

1 And that could be across the board
2 specific for each of the topic areas.

3 And then the comment about what do
4 we know about risk, and risk communication,
5 and what people know. And I really would look
6 forward to seeing the information that you
7 would have to pull together, but I wanted to
8 mention, also, that the University of Maryland
9 has a relatively new, maybe five years old,
10 Center for Risk Communication Research, and
11 they do some things jointly with CFSAN. And
12 maybe it would be wonderful to have one of
13 those contracts where you've got a bright
14 graduate student to work under the direction
15 of a motivated professor to provide a
16 literature review for us, so that we're not
17 reading 50 pages of papers, but rather
18 something that's concise with references, and
19 let them do that and pull it together, and
20 maybe without too much money, and great things
21 for them.

22 MS. VEGA: Like someone said

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1 before, the NCI has done extensive, and it's
2 not just related to cancer, literature review
3 on risk communications. And, actually, it's
4 available on their website, all the articles.

5 They have it in Word. I think it goes back to
6 the 90s, the National Cancer Institute. And
7 they do have -- I have sent, actually, the
8 link. I can send it again to Lee. But it's
9 very extensive, and it's not only related to
10 cancer.

11 DR. FISCHOFF: While you're
12 recharging, maybe I'll say a couple of things.

13 One is, I mean, this theme of getting the
14 risks and the benefits, they're not interested
15 in the risks because they weren't benefits.
16 And somehow or other, we've got one side --
17 generally speaking, one side is responsible
18 for this, and the other side is responsible
19 for that. And it sounds like each side has
20 some inertia in coming together, and you have
21 these things that are in sort of different
22 idioms, different units. They're, in some

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1 way, incommensurable, even if they were
2 explained in the same units. And I guess I
3 would like -- I think it might be interesting
4 for perhaps the staff to see if there's some
5 place where we might look at some, or they
6 might ask us to look at some program within
7 FDA that had particular freedom to put the
8 risk and benefits on the same page in order to
9 see how it could be done, because I think
10 unless -- I think leaving it to these chaotic
11 processes -- I mean, for all I know, maybe
12 industry will figure out how to do it, and
13 bring it to EPA. And they'll say oh, well, if
14 industry wants it, maybe we can do it, or
15 maybe it will be a foreign body, and they'll
16 reject it, but that seems to be the sort of
17 big, kind of a big unanswered question. And
18 although the Committee is called the Committee
19 on Risk Communication, I think the concept
20 that we saw in the examples of our charge is
21 risks related to the benefits, so that was one
22 point. I think that's really critical, and we

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1 could -- as somebody said, FDA is the content-
2 provider, we're not providing the right
3 content unless we work both sides.

4 And the second thing is that, I
5 would say that if I thought about hundreds,
6 thousands of papers on risk communication. An
7 awful lot of them look at kind of summary
8 data, or uncertainty in summary data. And it
9 seems like an awful lot of -- the key -- we
10 know a lot about how to do it, when it's
11 harder, and so on, but a question that comes
12 up, I think probably most from -- to
13 understand -- that there's something about the
14 epistemology of that data that's not captured
15 in the statistical summary, that it comes out
16 of a process, if it's short trials, or long
17 trials. It's active surveillance, or passive
18 surveillance, and to understand the quality of
19 the evidence you really need to understand
20 something about the process, a process whereby
21 FDA approves things with varying degrees of
22 enforcement or not.

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1 I think that that's not hard for
2 people to understand. It's not hard to -- I
3 think with the right research, it wouldn't be
4 hard to explain so that people would be able
5 to put the evidence in context, that they
6 wouldn't be -- feel like they've been cheated
7 when surprises come up, because they
8 understand what the quality of the evidence
9 is. And my guess is that there's a way that
10 one could do the science on that, and that
11 there's a way -- I'm not sure whether this is
12 quite branding, or this may be more kind of
13 framing, that FDA may be required to just give
14 the summary, nice if they gave the summaries
15 in comparable quantitative units, but to embed
16 those in an explanation of how they came
17 about. I think that that would put the -- I
18 think that would be good for the Agency so
19 people wouldn't feel like they're fair game
20 for target practice whenever they made a
21 statement. And probably that's a kind of
22 education that isn't being done now, and I

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1 think it's quite tractable.

2 DR. YAROSS: Yes. Actually, for
3 prescription drugs and Class III Medical
4 Devices, when the product is approved, there's
5 a summary of safety and effectiveness, which
6 is an FDA document that's done collaboratively
7 on the drug side, a summary basis of approval,
8 which starts out as that summary of the risk
9 and the benefit, and why the product was
10 approvable. And then in the continuing
11 marketplace, that's what the package insert is
12 intended to convey. The problem, of course,
13 is that that's not necessarily intelligible to
14 all readers.

15 And as new information comes in,
16 the process of updating it is a challenging
17 one, to try and maintain that proper balance.

18 But there is, at least, a starting point, I
19 think, for that type of document.

20 DR. GOLDSTEIN: Just to throw
21 something else into the hopper here. The
22 discussions that we're having have centered a

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1 lot around messages, and communication
2 vehicles, and we have mentioned the importance
3 of the educational process, too. And I have
4 to remember back to what Commissioner Von
5 Eschenbach said, communication isn't just the
6 message. It isn't just how we package or
7 frame the information, it is an iterative
8 process of giving information, and then seeing
9 the impact that that information has. How is
10 it perceived? How is it appreciated? How is
11 it acted upon?

12 And to the degree that we can see
13 communication as a process, not an event, I
14 think we can begin to craft both vehicles that
15 we can consider to be useful for conveying the
16 message, but also vehicles for making sure
17 that the loop is closed, that the message is
18 getting through, that the receiver has gotten
19 what we hoped they will, and that that's
20 helping them to make informed decisions. So
21 put in a pitch for that, as well, as we move
22 along.

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1 MS. DeSALVA: Just real quick, and
2 forgive me if I'm stating the obvious, but one
3 of my major take-aways from today's
4 conversation is -- has to do with the
5 opportunity, both the obligation and the
6 opportunity to introduce more evaluation into
7 risk communication here, particularly at the
8 Agency, because communication can transform
9 outcome in healthcare, which I'm sure we all
10 know and believe. That can be both good and
11 bad, so it would seem that there is an
12 obligation to understand what is the impact of
13 FDA communications around risk. And then what
14 is the opportunity to learn from that, and to
15 advance knowledge and practice much more
16 broadly based on those learnings. And it just
17 seems like kind of a golden chance to kind of
18 create a laboratory that would be very
19 valuable at this point in time. And that,
20 possibly, a wonderful place to start, if we
21 were just to pick something very concrete and
22 specific to start with, the area of emergent

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1 risk is so important. There are so many
2 important areas, but emergent risk might be an
3 interesting place to start.

4 DR. FISCHOFF: Okay. Last call.

5 DR. GORELICK: This sort of takes
6 us slightly away, but I wanted to share my
7 epiphany of the day, which is, our university,
8 as well as many universities for a whole host
9 of reasons are now engaged in a sort of
10 reviews of their general education
11 requirements. I don't know for how many of
12 you that -- my wife is chairing that at
13 another university. I stayed away from it at
14 mine, but this whole day has made me think a
15 lot, and our numeracy expert maybe can help
16 here about the difference between mathematics
17 and statics, and probability. And how they
18 fit together in terms of learning.

19 The reason I ask this is, there's
20 always sort of hammering on campuses and at
21 the federal level about the extent of -- where
22 the Math SAT score is, and Math learning.

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1 And, yet, more and more, and your paper,
2 especially, made me think of this about
3 numeracy, more and more it's in a complex
4 world with evidence-based medicine coming up,
5 and all -- it's the ability C- statistics and
6 probability are becoming absolutely key life
7 skills. And what I can't -- what I really
8 don't know the answer to is whether the
9 current emphasis in most general education on
10 the mathematics course, you know, get up to
11 pre-calc, or calculus and then you're done.
12 Does that solve this? Does that address this?
13 If it doesn't, and it doesn't, the reason I
14 sort of asked it, knowing it doesn't, because
15 I had a low SAT score, and I ended up a
16 statistician, so I know there must be some
17 difference here. And I'm beginning to think
18 that at least some larger discussion, and
19 maybe not here in this group, but about the
20 extent to which we introduce the basic issues
21 of probability into general education on the
22 secondary, and on the college level; not only

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1 for medical risk and stuff, but the ability to
2 understand opinion polling, and all sorts of
3 other things which, again, I'm not sure are
4 served by a rigorous math requirement.

5 DR. FISCHOFF: John.

6 DR. PALING: The first one is a
7 brief remark that Lee and yourself, Mr.
8 Chairman, can answer quite quickly. Is a
9 typical pattern for these meetings, the end of
10 our deliberations, you define tasks that you'd
11 like your members to do prior to the next
12 meeting, or do we just let it lie on the
13 table, and when we come together, we'll have a
14 new agenda with new specifics? Are we, in
15 other words, going to be tasked with things,
16 either as one group, or subgroups, between now
17 and three months time? And I have a follow-up
18 question to what -- from that, depending on
19 the answer.

20 DR. FISCHOFF: I'm interested in
21 the answer, too. We'll have one of those Men
22 In Black neuralizers. We'll just blank this

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1 all out, and we'll restart next time.

2 DR. ZWANZIGER: As for what's
3 typical, it varies. Most meetings, the advice
4 of the Committee is given in the context of
5 the meeting when the meeting is, of course,
6 transcribed. We'll also write up minutes,
7 which you will all have an opportunity to
8 approve and correct. And that's the advice
9 from this meeting.

10 Then we can certainly start new
11 questions. We would try and make all of this
12 available openly to the public, so that it
13 doesn't happen kind of in-between meetings,
14 which then might not be available for the
15 public.

16 DR. PALING: Because I'm involved
17 neither in the finances, nor other people's
18 time involvement, my guess would be that it
19 might be a helpful thought to sub-divide these
20 different topics, and perhaps give us each
21 opportunities to come up with ideas back to
22 the group. And because of the need for public

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1 openness, the daylight regulations, we should
2 do that through you. But I felt that might be
3 a useful way to go.

4 If something like that were to
5 happen, here's a thought that may be totally
6 off the wall. When we had our questions from
7 our guests out there, I realized that I knew
8 relatively little at the depth that many of
9 our friends do. And the suggestion was made
10 well, perhaps we should let our risk experts
11 talk to you as a Committee, so that you will
12 be better enabled to see the broader
13 perspective. In other words, to get a steep
14 learning curve. With that, I agree. I
15 pretend nothing other than that I try to come
16 objectively at this. I have a fairly strong
17 background, but I do not have the answers to
18 the complex questions that we have.

19 All that leads to this. I'm
20 wondering whether there were a way for a
21 website to be opened either within FDA, or
22 separately, where we could agree various

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1 specific questions, and invite all interested
2 parties to give their answer within 100 words.

3 Things like how do you, whoever the you
4 reading this is, think that we should deal
5 with the communication of the risks and the
6 benefits? How do we deal with uncertainties?

7 I would guarantee -- I mean, I
8 don't know how many people would respond to
9 that opportunity, but I would grow greatly as
10 a member of this Committee by just seeing the
11 sorts of responses that came in. I'm not
12 suggesting we should reply to them. What I'm
13 trying to suggest is, I would love to do a
14 good job on this Committee by being willing to
15 listen and learn to a depth that I don't at
16 present have. And if it were possible to do
17 that electronically, to me, that would be a
18 great benefit.

19 DR. FISCHOFF: Let me -- go ahead.

20 DR. ZWANZIGER: I was just going to
21 say, I will --

22 MS. VEGA: My question, when we had

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1 the presentation in terms of the mandates,
2 there are some items within the mandates, for
3 example, the Advisory Committee shall say
4 Direct-to-consumer advertisement as it relates
5 to increased access to health information, and
6 the great health disparities for these
7 populations." And there are other mandates
8 then, it seems to me require action of the
9 Committee other than at the meeting time to
10 implement, how are we going to accomplish
11 this?

12 DR. OSTROVE: It depends on what
13 FDA wants. And those are the kind of
14 discussions that we're going to have to have,
15 that Lee and I, for instance, are going to
16 have to have internally with some of the
17 groups that are involved in this process. So,
18 for instance, the Direct-to-consumer
19 advertising focus on some of those, we would
20 work with the Center for Drug Evaluation and
21 Research, specifically, the Division of Drug
22 Marketing, Advertising, and Communications, to

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1 kind of decide with them, with their lawyers,
2 with their social scientists, to decide how
3 we're interpreting the statute.

4 The statute is -- it is what it is.

5 And the question is how do we interpret that?

6 And then we would then follow-up with that
7 with the Committee, as a function of what FDA
8 decides it needs from the Committee. Does
9 that kind of C- I mean, it comes down to our
10 decision, ultimately, in terms of the agendas.

11 Now, we've kind of talked about this from an
12 administrative standpoint, but, essentially,
13 FDA kind of sets the agendas. You're here
14 because we need your advice, and we will
15 probably have a lot of things that we need
16 your advice on. There are some things that
17 we're required to get your advice on. Then
18 the issue is how do we do that? What are the
19 kinds of questions are we going to ask? And
20 we need to work with our people internally to
21 make those determinations. And you will,
22 undoubtedly, be hearing about the DTC stuff,

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1 most likely pretty soon, because the statute
2 mandates that there be reports within a
3 certain period of time.

4 So given that, I hope this sounds
5 relatively straightforward. It's kind of
6 hard, because we haven't discussed those
7 internally, yet. So it's hard for us to say
8 how we're going to ask for your advice, and to
9 what extent we're going to ask you to do stuff
10 outside, and to what extent we actually are
11 permitted to do that. That's something that
12 we'll also have to work with our internal
13 people on to figure out. So we're kind of at
14 the beginning here, and we're just kind of
15 working it out as things go along. And I hope
16 that that's not too vague for you.

17 DR. FISCHOFF: Let me, in closing,
18 just remind, just check me on this, to remind
19 the panelists that we're not allowed -- the
20 Committee members are not allowed to talk
21 about any issues that are on the agenda, so if
22 you don't like your dinner, don't -- if you

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1 want to send back your dinner, it's not a
2 recall. Use some other term.

3 We are free, however, to talk about
4 our own process, so if anybody has feedback
5 for me on how the meeting was run, or perhaps
6 even any thoughts about how we'd like to
7 organize ourselves, I think that that's
8 probably fair game, as long as we're not
9 talking about FDA issues.

10 Okay. So let me just thank
11 everybody for staying with it so intently, and
12 let me just thank our audience for coming, and
13 those who presented to us, and 8:00 tomorrow.

14 (Applause.)

15 (Whereupon, the proceedings in the
16 above-entitled matter were concluded at 5:05
17 p.m.)

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