk management advisory
14 committee, and now just a consultant on a lot
15 of the advisory committees, I take little
16 notes during a meeting about the different
17 pronunciations that these experts are using to
18 mention the same name.

19 For example I'd been on two
20 committees looking at Accutane, isotretinoin.
21 And I've heard (pronouncing) isotretinoin,
22 isotretinoin, it's incredible. So in a group

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 of experts you have multiple pronunciations.

2 So here is the method. One person
3 at a time takes five minutes, get a list of
4 say 10 drug names, whatever it is, and have
5 people pronounce it. Tape record it, do a
6 little linguistic analysis, or even a simple
7 analysis, and then you plot a frequency
8 distribution. The frequency distribution
9 plots on the Y axis the percentage of
10 responses as a function of along the X axis
11 the individual pronunciations from most to
12 least popular. So I'm gesturing, I'm pointing
13 at people on this side of the room.

14 And then you look at the shape of
15 the function. And if it is a steep function
16 with one basic pronunciation, great. That is
17 something you can do with each person, maybe
18 about say 25 - 50 people. You can do it with
19 consumers; you can do it with doctors, you can
20 do it with nurses, pharmacists, so on; very
21 quickly, five minutes of their time. And if
22 you get a steep function which is one

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 pronunciation, you are kind of in business on
2 this. But if you get two, then maybe you can
3 use some way of tall man or coloring to
4 enhance the one you want.

5 But if you start getting something
6 where there are several that are high, or it's
7 really flat with lots all at about 30 percent
8 of response rate, then you know you have a
9 problem.

10 So a pronunciation task is simple
11 and easy to do, and it goes a long way to
12 identifying problems early on. This can be
13 done not only in phase one, it can be done in
14 phase zero, if you will pardon the expression,
15 to get a preliminary idea about what the
16 difficulties are going to be.

17 So in summary I've talked about a
18 recognition paradigm, a search and find
19 paradigm, and a pronunciation task. All of
20 these have standard ways of doing them. They
21 are quantitative, and the data can be compared
22 across drug names, companies, anything that

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 you wish. And it could be a gold standard in
2 a sense for these limited types of things,
3 about pronunciation, and visual confusability
4 and so on. And you can get true error rates
5 in the limited laboratory context. It doesn't
6 say exactly what is going to happen in the
7 real world settings. But with these things up
8 front you can predict what is going to happen
9 in your more complex scenarios.

10 MS. HOLQUIST: I just have a
11 question. Much of what you talked about
12 really seems to focus more on the phonetic
13 aspects of the name. Is there like a simple
14 task similar to that for -

15 DR. DAY: Can I just say something?
16 We talk about orthographic or phonetic and
17 sound alike/look alike. They are tightly
18 bound. That is something that disturbs me in
19 all these meetings. Let's do a look alike
20 analysis. And everything that you say is good
21 to do it. And we'll do the sound alike
22 analysis. Well, they are tightly bound.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 So if you go to POCA, so POCA is
2 the computational method of finding, if there
3 is going to be sound similarity, and visual
4 similarity, and so forth. Last time I looked
5 at that, for each drug name there is a
6 phonetic description that is put into it. So
7 when you get your new drug name you put in the
8 phonetic description and you see if you get a
9 ding, just like in the pharmacy, if you get a
10 drug interaction you get a ding that you
11 shouldn't take these two together.

12 Well, if some drugs, even that are
13 already out there that you compare it to, that
14 have multiple pronunciations, not being
15 represented in POCA. So I love POCA; it's
16 beautifully designed; the people at Maryland
17 did it well and so on. But if you don't have
18 true data on the - not just that there is an
19 alternate pronunciation, but the frequency
20 distribution of pronunciation. Then what is
21 POCA telling you? It's telling you if you are
22 going to get a ding as a function of what they

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 put in as the likely pronunciation.

2 So it's great for FMEA to predict
3 what the likely pronunciations are, but until
4 you get the data you don't know.

5 I'm sorry, I jumped ahead of your
6 question there.

7 MS. HOLQUIST: No, that's fine, and
8 that's an important point to point out. I
9 think when we developed POCA there was a
10 misnomer that we actually used that system to
11 make our ultimate determination. And that's
12 not at all what we use it for. We basically
13 just use it as a tool, as another tool, to
14 find some more names that we might think -

15 DR. DAY: I think that comes across
16 clearly in the concept paper, so I don't think
17 that is a concern. But I'm saying that POCA
18 could be, if you will pardon the expression,
19 more better if it could include the basic data
20 about what the frequency distribution of
21 pronunciations is for a given drug. And you
22 could put it in for professionals and for

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 consumers, but I'm predicting there is going
2 to be a lot of similarity between both.

3 DR. SMETZER: Yes, we're talking
4 about alternate approaches right now. And I'd
5 like to talk about a new risk modeling
6 approach that we are starting to use in health
7 care.

8 It's rather new. It's borrowed
9 from industries, other industries, similar to
10 FMEA that we brought into health care many
11 years go. It's called socio-technical
12 probabilistic risk assessment, STPRA, such a
13 mouthful we just call it STPRA.

14 It's the new risk modeling
15 technique that is being used in health care in
16 the past several years. In fact we are
17 currently doing some research using that
18 process with some high alert drugs in a
19 community pharmacy, and we are finding it to
20 be an excellent source of information about
21 risk.

22 It differs from FMEA in that it

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 builds on FMEA, and what it delivers at the
2 end of the process is a very visual model of
3 all the risks that are associated with both
4 behavioral and system issues that cause
5 errors.

6 And the really nice thing about it
7 is that it predicts the frequency of those
8 failure rates, and the frequency of error.

9 Another way that it differs from
10 FMEA, before I describe the process, is that
11 FMEA is really looking at failure modes and
12 how they happen individually one at a time.
13 And this STPRA process looks at all the
14 different failure pathways that could happen,
15 and the combinations of those failures, and
16 puts them together and can give you a
17 predictive rate of frequency of error, and in
18 that way we think it could be used with the
19 name testing process to determine how
20 frequently that error would actually happen
21 with a look alike - with other look alike
22 drugs.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 So just to give you a little
2 sampling of how the process works, you first
3 have to do an FMEA. You have to do some
4 testing on the drug name, how compatible it
5 is, how it looks like other drugs. And so
6 FMEA has to be done first, and it can narrow
7 down your possible choices for a proprietary
8 name to several that are more attractive.

9 And then you can use this STPRA
10 process on top of that that will complement
11 the process that was laid out in the proposal
12 here, and also add some dimensions to it that
13 were mentioned as weaknesses.

14 The process works by first doing
15 the FMEA, and identifying the type of errors
16 that would happen with a particular drug, and
17 how it could look like other drugs.

18 The second part of that process is
19 to make sure that you build a model, a fault
20 tree model that really looks at the entire
21 process of how the drug will be used. So if
22 it's a drug that is only going to be used in a

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 hospital setting, you would need to look at
2 the entire prescribing to administration
3 process. If it's a drug that is going to be
4 used also in a community setting, you'd have
5 to look at how the drug would be prescribed in
6 an outpatient setting, or if it's a drug
7 that's going to be used in a physician office
8 practice and be administered there. So there
9 are different settings, and you need to
10 develop models that really look like the
11 process steps that are happening in real life
12 everyday.

13 The other part of that model is,
14 building on top of that what we'd call control
15 mapping, and putting into place the different
16 controls that are built into the systems as
17 they exist today. So it may be a double check
18 system that is always in place if a technician
19 is filling an order or filling a prescription,
20 and a pharmacist would check it. Or it could
21 be a control system that is inherent in the
22 system. For example one medication may look

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 very different than another medication, and
2 its appearance would be a signal or a control
3 for a pharmacist, a clue that something is
4 wrong.

5 So you take that and you build a
6 model, and then you use a focus group of those
7 practitioners that would actually be using the
8 type of drug that you are looking at, and
9 again, I think it would be the top two or
10 three names that may be viable for a potential
11 submission for a proprietary name.

12 And then model all the different
13 types of initiating errors that could happen.

14 Start with the type of error, a prescribing
15 error, a physician prescribes the drug, and
16 through real life conditions, how that drug
17 could be misinterpreted as another look alike
18 product, and take it all the way through the
19 system.

20 At the end of the day the top level
21 event would be that that error resulted, and
22 reached a patient.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 So one of the nice things about
2 this STPRA process is that it not only models
3 and puts in qualitative terms or quantitative
4 terms the frequency of the failure rates, and
5 the error that could happen; it also will tell
6 you whether that error can be captured with in
7 the current systems that we have for
8 prescribing, dispensing and administering
9 medications.

10 So if it's captured it won't be
11 part of the top level event.

12 So this whole process really looks
13 at whether this initiating error can get all
14 the way through the system. And you use a
15 focus group of these practitioners to estimate
16 the different failure rates that could happen.

17 Now we have a lot of research out
18 there that tell us that if there is a human
19 error involved, and it's just simple human
20 error, that we can attach a specific weight to
21 it.

22 If there is an error that has a

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 greater potential because of the look alike
2 potential similarities of other names, you
3 would use practitioners to try to give you an
4 estimate of how many times that would happen.

5 And at the end of the day there are
6 different ways of combining the different
7 basic events or the different failures that
8 can happen with either AND gates or OR gates.

9 An AND gates would pretty much say that this
10 had to happy and this had to happen in order
11 for that failure to occur.

12 So a pharmacist would have to have
13 misinterpreted that prescription and entered
14 it into the computer, and the pharmacist would
15 have had to have done the data verification
16 and missed that also. And all the way through
17 the process that was missed. Those would be
18 types of failure that would be put under what
19 we call an AND gate.

20 And the OR gates are more or less
21 gates which say, this could happen and lead to
22 a failure, and this is another way it could

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 happen and lead to a failure.

2 All of this information is put into
3 a statistical program, an engineering program
4 that can deal with complex computations, and
5 it can multiply all the failures that could
6 happen and lead to the ultimate mix-up of two
7 different drugs, and give you an actual rate
8 at the end of the day.

9 Now we have been working with this
10 process for about a year, and I will tell you,
11 it was a brand new process to us, and we are
12 not experts in that. And you do need
13 facilitators that are experts in the process.

14 But we are entirely amazed by the accuracy of
15 it. We have been able to verify the models
16 that we've built to date so far with data that
17 is out there, and we are very confident these
18 focus groups actually do produce the rates of
19 error.

20 The nice thing about the models,
21 too, is that it really mimics real life. It
22 not only picks up human error, just plain

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 simple human error that can happen that may
2 not be part of the simulations that you are
3 looking at right now.

4 It also picks up at-risk behaviors.

5 So when you have a focus group get together,
6 and you have a facilitator that makes it easy
7 to talk about the real life processes, you
8 find out how many times those controls that
9 are built into the systems really don't work
10 because people are bypassing them, taking
11 short cuts, et cetera. And that is built into
12 the entire model to give you an actual rate of
13 error at the end of the day.

14 So I think this is a new risk
15 assessment tool that should be explored, and
16 how it could be used in the name process. And
17 I know that we at ISMP are looking for ways to
18 try to do some kind of pilot with that, to
19 move it forward now that we are about at the
20 end of our current research and using that in
21 community pharmacy settings.

22 So it is a very difficult process

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 to explain. I apologize for the shortness of
2 the description. It's a very robust process,
3 and it's really turning out to be an amazing
4 tool that can not only provide qualitative
5 information but visual and quantitative
6 information about errors.

7 DR. COHEN: I should mention that
8 this is research that is sponsored by AHRQ.

9 MS. HOLQUIST: I have a question.
10 So it sounds like this process takes into
11 consideration some of the things that Marjorie
12 was referring to, where you are not just
13 looking at the name, you are looking at the
14 whole product. So when you build these risk
15 models, you are looking at where it's stored,
16 all that is taken into consideration.

17 DR. SMETZER: Exactly. It does not
18 replace a failure modes and effects analysis,
19 and it may not replace some of the simulations
20 that you have set up in your proposal. One of
21 the things I think it would pick up that maybe
22 that does not, is when you are looking at the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 entire process, and you are looking at all the
2 steps that you need to go through to actually
3 prescribe and get a drug to a patient, I think
4 even in the simulations you may not have
5 picked up the fact that there could be a look
6 alike drug name that is causative in a drug
7 selection error; or it's not just
8 misinterpretation of a prescription; it could
9 be the prescriber who is actually mis-reading
10 in an electronic format the different drugs
11 available to him.

12 So there are a lot of ways that one
13 medication with a name that looks like another
14 can contribute to errors, and you would pick
15 that up through this entire process.

16 But it does look at real world. It
17 looks at what's going on. It is dependent on
18 practitioners that would be using that
19 product, or are using that product if you are
20 looking at a drug that's already on the
21 market, or a situation that is already in
22 place.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 MS. HOLQUIST: I just want to ask
2 another question about this process. It
3 sounds like through this statistical analysis
4 that you might weight certain features of
5 what's causing the confusion, and maybe you
6 can fix it whether it's a system base or if
7 it's the name.

8 Through this whole process, if you
9 are looking at the whole use system, is there
10 a way to say to get back to Bob's point, how
11 much of this is just part of the name
12 component alone, and how much is the overall
13 product as it is on the shelf? And do you
14 think we could ever go to just looking at the
15 name alone, or do we necessarily - will we
16 always have to look at the entire product?

17 DR. SMETZER: I think the process
18 will look at the entire product rather than
19 just the name, just because it's taking errors
20 all the way through the system as I said.

21 One of the things that I didn't
22 mention that I think is so valuable in this

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 entire process is, because you have a
2 statistical program and you have these models
3 built, the program actually allows you to
4 develop some cut sets that will tell you what
5 your risk pathways are.

6 So instead of looking at one
7 failure and how it affects others, you are
8 looking to say, what is the greatest pathway
9 of risk that that error could actually reach a
10 patient.

11 Just to give you an example, we
12 know from the research that we've been doing
13 currently that data entry is one of the more
14 vulnerable parts or steps in the process of
15 medication using a community pharmacy. But we
16 were surprised to find that the greatest
17 pathway for an error to go through the system,
18 at least for a specific drug that we were
19 looking at, is for a pharmacist to do that
20 data entry.

21 And the reason for that is, nobody
22 is doing data verification if the pharmacist

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 is doing the data entry. Yet when we added a
2 simple tech check pharmacist on the data
3 entry, it became the most reliable way of
4 avoiding an error.

5 So one of the things you can do
6 with these models is, you can change exposure
7 rates, you can change conditions, and still
8 come up with a predictive rate of error within
9 the models.

10 MS. HOLQUIST: That's very
11 interesting. I look forward to hearing more
12 about that.

13 DR. FEDERICO: Just following up
14 with several comments.

15 One, Bob, I agree with you, and
16 what we just heard Judy say, that it's not
17 just a drug name that solves the problem.
18 There are other problems in the entire
19 medication system that need to be addressed.

20 And in our work at the Institute
21 for Health Care Improvement, as you try to fix
22 one part of the system you find a problem

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 someplace else.

2 The challenge, however, having been
3 at the front line, is that most of the
4 hospitals don't have either the resources or
5 the knowledge to figure out how to error proof
6 some of these situations. So if we can at
7 least help by not making it any more complex,
8 that is, at least doing something, we're
9 trying to minimize the opportunities that can
10 happen with look alike/sound alike drug names,
11 that would be a great benefit to the people at
12 the front line, fully appreciating it's not
13 the only solution to the problem.

14 The other component that I think is
15 critical, is that I am worried and I think
16 Andrew brought this up about replication;
17 being able to reliably do this each time. And
18 if you are a small drug company and you can't
19 do this, what is the model we should have out
20 there to be able to do this?

21 And I know that early on when Mike
22 and ISMP were doing this work, and I was on

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 the front line, I would participate in the
2 drug name review. And whether it could be
3 done independently with an additional
4 component that was just brought up this
5 morning, that there are other aspects that
6 should be considered like the packaging, and
7 the drug strength, and all of that.

8 I think when we did it, and I was
9 part of it, I wasn't considering all of that.

10 I was just thinking, does the drug look like
11 something else.

12 When we added the drug to the
13 formulary, the initial process was that the
14 pharmacy and therapeutics committee was a good
15 ole boys' breakfast meeting. We had a couple
16 of bagels and coffee, and somebody said, I
17 want to add drug X to the formula, and
18 everybody said, agree, disagree, and it was
19 done.

20 We reorganized the committee so
21 that the formulary group actually did an in-
22 depth investigation around not only the safety

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 and efficacy of the drug, but we conducted a
2 simple FMEA. Is it likely that this will
3 confuse us with something else? Can the
4 prescriber make a mistake? Can a nurse make a
5 mistake in administering? Can a pharmacist
6 make an error in preparation? All of these
7 components.

8 So it is complex, and I can tell
9 you that if the drug name added to that
10 complexity it was just going to make my work
11 that much more difficult at the beginning in
12 being able to do that.

13 But I want to reemphasize, not all
14 of us have the capacity or the skills to be
15 able to do that at the front line, so we owe
16 it to our patients and our health care
17 providers to try to simplify this process.

18 DR. LEE: Before this session ends,
19 I would be remiss if I didn't say something
20 about handwriting. It's a pet peeve of mine,
21 and that is, I think that Mike amply showed
22 that handwriting throughout the whole medical

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 system - it's not just in prescriptions, but
2 handwriting shows up in doctors' notes, and in
3 a lot of areas, and the IOM report found
4 handwriting to be a substantial problem as
5 well, the latest IOM report.

6 And it did urge new prescribing.
7 And I just wonder that if you don't have some
8 standard on the handwriting samples that you
9 are going to use in the simulations, if you
10 aren't in a way fooling yourself into thinking
11 that you are actually checking a real world
12 condition, that the name can do something
13 about, if the handwriting is so distorted that
14 the person looking at it can't even determine
15 what the word is, not that they don't respond
16 - they may not respond with another drug, but
17 if the overwhelming percentage of the
18 respondents is not getting the word right, and
19 it's more a comment on the legibility of the
20 script than it is on the name.

21 And I think on the issue of stress
22 and preventable in the error definition, that

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 definition goes on to say that a medication
2 error is any preventable event, et cetera, it
3 goes on to say that preventable events are
4 related to - and then it lists a whole bunch
5 of factors, including nomenclature, including
6 the name, meaning that, it seems to me that
7 that means that medication errors in which
8 name confusion is part of it will never get
9 you to zero if you just - zero or minimal
10 medication errors if you just stress the name.

11 It's a preventable event if you address all
12 of the factors; not - all of the causeways,
13 all the ways in which the medication error can
14 occur. It isn't a preventable event if you
15 just attack the name.

16 DR. DAY: A brief comment about
17 handwriting. I agree with what you said. The
18 converse is also true: if in the simulation
19 studies the handwriting samples are fine, and
20 don't include the ones that are going to be
21 more problematic out in the real world, then
22 there could be a false sense of security that

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 there wasn't as many errors through the whole
2 scenario.

3 So I would request some thought be
4 given to getting a lot of handwriting samples
5 generated up front. I mean I'd get 50 people
6 in a room. I'd write the name on the screen;
7 I'd type it on the screen. And then use this
8 in a sentence, and some other tasks, and then
9 take a look at what the handwriting variation
10 is again.

11 It's like - it's like a visual, not
12 pronunciation, but a visual production task.
13 So there is always perception and production,
14 okay. To perceive something, and then to be
15 able to produce it. So before I was talking
16 about the pronunciation task. That is oral
17 production. You need to have visual
18 production as well, and to know, you know,
19 what the frequency distribution is around that
20 in terms of illegibility and interpretability.

21 So anyway, however you do these
22 scenarios, without careful attention and

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 control to what the handwriting samples are
2 that you are going to get, you could get a
3 false sense of security - I mean you could get
4 both a false alarm and a hit rate as it's
5 called that are not true.

6 DR. GRISSINGER: Just one comment.
7 I'm a little concerned, I want to make sure
8 that people understand, especially the FMEA
9 process.

10 The key question in evaluating
11 names is, what could go wrong? And so
12 reproducibility is not really - is somewhat -
13 reproducibility - sometimes whether they even
14 know the drug name exists.

15 The other question that has to be
16 asked is, I keep hearing this is, what could
17 go wrong. So I think it's kind of a
18 combination of some of Ruth's things that she
19 was saying earlier as well as other things as
20 well.

21 DR. SMETZER: I just wanted to
22 mention that the model I talked about, the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 STPRA, would be able to determine the risk
2 that would go with each pathway, whether the
3 drug came in by fax or by handwritten or by
4 verbal order; whether it's left on a voicemail
5 system. But each of those conditions that
6 allowed for the receipt of the prescription
7 would be a separate pathway up through the
8 model and give you a rate of error so you can
9 actually determine you know how that error
10 rate was derived, and the different conditions
11 underneath it.

12 Similarly, you would have the
13 difference between whether you are using a bar
14 code system or not a bar code system; or
15 whether you have robotics fill that drug; or
16 whether the robotics wouldn't necessarily be
17 involved in it; et cetera. So you could turn
18 off and turn on different conditions in the
19 model and really be as accurate as possible as
20 to whether or not there is going to be an
21 error that reaches the patient.

22 DR. SHERIDAN: I think we need to

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 keep in mind with the verbal orders and
2 recognizing the names, at least in the
3 practice setting where I am at, at least half
4 of the physicians are not native English
5 speakers, so they tend to have various accents
6 too. So probably when you are going through
7 scenarios to pronounce the names, it should
8 include some people that are not native
9 English speakers.

10 DR. NOURJAH: Going back to your
11 concept sheet, and give one suggestion. Your
12 concept sheet, as I said, it's just a
13 framework not very specific. And that makes
14 it more subjective and causes more variation
15 among companies.

16 So one way to do that is to form a
17 consortium or an independent intrastate
18 reliable bodies that carry on these - conduct
19 this type of study for FDA. By this they use
20 - they try to come up with the most reliable
21 more valid as time goes, maybe they improve
22 more on their methodology. But it's more

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 consistent. I mean the simulation that you
2 suggest can be done in many, many ways.
3 Unless you can say, I want it in this type of
4 writing, this type of voice - noise in the
5 pharmacy, at this level of task - multitasking
6 of pharmacies is doing, you cannot really
7 assess the review - assess the quality of the
8 study that comes to you for name confusion.

9 So it's good to have a body to do
10 that, which they use a standard method, and
11 you would keep working with them, and see if
12 you get a situation or condition that is
13 acceptable to all scientists and FDA.

14 MS. HOLQUIST: Who would you see as
15 the makeup of this consortium? What type of
16 individuals?

17 DR. NOURJAH: Right now, there are a
18 number of people when I listen to them, I
19 think they are qualified to be part of that,
20 as well as people with expertise, as I said,
21 like FDA staff. If you can train some people,
22 that would be ideal. And also academicians,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 which are very - that is their - you know,
2 their work, research work, to establish gold
3 standard, to improve validity and reliability
4 of the method. So I would bring in that
5 consortium, that type of individuals, and
6 perhaps pharma to be part of it, and also
7 other industries have some representative,
8 just to be engaged.

9 MS. HOLQUIST: What I think I also
10 heard loud and clear is that patients need to
11 be involved in this type of evaluation as
12 well.

13 DR. HARTMAN: There have been some
14 suggestions by panelists that the process
15 should be more - well, should we very well
16 defined, and not allow for a lot of
17 flexibility. And just as a general comment, I
18 would tend to think we ought to have more
19 flexibility ultimately. The reason why is
20 because this isn't a science. We don't have
21 anything like or analogous to a double blind
22 clinical study that will tell us whether a

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 name is safe or not. All of these different
2 approaches that are part of the concept panel,
3 and that other people have suggested, reflect
4 the fact that we are in some ways grasping for
5 straws. I don't mean to say that we don't
6 understand a lot about name safety, but we are
7 not there yet; it's not a science.

8 And what I am concerned about is
9 that we shouldn't lock ourselves in. Because
10 if we lock ourselves in so that there is
11 always one method that all of the sponsors
12 will use, and that the FDA will rely on, then
13 we are going to perhaps we are going to hinder
14 the development of better name evaluation
15 techniques. So we really want a system, I
16 think, that ultimately allows for sponsors and
17 for vendors to take what is coming out of
18 research to incorporate that into the work,
19 and have it be considered by the agency.

20 DR. DAY: So we have before us in
21 the last two comments, should the procedures
22 be fixed, and standardized? Or open and

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 flexible? And I think the answers are: yes
2 and yes.

3 There could be a few simple easy to
4 conduct core tasks that everyone would do, and
5 then there are some general recommendations
6 about other things, and so the industry could
7 develop their own methods for that. Very
8 often new and creative approaches come forth
9 when other people are in the room, and that
10 often happens, and that can move quickly.

11 So I would recommend some things
12 that are well tested, and they are
13 scientifically based, some of them; they can
14 be replicated and validated and so on and so
15 forth; and some core tasks that everyone does,
16 and then some general recommendations, general
17 framework, so you don't have to say you have
18 to do 20 scenarios, but you need to have
19 scenarios of this type, or whatever; and then
20 allow for the flexibility and creativity that
21 has just been suggested.

22 MS. HOLQUIST: And I think with

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 respect to the fact that this is not science,
2 I think some of the people at the FDA might
3 take that a little personally, because it is a
4 science, and it's more of a social science
5 than it is what you traditionally see with
6 your approval of a product based on safety.

7 So I think that is what we're
8 actually trying to do is build the science
9 behind this, to look at what's out there in
10 the literature, we will look at some of the
11 accepted methods that are there, and build on
12 that. And yes, we don't want to squash
13 ingenuity here. That is the goal to really
14 get the best test practices.

15 DR. PHILLIPS: Part of that issue
16 related to creativity, high reliability,
17 organizations, use rapid cycle improvement.
18 And I think you really ought to look seriously
19 at avoiding the down side of this long time
20 period, and finding a way to cycle back the
21 improvements. How do you take the best
22 practices, the innovative ideas, that an

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 individual submitter would have and share
2 those with all the participants in a pilot so
3 they could integrate that in their processes,
4 not waiting for the two-year period, and then
5 sitting down and analyzing that data, but
6 really making it a continuous improvement
7 process as it goes along. And I think that
8 might help you gain a better outcome at the
9 end of the period.

10 DR. FEDERICO: Marjorie, thank you
11 for those comments. As I'm thinking of this
12 and saying, how would we do a test, just one
13 test, with one sponsor, one manufacturer, one
14 time walking through this process to see what
15 it would look like? I notice that here there
16 is an evaluation of the submission itself.
17 Are there other questions around how to
18 evaluate this whole pilot? Do you have other
19 set up that I think are critical for us to
20 also understand?

21 MS. HOLQUIST: I think that is what
22 we want to talk about tomorrow afternoon is

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 how would we best evaluate this overall pilot,
2 and what should we be looking at, and should
3 it be FDA.

4 DR. KORN: Just a follow up. There
5 has been a lot of discussion here about
6 different tests. There have been tests
7 discussed before in 2003 and the like, and FDA
8 made statements about there being no gold
9 standard, and that this should be a
10 combination.

11 Is there an FDA assessment of
12 tests? Or is this whole process part of the
13 follow up to 2003?

14 MS. HOLQUIST: This whole process is
15 the follow up to 2003, and I think that is
16 what we've learned is pretty much the state of
17 science has been pretty stagnant since 2003.
18 And so we have used the methods that we know
19 best at this appropriate time. And so what we
20 are looking for are, are there new and better
21 ways to evaluate what we are doing now. That
22 is the whole purpose of this.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 DR. LEE: Carol, could I make - it's
2 a little off the topic. I think we are
3 probably going to end. But it is about stems.

4 And for many, many years, pharma companies
5 have been speaking with WHO and with USAN
6 about the respecting stems. And there has
7 been kind of an unwritten guideline about
8 stems that are reasonable end stems, like five
9 or six letter stems, or multiple syllable
10 stems, but certainly avoiding those stems and
11 the stem position in names particularly where
12 you are not in the same therapeutic class,
13 that those stems are things that could be
14 respected.

15 But when you start looking at two
16 and three letter stems, one syllable stems,
17 particularly two letter, you take - and if
18 they were to proliferate, those two-letter
19 stems, you would take an awful lot of possible
20 combinations of syllables, letter
21 combinations, out of the vocabulary. It's not
22 the same as saying, I will refrain from using

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 a six or seven-letter combination. That is
2 pretty easy to do. But a two-letter
3 combination is often very difficult.

4 And I would suggest that we look at
5 ways to work with USAN and WHO about the way
6 in which stems are created, because the
7 opposite can happen as well. If it really is
8 a safety concern, then what happens when a new
9 stem is created, and its found in names that
10 are already on the market, and that the stem
11 is in the stem position of existing names?
12 There doesn't seem to any concern about WHO
13 and USAN making sure that when they create
14 stems, they create stems that don't already
15 appear.

16 And I think if they started to do
17 that, this problem - this issue of - I have an
18 issue anyway - with stems would go away.

19 MS. HOLQUIST: Yes, I totally agree
20 with you. And that's been one of our pet
21 peeves for a long time as well. The only
22 thing is, we don't have control over that.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 And so we've been trying to work with our USAN
2 representative to bring forth some of these
3 concerns. And that is primarily a number of
4 the reasons why we try to avoid them in the
5 use of the proprietary name.

6 Okay, I think we're at the time.
7 And so thank you all for your participation in
8 this panel. It was a very rich discussion,
9 and we really appreciate all of you coming
10 here today. And we are going to break for
11 lunch now, and we will reconvene at 1:00
12 o'clock when we will discuss the evaluation of
13 non-proprietary names.

14 Thank you.

15 (Whereupon, at 12:03 p.m. the proceeding in
16 the above-entitled matter went off
17 the record to return on the record
18 at 1:06 p.m.)

19 PLENARY SESSION: SAFETY REVIEW OF PROPOSED
20 NONPRESCRIPTION DRUGS

21 MS. PAULS: Good afternoon,
22 everybody. If I could please have everybody

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS
1323 RHODE ISLAND AVE., N.W.
WASHINGTON, D.C. 20005-3701

1 take their seats, so we could get started with
2 panel two.

3 I just have a couple of
4 housekeeping reminders. Several people have
5 asked about the slides today. The slides will
6 be posted onto the website after the meeting
7 as well as to the docket. It may take a
8 couple of weeks because we have to make them
9 508 compliant before they can get posted.

10 In addition to that the transcript
11 will also be posted as soon as I get it and we
12 make sure that it's accurate. So that usually
13 takes anywhere from three to four weeks after
14 the meeting.

15 As a reminder out in the front and
16 in the panelists' packages there is a sheet
17 talking about how to post comments to the
18 docket. We have a new regulations.gov website
19 that is pretty easy to do, and I tried to
20 leave some specific directions in there.

21 Also in regard to housekeeping,
22 when you do want to speak, please make sure

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 for transcriptional purposes that you state
2 your name and your organization before you
3 make a comment, and in addition we can only
4 have six mikes on at one time, so make sure
5 that you turn the mike off when you are done.

6 That being said, we are back on
7 panel two. We have a couple of people that
8 are different this time. If we could start
9 with you, Dr. Sheridan, and go this way, to
10 have everybody introduce themselves please.

11 DR. SHERIDAN: I'm Dan Sheridan, I'm
12 a medication safety pharmacist from Marion,
13 Ohio.

14 DR. HORN: Hi, I'm Donna Horn with
15 ISMP.

16 DR. BRASS: Eric Brass, Department
17 of Medicine, UCLA.

18 DR. PHILLIPS: Marjorie Shaw
19 Phillips, pharmacist with MCG Health and
20 University of Georgia.

21 DR. SPANGLER: Hi, I'm David
22 Spangler with the Consumer Healthcare Products

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 Association.

2 DR. TAYLOR: Hi, Kellie Taylor, FDA.

3 DR. DAL PAN: Gerald Dal Pan, FDA.

4 DR. LEONARD SEGAL: Andrea Leonard
5 Segal. I direct the Division of Non-
6 prescription Clinical Evaluation at FDA.

7 DR. JOHNSON: Sue Johnson, Associate
8 Director, Office of Non-prescription Products.

9 MS. HOLQUIST: Carol Holquist, FDA.

10 MS. TOYER: Denise Toyer, FDA.

11 MS. PAULS: Lana Pauls, FDA. And
12 Ruth, if you could please join us up at the
13 panel, I have a seat for you on the right-hand
14 side.

15 DR. BULLMAN: Ray Bullman, National
16 Council on Patient Information and Education.

17 DR. FEDERICO: Frank Federico, the
18 Institute for Healthcare Improvement.

19 DR. DAY: Ruth Day. Duke
20 University.

21 DR. GAUNT: Michael Gaunt, Institute
22 for Safe Medication Practices.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 DR. COHEN: And Mike Cohen, ISMP.

2 PANEL 2 - NONPRESCRIPTION REVIEW OF PROPOSED
3 PROPRIETARY NAMES

4 DR. JOHNSON: Good afternoon.

5 Thanks for joining us today. I
6 know a lot of people may still not have power
7 at home. When I was driving in, I thought
8 that last night was the night the lights went
9 out on Georgia.

10 (Laughter.)

11 My name is Sue Johnson. Don't
12 trust your soul to a backwards southern
13 lawyer. I'm the associate director for the
14 Office of Nonprescription Products, and I'm
15 here to give you a short background on
16 nonprescription drug regulation.

17 We in our preparation for this
18 decided to focus on some very specific
19 elements. There is a lot more to it, and if
20 anybody has additional questions today I can
21 add comments about the process, but if you
22 would like additional information the website

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 is also listed here.

2 Non-prescription is the term that
3 FDA is moving towards, but most folks are
4 familiar with the term, over-the-counter, or
5 OTC, so we will use those interchangeably.

6 There are two regulatory processes
7 that apply to OTCs - let me get this out of
8 here. The first is the new drug application
9 process, and when you hear on the news that
10 FDA has approved a new drug, they are talking
11 about a drug that is being considered under
12 the NDA process.

13 The second regulatory process most
14 folks who don't deal with OTCs know less about
15 and that is the OTC drug review process or the
16 monograph process.

17 And I'll talk a little about both
18 regulatory processes, and about labeling and
19 proprietary names for both.

20 I just wanted to mention, based on
21 Mr. Cohen's slides this morning, that neither
22 of these processes relate to dietary

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 supplements. So between the prescription
2 realm and the OTC realm, neither covers the
3 dietary supplements, and those were present in
4 some of his slides this morning.

5 So let's start with the NDA
6 process. And to market under an NDA process,
7 it's pretty much the same for OTCs and for
8 prescription products. Industry applicants
9 send an NDA application to FDA, and that
10 contains the data that are relevant to support
11 safety and efficacy.

12 In that application the industry
13 proposes a tradename, and other labeling, so
14 there is a formatted labeling that is
15 submitted to us with the application.

16 For OTC products, there is also
17 sometimes special studies, consumer studies,
18 that help us understand how consumers view
19 labeling. So do they understand the words on
20 the label? Can they use the label to choose a
21 product which is appropriate for their
22 condition?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 And then can they use and follow
2 through based on that label? Do they take the
3 medication right? Do they understand any drug
4 interactions? Do they understand potential
5 adverse effects?

6 So after an NDA is submitted by an
7 applicant, FDA is required to review that NDA
8 application, same as for prescription drugs,
9 on a Congressionally mandated timeline. And
10 most folks have heard of PDUFA, or
11 prescription drug user fees; that is the same
12 for NDA and OTC products.

13 So a favorable FDA review is
14 required, and an approval is required prior to
15 marketing for NDA products. It's specific to
16 a drug product, and depending on the
17 information within the application, it may
18 provide for marketing exclusivity, which means
19 there is only one product of its type on the
20 market.

21 You are probably most familiar with
22 NDAs for OTCs as the mechanism for Rx to OTC

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 switches, so that was the instances in which
2 prescription medications become available OTC.
3 Some of our recent switches are for alli for
4 weight loss, which you have seen, and MiraLAX
5 and Zyrtec, all have a lot of promotional
6 information out there these days. I'm sure
7 you have seen those products.

8 So safety review for proprietary
9 names is conducted by the Division of
10 Medication Error Prevention, the same way as
11 it's conducted largely for prescription
12 products. So at the end when we go to take an
13 action on an NDA, we approve normally one or
14 more trade names with that NDA approval.

15 The industry has also been allowed
16 to change or add a proprietary name to a
17 specific product. And line extension I think
18 has different meanings to different people.
19 In this scenario what I'm talking about is
20 marketing the same product, the same
21 formulation, under different trade names.
22 Industry is allowed to do that. And in the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 end you end up with a drug store shelf with
2 duplicate products with different names
3 essentially. And that includes distributor
4 names, which may be specific to a retail
5 outlet like a chain drugstore.

6 Okay, let's switch then to
7 marketing under the OTC drug review. This
8 process is different than the NDA process in
9 that it's organized around active ingredients
10 rather than specific products. It was
11 established in the early '70s to deal with
12 products that were then being marketed OTCs.
13 It does have provisions for new ingredients to
14 be added, but that hasn't happened to any
15 significant extent at this point.

16 The whole process is a series of
17 regulatory steps based on public notice and
18 comment, so it's all a public process
19 rulemaking, and the rulemaking steps are
20 interspersed with OTC Office of Non-
21 prescription Evaluation of the data that has
22 come in.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 In the end what's the product of
2 this review is a monograph, and in that
3 monograph the FDA defines allowable conditions
4 for that active ingredient to be marketed, and
5 that would include things like drug
6 combinations that are allowed.

7 Part of the monograph review
8 process is determining whether a drug is
9 generally recognized as safe and effective, or
10 GRASE, and when a drug is determined to be
11 GRASE, all of this information gets finalized
12 in a monograph.

13 The monograph process does not
14 allow for drug products to be reviewed before
15 they are marketed. The conditions for
16 marketing again are set up in the monograph,
17 and as long as the company is following the
18 pertinent regulations including manufacturing
19 and labeling, et cetera, they are allowed to
20 market the product without prior approval.

21 So in follow on to that,
22 proprietary names for OTC monograph products

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 are not reviewed by FDA prior to product
2 marketing. And this is distinctly different
3 from the NDA process in which they are.

4 Labeling, and these comments
5 pertain to all OTC products, both NDA and
6 monograph, is directed to a consumer. It is
7 intended to be in plain language, and consumer
8 comprehensible. It's intended to convey
9 everything the consumer needs to know to
10 adequately figure out if what symptoms they
11 are experiencing meet the conditions the drug
12 is intended to meet. It is intended to be
13 used, to be able to be used, without health
14 care provider supervision.

15 The drug facts format is the
16 consistent requirement between NDA and
17 monograph products, so all product information
18 is required to be in that format. And FDA
19 regulates OTC labeling. We don't, however,
20 regulate OTC advertising, which is distinct
21 from labeling. The Federal Trade Commission
22 regulates OTC advertising, and that is

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 different than prescription products where FDA
2 has regulatory authority over their
3 advertising.

4 Here is a template for the drug
5 facts format. And if you use any OTC products
6 at all, hopefully you recognize this. I've
7 turned the box around to see this. It has the
8 familiar box format, with subheadings for
9 active ingredients, uses, warnings, et cetera,
10 all information that we think the patient
11 needs to use the product properly. The agency
12 emphasizes the importance of the drug facts
13 portion of the labeling for patients to select
14 and use their products properly.

15 Proprietary names for both NDA and
16 monograph products are considered to be part
17 of the labeling. While we think that trade
18 names may affect consumers' ability to
19 identify and use products properly, we really
20 need additional data to understand those
21 relationships.

22 It's the existing regulations that

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 dictate much of our interaction with OTC trade
2 names and our ability to make decisions. So
3 I'll just focus this discussion on OTCs this
4 afternoon on the fact that we are largely
5 guided by the existing regulations. But
6 having said that, the existing regulations do
7 allow us to take enforcement action if we
8 identify products with proprietary names that
9 are found to be false or misleading. And I'll
10 be happy to take clarifying questions, but
11 first let me introduce the questions for panel
12 two.

13 The first thing we would like to
14 know is since non-prescription products that
15 are marketed under an NDA can participate in
16 this pilot program, we are looking for
17 feedback on whether the mechanisms for
18 reviewing safety issues associated with
19 proprietary names for prescription and non-
20 prescription products should be the same, or
21 should they be different?

22 And in addition if we are not quite

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 sure exactly how to do safety reviews of OTC
2 trade names, what additional studies would
3 help us generate data to figure that out. And
4 that's all I have to say. If folks have
5 questions about the OTC process, I can address
6 those.

7 DR. HORN: I have a question for
8 you, Susan. Can you give me an example of an
9 OTC drug that has gone through the monograph
10 process recently so I can understand what the
11 difference is?

12 DR. JOHNSON: The vast majority of
13 OTC products that are marketed are actually
14 monograph products. They are the older
15 moieties, some of the more common ones are
16 antihistamines, decongestants - Sudafed is a
17 monograph product, acetaminophen is in the
18 monograph. Many of the products we saw this
19 morning were monograph products if not all of
20 them. Docusate is in the monograph as a
21 laxative. Bisacodyl is in the monograph.
22 Bismuth salicylate is in the monograph.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 DR. GAUNT: Hi, this is Mike Gaunt
2 from ISMP.

3 I just, curiosity, why you would
4 approve more than one name for an NDA?

5 DR. JOHNSON: I'll go back to the
6 regulatory basis for our decisions. And one
7 of the things we didn't want to focus on at
8 the meeting today was a lot of regulation
9 because the purpose of the meeting is to get
10 feedback on how to do this analysis. So the
11 attenuated discussion of that is really the
12 regulations do not prohibit it, and therefore
13 it's allowed.

14 I think that the focus on - one of
15 the issues that has come up recently was one
16 sponsor was interested in having two trade
17 names for a single NDA. And our attorneys
18 brought up - the question came up as to
19 whether or not that was going to be confusing
20 to patients. The attorneys brought up the
21 fact that that moiety, that very same active
22 ingredient, was marketed by many different

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 sponsors.

2 So why in particular were we
3 worried about the confusion between two names
4 from a single sponsor? And in fact, you well
5 know in the marketplace, given all the - they
6 are not generics, but they are generic-looking
7 products that are marketed under the monograph
8 - there are many tradenames for the same
9 active moiety.

10 DR. LEONARD SEGAL: I can also add
11 that there are many issues that the attorneys
12 frequently will put into the mix regarding
13 First Amendment issues. And we need to listen
14 to their interpretation of the regulations in
15 all decision making that goes on at the
16 agency; that is paramount.

17 The other thing is that the entire
18 generic process, which offers the opportunity
19 for less expensive drug products, puts us into
20 the situation where you can have an approved
21 NDA that has one particular active ingredient,
22 and then a generic that has the same active

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 ingredient but will have a different name.
2 And there can be multiple generic products.

3 MS. HOLQUIST: Yes, I think the
4 clarifying comment to that, though, is that
5 most of those are not from the same
6 manufacturer, or the same sponsor, and I think
7 that was what you were asking about.

8 DR. JOHNSON: If this started, has
9 less to do with the monograph than it does
10 just to marketing in general, I think it
11 started way back when the generic process
12 opened up in that sponsors found that if they
13 marketed their name brand product at a higher
14 price, they would get that end of the market
15 going, and then they could change the trade
16 name, and market a seeming generic of their
17 own product, and capture the generic end of
18 the market as well.

19 So it's been a longstanding
20 practice.

21 DR. HORN: Just let me understand.
22 So if a company has a name like you say

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 Kaopectate for instance, the name is already
2 there. If they want to use that name,
3 Kaopectate, with another active ingredient,
4 different active ingredient, like what we saw
5 on the slide this morning, do they have to go
6 through the FDA to do that, or because the
7 generic has already been approved, and the
8 name has already been approved, they can do
9 that without going through the FDA? That's
10 the part I don't understand.

11 DR. JOHNSON: It is confusing
12 because the instances, while they seem the
13 same, are actually incrementally different
14 from one another. So the instance in which
15 Kaopectate's active ingredient changed is
16 different than some of the other examples we
17 saw this morning, where a name like Kaopectate
18 would add a different ingredient in a
19 combination, and use their sort of family name
20 with an extension.

21 In the instance - well, for
22 Kaopectate very specifically, that is a

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 monograph product; they were allowed to do
2 that without prior approval. Had we found
3 that there was sufficient reason to act on
4 that, we could have taken a compliance
5 enforcement action on it.

6 The issues related to each of these
7 individual scenarios are something that the
8 attorneys take very seriously on a case by
9 case basis. They are not willing to make
10 generalizations, and we actually asked them to
11 present today. But the generalizations they
12 are very uncomfortable with because, in fact,
13 each is incrementally different than the next.

14 MS. HOLQUIST: I've just been asked
15 for a housekeeping matter, that when you speak
16 if you could say your name before you speak;
17 this is just for the transcriptionist. Thank
18 you.

19 DR. COHEN: Mike Cohen from ISMP. I
20 have a question about the first question. So
21 before we can discuss that, can we ask the
22 question about the first question.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 Are you talking there about - when
2 you say, given the differences between non-
3 prescription and prescription product
4 regulation and use, should proposed
5 proprietary name review and methods be the
6 same?

7 Are you talking about the DDMAC
8 issues there as well being the same? Because
9 we are looking for that, or you are looking
10 for that, rather, with the prescription drugs.

11 And I have concerns about the safety of some
12 of the ads, some of the website information,
13 et cetera, et cetera, with over-the-counter
14 drugs.

15 For example one of the major
16 manufacturers of acetaminophen chooses not to
17 include the fact that it contains
18 acetaminophen in some of their ads and some of
19 the depictions of the product. And that
20 concerns me, because we have so much
21 duplication. That is a major issue that came
22 up at other advisory committees. And I would

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 want to see somebody taking a look at that.

2 So if you are including
3 advertising, I'd be in favor of that.

4 MS. HOLQUIST: I'll defer this to
5 Michelle Safarik and Lesley Frank. But I
6 think what you heard is that this really right
7 now, as it stands, it's not under FDA's
8 authority. It's under the Federal Trade
9 Commission, and I think we are also concerned
10 about that as well. And we have to look at
11 ways in which we could communicate that to the
12 sponsor while working within our regulatory
13 framework.

14 I think if you have concerns about
15 it, I would say go on record with your
16 concerns and we can take this back.

17 DR. SHERIDAN: I'm Dan Sheridan from
18 Ohio. I just want to clarify, when we talk
19 about the products that are - when a different
20 drug comes out with the same name, like, not
21 necessarily Kaopectate, but the Maalox example
22 where there are different Maaloxes, or another

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 example of a time my brother was watching his
2 grandchild at home, and the little girl had a
3 fever, so he went to the store to get her some
4 Tylenol. Didn't have his glasses. He was in
5 his 40s, and his eyesight wasn't as good as it
6 used to be. So what he came home with was
7 actually a form of Tylenol that had Sudafed in
8 it. I don't know if it even had Tylenol, but
9 it had Sudafed. So he gave the child Sudafed
10 for the fever and ended up with a little baby
11 that was bouncing off the walls all night
12 long, and he had to sit up and watch the baby
13 all night.

14 But is that something that just
15 happens without you being able to do anything
16 about it, or is it something that you can only
17 react to after the fact?

18 DR. LEONARD SEGAL: Well, I can
19 start with a question like that. I mean you
20 are talking actually about a monograph
21 ingredient. But in general the question is
22 about a - the same family name that covers

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 products that have different active
2 ingredients.

3 One of the things that we have
4 tried to do is we have tried to get data on
5 confusion within that family name,
6 comprehension in terms of potential consumers'
7 understanding of what the active ingredients
8 are in those individual products. And we
9 collect those data and see whether they show
10 us that there are major confusions.

11 One thing we can't control is
12 whether somebody wears glasses when they go to
13 the pharmacy to actually pick their product.
14 And -- but when we see that there is
15 confusion, we can make recommendations to the
16 sponsor that they change certain things about
17 the way that they are presenting the
18 information on the front of the box, in
19 essence, to try to highlight and emphasize
20 certain elements, certain active ingredients
21 that are in the product.

22 We do do testing for this, but

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 there are things that we can't control.
2 Another thing we can't control is, when people
3 walk into a pharmacy, how distracted they are,
4 whether they have their sick child with them,
5 and whether they are in fact paying attention
6 when they pick something off the shelf, or
7 whether they avail themselves of a pharmacist
8 to answer a question when they are choosing a
9 product.

10 There are things that we just
11 simply can't control, but we make efforts to
12 learn about the comprehension of the
13 ingredients in these products by consumers
14 when we think that there may be an issue of
15 confusion.

16 DR. JOHNSON: Can I just add, at the
17 outset of this discussion, let's make it clear
18 that the FDA does not in any way, Office of
19 Non-prescription or Office of Safety, want to
20 back away from the fact that there are
21 potential confusions here for family trade
22 names or whatever issues are in the public

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 interest.

2 What we want to emphasize today is
3 that we don't have a lot of data to link all
4 of these relationships and to really
5 understand what is allowable under the
6 regulations at this point. What is the impact
7 of that, and we do know that people get
8 confused, what is the ultimate safety problem,
9 what is the risk analysis of that. What would
10 the prevention be? Does getting rid of family
11 names actually help us? Or doesn't it have an
12 impact at all? What we would need are the
13 data. And so the first step towards that is
14 allowing - we have made a determination
15 internally that the way the regulation was
16 written for the pilot program, OTC products
17 are allowed to participate when they are
18 NDAed, in this pilot program.

19 So specifically what should we be
20 doing under this pilot program to try to sort
21 some of those things out.

22 DR. PHILLIPS: And given the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 understanding then that this is limited to the
2 NDA products, over-the-counter non-
3 prescription products, I will take a stab at
4 question one. And I think you do want a
5 similar or almost identical process, except
6 that the focus is going to be much more
7 largely on consumers, and also with the
8 recognition that a lot of the processes for
9 product selection, dosing, and use is under
10 control of a different group of folks.

11 That said, these products are also
12 ordered by physicians, recommended by
13 pharmacists, and then administered by nurses.

14 So I don't think you want to totally divorce
15 the process from a health professional review,
16 but it really has to look a lot more strongly
17 on the patient self use or the consumer self
18 use and their perceptions and what they see.

19 But because you have the
20 interaction between non-prescription drugs and
21 prescription drugs and confusion among those,
22 as well as the issue of medication

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 reconciliation when you are gathering
2 information from patients, I think you still
3 want to involve the same health professionals
4 in the process, but you are going to need to
5 involve a whole variety of consumers, and the
6 same kind of thought process you had when you
7 were involving multiple health professionals
8 in looking at a failure mode, or looking at
9 name recognition, or looking at pronunciation.

10 You are going to need to do that more heavily
11 weighted toward the consumer and patient end
12 because of who the primary users of the
13 products are.

14 DR. BRASS: I think before we get
15 too much depth into question one, I think it's
16 important to expand on some of Dr. Johnson's
17 comments that detail the data that are
18 available when making decisions about OTC
19 drugs, specifically the large amount of
20 behavioral research which is done to support
21 the decision making, that unlike the
22 hypotheticals that were talked about this

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 morning, in the case of OTC drugs, there are
2 well - well in quotes - established behavioral
3 clinical research paradigms to collect data
4 not with model panels, but truly
5 representative consumers, and study how the
6 proposed packaging, which includes the front
7 panel and proprietary name, the drug facts
8 labeling, allows the consumer to understand
9 the label, appropriately select the product,
10 and use the product in a real world, as best
11 we can, setting.

12 So in these kinds of studies,
13 consumers will take the drug home and use it.

14 They will have to make the decision about,
15 based on what they know from the packaging,
16 whether they should use other drugs. So we
17 are actually measuring the outcomes in an
18 integrated way and not in an isolated way.

19 Now I'm in no way suggesting that
20 those methodologies are perfect, but they have
21 evolved tremendously over the past 20 years
22 and provide a context for thinking about the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 isolated question of the proprietary name that
2 is very different than what we were talking
3 about this morning.

4 So that whether or not the name
5 engenders confusion with other OTC drugs or
6 other Rx drugs, that that consumer population
7 - now we are talking about hundreds and
8 sometimes thousands of consumers in these
9 behavioral studies, we know what they actually
10 do.

11 So we can use the type of
12 fundamental baseline research that Dr. Day was
13 talking about to help inform the design of
14 those studies going forward, but by the time
15 we are talking about names, it's in the
16 context of a large amount of behavioral data.

17 I would also say that that
18 experience is not irrelevant to the
19 discussions of this morning. Because first of
20 all it's important that everybody recognizes
21 that within the agency there is in fact a
22 cadre of expertise in social and behavioral

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 and comprehension research that can be used to
2 help design studies for other groups; but also
3 the concept that some data is better than no
4 data, and we'll get the data and look at it,
5 and then we'll figure out what it means, is
6 not always a useful paradigm.

7 And before one embarks on a data
8 collection exercise and behavioral research
9 such as the simulation types of studies that
10 were talked about this morning, whether or not
11 they will in fact be robust and informative to
12 the questions of interest has to be addressed
13 before you embark upon them. And that's a
14 lesson we've learned somewhat the hard way in
15 20 years of behavioral research for OTC drugs,
16 but it's a lesson that has been learned, and
17 that I think is critically important that the
18 potential for misinterpretation of data, and
19 making bad decisions because it's the only
20 data available, may outweigh any benefits to
21 the data collection exercise per se.

22 But central to what Dr. Johnson was

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 setting up, I think it's just really important
2 to understand that this is a consumer driven
3 process, but one in which we have actual
4 behavioral data that includes the consumer's
5 interaction with the proposed proprietary name
6 during the development process.

7 DR. SPANGLER: If I could just make
8 three quick points. One, Dr. Brass has just
9 articulated the fact that there are studies
10 when these products switch from prescription
11 to OTC. You just articulated it a heck of a
12 lot better than I ever could; so I'll second
13 what he said.

14 Second, as was pointed out in the
15 second ISMP person who was speaking this
16 morning, when she was talking about not just
17 the name, but the package, all the steps,
18 again, using the brand name as a code - now to
19 quote another person from this morning, Bob
20 Lee - using that brand name to bundle up
21 everything you want to communicate and get
22 across there, that is definitely the wrong way

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 to think about it. You've got to think about
2 that entire package, that entire label because
3 that is the communication tool that the
4 consumer is making their end use decision on,
5 that brand name, yes, it is trying to get
6 their attention, it wants to get their
7 attention when they walk into the store and
8 see a crowded shelf to cut through some of the
9 clutter. But that is just that initial little
10 hi, I'm here, shortcut; it's nothing more.
11 There is no substitute for reading the label,
12 and that is true for a health professional of
13 being aware of what ingredients are in there,
14 just as it is for the consumer.

15 And yes, there are instances where
16 someone would be handwriting. But again go
17 back to what Bob Lee said this morning, I hope
18 we are approaching an age where we have less
19 and less handwriting of medical records, and
20 more and more of it electronically
21 transmitted.

22 DR. GAUNT: This is Mike Gaunt from

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 ISMP. Just as a counter point there, a point
2 that Dr. Cohen had mentioned today is the
3 whole idea of confirmation bias, and it
4 happens to us as practitioners, and it happens
5 to us as practitioners and as a consumer.

6 When you walk into a pharmacy and
7 you see a whole row of products that have the
8 same family name, the likelihood of you
9 confusing that and in your mind's eye ignoring
10 some of those other details that are on the
11 box or the package, is increased I would
12 gather compared to even probably prescription
13 drugs. Because you have many different tablet
14 formulations, many different strengths - PM,
15 nighttime, daytime, extra strength, regular
16 strength, things like that. So I think the
17 name - you know, having that same name -
18 increases the likelihood that you are going to
19 have some of that confirmation bias in the
20 aisle at the drugstore, because you are
21 looking at the whole section of products that
22 have the same root name, you know, same parent

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 name. It doesn't - you're right, people would
2 -- we need to do a better job of reading the
3 boxes and the labels. But having that
4 presented as the main panel in a whole section
5 of products, I think, can lead to confusion.

6 One of our colleagues at ISMP just
7 made a mistake and came out with a PM product
8 instead of a regular product. And she is
9 someone who is a safety expert and has been
10 doing this. And to expect the patients to not
11 fall into the same traps or have the same
12 issues, I think they will.

13 DR. BRASS: Having said what I said
14 earlier, and now kind of moving in that
15 direction, I think first of all the points
16 that Dr. Johnson and Dr. Leonard Segal made
17 earlier about our paucity of data on the true
18 prevalence or consequences of these types of
19 mistakes handicaps us a little bit, so one
20 might legitimately revert to anecdotal
21 experience and common sense because I think
22 just -- there is a face validity problem.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 And there is one example which
2 parallels this where there is better
3 documentation of clinical concern. And this
4 was addressed earlier this century, '02 or
5 '03, concerning the safety of the OTC
6 analgesics, where when one looked at issues
7 related to acetaminophen hepatotoxicity, or
8 NSAID-induced GI toxicity or renal toxicity, a
9 nontrivial percentage of the cases involved
10 ingestion of more than one product with the
11 same active ingredient, where the consumer
12 relying on the proprietary name, the more
13 prominent, seemed not to be aware that they
14 were taking multiple products with the same
15 ingredient.

16 And that led to much discussion at
17 that time about how naming and labeling could
18 be altered to mitigate or minimize that risk.

19 But I think it is the most tangible example
20 of where we have clinical adverse outcomes,
21 suggested data, where name confusion is not
22 simply a bad night with a kid, but really

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 potentially irreversible or a high degree of
2 morbidity associated with the drug product.

3 MS. HOLQUIST: And if I can just
4 interrupt here, that is exactly what we are
5 trying to test. How would we best test that?

6 Because from our perspective, from a
7 medication error perspective, we see that as a
8 root cause of error, and typically how we have
9 tested that in the past are the methods that
10 we have outlined in the concept paper.

11 I think we've been criticized that
12 those methods may not be the best test
13 practices to test in this type of environment,
14 and that's sort of what we want to focus
15 today's discussion on, are what we propose
16 adequate, or are there other methods that we
17 should consider that will better get at a lot
18 of these things that you guys are talking
19 about.

20 DR. BRASS: That's right. Because
21 there is a dichotomy at least that is
22 historical that as our methodologies have

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 gotten better, our confidence in more recent
2 NDA approvals has gotten better, but we still
3 have the monograph and other even earlier NDA
4 products which haven't been exposed to the
5 same standard. So one of the other lessons I
6 have learned from behavioral research is that
7 it is much more like traditional clinical
8 research than lots of people would like to
9 think.

10 So if you want to answer a research
11 question, you start with a hypothesis, and you
12 form the hypothesis that labeling A or B or
13 something else will decrease a certain
14 behavior, and then you design an experiment
15 that is based with adequate design features
16 and adequate statistical power to address your
17 hypothesis.

18 And it turns out there are large
19 numbers of behavioral questions which have
20 been successfully studied using those types of
21 methodologies. So if a question is important
22 enough, there are in fact behavioral

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 methodologies that would allow a real world
2 assessment that would have high face validity
3 and circumstantial real validity to predicting
4 marketplace behaviors.

5 Right now there is nobody who is
6 adequately incentivized to say that must be
7 done to somebody with adequate funds to
8 actually do it. And that is the barrier to
9 getting it done.

10 If somebody said it had to get
11 done, said that to somebody who had the money
12 to do it, I guarantee it would get done. But
13 right now it's talked about, and it's not been
14 elevated to a high enough priority. I'm using
15 that as an example, but the more important
16 point I think is that there are in fact
17 behavioral approaches in the consumer
18 marketplace that are sufficiently well
19 understood that would allow relatively
20 definitive scientifically valid conclusions to
21 be made on the impact of labeling and name
22 changes and other interventions on how

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 consumers use these products.

2 DR. JOHNSON: Could I just respond
3 to that, the latter part in particular, about
4 being incentivized.

5 One of the things that may change
6 the current equilibrium, if you will, is
7 recently, at the end of last year, sponsors
8 have begun to be required to send in what we
9 call 15-day reports, reports of serious
10 adverse events for the monograph products.
11 That had been neglected in the regulations up
12 until this point. And Congress acted on that
13 to change that.

14 So we will have a new safety
15 database associated with these products. It
16 will be interesting to understand whether
17 these confusions are inconveniences or whether
18 to a large extent they are causing serious
19 safety problems.

20 We know now that there have been
21 serious events. We know now that we have a
22 smattering in the literature and in our own

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 databases of some aspects of these various
2 scenarios causing problems. We don't know
3 what the real impact of that is overall, and
4 the 15-day reporting may help change our
5 understanding of it, and therefore the
6 incentives.

7 DR. BRASS: No, I agree with that.
8 But this is a challenge in the entire area, I
9 think, for the entire day. I mean you live in
10 a world of finite resources, and you want
11 those resources invested initially where they
12 are going to have the highest impact on public
13 health.

14 And so you want to address problems
15 that are associated with the highest public
16 health risk. And for the reasons you've said,
17 we don't have enough epidemiologic data to
18 understand the true public health burden of a
19 variety of these issues.

20 We all understand or feel that it
21 is nonzero, but how nonzero it is in a
22 universe of billions of doses dispersed, et

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 cetera, and compared to other tackleable
2 problems, is one of the things that I think
3 creates inertia around these issues.

4 DR. DAY: I agree with everything
5 that Dr. Brass has said.

6 DR. BRASS: That's a first.

7 DR. DAY: Yes, it is.

8 (Laughter.)

9 Moving right along, we actually are
10 doing testing of OTC labels in my lab, and we
11 have the drug facts label versus an enhanced
12 version, and it's an experimental head-to-head
13 test, and we get dramatic improvement in
14 whether people know that there could be liver
15 toxicity, or not, or GI bleeds or not, however
16 it said on the label.

17 And we can get 80 percent, 100
18 percent improvement, just by doing things in
19 different ways.

20 And so this is absolutely the case,
21 and in terms of - and there is no incentive
22 for it. We have no funding for it. This

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 comes out of my pocket and time and so on. So
2 you are absolutely right.

3 And the point that he also made is
4 that there are millions of people taking these
5 things, and that Dr. Cohen said about where
6 people don't realize it when they take this
7 product and that product, Vick's cough syrup
8 and something, something, something, they
9 could be getting multiple doses of
10 acetaminophen is really important.

11 And I thought one of the outcomes
12 of the 2003 meeting was that we recommended
13 that the labels, whatever the name is it says
14 contains acetaminophen in it. And I saw that
15 for awhile; I don't see it all the time
16 anymore. Again, that's an issue I suppose
17 with FTC and so on.

18 But there are very clearly
19 developed methods for testing these things,
20 and many of the tasks that I proposed this
21 morning, when we come to alternatives, I'm
22 going to propose again here in this context.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 But there is another one. I think
2 the major thing about OTC products is it's a
3 self-selection process. And so I've developed
4 a task for testing self-selection based on the
5 different kinds of naming procedures, which I
6 will bring up during the alternative
7 discussion.

8 MS. PAULS: If I could please remind
9 everybody to introduce themselves before they
10 speak.

11 DR. LEONARD SEGAL: Ruth, I was just
12 going to comment that what belongs on the
13 label is not an FTC issue.

14 DR. DAY: I'm sorry, I did mis-
15 speak. I understand that drug facts label
16 comes from an act of Congress and FDA - I'm
17 saying that FTC would step in for any
18 advertising promotional aspect. I did mis-
19 speak that; sorry.

20 DR. LEONARD SEGAL: Right, and when
21 we become - again, acetaminophen is
22 predominantly a monograph ingredient, so we

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 are not reviewing - there is no mechanism in
2 the regulations to require that we review the
3 packaging for those products.

4 When we become aware of a problem
5 on a monograph ingredient product where they
6 are not doing something that they are supposed
7 to do in compliance with the regulations, then
8 it's a compliance issue, and we need to track
9 it down in terms of safety in that regard.

10 There are NDA acetaminophen-
11 containing products, and they are NDA products
12 because they may have a different formulation
13 that makes them extended release, or for other
14 reasons - maybe they are combined with an
15 ingredient that is not covered in the
16 monograph, and therefore they are regulated by
17 the new drug application process.

18 I just wanted to clarify that.

19 DR. JOHNSON: Acetaminophen has been
20 brought up a couple of times. There was an
21 advisory committee in 2002 or '3, I always
22 forget the date because I wasn't in the office

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 then, that highlighted specifically the
2 hepatotoxicity associated with acetaminophen
3 and the GI bleed risks associated with aspirin
4 and nonsteroidals. Those are high priorities.

5 Those are not something that I think we
6 understand are not in the same equilibrium as
7 the rest; that they are high recognized safety
8 considerations, and we are working really as
9 fast as we can to try to put out regulations
10 that deals with those specific problems.

11 DR. DAY: there's a quick easy
12 solution, and that is to pull the liver
13 toxicity, for example, out of a chunk that
14 says, alcohol warning. So you will have a
15 chunk on the drug facts label which is called
16 something like alcohol warning. And then it
17 goes on and on and then it says, and it may be
18 in the GI bleed one I guess it is, that it may
19 cause - and it's the end of a chunk, and it
20 needs to be pulled out as a separate thing and
21 say, you know, whether it's a stomach problem
22 or if it's a liver problem, whichever product

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 we are talking about, it just needs to be
2 pulled out and be in its own little chunk with
3 a name on it. And that solves it, and that's
4 what our research has been showing.

5 DR. SPANGLER: If I could make three
6 points. One, on this issue - I'm sorry, David
7 Spangler, Consumer Healthcare Products
8 Association. Sorry. I'll try better next
9 time.

10 Three things. First on this issue
11 of what's on the principle display panel on
12 the ingredients. Under current law now,
13 existing regs now, for a single ingredient you
14 have to list your active ingredient. For
15 combinations under the existing rules, you
16 don't.

17 However, for a lot of NDAs recently, FDA
18 has encouraged within the NDA negotiation
19 around the label to include all the
20 ingredients if it's a combination. And so you
21 are increasingly seeing switch NDAs if it's a
22 combination with all the actives on the front.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 Second, we have been talking a lot
2 about acetaminophen, and on that, the major
3 manufacturers of acetaminophen products, and
4 that includes the world's largest store brand
5 manufacturer, have voluntarily added
6 acetaminophen to the front panel even in
7 combination. And as Dr. Johnson pointed out,
8 there is a pending rule to try and change
9 that, so that would be a requirement.

10 We think that is a great idea. We
11 are trying to expand that to other categories,
12 as issues arise, where that comes up as a
13 cause of potential confusion or concern of
14 saying, "Okay, let's step up. Let's put the
15 actives on the combination on the front."

16 So I think you will be seeing more
17 of that, not less.

18 The second thing, I don't know if-
19 more than anecdote, less than data, somewhere
20 between those two: a couple of years ago, in
21 fact it was after the 2003 meeting, following
22 up from that meeting, in late 2004 we surveyed

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 a number of our members who made 20 different
2 brand families. I happen to be holding a
3 Neosporin. This happens to be a Neosporin
4 pain relief. Okay. So if you had three
5 Neosporin varieties, that would be a family.

6 So 20-brand families, over a year
7 and a half, representing 109 million units, so
8 that's 109 million packages sold of 20 brand
9 families, and this is just consumer
10 complaints. So somebody decides they are
11 going to pick up the phone, they are going to
12 send an email, they are going to write a
13 letter to the company; 680 complains about
14 confusion or requests for clarification. Of
15 that, two of those, the company attributed a
16 serious adverse event to the confusion.

17 Now again this is not an analysis
18 of an AER database. This is not everybody in
19 the universe. This is 20-brand families.
20 Consumer complaints. A year and a half.

21 So this is not zero. Zero would be
22 better. But it's not, you know, it's not a

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 through-the-roof number.

2 The third point, you had asked a
3 very direct question of, okay, how do we marry
4 what we are talking about here today with the
5 pilot project on naming? And what we've heard
6 Dr. Brass talk a lot about on some of the
7 consumer studies. And I guess I would say, I
8 hope you guys are talking to one another as
9 the office of non-prescription products
10 develops its guidance on what it would
11 consider some of the best practices in a label
12 comprehension study. Because that's the place
13 where these two things really intersect, so
14 that when you are doing your label
15 comprehension study, you are trying to be as
16 holistic as possible in your tests, and get at
17 those core communication objectives that you
18 are trying to achieve. One of which is
19 obviously to not confuse.

20 DR. BRASS: If I could just follow
21 up, David, because I think I applaud the
22 industry's effort to move the ingredient,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 particularly acetaminophen, to the front
2 display panel. But I think it also highlights
3 a missed opportunity. Wouldn't it have been
4 great to know the prevalence of use of
5 multiple acetaminophen products prior to that
6 change, and after that change, to know whether
7 or not we had in fact done good, and if we had
8 not done good, we misdiagnosed a problem and
9 better look somewhere else.

10 But we don't consistently quantify
11 the problem, and quantify the success of the
12 intervention, and I think that if we are ever
13 going to make really not only substantial
14 impact, but learn from our experiences how to
15 do better in the future, we have to understand
16 the impact of these kinds of interventions in
17 a quantitative, clinically relevant,
18 scientifically valid way. Nonetheless, I
19 applaud the effort.

20 MS. HOLQUIST: I'd like to take that
21 Neosporin example and throw that out to the
22 group. So if we were faced at the agency with

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 a similar scenario like that of having to name
2 these products like this, and trying to test
3 how much or how little these things would be
4 similar, how would we do that?

5 DR. SPANGLER: Could I - before we
6 go there - this is David Spangler, Consumer
7 Health Care Products Association - before you
8 go there let me just make one observation that
9 has always struck me whenever there is a
10 discussion of the supposed bad sides of brand
11 name line extensions.

12 We don't seem to talk about that in
13 the context of, if I walked into a Wal-Mart
14 and about every fifth product on the shelves
15 is the Equate brand. Doesn't the same thing
16 apply there? We don't- we don't worry about
17 that, because we understand. We are shoppers,
18 we're in the store making selections. We
19 understand, this is the store brand of
20 something else. This is everything; every one
21 of those packages is not- it's an individual
22 entity that has its own communication depths.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 Sorry.

2 DR. BRASS: But again, that is a
3 very interesting hypothesis, very valid. I
4 just wish I could know if it was true.

5 And coming back to your question,
6 one of the things that I think is important,
7 again in general study design, one designs
8 studies to challenge hypotheses, not to
9 confirm hypotheses. The bias has to be toward
10 failure, not towards success.

11 And so that if I was interested in
12 a brand line extension, or whatever the proper
13 terminology, I apologize, I would try to
14 understand where the highest risk behavior
15 conditions might lie that would be of interest
16 to me, and I would design a behavioral or
17 comprehension or self-selection or some type
18 of real-world experiment that created that
19 worst case scenario, maximized the risk of
20 error, maximized it in a clinically relevant
21 context. For example, if it was a population
22 of people who if they made this mistake would

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 be the worst off, I'd study that population.

2 So again, I think the theme I'd
3 like to just continue to reiterate is to find
4 a problem that is important enough, to find an
5 hypothesis around that, and design an
6 experiment that is designed to test that
7 hypothesis.

8 DR. COHEN: One thing you have to
9 keep in mind that was mentioned before too
10 was, it isn't just the single thing, just the
11 name. But the packaging, for example, it also
12 can contribute to the errors. And with a lot
13 of the over-the-counters that I have seen,
14 including some that I showed this morning, the
15 Maalox for example, you would be hard-pressed,
16 I think, to find that name, the name of the
17 ingredient, on the label. You really have to
18 look for it. And that's the case with a lot
19 of- even though the ingredient might be listed
20 there, the graphics are so attractive, calling
21 your attention to the brand name, that it is
22 very easy to miss other information on the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 label.

2 And again I'm not sure exactly how
3 you would look at that, but that is a
4 contributing factor to overlooking something
5 that someone may be allergic to.

6 I remember long ago, we published
7 an incident involving Excedrin, and the
8 ingredients- it resulted in a fatality,
9 because of an allergy to one of the
10 ingredients that was overlooked.

11 So it isn't just the fact that it's
12 on the front label panel. Sometimes it's very
13 difficult to see it, and that's a problem.

14 DR. HORN: Donna Horn with ISMP. I
15 want to follow up on what Mike is saying.

16 One of the things you were looking
17 for, you said, was data. And at ISMP we do
18 have a reporting system, a voluntary reporting
19 system, and we do get reports to us from
20 consumers when they have made a mistake.
21 That's consumers that know they have made a
22 mistake. There are a lot of consumers that

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 don't know if they've made a mistake, and even
2 if they do know they wouldn't know who to
3 report it to.

4 There was an example at my son's
5 school where the school was given Motrin as a
6 stock, liquid Motrin, for the children if they
7 needed- if they had permission from their
8 child's doctor to have it administered at
9 school. The school did stock it.

10 It wasn't until my son needed it
11 and I happened to be there, because I didn't
12 have a note - I went in with them - that we
13 realized that the Motrin was actually Motrin
14 Cold. All those children were getting Motrin
15 Cold. So, is that an adverse effect? Well,
16 yes, I guess if you have children taking
17 pseudoephedrine during the school day that
18 shouldn't be, that could be an adverse effect.

19 But did that school nurse know who to report
20 it to? No. I mean, I reported it to ISMP
21 because I was there, but she would not know
22 who to report that to, and there were a lot of

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 children affected by that.

2 So I think we have to have a
3 campaign that if you want data the people have
4 to know where they can report those things to.

5 DR. BRASS: Or do a more active
6 surveillance for questions that really matter.

7 MS. HOLQUIST: Okay, I hate to break
8 up this discussion, but we were scheduled for
9 a break. So do people want to continue, or do
10 you need a break at this moment in time? Keep
11 going? Okay.

12 DR. SHERIDAN: This is Dan Sheridan
13 again. You mentioned the Equate, and as a
14 pharmacist working in a hospital pharmacy, I
15 frequently see medication reconciliation.
16 That's where a patient comes in the hospital
17 and a nurse writes down all the medications
18 they are on. I don't know how many times I've
19 seen Equate, 10 milligrams. So that does
20 cause a lot of confusion, not just among
21 patients, but among health care workers too.

22 DR. BRASS: A couple of other points

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 I'd like to make in the context of the pilot
2 that has been proposed, and again, applying
3 the learnings from the behavioral research in
4 the OTC area.

5 One is that I think it would be
6 highly desirable for you to have failures
7 submitted as well as successes. You don't
8 only want to see the successes; you want to
9 know what's failed, so you can begin to
10 understand why it's failed, and get a more
11 generalized understanding of what's going on
12 in this type of research, so that over time,
13 iteratively, you can make better
14 recommendations in terms of that.

15 And then again another thing that
16 we have learned in the OTC area is that there
17 is no behavior you can imagine that won't
18 occur. And setting a zero error rate may be a
19 worthy goal, but is not going to be what you
20 find. So understanding, for example, what a
21 negative control behavior is in the
22 experiment. So a drug name that clearly

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 everybody agrees has no intrinsic confusion.
2 But I guarantee errors will occur some place
3 in the process when you use it to provide some
4 kind of background rate to allow
5 interpretation of error rates when you see it.

6 And it'd be nice to have a positive
7 control as well, so you take a name, if you
8 are trying to validate an instrument, you take
9 a name that you really do believe causes
10 problems, and show that it differentiates from
11 a negative control in the experimental
12 paradigm that you are trying to apply to new
13 learnings, to try to see whether or not your
14 assay methodology has any dynamic range to
15 distinguish meaningful errors, and allows you
16 to differentiate a rare non-meaningful error
17 with an otherwise appropriate name from a
18 signal that is truly meaningful in terms of
19 safety.

20 Because again, once you start
21 talking about- the closer you get to a real-
22 world situation, the more unpredictable small

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

www.nealrgross.com

1 rate behaviors become.

2 DR. HORN: Donna Horn from ISMP. I
3 wanted to move a little bit towards the RX to
4 OTC switch, because those are the products
5 that would come under this concept paper. And
6 bringing your attention to box two on page 15,
7 it says in part submit line listing and
8 narrative of medication error case reports
9 identified in the post-market period.

10 And Zantac has been over the
11 counter for a number of years now. Zyrtec
12 just went over the counter. And if you were
13 to apply this rule to Zyrtec, I think the
14 post-market, from an RX standpoint is, there
15 is lots of data to suggest that that name pair
16 has been confused many times - Zantac and
17 Zyrtec. So I'm wondering if you did subject
18 Zyrtec to this rule, would Zyrtec then have to
19 change its name? Would that name not be
20 effective or not be allowed, because we know
21 that Zantac and Zyrtec get mixed up.

22 And now that the consumers are

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 going out there to purchase it themselves,
2 they may get a call from their doctor that
3 says they are supposed to pick up either
4 Zantac or Zyrtec, and I know for instance my
5 mother would never ask the doctor to spell the
6 medication to her on the phone. She would
7 just think that she could remember that and go
8 to the store, and might run into the wrong
9 product and buy the wrong product.

10 So I think that there is a problem
11 with Zantac and Zyrtec over the country,
12 because they will be confused by consumers. So
13 I'd like for you to let me know, what would be
14 the results of that name submission based on
15 post-marketing tests?

16 DR. LEONARD SEGAL: It's unfortunate
17 we don't have our attorneys here.

18 MS. HOLQUIST: Yes, I think that is
19 one of the problems we have. Because once a
20 name is established in the RX world, and we
21 know that there are problems, even when there
22 is a product line extension in the Rx world,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 we take that into consideration.

2 But the problem is, when you are
3 going from the Rx to the OTC, it's the same
4 product, so can you change the name? It's not
5 like you are introducing a new product.

6 And actually some of the errors, at
7 least what we learned from Zantac and Zyrtec,
8 a lot of them dealt with the pediatric
9 suspension, and a large majority of that were
10 related to the fact that these products were
11 packaged in very similar packaging
12 configurations, you know, the bulk bottles
13 that sat on the shelf.

14 So as we were talking about
15 earlier, we have to examine not only the
16 similarities of the names, but what are the
17 other contributing factors to it. And if
18 there is a way to minimize those other
19 contributing factors when we introduce it into
20 the marketplace, into the OTC realm, we will
21 consider that.

22 We may not be successful at getting

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 a name changed, but we would consider other
2 measures that may help to minimize that type
3 of confusion.

4 DR. BRASS: I would just like to
5 highlight - this has been a very stimulating
6 and very useful day. But there has been one
7 aspect of it that I personally found
8 incredibly depressing.

9 As part of the cohort that tilts
10 against the windmills of trying to get
11 physicians to use established or generic names
12 rather than proprietary names, the concept
13 that 10 years from now proprietary names might
14 be safer than established or generic names
15 because of an improved process to prevent
16 errors of medication errors is quite
17 depressing.

18 So whoever has the power to ensure
19 that these same standards are eventually
20 applied to established names would make me
21 feel much better.

22 MS. HOLQUIST: I think Dr. Cohen can

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 probably speak to that, because I know he's
2 been doing some work with WHO and other
3 organizations, and again, when we come up with
4 names that are similar in the non-proprietary
5 scheme, we do tell our FDA representative who
6 goes to this USAN committee, but they are very
7 far from that mentality. And I think it's
8 going to take a joint effort here to really -
9 for them to hear that this is also an issue.

10 DR. COHEN: I don't really have
11 anything to add. I've attended some of the
12 USAN meetings. I'm not on that council. So
13 I'm not a member.

14 But they do take into consideration
15 look alike issues, but nothing as far as
16 testing, field testing or use of practitioners
17 or anything like that. It's just a committee.

18 That's what FDA was doing 15, 20 years ago,
19 and unfortunately there is no funding to go
20 beyond that.

21 But it is a serious problem; it
22 really is.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 DR. DAY: Is it all right to move
2 into alternative approaches?

3 MS. HOLQUIST: I think we've been
4 hearing a mix of it all, so.

5 DR. DAY: Well, there are plenty of
6 things that are recommended for prescription
7 drugs that wouldn't need to be done here, and
8 I think that is fairly obvious. So it's
9 already a simpler process. But to add some
10 things in, some of what I talked about this
11 morning, but something new, I do think a
12 pronunciation test with consumers is
13 essential. Just since this morning's meeting,
14 two people in this room have come up to me
15 with interesting cases in the OTC world.

16 There is a product called Golytely,
17 a preparation for colonoscopy, and it's
18 spelled G-o-l-y-t-e-l-y, and this person in
19 this room who will not be identified said for
20 a long time he or she was calling it
21 (pronouncing) goolie-tellie.

22 (Laughter.)

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 And it's supposed to be
2 (pronouncing) go-lightly as in - you can
3 figure out what that means.

4 There is someone in an office who
5 is always talking about something like
6 ibuprofen, or something, some other variation
7 on it, and when you think about all the
8 dialect differences in the country, and the
9 people with different language backgrounds and
10 so on and so forth, I just think it's, to me,
11 a no-brainer, if there is going to be a new
12 product come out, get some people to look at
13 it and say it, and get the frequency
14 distributions I described this morning, if
15 there are multiple alternative pronunciations,
16 either do something to enhance the way it is
17 presented, so it won't, or go on to something
18 else.

19 DR. SPANGLER: Could I ask for a
20 clarification?

21 DR. DAY: Yes.

22 DR. SPANGLER: David Spangler, CHPA.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 On having the pronunciation, I'm not arguing,
2 I'm asking a question.

3 DR. DAY: Certainly.

4 DR. SPANGLER: What does it gain if
5 you know that 50 percent say tomato and 50
6 percent say (pronouncing) tomato. I'm - help
7 me understand.

8 DR. DAY: All right. So in that
9 case it's not likely to lead to any
10 consequence of not getting a tomato, and
11 getting a cucumber instead; so you have to
12 look at that context.

13 But the frequency distribution is
14 very revealing. There might be one that is
15 very strong, 80 percent and then 20 percent.
16 It's the cases where you have like 40, 30, 20
17 and so on and so forth. There is going to be
18 a lot of confusion in going say, go pick up
19 the such-and-such, and then actually finding
20 it.

21 DR. SPANGLER: And it would also
22 certainly be true if you were going to do any

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 automated analysis of the pronunciation, you
2 would have to know the universe of
3 pronunciations in order to do the analysis of
4 it.

5 DR. DAY: That's right. You are
6 defining what the universe is, and you are not
7 just predicting what it might be. Right,
8 exactly. And from the real people who are
9 going to use it.

10 Task number two I would do, I would
11 do a search and find with consumers. And I do
12 a visual experiment; I do an auditory
13 experiment. So I put up on the screen or
14 somewhere or a piece of paper, nicely printed,
15 the name of the product, and then either have
16 a simulation with lots of names, as far as the
17 actual packages, you can have in my lab for
18 example shelves where you put packages and go
19 find that and pick it out.

20 And then you do the hypothesis
21 testing by putting in what the foils are, so
22 the target is one they are really supposed to

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 find, which is the drug name you are trying to
2 test; but the foils are the other ones you put
3 out there that might be confusable and might
4 not be confusable.

5 And then what you do is not only
6 get percent correct data, you find out what
7 the errors are. So I want to reinforce it;
8 error analysis is essential. It's not just
9 that you had an error rate of 30 percent, but
10 what did they choose instead. And if it's
11 totally random, and has nothing to do with the
12 foils and the targets in terms of what the
13 names are, then you don't have a name problem
14 in the same way as if you are doing the
15 Kaopectate and the, I don't know, Kaopectin,
16 or whatever thing that might be similar.

17 So you do your hypothesis testing
18 in a search and find way, and sometimes you
19 give it to them visually, and sometimes you
20 give it to them auditorially.

21 Last task is a new one, and that is
22 version of a self selection task, and it's

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 based on scenarios. And you say, okay, you
2 have such and such a condition, and if someone
3 tells you there is product out there, so now I
4 am going to find it. And you can either give
5 the name or not give the name, various
6 variations, and then they go and select it.

7 But then you give other scenarios,
8 so you don't want to get sleepy, or you want -
9 you do want to go to sleep at night, and so
10 on. So you can have all these products like
11 all the different neosporins, or all the
12 different ones that are the AM and the PM.

13 So a self-selection task where you
14 are given some scenario of what the health
15 condition is, and then the different products,
16 and whether the name confusion is going to
17 cause - I mean the name variation is going to
18 cause confusion or not, will tell you
19 something. And you can then put in the
20 different types of foils on the shelves to
21 find out what's going to happen.

22 DR. LEONARD SEGAL: Ruth, you

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 brought up a couple of interesting things, and
2 I'd like to ask a couple of questions,
3 actually one of you and one of Dave Spangler.

4 On the first, in terms of
5 prefacing, one of the requirements, and you
6 mentioned the terminology several times and
7 Eric has mentioned it several times, for an
8 OTC product is that it has to be a product
9 that a consumer can understand how to use, and
10 know to use, and be able to use, on his or her
11 own, without the input of a health care
12 professional to advise and to tell how to use.

13 So that is the standard by which we
14 have to determine whether products can be over
15 the counter. And we do that by these label
16 comprehension testings. We self-selection
17 test. We actually use studies. This is part
18 of what we do for products that are going to
19 be new to the OTC market. Might have new
20 indications; might have new warnings; might
21 have new directions for use, things that we
22 know have not been tested previously; landing

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 on that ground, because I want to just move on
2 to one thing that you said.

3 DR. DAY: Can I just comment? I do
4 know that you do that, and it's wonderful.
5 All I'm saying is, now you just fold in the
6 name variation.

7 DR. LEONARD SEGAL: Well, this is
8 what I want to ask you, because you made a
9 comment in your conversation that many of the
10 things that we are talking about for Rx
11 products are not needed.

12 I wanted to get a little bit more
13 information about that, and based upon that
14 today, it's a two parter, do you have any
15 sense of how often the OTC selection process
16 is in fact not a self-selection process, and
17 becomes more a prescription process whereby
18 the physician is saying to the patient, not
19 the OTC consumer but the patient in the
20 office, go out there and buy Ibuprofen over
21 the counter for your knee pain? Versus the
22 consumer walking into the pharmacy and saying,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 I have some minor aches and pains with my
2 knee. I'm going to buy acetaminophen or
3 Ibuprofen. So it's a two parter, and the
4 cross discussion would be helpful.

5 DR. SPANGLER: No, David Spangler
6 with CHP, I don't have a good feel for that.
7 It certainly has happened. It's going to be
8 fairly category specific. And I think if we
9 just think kind of logically, if you think
10 about a category like analgesics, allergy, a
11 very few others, you are going to have a fair
12 amount of that. Also, the H2s and omeprazole
13 PPI, those categories you might get a little
14 more of that. But I don't have numbers for
15 you, I'm sorry.

16 DR. DAY: I don't have numbers
17 either, but I know it's very common. Having
18 had a wasp bite a few days ago, and a bad
19 reaction locally to it, I had to consult with
20 a physician finally, and he started suggesting
21 OTC things.

22 It happens a lot of times. So for

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 allergies, and all the categories that you
2 said.

3 But did you want some comment on
4 what kind of testing did not need to be done
5 in the OTC domain also?

6 DR. LEONARD SEGAL: Well, we're
7 discussing methodologies here for assessing
8 trade names, and I think it's useful to hear
9 what your thinking was.

10 DR. DAY: Well, I was thinking in
11 terms of those name simulation studies with
12 all the chain of all the people in it would be
13 greatly reduced. So that was one of the
14 things I had in mind.

15 DR. BRASS: And the - if you went
16 the NMEA route, the composition that would be
17 very different, that it would have to mirror
18 the decision-making process.

19 And while I agree that clearly in
20 many situations physicians are in the loop, or
21 pharmacist is in the loop, the question is,
22 where is the greatest risk lie? Does the risk

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 go up or down when you impose a health
2 professional?

3 Again, I don't know the answer, but
4 the hypothesis, the face validity assumption
5 would be, the greatest risk is the consumer
6 operating independently, and that if you could
7 pass that barrier everything else would be
8 safer.

9 But that's an assumption too, and I
10 acknowledge that.

11 DR. COHEN: Let me - this is Mike
12 Cohen - let me just point out too that, keep
13 in mind that a lot of the OTC drugs are used
14 in patient situations. They are ordered in
15 the hospital; they are used by nurses in the
16 hospital. You have an FDA barcode rule that
17 includes OTC drugs used in the hospital. So
18 there is a good number of them.

19 MS. HOLQUIST: Yes, I think that's
20 one of the things we have been grappling with
21 at the agency is, that we know that these
22 things can be ordered through the traditional

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 channels, and so how would we weight that
2 along with consumer testing.

3 DR. COHEN: And I would imagine
4 sometimes patients come into the OR, and you
5 probably know more from the poison control
6 centers, the ER rather, you know, where
7 physicians are told they are taking a certain
8 product, and they really don't understand
9 exactly what the ingredients are.

10 DR. SPANGLER: David Spangler with
11 CHPA, I think it goes back to the point that
12 was made by Dr. Day and others this morning
13 about, you do have to have some flexibility.
14 Let's take for example switches that occurred,
15 or new product introductions in 2006. One of
16 them was a sunscreen. On that you are not
17 going to go through 20 health care
18 professional scenarios. On the other hand if
19 you know to Mike Cohen's point that it's going
20 to be continued - is already being used in a
21 hospital, and will continue in a post-switch
22 environment, yes, then I think some of that is

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 probably fair game to think through, because
2 it fits that case.

3 DR. PHILLIPS: Marjorie Phillips. I
4 have a clarifying question, since we are
5 talking just about the NDA products, and not
6 the monograph products, it sounds like most or
7 all of those are prescription OTC switches.

8 I guess the question is, how many
9 cases would you actually truly have a new name
10 that was being introduced, or one where you
11 could have the same level of impact of saying,
12 please choose another name; that name is not
13 acceptable for safety reasons. Is it more
14 that you are asking a different question in
15 the non-prescription environment of really
16 more - again, what are the potential safety
17 risks of this product name, and packaging and
18 labeling, being out in the public, and what
19 can we do to analyze those up front and
20 mitigate them.

21 So I guess my question is, does it
22 even more put us in the realm of looking at

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 overall failure modes analysis, or more
2 complex analysis of saying, what are the
3 potential risks, and what can we do
4 proactively to address those. How many cases
5 is there really an option to make a name
6 change? Or is that going to be something
7 within the agency's purview?

8 DR. SPANGLER: We'll give two
9 examples anecdotally without naming names,
10 David Spangler, CHPA. I can think of one
11 example of a pretty high profile switch where
12 the sponsor had their name, planned name,
13 which included a suffix, and FDA told them no.

14 So they changed the suffix. So there would
15 be an instance.

16 Another profile fairly recent
17 example would be where the company for a
18 variety of reasons did not find the formal
19 prescription name appropriate, so they
20 therefore went, had to go through a review of
21 their new name.

22 Now I don't know how extensive that

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 was, but I do know they did have to go through
2 that process, because the prescription name,
3 to their way of thinking on what they wanted
4 to achieve with the product, just was not
5 going to be a good name.

6 So it does happen and those are two
7 instances.

8 DR. BRASS: Is Dr. Phillips' premise
9 correct that monograph names are completely
10 off the table, or it's just simply a different
11 process?

12 I mean obviously for new names, new
13 names are always likely to be switched. But
14 if there were safety concerns raised about a
15 monograph product's proprietary name, is it -
16 you are not saying there is no mechanism by
17 which that could be redressed, I hope?

18 DR. LEONARD SEGAL: No, there is
19 always a mechanism to address safety concerns.

20 The thing about the way the current construct
21 for the monograph is, is that these concerns,
22 the safety concerns, would need to be

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 generated. They are not an upfront
2 deliberation.

3 And to change that would require
4 changes in the law.

5 On the NDA side, Dave has given you
6 some examples. There are a lot of examples on
7 the NDA side where there are new names for the
8 NDA OTC products.

9 But there are a lot of examples
10 where the prescription name gets switched with
11 the product. And there are many legal
12 implications to not allowing that, which - and
13 so we have a lot of conversations with our
14 attorneys.

15 MS. HOLQUIST: I think just one
16 thing, if that is a concern of yours, the
17 monograph names, we actually would like to
18 hear about that, and if you could submit
19 comments to the docket on that it would be
20 very helpful.

21 DR. HORN: Donna Horn with ISMP.

22 I am not sure if Benadryl, which

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 was a prescription and is now over the
2 counter, has been sold for a number of years.

3 I don't know if that would be under NDA
4 process, or if that would be a monograph. But
5 the example that I would use is that if we are
6 looking at your concept paper, and if you look
7 at box one, where it says that you can't use a
8 drive that is considered misleading if it
9 includes a suggested name of an ingredient
10 that is not included in the drug product.

11 Benadryl, non-drowsy, does not
12 contain any Benadryl, and to me that would
13 follow - that would have to be eliminated if
14 they went into a concept paper.

15 DR. SPANGLER: Benadryl isn't an
16 INN.

17 DR. HORN: I don't know that that
18 means; I'm sorry.

19 DR. SPANGLER: It isn't an
20 international non-proprietary name. It isn't
21 a generic name, so I'm not getting the point.

22 MS. HOLQUIST: I think what she is

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 meaning is that Benadryl, in and of itself,
2 causes drowsiness. So by using it the name
3 implies, people who know diphenhydramine know
4 the side effects.

5 DR. HORN: What I mean is, if you
6 pick up a package that says, Benadryl, non-
7 drowsy, you may think you are buying Benadryl
8 that doesn't cause drowsiness.

9 DR. LEONARD SEGAL: Benadryl is a
10 family name. It oversees the family name, as
11 many of the family names that cover a variety
12 of OTC products do, this one covers
13 diphenhydramine, which is a monograph
14 ingredient; the non-drowsy that you are
15 referring to, I'm not certain which one that
16 is. It might have phenylephrine or
17 pseudoephedrine, which is a monograph
18 ingredient. So you are talking about a family
19 name in the monograph series just for
20 clarification.

21 DR. HORN: Okay, so I guess it's
22 sort of like a loophole. Because Benadryl

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 used to be a prescription product, and went
2 OTC; the Benadryl itself. So once it goes
3 OTC, the name can be used for anything?

4 DR. LEONARD SEGAL: Diphenhydramine
5 I think is marketed by prescription as well.
6 It is available in parenteral formulations and
7 IM formulations. And so it's - I don't - I
8 think it is marketed under that same family
9 name in both settings, but I couldn't tell you
10 for sure.

11 All I can tell you is that on the
12 OTC side the family name covers a variety of
13 different products with monograph ingredients
14 in them. Which is the quirk of the law. And
15 that's where it is right now.

16 DR. JOHNSON: Can I add something?
17 This is Sue Johnson.

18 In giving the example of the Rx OTC
19 switch in my slides, I may have confused
20 folks. Let me be clear that not all the NDA
21 products are switched products first of all.

22 And I think it's a misperception

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 that the family trade name is just associated
2 with switches. In some instances the line
3 extensions where different products are made
4 using that family name happens when it goes
5 into the OTC environment, but it also happens
6 with things that have been in the OTC
7 environment for a long time.

8 The family trade name issue is one
9 of those scenarios that I spoke about earlier
10 where if you look at the regulations, and you
11 look at how the various cases are interpreted,
12 you have to look very specifically at the
13 increment that you are talking about.

14 With our attorneys here, I believe
15 what they would say is, Benadryl non-drowsy is
16 a different trade name than Benadryl. And the
17 fact that they are interrelated is not
18 necessarily an illegal actionable event, but
19 the burden then is on the safety realm to
20 assess whether or not that is problematic to
21 the extent that we have an enforceable action
22 that requires, just because it's not intuitive

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 perhaps doesn't mean that it's not a problem.

2 Now I'm saying that all again on
3 the background that the FTA doesn't want to
4 back away from the fact that there are
5 potential safety problems associated with
6 these things. But the allowing sponsors to
7 use a brand that they have put significant
8 money over decades and decades in is part of
9 what our attorneys of necessity are having to
10 look into.

11 DR. JOHNSON: I just add one more
12 thing? With regard to those scenarios, the
13 NDA process would look at those ahead of time;
14 the monograph process would not. But were it
15 actionable, we do have the resources and the
16 regulatory purview, to take action on that.

17 DR. HORN: And I'm not a lawyer, so
18 I can't interpret the regulations. But it
19 does - when I read that the name cannot
20 suggest an ingredient that is not in it, and
21 the answer is, well, Benadryl is non-drowsy is
22 a different trade name, it still has the name

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 in it that suggests an ingredient that is not
2 in it.

3 So I think that is very confusing
4 to consumers, and it could be a safety issue.

5 DR. JOHNSON: Then let me continue
6 that thought just a little bit. Because this
7 is something that we knew would come up at
8 this meeting that is of interest, because it
9 is a common point at which selection of
10 various products happens mistakenly to
11 whatever end in the clinical scenario.

12 What we don't quite understand, and
13 what we would like some additional feedback on
14 and to have additional data on is, why is it
15 that people know that Pepsi has sugar in it,
16 Diet Pepsi doesn't? Now I'm not comparing the
17 risks associated with making those confusions,
18 but I am saying that in very many
19 environments - I think somebody was talking
20 about a cosmetic environment; you can name 40
21 Oil of Olay products.

22 Why are those - and maybe you would

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 like to take this question, Ruth - why is it
2 that in some environments we understand this,
3 and in some environments this relationship
4 between products isn't clear?

5 DR. DAY: It's a very good question.
6 I'll have to think about that a little more.

7 DR. BRASS: Don't you think it's
8 just education, cultural and experience, how
9 we learn about those things?

10 DR. SPANGLER: Precisely, and I
11 would argue the same thing applies again on a
12 brand family even when it's medicines. Again,
13 I'm not equating the two. I understand the
14 medicines. There is a different set of risks.

15 However, it's the same - it's our
16 experience, it's how we're acculturated, it's
17 about choosing something off the shelf.

18 DR. PHILLIPS: It's a prefix and
19 suffix issue too. And how many people have
20 grabbed Pepsi Free thinking it was the stuff
21 with caffeine, or without sugar, when they
22 intended to grasp Pepsi, when they didn't see

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 the suffix as opposed to diet-something. So I
2 think it has a lot to do with a lot of those
3 behavioral and human factor things that we
4 haven't fully appreciated or incorporated.

5 DR. COHEN: I think it's also
6 frequency of use. I mean Diet Pepsi, you
7 drink it all the time compared to regular
8 Pepsi; you are asking for it, you know that
9 product. You are asking for it all the time.

10 But when you do in to get Dulcolax
11 for a colonoscopy, what is that, every three
12 years or something after you are 60 years old?

13 Or a cold medication or something like that.

14 It's just not that frequent. It's a whole
15 new array of products at that time for you.

16 DR. SPANGLER: Just continuing a
17 little bit more on this line of thinking. And
18 again I recognize risk is different.

19 But I only buy one jar of cilantro
20 a year, and one jar of chives a year, but they
21 are both the McCormick brand. Yet when I am
22 buying cilantro I am buying cilantro; I'm not

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 buying chives.

2 DR. BRASS: So before the chairman
3 of Pepsi-Co lands to defend his product line
4 (laughter), because is where, again,
5 understanding the real clinical risk.

6 See, I have my own acquisition
7 bias. I work in an inpatient setting in a
8 county hospital with a busy ER. So when
9 somebody comes in saying they took Benadryl
10 when they really took Benadryl whatever, and
11 they get treated for a diphenhydramine
12 overdose when they were really overdosed with
13 something else, that is something I see. That
14 is an acquisition bias. That is something I
15 could extrapolate very easy.

16 But I have no idea whether that
17 truly represents a substantial public health
18 problem or not, or simply reflects my frame of
19 reference for thinking about clinical
20 problems.

21 And as I said earlier, part of the
22 core data we're missing is definitions of the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 most clinically relevant problems. And for
2 those of us who identified in 2002 analgesics
3 as the major OTC, public health problem, and
4 six years later are assured you are working on
5 it, it becomes hard to understand where we
6 should devote our efforts.

7 DR. JOHNSON: Sue Johnson. Can we
8 get feedback then, in lieu of having specific
9 data about that, the question that is number
10 one is, should OTCs be included in this, and
11 should we be focusing on OTC trade names as a
12 large part of causing any safety problems that
13 occur in association with this?

14 Or is this a different acquisition
15 problem, or a different comprehension problem,
16 than trade names?

17 DR. BRASS: Well, again, I think we
18 have seen one example recently, and I don't
19 want to over speak the example. But the
20 concept that brand name extensions contributed
21 to confusion in pediatric dosing, where the
22 infant formulations versus the other

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 formulations, and infants were being given
2 inappropriate formulations.

3 Again, we don't have a good root
4 cause analysis of that, but I think it is
5 suggestive enough that one should at least
6 raise the question about brand names.

7 But I think that going forward in
8 most cases the issues are addressed in the
9 context of routine clinical development.

10 So my answer to you would be yes,
11 they should be included. But as Dr. Day
12 pointed out, that the flexibility to set the
13 standard in a product drug-specific way, in
14 the context in which it is to be used,
15 including whether it's in the hospital,
16 outside the hospital, what population, I think
17 would allow a very rational approach to this
18 in the OTC setting that is much more linear
19 than it is in the Rx setting, because of the
20 history and tradition of doing behavioral
21 studies with the product labeling.

22 DR. HORN: Donna Horn from ISMP.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 I'm just wondering, the concept paper is for a
2 pilot, and it's voluntary. And I'm just
3 wondering, would any of the OTC manufacturers,
4 or the Rx to OTC, that's mostly what you would
5 be dealing with, would they even want to go
6 through this process because they have a name
7 that you like. So I don't know that you would
8 get too many people to actually go through it.

9 So then if the lawyer says, despite
10 all the errors that have been reported on the
11 prescription side, you can still use that
12 name, what is the point?

13 DR. SPANGLER: David Spangler, CHPA.

14 Again, if you - there could be any number of
15 scenarios where you might. I'm not saying
16 they will or they won't. It's going to
17 depend, to Eric Brass' point and Ruth Day's
18 point, it'll depend on the case and what they
19 see the needs as being.

20 No one is going to want - you are
21 not going to get the switch if it's an unsafe
22 product. You have to have the label designed

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 through and as seen in the label comprehension
2 test; the actual use trials; sometimes a self
3 selection trial; that you are going to have
4 data on how it's going to be used in a - what
5 simulates a consumer environment.

6 And you are going to have to
7 generate that anyway. So it might well be,
8 especially if they kind of dovetail where
9 their light may be headed on guidance for
10 those types of studies, and what they are
11 talking about here.

12 You know if they marry up nicely,
13 you can get even more information, and that's
14 a good thing. A company will embrace that if
15 they are going to get better information out
16 of it.

17 DR. PHILLIPS: Marjorie Phillips.
18 Could you just educate those of us that really
19 aren't involved in non-prescription drug
20 approval, what is the label comprehension
21 testing? What is actually required versus
22 optional before the product submits for that

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 non-prescription approval?

2 DR. LEONARD SEGAL: Label
3 Comprehension 101: the studies are designed
4 with each specific product in mind. So what
5 we focus on is comprehension of what the use
6 of the product is; the directions for use of
7 the product; the warnings; drug-drug
8 interaction issues. Any of the warnings, the
9 specific populations that can and can't use
10 the product.

11 The labels are tested. Generally
12 we like to see a few iterations of testing.
13 It's very nice if we can see labels compared,
14 so we can actually see if one particular label
15 with certain messages is comprehended better
16 with another label with another wording for
17 those messages.

18 We look at the general population
19 and the low literacy population to see if
20 there are major discrepancies in the
21 comprehension that each of those groups
22 displays.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 Sometimes there are targeted
2 studies that look more at specific populations
3 that we are particularly interested in; ones
4 that we are particularly worried about. The
5 studies generally have many hundreds of people
6 in them. The low literacy population
7 generally is somewhere between 150 and 200.

8 And these studies have morphed over
9 time, and they have become more and more
10 sophisticated. We've been learning as we go
11 along.

12 Then what we do with those studies
13 is, depending on the nature of the product,
14 either the studies stand along - because we
15 had one particular concern over a particular
16 piece of the label - or in fact the study is
17 designed to develop a good label that can then
18 be used in other kinds of behavioral studies -
19 for example, the self selection study, or the
20 actual use study. Because one thing that we
21 have come to understand is that comprehension
22 does not predict use.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 And if we have as I repeat a very
2 specific target comprehension question, then
3 we may just do a label comprehension study.
4 But if we are really more interested in the
5 ability of the consumer to be able to look at
6 the label and be able to determine for his or
7 her self, whether the product is appropriate
8 for his or her use, in other words, in self
9 selection, we hypothesize that that self
10 selection decision will be best tested with a
11 label that is understood well.

12 So sometimes that label
13 comprehension study becomes the tool to
14 develop the good label that can then be used
15 in the more definitive study.

16 The same for the actual use study,
17 which is a clinical study, where the other two
18 are not clinical studies. And the - in the
19 actual use study, the consumer actually gets
20 the medication, either through some simulated
21 drug store situation, and purchases it and
22 brings it home; or gets it through some other

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 mechanism, and brings it home, and uses it and
2 adverse event data is collected, and the
3 studies are designed to, as best as we can,
4 develop the situation that is most
5 naturalistic in terms of what a particular
6 over-the-counter situation would be.

7 So we try to eliminate in those
8 actual use and self selection studies as much
9 as we can, health care provider mediation. So
10 that we actually see what a consumer will do.

11 Obviously these studies are not perfect. You
12 have to collect data, and that does interfere
13 to some regard with the process of conducting
14 the study. But we try to do it in the most
15 naturalistic way we can.

16 Does that help you?

17 DR. PHILLIPS: So these studies are
18 generally developed and conducted by the
19 sponsor that is doing the submission; but
20 sometimes with FDA guidance or feedback to
21 address specific concerns that you have asked
22 them to?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 DR. LEONARD SEGAL: We take these
2 studies very seriously in our division, and we
3 actually encourage very strongly sponsors
4 submission of these studies before they submit
5 them.

6 The clinical studies they have to
7 submit. The label comprehension study because
8 it is not a clinical study we really don't
9 have to advise them on, but we have developed
10 a certain expertise. We've got social
11 scientists in the division. And we look very
12 carefully at all the medical issues, and the
13 language of the questionnaires that are being
14 used so that they don't introduce bias into
15 the responses of the consumers, so that we
16 hope that at the end of the study, with our -
17 with our comments to the company, that we will
18 develop very good data.

19 The other thing that we are very
20 interested in, and Eric alluded to this
21 earlier, is that we are very interested in why
22 people make mistakes. So we have gotten very,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 over the years, much more vigilant about
2 asking sponsors to tell us, not just what
3 answers people got right and what answers
4 people got wrong, but why they got them right
5 and why they got them wrong, so that we can
6 then use that information to develop a better
7 label, and potentially retest that label.

8 The more that we collect verbatim
9 responses from consumers that participate in
10 these studies, whether it's the label
11 comprehension or the self selection study or
12 the actual use study, the more we learn about
13 how difficult it is to predict how people
14 think, and that is very educational to us.

15 So that's the nature of the
16 consumer study work that we do, and we are
17 always thinking of other kinds of studies that
18 can help us along the way, and sometimes we
19 get interesting products that bring up
20 interesting questions.

21 And just this week we decided that
22 maybe for a particular one, we ought to be

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 requesting a purchase study so we understand
2 why somebody is actually purchasing a
3 particular product for a very specific reason
4 which I won't go into here.

5 But we are always thinking of new
6 opportunities to help to define what consumers
7 do and why they do it.

8 DR. BULLMAN: Ray Bullman, NCPiE,
9 since the written word is central or key with
10 comprehension and understanding for the drug
11 facts, for the OTC with the drug facts label,
12 is there consideration given or encouragement
13 to include consumers who are blind or visually
14 impaired? Because when you think about it, it
15 brings up a whole different set of issues, and
16 it relates not only to label comprehension but
17 to selection and use issues as well.

18 DR. LEONARD SEGAL: You bring up a
19 very important area that we have not been very
20 sophisticated in, but we are - one of the
21 problems that we frequently face, and industry
22 is very interested in expanding different ways

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 to help consumers self-select, one of the
2 things that we are regulatory bound by at the
3 current time is, the definition of labels and
4 labeling, and the way the regulatory construct
5 is set up, if something - and again, it would
6 be helpful if we had an attorney to speak to
7 that, but I'll do the best I can without that
8 expertise, but the message is that we get from
9 the attorneys is that if a particular
10 mechanism for education of a consumer - and
11 that's what a label does, a label educates,
12 package insert educates, a shelf talker
13 educates - if that cannot be considered part
14 of the labeling, then it's not enforceable.
15 So we get into the OTC arena of what becomes
16 enforceable in terms of the approval process.

17 So that if a company were to
18 provide some kind of information for someone
19 with a particular kind of a disability, like
20 blindness, somehow that education would need
21 to be deemed - would need to be deemed
22 enforceable as part of labeling or we couldn't

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 really even look at it. It would be nice and
2 voluntary, but we would not be able to comment
3 on it as a mechanism by which we could approve
4 an OTC product.

5 DR. BRASS: But also, with that
6 specific example, operationally the cop out we
7 use, like when I was on the advisory
8 committee, is that a blind person would either
9 know to shop at a pharmacy where they could
10 ask a pharmacist for assistance, or be with a
11 person who was sighted and would assist in the
12 selection. In either case, the label would be
13 directed towards the person actually using the
14 label to help inform the decision making to
15 assist the disabled person.

16 MS. HOLQUIST: And I think that is
17 why we are also concerned about including
18 health care practitioners in this evaluation
19 as well. We get a lot of push back that, no,
20 it should really just be strictly the
21 consumer, where I think we do have to build in
22 health care practitioners as well.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 And Mike, I want you to be able to
2 talk to this.

3 DR. GAUNT: Yes, Mike Gaunt from
4 ISMP. And I think the proprietary names for
5 non-prescription drugs should go through a
6 testing process. We see case reports, we get
7 error reports, that confusion is occurring.
8 We get that on the inpatient side, the
9 prescription side, as well. So I'm not sure
10 why we would think name mixups wouldn't occur
11 on the out-patient side, of non-prescription
12 drugs.

13 Now I agree with Carol that, to me
14 non-prescription drugs are probably almost
15 more complex in some ways than prescription
16 drugs. Because you have all the interactions
17 of many different practitioners like you do on
18 the prescription side, but then you throw in
19 the consumer side and the self-selection
20 piece. You have interactions with
21 pharmacists, with nurses, now with nurse-
22 practitioners and clinics, who are prescribing

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 these things or suggesting these things, yet
2 there are fewer safety checks built into the
3 process than there are on the hospital side
4 and the prescription side.

5 If a doctor prescribes something
6 and it is misinterpreted by the pharmacy,
7 there is still a chance that a nurse verifying
8 the order on the floor, knowing the patient's
9 clinical criteria, will be able to intercept
10 that.

11 That is not going to happen on the
12 patient's OTC non-prescription side.

13 So there are fewer safeguards, once
14 that product is on the market, that someone
15 else will be able to catch that mistake.

16 Yes, there are safe and effective
17 OTC use, but they still are potentially
18 dangerous if they are misused. There are
19 growing numbers of people who are elderly, who
20 have visual impairment, who are taking many
21 many products, both prescription and non-
22 prescription. So you are creating a situation

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 where not only do non-prescription drugs are
2 confused with one another, but you are having
3 homes where the patients are on 10
4 medications, prescription, and they might go
5 to the pharmacy to get some other things that
6 may contain some of the same products that
7 they have for prescription products, or name
8 confusion might occur - you know, Zantec,
9 Zyrtec, whatever.

10 But I think it is critical for
11 these to go through a testing process. You
12 know we have had the errors of different
13 products leading to serious harm. And I think
14 you do need practitioners involved. I think
15 you need that failure mode type of process, at
16 least as part of it, that involves
17 practitioners, because they are counseling
18 people, they are interacting with patients on
19 how to select these products, or what they are
20 suggesting to them to take once they get to
21 the pharmacy.

22 Now of course you also need the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 consumer piece to that. Now is that outside
2 the failure mode process? Or do you include
3 them within that expert panel as another
4 person, that might be the possibility.

5 From the hospital side, when they
6 are doing root cause analysis, or even some
7 failure mode things for new product, bringing
8 products or changing clinical services in a
9 hospital, they include nonclinicians in that
10 process, because it impacts more than just the
11 clinicians.

12 So adding those consumers to that
13 might be beneficial, would probably be
14 beneficial in those failure modes, because you
15 are also dealing with other storage issues.
16 Pharmacy, they are all on the shelf grouped
17 together. You go to a grocery store, they
18 have fewer, they might be separated. You go
19 to a gas - you go to a 7-Eleven, there are
20 non-prescription products there. In the home
21 you have a whole other set of storage issues
22 which complicates the issue.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 So I think you need both pieces,
2 clinicians and patients, along with medication
3 safety experts, to be able to coalesce all
4 that and be able to identify where the failure
5 points are.

6 And it's going to incorporate more
7 than name in the end, but the name plays a
8 part.

9 DR. BRASS: I agree with everything
10 you've said, but I just want to reemphasize
11 the greater quality and quantity of data that
12 this kind of process will interdigitate with
13 for an NDA approval.

14 I mean for the specific example
15 that you cited, for example, a natural use
16 study will determine how many people who self
17 selected and actually used the proposed name
18 product were simultaneously taking other
19 drugs, OTC or Rx, that contain the same
20 ingredient.

21 So there would be the real world
22 data, so I think the challenge would be to

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 find where there is value added to the
2 differential approaches when you have such
3 relatively robust estimates from the clinical
4 trial data that define what that risk would be
5 in a representative consumer setting, the kind
6 of data we simply never get for our Rx drugs
7 in how consumers obtain drugs from multiple
8 sources, and may encounter the same kind of
9 problem.

10 So I agree with the added level of
11 complexity, and the benefit of additional ways
12 of looking at it. But again, it's against
13 this background of a much more robust dataset
14 that we are used to seeing for a lot of these
15 kinds of decisions at the time of approval.

16 DR. JOHNSON: This is Sue Johnson.
17 Somebody earlier ask the question in the
18 morning session, is one failure in these
19 scenarios enough to block the use of the
20 product name.

21 I guess I have a similar question
22 in the complex scenario that you have been

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 talking about. If a trade name were to fail
2 in the health care provider scenario, it would
3 not be allowable in the OTC realm. If it
4 fails in the consumer realm, it would not be
5 allowed to be used in the consumer realm.

6 Is that what essentially what we
7 are hearing you propose?

8 DR. GAUNT: This is Mike from ISMP
9 again. I think it's a combination of things.

10 I mean I think you are paying the price. I
11 think you could have - we talked about this
12 this morning - preventable errors. I mean I
13 think you could make that suggestion. It
14 could be a combination of both. I mean I
15 think if it happens with the health care
16 practitioners, they are also consumers. So
17 they have more knowledge of the products
18 conceivably, but it's still the same, you are
19 still talking about consumers of that product
20 as well.

21 So I think you could potentially
22 say, yes, you could have one failure that

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 would cause you not to have a name go forward.

2 DR. FEDERICO: Frank Federico from
3 IHI. A couple of things as I have been
4 observing this. We asked the participants
5 three or four times to identify themselves
6 before they spoke, and half of us didn't do
7 it. So we expect patients to go and read
8 labels and understand what to do, and they are
9 not going to do it for a variety of reasons.

10 And I agree with what Rick is
11 saying - Eric is saying, we really need to
12 understand more what some of the causes are
13 and some of the problems.

14 But I also think about my own
15 experience as a pharmacist at the front line,
16 my experience with my family, looking at some
17 of these drug labels, what Mike put up on the
18 screen today, there are some basic things that
19 we ought to be considering, like simplicity,
20 simplifying some of the label is a key way to
21 make things safer; it's just the first step.
22 It doesn't mean that it's the only step.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 There are so many other things - advertising
2 pushes people to buy products that they don't
3 really even need. That is a different
4 problem; that's not what we are addressing.

5 So I would strongly recommend that
6 there be an opportunity to understand a little
7 bit more what is a good label; what might help
8 with patients not getting confused when they
9 are choosing products. There is a bigger push
10 for patients to choose their own medication,
11 HMO plans, whatever plan you may have out
12 there, if the product has gone over the
13 counter, the doctor will say, go buy it over
14 the counter, because your plan won't cover it
15 any more.

16 So that is going to happen more and
17 more. So if again we want to engage the
18 consumer, we need to understand what helps the
19 consumer do the right thing, and what is not
20 working.

21 On the flip side of it, having
22 worked with one of the clinics that supported

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 the professors from a very well known
2 university in Massachusetts, we found that the
3 literacy issue isn't just amongst people who
4 are illiterate - the help literacy issue I
5 should say - it's amongst also people who have
6 very high literacy level, because health
7 literacy is very different. It's the ability
8 to take that information and use it, and to
9 interpret what is on the packages, and
10 understand, if I pick up this product is this
11 the right product or not.

12 So it is a complicated process, and
13 I agree, we need to learn more about it. But
14 also, let's not forget that there are very
15 simple things that we ought to be considering
16 to make it better.

17 When I saw that Maalox bottle
18 today, I say, would I know the difference
19 between the different Maaloxes? Could that
20 have been something done earlier on in the
21 process to say, wait a second, let's not do it
22 that way; let's do it in a way that somehow it

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 is easier to read.

2 So I also asked about the drug
3 facts. Is it helping? Does anybody know
4 whether or not that really works or it
5 doesn't?

6 DR. LEONARD SEGAL: We don't have
7 the data to tell you if it's made a
8 difference. And the rule actually was put
9 into play just about the time that I came to
10 FDA, which was in '98, I think a rule was in
11 the beginning was '99, wasn't it.

12 And there were some - I know that
13 in the development of the rule historically
14 there was pilot testing, and they did some
15 consumer group reads and reviews of these new
16 labels to get an idea as to where things would
17 go.

18 This is something we have talked
19 about doing internally to do a repeat view.
20 But the problem is that the base data I don't
21 think really was there in a substantial way to
22 show the - in a rigorous scientific way the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 problems with the old way.

2 It's just that people knew that
3 people couldn't read the label, and they were
4 looking for a simplification, and more
5 categorization and standardization across all
6 OTC products, so the people would develop a
7 sense of, if I look here, I will always find
8 the purpose, and if I look here I will always
9 find the warnings. And these are the standard
10 headings that I can get accustomed to.

11 But you bring up a very good point,
12 and I think that is it important for us to
13 have a more comprehensive look at drug facts,
14 and see if there is another iteration of drug
15 facts that we can be using to improve the
16 comprehension and use of OTC products.

17 But that is not a trade name
18 question, and that is a topic for a different
19 day.

20 DR. DAY: Just a brief comment that
21 we are doing those kinds of studies and find
22 big differences. And one of the concepts that

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 we've found is that people need to know some
2 things before they take a drug, and then while
3 they are taking it.

4 And we've reorganized the drug
5 facts label for before taking, and there is
6 information there where you would have
7 contraindications and so on; and then while
8 using, and that does seem to aid them finding
9 what they need to know when they need to know
10 it. Again it's not the drug main issue. But
11 just wanted to mention.

12 DR. PHILLIPS: I guess that's the
13 only thing that I could - I'm Marjorie
14 Phillips - the only thing I could take away
15 from today and the discussion this afternoon
16 is that particularly within non-prescription
17 products it's hard to isolate the drug name
18 issue, and perhaps we just need to recognize
19 that the drug name safety issue needs to be
20 considered, addressed and looked at in an
21 organized and systematic way in conjunction
22 with the other activities already being done

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 as part of the assessment process.

2 So I think it makes a lot of sense,
3 as Dr. Day was saying, to include some of
4 those recognition, different things in
5 addition to the other work we are doing with
6 consumers, but also to involve health
7 professionals. And I think it also makes
8 sense, as Mike was saying, to get a panel fo
9 experts that would include consumers but also
10 health professionals to do the failure modes
11 analysis looking at what are the possible ways
12 that errors can occur with this product; how
13 likely are they to get through without being
14 caught, and causing harm? And then are there
15 some mitigating factors or some things that
16 can be done with product redesign, with
17 marketing, with labeling, with other things to
18 include the drug label and the drug facts that
19 would mitigate or prevent those errors from
20 occurring.

21 So I think it is extremely
22 worthwhile to happen, and it seems like a lot

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 of the same activities would be happening but
2 incorporated in a slightly different
3 framework.

4 MS. HOLQUIST: Any other proposed
5 alternative methods to what has been
6 discussed? I forgot to say my name, Carol
7 Holquist.

8 (Laughter.)

9 Okay, since we didn't take a break,
10 I think we'll break now. And I thank you all
11 for your great discussion.

12 We are going to return at 3:20.
13 Thank you.

14 (Whereupon, at 3:05 p.m. the proceeding in the
15 above-entitled matter went off the
16 record to return on the record at
17 3:28 p.m.)

18 MS. PAULS: Okay, we are going to go
19 ahead and get started with our last section of
20 the meeting for the day, and that is the open
21 public meeting time.

22 OPEN PUBLIC HEARING ON PANEL 1 AND PANEL 2

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 MS. PAULS: At present we have four
2 people registered to speak. The first one of
3 our speakers is Jerry Phillips, the president
4 and CEO of the Drug Safety Institute.

5 Jerry, if you come to the mike over
6 there and address the panel please.

7 MR. PHILLIPS: Good afternoon.

8 My name is Jerry Phillips. I was
9 the former associate director of the Office of
10 Drug Safety, and now I'm the president and CEO
11 of the Drug Safety Institute, which is a
12 subsidiary of Brand Institute. Brand
13 Institute has been in business for about 16
14 years, and the Drug Safety Institute was
15 created in 2004, and is the leading
16 consultancy in the arena of proprietary name
17 safety testing for the pharmaceutical and the
18 device industry.

19 We've been preparing FDA data
20 submission reports for our clients for many
21 years, and have continually evaluated and
22 revised our name safety research methodology.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 DSI appreciates the opportunity to offer
2 comments on this important subject, and shares
3 the agency's goal of reducing medication
4 errors associated with similar nomenclature,
5 labels and packaging.

6 I will focus my comments
7 specifically on three improvements made to
8 DSI's methodology since the 2003 FDA public
9 meeting. And also we'll comment on the name
10 safety testing methodology proposed in the
11 draft concept paper that was discussed this
12 morning.

13 The most important change is the
14 recent development and introduction of a DSI
15 proprietary tool utilizing the principles of
16 failure mode and effects analysis, which
17 differs from that proposed in the concept
18 paper by FDA.

19 DSI recognizes the importance of
20 learning from past experiences and previous
21 medication error reports. The DSI-FMEA tool
22 utilizes a regression model to assign a

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 weighting to certain known risk for failure
2 modes. These failure modes were identified by
3 analyzing proprietary names in three different
4 situations or scenarios.

5 The first scenario, we reviewed
6 proprietary names on file with DSI that were
7 previously rejected by the FDA.

8 The second was the evaluation of
9 proprietary names recently approved by FDA.

10 And the third was the evaluation of
11 USP-documented name pairs that have been
12 involved with medication errors.

13 These risk for failure modes that
14 were identified with these scenarios include
15 sound alike or look alike similarities;
16 product profile overlaps; prescription
17 misinterpretations; severity of outcome;
18 probability of detection; promotional issues;
19 linguistic concerns; and USAN or INN stem
20 issues.

21 A numerical value was then assigned
22 to each possible failure mode to calculate an

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 overall risk score for each group of names.
2 Thus we have determined an overall FMEA score
3 or threshold for names that have been rejected
4 by FDA. Those names that have been approved
5 by FDA, and those names that have been
6 involved in actual medication errors.

7 WE are now using this FMEA tool to
8 calculate an overall risk score for each
9 proprietary name being evaluated in a name
10 safety research project.

11 The overall risk score of each
12 proposed name can then be compared to the
13 medium risk scores of FDA-rejected names, or
14 those names that are associated with
15 documented medication errors.

16 The next important change in DSI's
17 name safety methodology is our ability to use
18 our computerized orthographic and phonetic
19 analysis tool, which uses the ALIGN algorithm
20 to determine the phonetic similarity of one
21 proposed proprietary name in relationship to a
22 marketed product name using nine different

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 languages.

2 These languages include English,
3 Spanish, French, Italian, German, Polish,
4 Portuguese, Dutch and Czech.

5 For U.S. name safety data
6 submissions, DSI has been recommending and
7 submitting phonetic name similarity results in
8 both English and Spanish.

9 For Canadian submissions we submit
10 our COPA results in both English and French.
11 And for EU submissions we submit in all nine
12 languages.

13 Recognizing the need to improve
14 data to support a proprietary name from a
15 promotional perspective, DSI implemented a
16 third change to its methodology by developing
17 two separate reports for submission to FDA to
18 support the approval of a proprietary name,
19 the first for safety purposes, and the second
20 to support a promotional perspective. And
21 that was a separate report.

22 Within the aided portion of our

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 surveys that we conduct with health care
2 practitioners, DSI constructed five different
3 questions aimed at determining whether a
4 proprietary name was promotional or not.

5 The more elaborate proposal that
6 will be discussed tomorrow we are very
7 impressed with as far as the concept paper for
8 promotional testing.

9 Now I'd like to address certain
10 elements contained in the draft concept paper.

11 DSI encourages the agency to
12 reconsider its initial position requesting
13 confirmation that a proprietary name does not
14 contain a USAN stem. Consideration should be
15 given to USAN stem exceptions, such as the two
16 letter stems such as a-c or i-o. This is
17 mentioned earlier today by Bob Lee.

18 In addition the location of the
19 stem within the proposed name should also be
20 considered. For purposes of harmonization,
21 the FDA should also consider the INN stem
22 decision tree that the FMEA has incorporated

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 in their December 11, 2000 name safety review
2 guidance document.

3 DSI believes that reviewing
4 medication error reports can be useful in
5 understanding the etiology of why certain
6 proprietary names are confused. However, we
7 question the reasoning behind requesting
8 medication error reports based on the active
9 ingredient of the product.

10 We understand how reviewing the
11 medication error reports of errors that may be
12 occurring with a base brand name, in which a
13 modifier was being proposed. However, this
14 would be based on the proprietary name of the
15 product and not the active ingredient.

16 Furthermore, we believe this type
17 of requirement will present a burden for
18 applicants and companies, such as ANDA holders
19 or 505(d)(2) applications, that do not have
20 access to such data.

21 As an alternative we encourage the
22 ABC to publish a list of known confusing name

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 pairs, and redacted case report narratives, so
2 that the industry can continue to learn and
3 adjust its risk assessment methodologies
4 accordingly.

5 DSI has been performing name safety
6 and promotional assessments utilizing a sample
7 size of 160 to 250 in the U.S., which we would
8 recommend as a standard. We usually recommend
9 a confidence interval of 95 percent. At that
10 level the margin of error on a sample size of
11 200 is plus or minus 6.89 percent.

12 However, there are times when drugs
13 will have limited distribution or use, such as
14 a drug that is injected into the retina, and
15 administered only by an ophthalmologist.
16 Therefore, a variance of the sample size, and
17 a variance in the type of health care
18 professionals, should be considered, based on
19 the intended use and/or the distribution of
20 the product.

21 In performing prescription
22 simulation studies for a manufacturer, we

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 routinely test approximately 15 to 20 names at
2 a time, due to a wide array of challenges that
3 may be encountered in the studies and risk
4 analysis.

5 The agency is recommending a
6 minimum of 20 different scenarios representing
7 different prescribing conditions, which we
8 consider problematic. We believe that these
9 studies should be created around the mode of
10 communication, which means verbal, written and
11 computer order entry; with the appropriate
12 communication vehicle, which is the inpatient
13 order, and outpatient prescription; the clinic
14 order; and a computer order; and to utilize an
15 appropriate sample size with the relevant
16 users of the product.

17 We believe that this is also
18 similar to the model that FDA is currently
19 using.

20 We would recommend that the draft
21 concept paper be revised to be similar to the
22 methods currently used by FDA.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 Having similar methodologies
2 between the pilot program and the current FDA
3 process will also help assess the final
4 analysis of the effectiveness of the pilot at
5 the end of the day.

6 The agency has also requested input
7 on OTC name assessments, and because some OTCs
8 are routinely prescribed and used in inpatient
9 settings, and have also been seen in post-
10 marketing reports, as part of outpatient
11 written orders and prescriptions, we recommend
12 that OTC names be reviewed like prescription
13 drug products for that particular environment.

14 With that being said, we recognize
15 that OTC product names should have more
16 latitude with regard to the positive
17 associations or connotations with those names,
18 since consumers are the principal users of
19 these products.

20 We look forward to working with the
21 agency and the pharmaceutical industry in
22 reducing medication errors due to sound alike

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 and look alike proprietary names.

2 Thank you very much.

3 MS. PAULS: Does anybody on the
4 panel have a clarifying question for Mr.
5 Phillips?

6 DR. PHILLIPS: Jerry, you said you
7 would take issue with the 20 different
8 scenarios, that we are working on under the
9 concept paper. And it sounded like when you
10 did I think four different options and
11 variations of the above, were pretty much
12 contemplating something similar.

13 Could you tell me exactly where you
14 differ from the approach that is proposed in
15 the concept paper?

16 MR. PHILLIPS: And maybe it's just
17 confusing the way it's presented in the draft
18 concept paper, and maybe what I suggested
19 would fit the guidance document. But I think
20 the - to construct the survey methodology in a
21 way that works is, you would have to take
22 under the proposal a prescription that if I'm

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 the physician and you are the ward clerk I
2 would have to have this order; you would have
3 to listen to it; and then you would have to
4 write that order down into the chart, or give
5 it to a nurse, who would then also have to
6 participate in that to the pharmacy all the
7 way down.

8 In the case that I am describing
9 the methodology is that what we are trying to
10 test, the overall objective in a simulation
11 study from a prescription point of view is to
12 make sure that one, you can read the
13 prescription or hear the prescription or
14 select the right product when you write it or
15 when you hear it.

16 The actual scenario of who reads it
17 and who writes it, it's important to consider
18 the process, the process and the FMEA on how
19 an error can occur, but the mechanics of
20 writing a prescription, whether I write it as
21 a physician or if I write it as a pharmacist,
22 the handwriting is the tool in which it is

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 being communicated.

2 So as you interpret it, it really
3 doesn't matter who writes that prescription in
4 certain respects; that's what I'm trying to
5 say. So the survey methodology is quite
6 complicated by doing it in a 20-scenario
7 versus the methodology that I just outlined
8 where you make sure that no one sees the name
9 any more than one time, so you maintain that.

10 You maintain the marketed drug products, and
11 the prescription sample; and you segment it,
12 in patient orders, outpatient orders, computer
13 orders, and verbal orders. And then you have
14 those different respondents who represent
15 different users in the health care chain,
16 interpret, order those products.

17 So the concept I think is the same;
18 it's just the survey methodology may be more
19 complicated under the scenarios that were
20 proposed under the draft concept paper.

21 DR. HARTMAN: Just one clarifying
22 question. You said you attached an FMEA one,

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 I assume RPM score, to name rejections that
2 the FDA has done; is that right?

3 MR. PHILLIPS: That's correct.

4 DR. HARTMAN: And that would also
5 include a score attached to the likelihood of
6 harm; is that right?

7 MR. PHILLIPS: The likelihood of
8 harm is also considered in that.

9 DR. HARTMAN: If I understand what
10 you said earlier, Carol, as far as the FDA is
11 concerned, likelihood of harm should not be a
12 factor?

13 MS. HOLQUIST: We consider it, but
14 it's not the overall overriding theme. If we
15 think that something is going to be confused,
16 we are looking at this from a preventive mode.

17 So just because today one error doesn't kill
18 somebody, tomorrow it might. It just depends
19 on the scenario that is set up.

20 And so I think what we are looking
21 at it from is, are these preventable events?
22 And if they are, let's fix them before

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 approval.

2 MS. PAULS: Any other questions from
3 the panel?

4 Okay, thank you, Mr. Phillips.

5 MR. PHILLIPS: Thank you.

6 MS. PAULS: Our next registered
7 speaker is John Breen, the research director
8 from Interbrand Wood Healthcare.

9 MR. BREEN: Thank you all. Again,
10 I'm John Breen. I have been working at
11 Interbrand Wood Healthcare for about nine
12 years now conducting main validation studies
13 on pretty much a daily basis.

14 And again, we want to applaud the
15 efforts of everyone in this room to
16 collaborate on this issue that has challenged
17 many of us for a number of years.

18 I prepared some remarks in advance
19 of this meeting, some of which have been
20 touched upon already today. However, after
21 nearly 20 years of conducting brand name
22 evaluations, Interbrand Wood has learned many

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 significant lessons.

2 As such I'd like to briefly discuss
3 some key issues that we believe should be
4 considered regarding the FDA's proposed plan
5 to conduct a safety review of proposed
6 proprietary names.

7 Just a little background. For the
8 past 30 years Interbrand Wood Healthcare has
9 developed specialized services to address the
10 brand challenges faced by the health care
11 industry.

12 We have consistently encouraged
13 health care clients to use trademark creation
14 as a core component of global brand and
15 communication strategies.

16 In 1990 rxmark was created as a
17 distinct division of Interbrand Wood to
18 address the growing importance of brand-
19 related research and safety research in health
20 care.

21 Today we are widely recognized as a
22 leader in the global assessment of proposed

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 trademarks that minimize the potential for
2 harmful medication errors using our
3 proprietary 10-10 trademark evaluation model
4 and other methods.

5 To date, over 135 trademarks that
6 are either FDA or EMEA approved have gone
7 through 10-10, and we have literally conducted
8 thousands of 10-10 studies to assess proposed
9 pharmaceutical nomenclature.

10 So in terms of the concept paper
11 and the pilot program, we strongly agree that
12 there is no fail-safe method or gold standard
13 to evaluate proprietary name candidates, and
14 that it is necessary for sponsors to employ
15 multiple methods to identify potentially
16 unsafe names.

17 From a macro view, the proposed
18 approach mirrors and builds upon best
19 practices historically employed within the 10-
20 10 model.

21 The 10-10 uses rigorous,
22 multifaceted research methodologies to aid in

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 trademark selection, and to identify names
2 that could increase the potential for
3 medication errors, including quantitative
4 prescription simulation studies, quantitative
5 closed and open-ended surveying techniques,
6 automated and human drug database searches,
7 and evaluation and consultation by a multi-
8 disciplinary team of dispensing experts.

9 However, there are also some
10 considerations we feel we need to look at when
11 we are reviewing the concept paper. Number
12 one, the methods proposed in the concept paper
13 have many practical and logistical
14 implications for the industry. Name
15 validation studies will become more complex
16 and expensive to execute. For example, FDA
17 has proposed a minimum requirement of 20
18 prescribing scenarios, as part of the
19 prescription simulation exercises. After
20 convening a group of our most serious
21 statisticians within our analytics team, we
22 confirm that the optimal sample size, defined

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 as one that balances a standard error rate of
2 5 percent with a reasonable market research
3 budget, will be in the 400 - 500 respondent
4 range, given the FDA's proposed requirements.

5 With 20 prescription simulations, that would
6 be approximately 20 respondents per individual
7 simulation.

8 Our current best practice is to
9 conduct the evaluation with fewer simulations,
10 with approximately 150 to 200 U.S.-based
11 health care professionals, again, depending on
12 the specificity of the product, the
13 specialization of it, et cetera.

14 Combined with other more stringent
15 research requirements, such as conducting a
16 promotional review separately from the safety
17 review, pharmaceutical companies can expect to
18 see large cost increases and increased
19 resources put against conducting name
20 assessment studies.

21 Additionally, because
22 pharmaceutical companies face a number of

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 intellectual property challenges such as the
2 maturation of the trademark from a legal
3 perspective, and are often looking for global,
4 not only U.S. trademarks, typically anywhere
5 from 10 to 20 brand name candidates are
6 evaluated in a single study, not just the one
7 or two that are eventually submitted to FDA.

8 Given the requirement of 20 plus
9 prescription simulations and separate
10 promotional reviews, you can probably imagine
11 how this will impact timing and costs. Again,
12 from an execution standpoint, it will be very
13 challenging.

14 Going forward, it's imperative to
15 identify surveying techniques that do not
16 detract from the guiding principle of
17 designing a research model that will help us
18 make an informed decision while also keeping
19 some of these practical considerations in
20 mind.

21 The other point I want to make is
22 that in general, when conducting name safety

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 research, there is certainly a learning curve.

2 For example there is a learning curve when
3 searching similar joint names in online
4 databases.

5 While the release of the POCA
6 software provides another tool and
7 standardized methodology to identify drug
8 similarity issues, best practices for search
9 strategies must be defined through other
10 online drug database sources.

11 For example within the 10-10 model,
12 Interbrand Wood conducts an automated search
13 of the IMS database that employs an algorithm
14 that implements over 900 search strategies to
15 identify conflicts with similar prefixes, end-
16 fixes and/or suffixes, visual or phonetic
17 similarities; and similar letter placements or
18 letter combinations.

19 In the spirit of the public
20 meeting, we would be happy to participate or
21 lead a best practices committee in this area.

22 As noted earlier Interbrand Wood

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 supports the recommendation that
2 multidisciplinary teams of experts be included
3 as part of the review process of FMEA
4 analysis.

5 However, more guidance needs to be
6 provided regarding criteria for selection and
7 panelist qualifications. And also the
8 criteria for judging names in this evaluation
9 to remove some of the subjectivity.

10 For example, should we consider -
11 should we as an industry consider a training
12 and certification program in this area for
13 experts?

14 Interbrand Wood has already gone to
15 great lengths to develop an international
16 panel of dispensing experts, that can also
17 help define key criteria for selection.

18 As discussed today, and in the
19 concept paper, medication use errors occur due
20 to drug name similarity, unclear labels and/or
21 poorly designed packaging.

22 However, the bigger issue that

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 still remains is that we are still not totally
2 certain where the trademark itself falls
3 within the medication error paradigm on a
4 case-to-case basis.

5 As noted at the June 2003 public
6 meeting, many participants offered views that
7 prescription and order simulations should
8 reflect actual situations wherever possible.
9 We must ensure that the process we settle on
10 takes into account the entire prescribing,
11 dispensing and administration environment, and
12 in some of the methods proposed, including the
13 guidance for the FMEA analysis, I believe we
14 are on track.

15 A specialized panel within our
16 analytics group tasked with evaluating the
17 proposed pilot program also recommends that we
18 continue to look at new forward looking
19 surveying techniques and technologies that
20 will create, will help to create more of a
21 real world environment for name safety
22 studies.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 So as stated earlier, we hope that
2 standardized methods and endpoints eventually
3 ratified by the FDA will lead to greater
4 predictability and transparency in proprietary
5 name reviews.

6 We also believe that the
7 introduction of a concept paper and pilot
8 program will heighten awareness and education
9 on issues related to medication error within
10 the industry.

11 Ultimately, though, the goal of the
12 program must be to define consistent standards
13 for acceptability, and to create a threshold
14 for approvable names. Unfortunately, the
15 processes outlined still requires that certain
16 judgments be made which will impact our
17 ability to predict a successful outcome.
18 Perhaps it is impossible to take subjectivity
19 totally out of the equation. However, as
20 stated in the concept paper, it is critical to
21 remain open to new approaches for evaluating
22 trademarks, and for us to continue to identify

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 methods that can be replicated, and where key
2 research endpoints can be clearly defined.

3 And what I wanted to do was just
4 close with an example of a project we worked
5 on, on behalf of a client, where a proprietary
6 name was submitted and rejected by FDA.

7 It was rejected for visual
8 similarity to two marketed product names. We
9 conducted a very extensive evaluation
10 employing multiple methods such as again
11 looking at prescription simulations,
12 conducting a script matching exercise. We
13 looked at over 30 prescription scenarios. We
14 had over 1,000 impressions. And at the end of
15 the day saw a less than 1 percent error rate
16 in those simulations.

17 Additionally, we conducted an audit
18 of the products in question, actual
19 prescriptions greater than 500, to understand
20 whether or not the different prescribing
21 characteristics would actually overlap, and we
22 employed the expertise of dispensing experts

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 in the evaluation.

2 The challenge we face today is as a
3 market researcher, when I saw a less than 1
4 percent error rate, the fact that the
5 prescription audit yielded very favorable
6 results, and our dispensing experts did not
7 see a major issue, we felt it was a successful
8 due diligence, and we had completed our due
9 diligence. And as a result we will be able to
10 demonstrate that there was not a significant
11 risk for medication error.

12 The reality was, the arguments were
13 not accepted. So the real challenge we face
14 again is, what is that threshold? And how can
15 we increase predictability and transparency
16 into this process?

17 I thank everyone for your time, and
18 happy to answer any questions.

19 MS. PAULS: Are there any questions
20 from the panel?

21 DR. PHILLIPS: I'd just like a
22 clarification. You were talking about the FDA

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 concept paper approach with the different
2 scenarios requiring a much larger sample size.

3 They actually estimated about 70 participants
4 for the 20 scenarios, so what you are
5 suggesting is that it would be necessary to
6 do, or more beneficial to do fewer different
7 scenarios, with larger samples each, than the
8 approach that the FDA is recommending?

9 MR. BREEN: If we want to look at 20
10 scenarios for it, I think what we are
11 recommending is that the total sample size
12 would just need to be increased. Because what
13 we want to do is make sure we look at enough
14 individual respondents on a per scenario
15 basis. So even with 400 we are still talking
16 about a threshold of 20 per individual
17 simulation. So that's why I think, when we
18 looked at the analysis, we believed it was
19 necessary to go to a higher number of
20 respondents in an individual study if we are
21 looking at 20 simulations.

22 MS. HOLQUIST: I think we tried to

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 clarify that this morning that you would be
2 able to use more than one name in each
3 scenario.

4 MR. BREEN: Oh, absolutely, and we
5 have anticipated that in a single study, we
6 can look at anywhere from 10 to 20 brand name
7 candidates. But again what we would want to
8 do is look at a reasonable number of
9 interpretations for that individual scenario
10 per name.

11 MS. PAULS: Sue.

12 DR. HARTMAN: One of the - usually
13 I don't find myself on the side of the agency
14 on matters like this. A 1 percent error rate
15 for 1,000, that's 10. Doesn't it really
16 depend on not - doesn't it really depend on
17 the kinds of errors? I mean if they are one-
18 off errors, the kinds of errors that are very
19 unlikely to occur repeatedly, the kind of
20 errors that I think Eric Glass talked about
21 that I think could occur in the consumer
22 health study that could also occur in

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 prescription setting.

2 Those are - then I can see that 10
3 might not mean anything. But sometimes a
4 small number of errors, if the errors are of
5 the kind that are representative of a class of
6 errors that could repeatedly occur, then I can
7 see that more weight should be given.

8 Which is just a long way of saying
9 that number, 1 percent, doesn't do it for me.

10 It's really - it's not a question of the
11 number of errors; it's a question of the
12 quality of the errors. And I would hope that
13 the FDA takes that into consideration when
14 they evaluate a concept paper, that it's not
15 the number of errors that turn up, because you
16 are going to churn out a lot of data in this
17 name simulation study; it's not going to be
18 the number of errors, it has to be the quality
19 of the errors.

20 DR. PHILLIPS: But also, even a 1
21 percent when you are talking about hundreds of
22 thousands of prescriptions over the course of

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 a year, and each consumer taking that
2 medication one or more times a day, so
3 depending again, that's an awful lot of
4 opportunities for error with all of the use,
5 so it could be extremely significant at 1
6 percent.

7 DR. HARTMAN: That might be true,
8 that isn't my point. My point isn't to focus
9 on a number. My point really is that the
10 issue is the quality of the error. We had an
11 earlier discussion about whether one mistake,
12 one error, was enough to kill a name. And the
13 point I'd like to make is that I suppose it
14 depends I the abstract. It depends on whether
15 it's a one-off event or it's not, and that's
16 the point I'm really trying to convey.

17 MR. BREEN: Can I make one
18 additional comment without giving away any
19 proprietary information regarding study design
20 with the 1 percent. We had set up a study,
21 almost in a worst-case scenario, using a range
22 of different handwriting scripts. Some of

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 them were pretty illegible, and also, we tried
2 to limit the number of distinguishing factors,
3 for example, in the script. So we had a mix
4 of ordering instructions and non-ordering
5 instructions.

6 The point of this again was to
7 demonstrate what we believe would be the worst
8 case scenario, without any other factors. And
9 looking at multiple rounds of scripts for the
10 three names in question.

11 So I agree, the 1 percent could be
12 significant on a wider range scale, but it
13 also did represent the absolute what we
14 believe in the study design the worst case
15 scenario, and the reality is, that is less
16 likely to happen in the real world.

17 MS. PAULS: Sue.

18 DR. JOHNSON: We had a part of the
19 discussion in the first panel was about
20 shifting the burden to the industry to do
21 this. I am just curious, again without giving
22 away any proprietary information, are your

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 clients largely big pharma, or are your
2 services accessible to a small company?

3 MR. BREEN: We service companies of
4 all types, big pharma, biotech device
5 companies. And we have a certain threshold
6 for name safety studies, and if it's a very
7 specialized product, typically it's in the 150
8 range, and that's where I was going with that,
9 and it can range up to 200 and even higher
10 given the specific scenario.

11 DR. BRASS: I continue to have some
12 tension, and as I think about this, in terms
13 of this error rate and what it means. I mean
14 I agree completely with the comment. But the
15 number to me is irrelevant. It's the context,
16 it's the consequences, it's the scenarios
17 under which it occurs, that allow any
18 interpretation in terms of a risk for public
19 health perspective.

20 Then I also hear since there is no
21 offsetting benefit, any risk is intolerable.

22 Then I hear we are going to do 20

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 patients, or 20 scenarios, and worry about 1
2 percent risk rates.

3 I mean the various lines of
4 discussion I have trouble resolving around a
5 coherent forward looking plan, because even if
6 the goals are worthy, there is no way the
7 proposal can address them except as I say,
8 generate noise, and unformed decision making
9 under the guise of informed decision making.

10 MS. HOLQUIST: I think when we look
11 at it, we don't just look at one particular
12 study and base our decision making on that
13 aspect of it. That's why in our proposal we
14 did use a lot of different methodology. And
15 it's the complete or the comprehensive look at
16 all of this data and what does it exactly
17 mean.

18 We often will run our own studies
19 and might get a hit in our name testing
20 studies, but we don't always say no to the
21 name just because of that. I think we do look
22 at, what did we see through our failure mode

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 effects? Do we see errors that will likely
2 occur? And if we see that people have
3 conducted studies and in fact the same things
4 that we predicted in those analyses are
5 actually occurring, in small simulated
6 studies, that that represents a risk to us. ;

7 And that is sort of how we look at
8 this data. We don't just look at each one and
9 say, yes, okay, you had no confusion; your
10 name is good to go. Or you had 20 hits on
11 this, and you know, what does that mean?

12 MS. PAULS: Thank you, Mr. Breen.

13 MR. BREEN: Thank you very much.

14 MS. PAULS: We are going to move on
15 with our third registered speaker. It's Mr.
16 Maury Tepper, a partner with Womble Carlyle
17 Sandridge & Rice.

18 Mr. Tepper.

19 MR. TEPPER: Thank you very much.

20 And I am very pleased to see that
21 my firm's name was not the victim of name
22 confusion, nor my name. Maury is often

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 mispronounced. I have a favorite list of
2 those.

3 I do want to thank all the
4 participants today. Many of you, it's amazing
5 how quickly five years passed. You all still
6 look good. I haven't gotten any taller. And
7 here we are in many ways at the very same
8 place that we left off after the June, 2003
9 meeting.

10 So I do want to underline and
11 emphasize just a couple of points. Just as a
12 matter of formality, I will mention to you, I
13 am an attorney practicing in the trademark
14 field. I work frequently on pharmaceutical
15 naming projects. I also serve as a special
16 government employee. I am on a public
17 advisory committee for the Patent and
18 Trademark Office. I serve on the Trademark
19 Public Advisory Committee.

20 None of my remarks today relates to
21 the work of the Patent and Trademark Office,
22 but I did want to at least make you all aware

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 of that. I am not here in my capacity as a
2 government employee, or on behalf of the PTL.

3 I just want to draw out a couple of
4 comments. I see a lot of benefit in this
5 pilot project. I think we have lots of
6 interested groups in this room all working
7 towards the same goal, and all continuing to
8 reach different conclusions on occasion, which
9 simply means this is a difficult task. There
10 are no clear answers.

11 But any proposal that will increase
12 predictability, reduce duplication of effort,
13 and provide a measure of certainty, is
14 certainly a welcome one. And in many ways I
15 see great opportunity for that in the
16 proposal.

17 I want to back up and just
18 highlight a couple of things that bring us
19 forward from the context of our 2003 meeting
20 five years ago. Many of them are commented on
21 in the draft position paper, but I think it's
22 worth underscoring just a couple fo things.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 There are some serious questions
2 that do remain unanswered since 2003, and the
3 paper does note some of the questions that
4 were raised. You heard some comments today
5 relating to the issue of causation. We know
6 that names play a role; I think the correct
7 view is, many many factors in the system play
8 a role in every error.

9 We still don't know the degree to
10 which the name contributes to that, is a
11 cause, or is even a significant cause. And
12 there are some statements even in the draft
13 position paper that continue to state, names
14 are a significant cause of errors. I think we
15 need to be very careful in our language about
16 that, because that conclusion remains
17 unproven, and I think we heard a lot of more
18 informed information today. In fact I was
19 very pleased with the notion that even within
20 those errors that are attributed as name
21 errors - and I apologize for tilting at
22 windmills - that nine out of 10 of those are

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 attributable to confusion between established
2 or non-proprietary names.

3 So we can all pat ourselves on the
4 back at least a good bit to the extent to
5 which trademarks are doing quite well, and
6 these increased efforts and scrutiny are
7 paying dividends.

8 We do have at its core, though,
9 given all of these factors, a subjective field
10 that we are dealing with. And the position
11 paper uses the word, qualitative. I applaud
12 FDA for recognizing that. What we need when
13 we are dealing with subjectivity is human
14 judgment. I would love for there to be a
15 single test. I would love for there to be a
16 predictive measure that would give us all the
17 answer. If someone had found that, I think
18 that person would be on a beach enjoying the
19 royalties that the rest of us would be paying
20 them for that answer, and we would all be very
21 happy for it. We are striving for that, but
22 unfortunately it is simply difficult to

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 identify any single measure.

2 And I endorse FDA's approach then
3 of using multiple tests to try to get the
4 relevant information to make an informed
5 prediction. I think FDA's method has gone a
6 long ways toward informing the way in which
7 industry works to develop names, the way we
8 all review names. You have heard from a
9 number of representatives of companies today,
10 and there are others in the room here. Many
11 companies have developed systems that are
12 based on the FDA system to try to help provide
13 that certainty; to try to help those kinds of
14 reviews. And I think we all benefit from
15 that.

16 The fact that we still come to
17 different conclusions says a lot about the
18 degree to which this is a subjective field.
19 We are not comfortable with, we would love to
20 have a zero error rate. We need to be honest
21 and say, that is not a possibility.

22 I'll come to the focus on FMEA, and

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 then I'd like to make two significant points.

2 FMEA is a useful tool. If you look
3 at its origins, it was designed to detect weak
4 points in the system; to consider the effects
5 or the significance of those weak points. And
6 that is all it does. The "e" needs to be
7 stressed. And I again welcome your comments
8 about understanding whether it is an important
9 error, or an error likely to recur, or
10 understanding what the contributing causes are
11 in that error.

12 FMEA is well suited for that. FMEA
13 is not well suited for establishing similarity
14 likelihood of an overall error. It is really
15 better applied to the entire system.

16 Dr. Cohen has written very
17 eloquently and very correctly about the many
18 factors that can contribute to an error. And
19 typically an error is not caused by one thing.

20 Lots of things need to go wrong. FMEA helps
21 us find out those weak points, and trace
22 through the overall system.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 I recognize we don't have the
2 luxury of regulating the entire system; it'd
3 be great if we had all of the authoritative
4 members assembled today. Nonetheless, we need
5 to focus on the role which names play in the
6 overall system, and be realistic about the
7 extent to which we can ask the name or the
8 trademark to make up for all of those other
9 failings rather than addressing those other
10 root causes as a part of the overall solution.

11 Once - one area I would encourage
12 FDA to focus on in this process, I think that
13 the pilot program and the system that has been
14 developed by FDA is excellent at data
15 gathering and data generation. We have lots
16 of places to look now to gain information
17 about potential problems, about potentially
18 similar names, about measures of similarity.

19 What we need, and what I encourage
20 you to consider incorporating into the pilot
21 project, is some analytical framework for all
22 of us to apply in order to evaluate that data.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 I do not believe FMEA provides that framework
2 and I believe that we are all making
3 subjective determinations without a common
4 language, and without articulating the basis
5 for those determinations, which adds
6 uncertainty and difficulty to the process.

7 I have proposed, goodness, more
8 than five years ago, one test; I don't think
9 it is the only one, but a starting place to
10 look. Since I am an attorney, I look to the
11 legal test. But we have a very well
12 established body of law in the Lanham Act and
13 in trademark law called the likelihood of
14 confusion test. It has the benefit of having
15 sets of factors that are weighed, and yes, in
16 every subjective determination different
17 factors may get different weights depending on
18 the situation. But the test recognizes the
19 reality of the marketplace, thinks about the
20 way in which the mark will be encountered, and
21 in our situation who may be prescribing or
22 dispensing or receiving the medication; what

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 the dosage forms or strengths may be; and
2 gives appropriate weight, which again requires
3 human judgment to those factors, to arrive at
4 an appropriate decision.

5 In any subjective situation, people
6 do not always agree. But having a test gives
7 us the benefit of sharing a common analytical
8 framework; having a basis for discussing any
9 disagreements; and for resolving them in a
10 rational way; and adds predictability to the
11 system.

12 I encourage FDA to look at this
13 test or any other test to provide some
14 framework for analyzing the data that, again,
15 it has done such a fabulous job of encouraging
16 us to all look at and generate and collect.

17 The next step to help us would be
18 for us all to have a common system for
19 analyzing that data.

20 I also encourage FDA to consider
21 the parties who are reviewing that data. We
22 heard a bit this morning about expert panels.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 Expert panels are not mentioned in the pilot
2 program, but we did hear about FDA's use of
3 expert panels. We've heard a little bit about
4 external.

5 As far as I can understand at the
6 moment, our experts, and they are laudable,
7 they are volunteers at FDA who are willing to
8 give up their time and who have an interest in
9 this, but the expertise so far seems to be
10 they have been doing this for a good long
11 time.

12 I wish that that worked with my
13 golf game. It doesn't. FDA has a great track
14 record with turning to advisory committees,
15 having recommendations provided by those
16 advisory committees, with having them analyze
17 information.

18 That is an outstanding model that
19 should be considered as part of this review
20 process. If we could establish the
21 appropriate criterion for expertise in
22 predicting and understanding the medication

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 dispensing and prescribing system, naming,
2 similarity analysis, expert panels could be
3 assembled in the form of an advisory committee
4 who could, in a public fashion, analyze and
5 discuss and provide recommendations on all of
6 the data that has been submitted.

7 The final point I'll make with
8 regard to the paper as published, I think the
9 pilot program is a laudable effort, and FDA
10 acknowledges correctly that there does not
11 exist a gold standard currently. We are using
12 lots of different approaches.

13 The draft, or the proposed method
14 for assessing the data from this pilot program
15 appears to be a comparison to FDA's existing
16 approach and conclusions which de facto makes
17 FDA's existing standard look old standard.

18 I think we need to find a different
19 framework for discussing and analyzing how
20 useful the project was.

21 I understand that it will be extra
22 work for FDA to duplicate the analysis during

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 this pilot program; I appreciate that effort.

2 I think it would be ill advised, however, to
3 judge the success or failure of the pilot
4 program based on whether or not external
5 reviews reached the same conclusion in what is
6 at the core a subjective analysis.

7 So the words qualitative comes to
8 mind again. I think that it will require some
9 careful consideration and discussion of the
10 outcomes. I think there will be great benefit
11 to all of us to having a standard set of data
12 to consider.

13 I think we could benefit further
14 from having some system for analyzing and
15 appropriately weighing that data so that we
16 can have rational discussions about that.

17 And I'll be happy to take any
18 questions. Thank you for your time.

19 MS. PAULS: Thank you.

20 Any questions for Mr. Tepper?

21 MR. TEPPER: Thank you very much.

22 MS. PAULS: Sure, go ahead.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 DR. JOHNSON: I'm sorry to bring you
2 back up.

3 MR. TEPPER: It's not that far,
4 actually.

5 DR. JOHNSON: In regard to creating
6 a framework for the analysis of the data, I
7 think we have heard a lot of discussion today
8 about various parameters that could go into
9 that - what are the number of errors, what are
10 the type of errors, do they suggest a
11 systematic problem, or are they just very
12 serious adverse events.

13 Are you thinking about different
14 parameters in your analysis framework, or
15 along the same lines?

16 MR. TEPPER: I think there is an
17 element there. I mean when we talk about the
18 number of errors, and you have heard several
19 comments, that may or may not be relevant.
20 What type of errors are they? What parts of
21 the system are causing those errors? To what
22 extent does the name play into that?

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 And if it is, again, preventable,
2 and likely to recur, that is important and
3 relevant to know, and should be given a lot of
4 weight. If it truly is an unpredictable
5 error, or something more likely caused by
6 another part of the system, it should probably
7 be considered, but be given less weight in
8 terms of what is really going to address the
9 root cause of that.

10 The test, the legal test at least,
11 gives some factors that you can weigh that
12 would actually look at and this mimics again
13 the proposal for simulations, we tried to
14 approximate real world conditions. We would
15 look at who is the relevant class of
16 consumers. Are they specialists? Are they
17 nurse practitioners? Is this a hospital
18 product? Is this going to be a product that
19 is promoted and has a lot of consumer
20 recognition?

21 That will inform our understanding
22 of how close are people paying attention; what

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 orientation do they have; what panelists
2 should be considering that.

3 It certainly plays a role, and I'd
4 love to give you the exhaustive list of all
5 those factors, but I think the most important
6 thing is for us to have a common language.
7 And some agreement about what are we looking
8 at, so we can discuss the appropriate weights
9 of that information.

10 DR. JOHNSON: I think it would be
11 helpful, and just to remind everybody in the
12 room, the docket is open to get additional
13 comments on this in addition to the meeting,
14 and whatever specifics you would like to add,
15 I think that would be very useful.

16 DR. HARTMAN: I would like to ask
17 Maury, with regard to your suggestion about
18 advisory committees or expert committees, who
19 would be - what qualifications are there for
20 such an expert to be on a panel? Because it
21 is not something you get a degree in, I
22 assume. You don't get a degree in medication

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 error safety. And certainly not in name
2 safety. So how would - do you have any
3 thoughts about that?

4 Let me put it a different way:
5 would an experienced pharmacist automatically
6 qualify as an expert? Or are we talking about
7 someone having some more experience than that?

8 MR. TEPPER: Thank you, Steve.

9 First of all, I've known for years
10 that Steve asks the best and hardest
11 questions, and I knew I was at risk in coming
12 up here. And having a blank sheet of paper is
13 a good thing.

14 The truth is there are no preset
15 qualifications right now. However, I would
16 submit at least as a starting point that we
17 look at relevant practice. It needs to be not
18 just relevant but current by the way. Those
19 who are out there in the market understand the
20 pressures and the conditions under which
21 products are actually dispensed, so they can
22 make an informed judgment about how risky

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 would this be, and when I have 10 seconds to
2 reach for this on the shelf, how careful am I
3 going to be? And who can understand and
4 interpret that?

5 I think certainly it involves those
6 who have a background in name analysis. We've
7 mentioned the similarity is only one measure,
8 but it is a measure that should be involved.
9 Those who understand and analyze the
10 similarity of names, we haven't spoken about
11 handwriting science, and it's not in the
12 paper. It's certainly something that needs to
13 be further explored, and I certainly welcome
14 as I trust the agency would any new
15 information on understanding handwriting
16 patterns, how we can better predict them, how
17 we can look at them.

18 A panel discussing that, who can
19 apply that knowledge and understand, is this
20 an aberrant set of pen strokes? Or is this
21 really a common pattern that we are going to
22 see in the marketplace? How can we apply some

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 reasonable level of predictability to trying
2 to guess what people scribble like, to the
3 extent we are going to be asked to factor in
4 and try to prevent or protect against
5 handwriting errors.

6 Certainly people who have
7 appropriate market experience in understanding
8 the way in which drugs are promoted, perceived
9 by, and remembered by their customers, be they
10 practitioners, consumers, those in hospitals.

11 And I will be glad to think further on this
12 and submit perhaps some written comments and
13 suggestions.

14 MS. PAULS: Thank you, Mr. Tepper.
15 Oh, Diane.

16 DR. COUSINS: Sorry, just a follow
17 up to that. Do you believe that having these
18 people that are too expert could introduce
19 bias as well? Don't you really want people
20 who are reflective of practice which can be
21 very variable?

22 MR. TEPPER: That's an excellent

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 observation. I agree with that. And it comes
2 back to my notion of current expertise and
3 practical experience. But having a large
4 enough panel that consists of multiple
5 viewpoints helps with that somewhat, but there
6 is a real danger, particularly being too
7 academic, or being - it's not unlike, since we
8 are talking about a group of probably 12
9 people, you think about a jury. Is there
10 someone who will dominate it simply by
11 intimidating everyone else with their apparent
12 knowledge. And that is a danger that should
13 be considered.

14 MS. PAULS: Dr. Cohen, one last
15 comment?

16 DR. COHEN: Yes, I was just going to
17 say, I can't agree with that, actually I don't
18 agree with that. I think you really do need
19 expertise in this particular field, knowing
20 that history of the kinds of things that have
21 gone wrong is very important. Many times we
22 are able to see something almost immediately

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 when a new product is launched, with a label,
2 a design for example of how the concentration
3 is expressed, that we are able to pick
4 something up immediately. And I don't know
5 that that would be the case if you just had a
6 panel of practitioners looking at it, or
7 looking at data that was collected. I think
8 that is very important to have the expertise.

9 And I think that is available in some of the
10 consultant organizations for example,
11 certainly amongst my colleagues at ISMP. We
12 see these things all the time, day after day,
13 and that does bring a certain level to these
14 reviews that is very important I think.

15 MR. TEPPER: By the way as a closing
16 comment, although I don't have a list of
17 expertise, I know for sure that Mike will
18 qualify.

19 (Laughter.)

20 DR. LEONARD SEGAL: Lana, can I just
21 ask one question?

22 I'm wondering what the threshold to

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 taking the naming reviews to the committees
2 would be? Would it be every name? What would
3 be the triggers that you would be recommending
4 would be the - or the doubts that you would
5 recommend trigger the assembly of an expert
6 committee?

7 MR. TEPPER: Well, that's a
8 difficult question to answer, since again the
9 paper as drafted does not really incorporate
10 any form of expert review, and I suppose there
11 is a lot of discussion about the degree to
12 which FDA would want to trust an initial
13 expert review that is conducted externally and
14 submitted to FDA.

15 But certainly cases where FDA has a
16 real disagreement with the conclusions in a
17 submission, or perhaps in the qualifications
18 of the experts or the analyzers who reviewed
19 in a submission, having an advisory committee
20 available to refer the issue to or seek
21 guidance from would be a benefit.

22 MS. PAULS: Thank you.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 Okay, we have one last registered
2 speaker for today, and that is Susan Proulx,
3 the president of Med-ERRS.

4 Susan.

5 DR. PROULX: Thank you. It's
6 really hard being the last speaker in a day
7 like this, because everybody said a lot of the
8 things that I was going to say.

9 But what I'm planning on doing
10 briefly is to - our task force at Med-ERRS who
11 looked over this concept paper put together a
12 little bit more specific thought, so we are
13 not going to go through what our MedERRS
14 process is in name safety testing. What we
15 plan doing is giving a few more comments on
16 what we agree with specifically in the paper;
17 what we disagree with; and then raise a few
18 questions that don't necessarily need to be
19 answered at this time of day, but that will -
20 you can put forth with the - at the end during
21 the rest of the comments.

22 By the way, Med-ERRS is a wholly

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 owned subsidiary of the Institute for Safe
2 Medication Practices, for those of you that
3 aren't aware. We consider ourselves a safety
4 company. We work specifically with the
5 pharmaceutical industry on safety issues
6 related to the things that the pharmaceutical
7 industry has control over, such as labeling,
8 packaging, and nomenclature.

9 We have been in existence 10 years.

10 This is our 10 year anniversary, and I am a
11 former clinical pharmacist. All my staff is
12 professional pharmacists, and I've worked with
13 Mike for over 13 C almost 13 years now.

14 And we also participated in the two
15 2003 meetings; we were able to do that.

16 So I'm going to go into Section 4,
17 which is what we have been discussing today,
18 and I will have some other comments tomorrow
19 for Sections 3 and 5 related to the logistics.

20 And Steve, by the way, there is a
21 medication safety certificate program at
22 Temple University School of Pharmacy, so there

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 are pharmacists being trained specifically in
2 medication safety, and my comment on that is,
3 you wouldn't want someone, just an expert in
4 name safety, since we realize that medication
5 errors are multifactorial, so you would want
6 to understand the full range of medication
7 safety.

8 And also one of the things for
9 those of you that participated in the naming
10 summit that ISMP and FDA ran last fall, one of
11 the recommendations has been, by Mike and that
12 group, that a medication safety officer should
13 be part of the pharmaceutical industry, so
14 that is something that has been raised as
15 well.

16 So those may be two people that
17 would be good to be on some sort of expert
18 group or an advisory committee, just as an
19 aside.

20 Now I will start my comment. We
21 agree that multiple tests and best practices
22 is the way to go; that we understand there is

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 no gold standard.

2 We also agree that safety and
3 promotional aspects should be taken into
4 consideration, and tomorrow one of my
5 colleagues will talk briefly about the fact
6 that the promotional aspect of a name can
7 impact on the safety of a product as well.

8 We also agree that both the name as
9 well as the product characteristics impact on
10 the potential for confusion, based on the
11 hundreds of medication errors that we have
12 seen reported over the years, as well as the
13 near misses.

14 We also agree that other factors
15 related to the name, but not specifically
16 related to look and sound alike confusion, can
17 also lead to potential confusion and errors
18 with the product, such as the medical terms,
19 abbreviations, laboratory tests, shortened
20 names of products, for example, vanco for
21 vancomycin, and also what we call at Med-ERRS
22 name pair similarity, where if you were

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 actually looking at two handwriting samples,
2 the up strokes and the down strokes wouldn't
3 necessarily be the same, but that there is
4 some - there is enough similarities in the
5 letters that you would - you could potentially
6 confuse them.

7 For example, Cozaar and Zocor, and
8 Trilpetal and Atripla, we have had situations
9 where there has been medication confusion, or
10 medication errors reported, or near misses,
11 with names that are similar, but we wouldn't
12 call them look and sound alike products.

13 We believe that there are certain
14 product characteristics, depending on the
15 product, should have a different weight. So
16 when you are looking at product
17 characteristics depending on the product,
18 whether it be a unique characteristic of that
19 product, for example, if it's a new dosage
20 formulation, that may help create a
21 dissimilarity with other products on the
22 market, and that may be required to hold a

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 different weight when you are comparing it
2 with the products for which it is being
3 tested, and that should be taken into
4 consideration as well.

5 We also have a disagreement with
6 this concept paper related to the use of
7 dosage or root in the name. Now with new
8 molecular entities we believe that to be
9 reasonable, and that that should not contain
10 caps, tabs or oral, et cetera, as it is stated
11 in I believe it's in box one.

12 However, what we are finding,
13 because more and more lines - we talked about
14 lines of products with over-the-counter
15 products, but we are seeing more and more
16 lines of products even within the prescription
17 realm.

18 And what we are finding is, it's
19 becoming more and more difficult to come up
20 with a way to differentiate that new product
21 in a line of other products. The way people
22 are doing it is either adding suffixes, which

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 we know create many medication errors, or
2 somehow coming up with a totally new name,
3 which then will not relate it to the original
4 product.

5 So what we believe is that it may
6 be useful in certain situations on a case by
7 case scenario, to look at a way to identify a
8 new product in a line with its original
9 product, yet somehow make it different enough
10 so that it wouldn't have look and sound like
11 similarity.

12 It's just something to consider.

13 The neighborhoods are getting very
14 crowded with these names, so I think we have
15 to start thinking a little differently
16 sometimes.

17 I think this has been discussed,
18 but I'll just reiterate, so I go on the record
19 as saying, as far as the USAN stems, I know
20 Bob talked about it and Jerry also. We agree
21 that in general you should not include USAN
22 stems as obviously, especially the ones that

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 are not appropriate to that particular
2 product's class. However, we know that with
3 two letter stems, that it's becoming more and
4 more difficult not to somehow have it be there
5 in the listed products.

6 So we believe that again that
7 should be looked at on a case-by-case basis,
8 and not necessarily and unequivocally have a
9 name rejected right up front just because it
10 may contain a two-letter stem. Again, case-
11 by-case basis.

12 Med-ERRS agrees it's important to
13 review the name from the scripted, printed and
14 the verbal standpoint. We think it's
15 important to look at letter types. We have a
16 very long list that we have been compiling for
17 many years. One of my staff, Marci Lee, who
18 actually is a former FDA employee, has been
19 compiling this look alike letter list for many
20 years. Examples of things like uppercase A
21 looking like an uppercase C and a lower case
22 L. We know those, and when we are doing our

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 evaluation, we take those things into
2 consideration when we are looking at the
3 prescription.

4 We also agree that the use of a
5 computer generated list for generating names
6 is reasonable to consider, and again, agree
7 with the FDA statement that it should not be
8 used for hypothesis testing. But we believe
9 that you should set up a standard for setting
10 its threshold. We know that that is not the
11 case right now, so I believe there should be
12 an agreement up front as to what the threshold
13 should be when we start using these on a
14 regular basis, and when FDA makes this public
15 at the end of 2009 - or is it - either end of
16 this year, or end of next year.

17 We also believe that it is
18 important to understand and review medication
19 errors to understand their causation, so when
20 we are looking at trademarks and certain
21 products attached to those trademarks, you can
22 see where the potential errors can occur.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 When it relates to a product that
2 is being submitted, though, I think that it is
3 more important when you are looking at it, if
4 it's the same trademark. Again it goes back
5 to the fact where, are you looking at the
6 name, or are you looking at every other factor
7 that could be involved in that particular
8 medication error?

9 The problem is that the type of
10 data you are looking for, the medication error
11 data outside the U.S., is even scarcer than it
12 is here. The causation of that error would
13 need to be determined, and just because errors
14 have occurred, it doesn't mean it had to do
15 with the trademark.

16 And also, is it relevant first of
17 all. And then if it's not the same trademark,
18 I'm not really sure what the point is related
19 to this particular conversation that we are
20 having today.

21 I understand it may be related to
22 approvability of the product in the U.S., but

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 not necessarily approvability of the name.
2 The lexicon of drugs outside the U.S. is not
3 the same as here, so you can't really do a
4 comparison.

5 One of the things that we had
6 questions about was Appendix B on pages 29 and
7 30. How important are all these methods? I
8 think this has been alluded to. Do we really
9 need all of these methods to work? I think we
10 are just dumping everything in there. Is more
11 better? Do we really need all of those? How
12 are you going to determine whether each part
13 of the safety review is important? Are you
14 going to determine one or the other? Will you
15 be trying to determine which part has
16 influence on the outcome? There may be a lot
17 of redundancy in the results that you get in
18 each of those. How is the FDA going to
19 determine that in their evaluation?

20 Will you plan on throwing out any
21 of those along the way if you are finding that
22 there is no influence on the outcome? I think

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 that has to do with Marjorie called rapid
2 cycle improvements, where you want - we don't
3 want to wait until the end of the two years to
4 get any feedback if we are going to be working
5 on these pilots. So throughout the whole
6 process we would like to get feedback.

7 And if we are finding that parts of
8 these A through G recommendations are not
9 working, perhaps we wouldn't need to do them,
10 because there is a lot of time, burden,
11 energy, resources and costs for everyone
12 involved.

13 As far as the name simulation
14 studies, I'm not sure how you are going to be
15 evaluating them, and I think John just alluded
16 to that. If you are not - or I guess Maury.
17 If you are not doing them, I'm not sure how
18 you are going to be able to evaluate them, and
19 I don't know how you are going to be
20 determining the process, their value, over
21 what we are doing now.

22 Statistically reliable data was the

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 comment that was used, or the phrase that was
2 used, and they are not going to be
3 statistically significant, because you are not
4 going to get the large numbers, the 26,000
5 that Kelly Taylor mentioned.

6 So again, John mentioned in his
7 previous discussion, we have talked to some
8 human factors engineers, and it was suggested
9 that perhaps error-prone situations should be
10 used, not just do it in the daily activity,
11 but if you want to create error potential,
12 that you should use an error-prone situation.

13 And that's what human factors engineers do.

14 As far as the questions related to
15 what do you think this says, test, we are not
16 really sure how worthwhile that is, because
17 people have really never seen the name before.

18 So they could be guessing. If I
19 was pharmacist for the first time, I'm not
20 sure, if I say I don't know what it says, or
21 if I say it says nothing that relates to any
22 other product on the market, I'm really not

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 sure how worthwhile that is.

2 The issue to us is that if it's
3 confused with something already marketed, or
4 if it's confused with a lab test, et cetera,
5 that's where we believe the value to be in
6 these studies.

7 Also alluded to by John, and again,
8 I'm not a human factors engineer, and I'm not
9 a statistician, and also Jerry as well said
10 that, you have got all these different
11 scenarios, and you do them once or twice, and
12 I am not sure what the value is, because
13 again, human factors engineers show that there
14 are certain tasks that different people do,
15 and it may not be that important that you get
16 every single type of person to do that task.

17 For example, picking up a
18 prescription and going to the shelf and
19 getting the bottle correctly. You don't
20 necessarily need a pharmacy technician to do
21 it, and a nurse to do it, and a pharmacist to
22 do it, as long as you are doing the same

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 tasks, and you do it multiple ways, you could
2 use the same types of people. It's not really
3 important to use a variety necessarily.

4 MS. PAULS: Sue, in the interests of
5 allowing each person the same amount of time,
6 I'm going to ask you to wrap up please.

7 DR. PROULX: Okay. I will have one
8 more section on the FMEA, and then I won't say
9 too much about the non-prescription, because
10 that was really Gary's talk this afternoon.

11 We believe FMEA is a good way to
12 evaluate the data. We believe that it is
13 important, however, to look at the risks of
14 confusion as well as the risk of harm, and I
15 think just in the past few minutes we have
16 talked about that. We believe the risk of
17 harm is significant when determining this,
18 since there is no such thing as zero errors.

19 Looking at the features of the
20 trademark other than just look alike and sound
21 alike is important, and we believe that
22 companies should be allowed to offer risk

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 reduction strategies at the time of submission
2 if there would be a way to mitigate the error,
3 as opposed to just up front saying the name
4 should not necessarily be rejected.

5 And the last thing I'll say is, as
6 far as the team goes, the FMEA team, we
7 believe that just using practitioners as
8 recommended in section 4.8.6.c, should not be
9 used, that you should use experts who are well
10 versed in medication safety and error
11 prevention, who understand how errors occur
12 with labeling, packaging and nomenclature.

13 And I know it was alluded to this
14 morning, I wasn't in the concept paper, but an
15 expert panel I think is very valuable.

16 I'll stop there, and I'd be happy
17 to take any questions.

18 Thank you.

19 MS. PAULS: Great. Any questions
20 from the panel or clarifying comments for Sue?

21 Okay, thank you very much.

22 DR. PROULX: Everyone has had

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 enough. Thank you.

2 MS. PAULS: Carol, did you want to
3 make any final comments?

4 MS. HOLQUIST: No, I'd just like to
5 thank everyone for their participation today.

6 I think we've had a good discussion. We have
7 a lot to take back and consider when we are
8 relooking at this concept paper. And we look
9 forward to tomorrow's discussion.

10 So thank you all.

11 WRAP UP AND ADJOURN

12 DR. DAL PAN: That would make life a
13 lot easier. There is also no clear way from
14 an epidemiologic point of view, or a public
15 health point of view, to actually go out in
16 the real world and see what errors are really
17 happening, why they are happening, quantify
18 their frequency and their impact, that would
19 really help us a lot.

20 But we don't have that, and we are
21 not going to get it by December of this year,
22 next year, or the year after.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

1 So we have to do the best we can in
2 the interim, and hearing new approaches, Ruth
3 thank you for a lot of them today, and for all
4 the others who brought them up to the table,
5 it's important for us to hear.

6 So we look forward to more fo this
7 discussion tomorrow.

8 MS. PAULS: Thank you. The meeting
9 is officially adjourned for the day.

10 (Whereupon, at 4:34 p.m., the
11 proceedings were adjourned.)

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701